



## Snap-shot of the

# ISO 11783-11 online data base

DD Entity	0 - Internal Data Base DDI
Definition	This DDI is reserved for internal use only.
Comment	This DDE was a result of Jan 2005 Task Controller meeting.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2005-02-02
Status Comments	

DD Entity	1 - Setpoint Volume Per Area Application Rate as [mm³/m²]
Definition	Setpoint Application Rate specified as volume per area as
	[mm³/m²]
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	0,01
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,00 - 21474836,47
Submit by	Part 10 Task Force
Submit Date	0000-00-00
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	2 - Actual Volume Per Area Application Rate as [mm³/m²]
Definition	Actual Application Rate specified as volume per area as [mm³/m²]
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	0,01
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,00 - 21474836,47
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	3 - Default Volume Per Area Application Rate as [mm³/m²]
Definition	Default Application Rate specified as volume per area as [mm³/m²]
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	0,01
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,00 - 21474836,47
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	4 - Minimum Volume Per Area Application Rate as [mm³/m²]
Definition	Minimum Application Rate specified as volume per area as
	[mm³/m²]
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	0,01
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,00 - 21474836,47
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	5 - Maximum Volume Per Area Application Rate as [mm³/m²]
Definition	Maximum Application Rate specified as volume per area as
	[mm³/m²]
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	0,01
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,00 - 21474836,47
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	6 - Setpoint Mass Per Area Application Rate
Definition	Setpoint Application Rate specified as mass per area
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	7 - Actual Mass Per Area Application Rate
Definition	Actual Application Rate specified as mass per area
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	8 - Default Mass Per Area Application Rate
Definition	Default Application Rate specified as mass per area
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	9 - Minimum Mass Per Area Application Rate
Definition	Minimum Application Rate specified as mass per area
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	10 - Maximum Mass Per Area Application Rate
Definition	Maximum Application Rate specified as mass per area
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	11 - Setpoint Count Per Area Application Rate
Definition	Setpoint Application Rate specified as count per area
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	12 - Actual Count Per Area Application Rate
Definition	Actual Application Rate specified as count per area
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	13 - Default Count Per Area Application Rate
Definition	Default Application Rate specified as count per area
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	14 - Minimum Count Per Area Application Rate
Definition	Minimum Application Rate specified as count per area
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	15 - Maximum Count Per Area Application Rate
Definition	Maximum Application Rate specified as count per area
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	16 - Setpoint Spacing Application Rate
Definition	Setpoint Application Rate specified as distance: e.g. seed spacing of
	a precision seeder
Comment	Handling 0 value for Seed Spacing -
	The 0 rate indicates nothing shall be applied. Even though Seed
	spacing defines distance between 2 Seeds. As this is rate DDI, zero
	value shall indicate no Seeds are applied for Rate Application.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	Published
Status Date	2020-12-15
Status Comments	Comment added

DD Entity	17 - Actual Spacing Application Rate
Definition	Actual Application Rate specified as distance: e.g. seed spacing of a
	precision seeder
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	18 - Default Spacing Application Rate
Definition	Default Application Rate specified as distance: e.g. seed spacing of a
	precision seeder
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	19 - Minimum Spacing Application Rate
Definition	Minimum Application Rate specified as distance: e.g. seed spacing of
	a precision seeder
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	20 - Maximum Spacing Application Rate
Definition	Maximum Application Rate specified as distance: e.g. seed spacing
	of a precision seeder
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	21 - Setpoint Volume Per Volume Application Rate
Definition	Setpoint Application Rate specified as volume per volume
Comment	
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
Unit Symbol	mm³/m³ - Capacity per capacity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	22 - Actual Volume Per Volume Application Rate
Definition	Actual Application Rate specified as volume per volume
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m³ - Capacity per capacity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	23 - Default Volume Per Volume Application Rate
Definition	Default Application Rate specified as volume per volume
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m³ - Capacity per capacity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	24 - Minimum Volume Per Volume Application Rate
Definition	Minimum Application Rate specified as volume per volume
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m³ - Capacity per capacity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	25 - Maximum Volume Per Volume Application Rate
Definition	Maximum Application Rate specified as volume per volume
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/m³ - Capacity per capacity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	26 - Setpoint Mass Per Mass Application Rate
Definition	Setpoint Application Rate specified as mass per mass
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	27 - Actual Mass Per Mass Application Rate
Definition	Actual Application Rate specified as mass per mass
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	28 - Default Mass Per Mass Application Rate
Definition	Default Application Rate specified as mass per mass
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	29 - Minimum Mass Per Mass Application Rate
Definition	Minimum Application Rate specified as mass per mass
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	30 - MaximumMass Per Mass Application Rate
Definition	Maximum Application Rate specified as mass per mass
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	31 - Setpoint Volume Per Mass Application Rate
Definition	Setpoint Application Rate specified as volume per mass
Comment	
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	32 - Actual Volume Per Mass Application Rate
Definition	Actual Application Rate specified as volume per mass
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	9 - Forage harvester
Unit Symbol	mmÂ <sup>3</sup> /kg - Capacity per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added device class 9 - Forage Harvester

DD Entity	33 - Default Volume Per Mass Application Rate
Definition	Default Application Rate specified as volume per mass
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	34 - Minimum Volume Per Mass Application Rate
Definition	Minimum Application Rate specified as volume per mass
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	35 - Maximum Volume Per Mass Application Rate
Definition	Maximum Application Rate specified as volume per mass
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	36 - Setpoint Volume Per Time Application Rate
Definition	Setpoint Application Rate specified as volume per time
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	37 - Actual Volume Per Time Application Rate
Definition	Actual Application Rate specified as volume per time
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	38 - Default Volume Per Time Application Rate
Definition	Default Application Rate specified as volume per time
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	39 - Minimum Volume Per Time Application Rate
Definition	Minimum Application Rate specified as volume per time
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	40 - Maximum Volume Per Time Application Rate
Definition	Maximum Application Rate specified as volume per time
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	41 - Setpoint Mass Per Time Application Rate
Definition	Setpoint Application Rate specified as mass per time
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	42 - Actual Mass Per Time Application Rate
Definition	Actual Application Rate specified as mass per time
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	43 - Default Mass Per Time Application Rate
Definition	Default Application Rate specified as mass per time
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	44 - Minimum Mass Per Time Application Rate
Definition	Minimum Application Rate specified as mass per time
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	45 - Maximum Mass Per Time Application Rate
Definition	Maximum Application Rate specified as mass per time
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	46 - Setpoint Count Per Time Application Rate
Definition	Setpoint Application Rate specified as count per time
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	47 - Actual Count Per Time Application Rate
Definition	Actual Application Rate specified as count per time
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	48 - Default Count Per Time Application Rate
Definition	Default Application Rate specified as count per time
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	49 - Minimum Count Per Time Application Rate
Definition	Minimum Application Rate specified as count per time
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
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Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	50 - Maximum Count Per Time Application Rate
Definition	Maximum Application Rate specified as count per time
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	51 - Setpoint Tillage Depth
Definition	Setpoint Tillage Depth of Device Element below soil surface, value
	increases with depth. In case of a negative value the system will
	indicate the distance above the ground.
Comment	
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	8 - Root Harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	

DD Entity	52 - Actual Tillage Depth
Definition	Actual Tillage Depth of Device Element below soil surface, value
	increases with depth. In case of a negative value the system will
	indicate the distance above the ground.
Comment	
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	

DD Entity	53 - Default Tillage Depth
Definition	Default Tillage Depth of Device Element below soil surface, value
	increases with depth. In case of a negative value the system will
	indicate the distance above the ground.
Comment	Use when missing Position data or outside any Treatment Zone
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	8 - Root Harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	

DD Entity	54 - Minimum Tillage Depth
Definition	Minimum Tillage Depth of Device Element below soil surface, value
	increases with depth. In case of a negative value the system will
	indicate the distance above the ground.
Comment	Supplied by device as physical minimum
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	8 - Root Harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	

DD Entity	55 - Maximum Tillage Depth
Definition	Maximum Tillage Depth of Device Element below soil surface, value
	increases with depth. In case of a negative value the system will
	indicate the distance above the ground.
Comment	Supplied by device as physical maximum
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	8 - Root Harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	

DD Entity	56 - Setpoint Seeding Depth
Definition	Setpoint Seeding Depth of Device Element below soil surface, value
	increases with depth
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	57 - Actual Seeding Depth
Definition	Actual Seeding Depth of Device Element below soil surface, value
	increases with depth
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	58 - Default Seeding Depth
Definition	Default Seeding Depth of Device Element below soil surface, value
	increases with depth
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
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Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	59 - Minimum Seeding Depth
Definition	Minimum Seeding Depth of Device Element below soil surface, value
	increases with depth
Comment	supplied by device as physical minimum
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
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Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	60 - Maximum Seeding Depth
Definition	Maximum Seeding Depth of Device Element below soil surface, value
	increases with depth
Comment	supplied by device as physical maximum
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	61 - Setpoint Working Height
Definition	Setpoint Working Height of Device Element above crop or soil
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	62 - Actual Working Height
Definition	Actual Working Height of Device Element above crop or soil
Comment	This is the height above the effective control surface. For sprayers
	this is the height above the crop canapé and for fertilizer spreaders,
	harvesters, etc it is the height above the ground.
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
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Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added comment for clarification.

DD Entity	63 - Default Working Height
Definition	Default Working Height of Device Element above crop or soil
Comment	use when missing Position data or outside any Treatment Zone
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	64 - Minimum Working Height
Definition	Minimum Working Height of Device Element above crop or soil
Comment	supplied by device as physical minimum
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	65 - Maximum Working Height
Definition	Maximum Working Height of Device Element above crop or soil
Comment	supplied by device as physical maximum
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	66 - Setpoint Working Width
Definition	Setpoint Working Width of Device Element
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
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Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	67 - Actual Working Width
Definition	Actual Working Width of Device Element
Comment	This is the effective / active working width during operation.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force

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Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added comment for clarification.

DD Entity	68 - Default Working Width
Definition	Default Working Width of Device Element
Comment	
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	69 - Minimum Working Width
Definition	Minimum Working Width of Device Element
Comment	
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1

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Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	70 - Maximum Working Width
Definition	Maximum Working Width of Device Element
Comment	
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
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	version.

DD Entity	71 - Setpoint Volume Content
Definition	Setpoint Device Element Content specified as volume
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
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DD Entity	72 - Actual Volume Content
Definition	Actual Device Element Content specified as volume
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
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	version.

DD Entity	73 - Maximum Volume Content
Definition	Maximum Device Element Content specified as volume
Comment	is a minimum needed as well ??
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02

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Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	74 - Setpoint Mass Content
Definition	Setpoint Machine Element Content specified as mass
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	75 - Actual Mass Content
Definition	Actual Device Element Content specified as mass
Comment	If the device is equipped with a weighing system which provides the
	possibility to tare the current load it is possible that the value has a
	negative sign in case of an unload operation.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2

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Current Status	ISO-Published
Status Date	2011-04-04
Status Comments	

DD Entity	76 - Maximum Mass Content
Definition	Maximum Device Element Content specified as mass
Comment	is a minimum needed as well ??
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	77 - Setpoint Count Content
Definition	Setpoint Device Element Content specified as count
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02

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Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	78 - Actual Count Content
Definition	Actual Device Element Content specified as count
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	79 - Maximum Count Content
Definition	Maximum Device Element Content specified as count
Comment	is a minimum needed as well ??
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	80 - Application Total Volume as [L]
Definition	Accumulated Application specified as volume as liter [L]
Comment	is a counter of a device element
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	L - Capacity count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	81 - Application Total Mass in [kg]
Definition	Accumulated Application specified as mass in kilogram [kg]
Comment	is a counter of a device element
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	82 - Application Total Count
Definition	Accumulated Application specified as count
Comment	Task total of a device element for the application of a countable
	product. Often used as total for the group Setpoint, Actual, Default,
	Minimum & Maximum Count Per Area Application Rate (DDI 11
	through 15). This DDI is meant for countable products.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2022-08-09
Status Comments	Comment update only!

DD Entity	83 - Volume Per Area Yield
Definition	Yield as volume per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ml/m² - Capacity per area large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	84 - Mass Per Area Yield
Definition	Yield as mass per area, not corrected for the reference moisture
	percentage DDI 184.
Comment	This Mass per Area yield is the mass that includes the actual
	percentage moisture (DDI 99) if this is measured on e.g. harvesting
	equipment. This comment is added to clarify and differentiate this DDI
	from the Dry Mass Per Area Yield (DDI 181).
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	85 - Count Per Area Yield
Definition	Yield as count per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	86 - Volume Per Time Yield
Definition	Yield as volume per time
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	ml/s - Float large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	87 - Mass Per Time Yield
Definition	Yield as mass per time, not corrected for the reference moisture
	percentage DDI 184.
Comment	This Mass per Time yield is the mass that includes the actual
	percentage moisture (DDI 99) if this is measured on e.g. harvesting
	equipment. This comment is added to clarify and differentiate this DDI
	from the Dry Mass Per Time Yield (DDI 182).
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	88 - Count Per Time Yield
Definition	Yield as count per time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	89 - Yield Total Volume
Definition	Accumulated Yield specified as volume
Comment	is a counter of a machine element
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	L - Quantity per volume
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	90 - Yield Total Mass
Definition	Accumulated Yield specified as mass, not corrected for the reference
	moisture percentage DDI 184.
Comment	This Yield Total Mass is the mass that includes the average
	percentage moisture (DDI 262) if this is measured on e.g. harvesting
	equipment. This comment is added to clarify and differentiate this DDI
	from the Yield Total Dry Mass (DDI 183).
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	91 - Yield Total Count
Definition	Accumulated Yield specified as count
Comment	is a counter of a machine element
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	92 - Volume Per Area Crop Loss
Definition	Crop yield loss as volume per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ml/m² - Capacity per area large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	93 - Mass Per Area Crop Loss
Definition	Crop yield loss as mass per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	94 - Count Per Area Crop Loss
Definition	Crop yield loss as count per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	/m² - Quantity per area unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	95 - Volume Per Time Crop Loss
Definition	Crop yield loss as volume per time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ml/s - Float large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	96 - Mass Per Time Crop Loss
Definition	Crop yield loss as mass per time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	97 - Count Per Time Crop Loss
Definition	Crop yield loss as count per time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	98 - Percentage Crop Loss
Definition	Crop yield loss
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	99 - Crop Moisture
Definition	Moisture in crop yield
Comment	This DDE defines the actual percentage moisture of the crop.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	100 - Crop Contamination
Definition	Dirt or foreign material in crop yield
Comment	This DDE defines the contamination in ratio of the yield DDI units.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	101 - Setpoint Bale Width
Definition	Setpoint Bale Width for square baler or round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	102 - Actual Bale Width
Definition	Actual Bale Width for square baler or round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	103 - Default Bale Width
Definition	Default Bale Width for square baler or round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	104 - Minimum Bale Width
Definition	Minimum Bale Width for square baler or round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	105 - Maximum Bale Width
Definition	Maximum Bale Width for square baler or round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	106 - Setpoint Bale Height
Definition	Setpoint Bale Height is only applicable to square baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	107 - Actual Bale Height
Definition	Actual Bale Height is only applicable to square baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	Published
Status Date	2024-04-15
Status Comments	Typo fix only

DD Entity	108 - Default Bale Height
Definition	Default Bale Height is only applicable to square baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	109 - Minimum Bale Height
Definition	Minimum Bale Height is only applicable to square baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	110 - Maximum Bale Height
Definition	Maximum Bale Height is only applicable to square baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	111 - Setpoint Bale Size
Definition	Setpoint Bale Size as length for a square baler or diameter for a
	round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	112 - Actual Bale Size
Definition	Actual Bale Size as length for a square baler or diameter for a round
	baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	113 - Default Bale Size
Definition	Default Bale Size as length for a square baler or diameter for a round
	baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	114 - Minimum Bale Size
Definition	Minimum Bale Size as length for a square baler or diameter for a
	round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	115 - Maximum Bale Size
Definition	Maximum Bale Size as length for a square baler or diameter for a
	round baler
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	116 - Total Area
Definition	Accumulated Area
Comment	is a counter of a machine element
Typically used by Device	0 - Non-specific system
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mÂ <sup>2</sup> - Area
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	117 - Effective Total Distance
Definition	Accumulated Distance in working position
Comment	is a counter of a machine element
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647

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Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	118 - Ineffective Total Distance
Definition	Accumulated Distance out of working position
Comment	is a counter of a machine element
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	119 - Effective Total Time
Definition	Accumulated Time in working position
Comment	is a counter of a machine element
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	17 - Sensor System
Unit Symbol	s - Time count

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Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	ISO-Published
Status Date	2011-12-21
Status Comments	

DD Entity	120 - Ineffective Total Time
Definition	Accumulated Time out of working position
Comment	is a counter of a machine element
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	s - Time count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	121 - Product Density Mass Per Volume
Definition	Product Density as mass per volume
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647

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Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	122 - Product Density Mass PerCount
Definition	Product Density as mass per count
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	mg/1000 - 1000 seed Mass
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	123 - Product Density Volume Per Count
Definition	Product Density as volume per count
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml/1000 - Volume per quantity unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2003-08-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02

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## 2024-06-25

# **ISOBUS Data Dictionary**

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Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	124 - Auxiliary Valve Scaling Extend
Definition	Factor to apply to AuxValveCommand PortFlowCommand. The
	scaling of the port flow relates to flow, not to spool position, although
	the position of the spool is of course indirectly affected.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	% - Percent
Resolution	0,1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	125 - Auxiliary Valve Scaling Retract
Definition	Factor to apply to AuxValveCommand PortFlowCommand. The
	scaling of the port flow relates to flow, not to spool position, although
	the position of the spool is of course indirectly affected.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	% - Percent
Resolution	0,1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	126 - Auxiliary Valve Ramp Extend Up
Definition	The valve will apply a ramp to the Auxiliary ValveCommand
	PortFlowCommand, to limit the acceleration or deceleration of flow.
	The valve must apply the ramp to create a liniear increase/decrease
	of flow over time.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	ms - Time
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	127 - Auxiliary Valve Ramp Extend Down
Definition	The valve will apply a ramp to the Auxiliary ValveCommand
	PortFlowCommand, to limit the acceleration or deceleration of flow.
	The valve must apply the ramp to create a liniear increase/decrease
	of flow over time.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	ms - Time
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	128 - Auxiliary Valve Ramp Retract Up
Definition	The valve will apply a ramp to theAuxiliary ValveCommand
	PortFlowCommand, to limit the acceleration or deceleration of flow.
	The valve must apply the ramp to create a liniear increase/decrease
	of flow over time.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	ms - Time
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	129 - Auxiliary Valve Ramp Retract Down
Definition	The valve will apply a ramp to the Auxiliary ValveCommand
	PortFlowCommand, to limit the acceleration or deceleration of flow.
	The valve must apply the ramp to create a liniear increase/decrease
	of flow over time.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	ms - Time
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	130 - Auxiliary Valve Float Threshold
Definition	Safety function. Current output of valve must be above threshold
	before float command is allowed.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	% - Percent
Resolution	0,1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	131 - Auxiliary Valve Progressivity Extend
Definition	Define non-linear releationship between command and flow by 2nd
	degree polynomium. (I will get polynomium)
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	132 - Auxiliary Valve Progressivity Retract
Definition	Define non-linear releationship between command and flow by 2nd
	degree polynomium. (I will get polynomium)
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	133 - Auxiliary Valve Invert Ports
Definition	Tell valve to swap extend and retract ports, easier than redoing
	plumbing on valve
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Lars Althof
Submit Date	2004-09-10
Submit Company	57 - Sauer-Danfoss Co.
Revision Number	1
Current Status	ISO-Published
Status Date	2005-02-02
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	134 - Device Element Offset X
Definition	X direction offset of a DeviceElement relative to a Device.
Comment	The DDI 134, Device element offset X is used to represent the
	position offset for any DET element with respect to DRP. Further
	details and geometry inheritance can be referenced in ISO11783 part
	10.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	Published
Status Date	2021-03-09
Status Comments	Comment update

DD Entity	135 - Device Element Offset Y
Definition	Y direction offset of a DeviceElement relative to a Device.
Comment	The DDI 135, Device element offset Y is used to represent the
	position offset for any DET element with respect to DRP. Further
	details and geometry inheritance can be referenced in ISO11783 part
	10
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers

Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2021-03-09
Status Comments	Comment update

DD Entity	136 - Device Element Offset Z
Definition	Z direction offset of a DeviceElement relative to a Device.
Comment	The DDI 136, Device element offset Z is used to represent the
	position offset for any DET element with respect to DRP. Further
	details and geometry inheritance can be referenced in ISO11783 part
	10
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	mm - Length
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2021-03-09
Status Comments	Comment update.

DD Entity	137 - Device Volume Capacity (Deprecated)
Definition	DeviceElement Volume Capacity, dimension of a DeviceElement
Comment	This DDE can be used to define the physical volume capacity that
	can be filled into this element, like the number of liters that can be
	filled into a bin. Note, there are a preferred duplicate DDIs 71, 72 and
	73!
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	not specified

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CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2024-02-05
Status Comments	Update comment to use lower DDIs

DD Entity	138 - Device Mass Capacity (Deprecated)
Definition	DeviceElement Mass Capacity, dimension of a DeviceElement
Comment	This DDE can be used to define the weight that can be loaded into
	the element. Note, there are a preferred duplicate DDIs 74, 75 and
	76!
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2024-02-05
Status Comments	Update comment to use lower DDIs

DD Entity	139 - Device Count Capacity (Deprecated)
Definition	DeviceElement Count Capacity, dimension of a DeviceElement
Comment	This DDE can be used to define the count capacity that can be
	loaded into the element, like the number of seeds that a grain bin can
	carry. Note, there are a preferred duplicate DDIs 77, 78 and 79!
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division

Revision Number	1
Current Status	Published
Status Date	2024-02-05
Status Comments	Update comment to use lower DDIs

DD Entity	140 - Setpoint Percentage Application Rate
Definition	Application Rate expressed as percentage
Comment	This DDE defines the setpoint application rate expressed in
	percentage. Usually this DDI is used within FMIS systems in
	combination with other information like a base-rate or a default-rate.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2023-07-10
Status Comments	Comment update

DD Entity	141 - Actual Work State
Definition	Actual Work State, 2 bits defined as 00=disabled/off, 01=enabled/on,
	10=error, 11=undefined/not installed
Comment	See the DDI 290 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" as reference for
	implementation guideline.
	This DDE has been revised in 2012 to be used as the Actual Work
	State. A separate Setpoint Work State was added to the data
	dictionary at that time.
	Original comment: this DDE was a result of March 2005 TF10
	meeting.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	142 - Physical Setpoint Time Latency
Definition	The Setpoint Value Latency Time is the time lapse between the
	moment of receival of a setpoint value command by the working set
	and the moment this setpoint value is physically applied on the
	device. That means if the setpoint value is communicated on the
	network (CAN bus) but the system needs 2 seconds to adjust the
	value physically on the desired unit (device element) then the
	Setpoint Latency Time is 2 seconds.
	The setpoint time latency value can only be positive.
Comment	The use of this DDE is to inform the overall system (e.g. Dektop
	Software, Task Controller) how the system works. The TC shall not
	shift this information into log files nor shall the device do that when
	sending actual values.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	ms - Time
Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	ISO-Approved
Status Date	2011-04-04

DD Entity	143 - Physical Actual Value Time Latency

Definition	The Actual Value Latency Time is the time lapse between the
	moment this actual value is communicated to the Task Controller,
	and the moment that this actual value is physically applied on the
	device. That means if the system needs 2 seconds to calculate or
	measure a value before communicating it on the network, then the
	Actual Latency Time value is minus 2 seconds.
	7 (1000) 201010 7 (1000) 7 (1000)
	Depending of the system characteristics the latency time could be
	negative or positive.
	nogative of positive.
	In case where the system communicates an actual value before the
	actual value has been physically applied the latency value should be
	positive.
	positive.
	In case where the system communicates an actual value after the
	actual value has been physically applied the latency value should be
Comment	negative.  The use of this DDE is to inform the everall evetem (e.g. Dekton
Comment	The use of this DDE is to inform the overall system (e.g. Dektop
	Software, Task Controller) how the system works. The TC shall not
	shift this information into log files nor shall the device do that when
	sending actual values.
	Example for a positive value:
	A seed flow sensor is placed at the start of the seed tube. At the
	moment the sensor measures seed flow X, it takes Y seconds for this
	flow to reach the coulters. The measured value is ahead of the
	physical value of the unit (coulters). So the latency could be plus 2
	seconds.
	Example for a negative value:
	A flow sensor has a delay in its response to a flow change that
	means it takes Y seconds to realize the change. At the moment the
	sensor measures flow X, the flow is already present for Y seconds on
	the physical unit. The actual value is ahead of measured value. So
	the latency could be minus 2 seconds.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	ms - Time
	•

Resolution	1
SAE SPN	not specified
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	144 - Yaw Angle
Definition	Pivot / Yaw Angle of a DeviceElement
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
Unit Symbol	° - Angle
Resolution	0,001
SAE SPN	not specified
CANBus Range	-180000 - 180000
Display Range	-180,000 - 180,000
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2023-07-10
Status Comments	Comment "This DDE was a result of March 2005 TF10 meeting."
	removed

DD Entity	145 - Roll Angle
Definition	Roll Angle of a DeviceElement
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
Unit Symbol	° - Angle
Resolution	0,001
SAE SPN	not specified
CANBus Range	-180000 - 180000
Display Range	-180,000 - 180,000
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01

Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-07-10
Status Comments	Comment "This DDE was a result of March 2005 TF10 meeting."
	removed

DD Entity	146 - Pitch Angle
Definition	Pitch Angle of a DeviceElement
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
Unit Symbol	° - Angle
Resolution	0,001
SAE SPN	not specified
CANBus Range	-180000 - 180000
Display Range	-180,000 - 180,000
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2023-07-10
Status Comments	Comment "This DDE was a result of March 2005 TF10 meeting."
	removed

DD Entity	147 - Log Count
Definition	Log Counter, may be used to control data log record generation on a
	Task Controller
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	n.a
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	11783-Part 10 Task Force
Submit Date	2005-03-01

Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2023-07-10
Status Comments	Comment "This DDE was a result of March 2005 TF10 meeting."
	removed

DD Entity	148 - Total Fuel Consumption
Definition	Accumulated Fuel Consumption as Counter
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Stephan Zelleröhr
Submit Date	2005-04-12
Submit Company	103 - Agrocom GmbH & Co. Agrarsystem KG
Revision Number	1
Current Status	ISO-Published
Status Date	2005-05-09
Status Comments	DDEs have been moved to published for creating the new Annex A
	version.

DD Entity	149 - Instantaneous Fuel Consumption per Time
Definition	Fuel consumption per time
Comment	

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mmÂ <sup>3</sup> /s - Flow
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Stephan Zelleröhr
Submit Date	2005-04-12
Submit Company	103 - Agrocom GmbH & Co. Agrarsystem KG
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added "Instantaneous" for clarification

DD Entity	150 - Instantaneous Fuel Consumption per Area
Definition	Fuel consumption per area
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Stephan Zelleröhr
Submit Date	2005-04-12
Submit Company	103 - Agrocom GmbH & Co. Agrarsystem KG
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added "Instantaneous" for clarification.

DD Entity	151 - Instantaneous Area Per Time Capacity
Definition	Area per time capacity
Comment	

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mmÂ <sup>2</sup> /s - Area per time unit
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Stephan Zelleröhr
Submit Date	2005-04-12
Submit Company	103 - Agrocom GmbH & Co. Agrarsystem KG
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added "Instantaneous" for clarification.

DD Entity	153 - Actual Normalized Difference Vegetative Index (NDVI)
Definition	The Normalized Difference Vegetative Index (NDVI) computed from
	crop reflectances as the difference between NIR reflectance in the
	780 to 880 nm band and red reflectance in the 640 to 680 nm band
	divided by the sum of the NIR and red reflectance in the same bands.
Comment	Document attached.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	n.a
Resolution	0,001
SAE SPN	TBD
CANBus Range	-1000 - 1000
Display Range	-1,000 - 1,000
Submit by	Marvin Stone
Submit Date	2008-04-28
Submit Company	39 - Microfirm Inc.
Revision Number	1
Current Status	Published
Status Date	2020-05-04
Status Comments	CANBus Range and Display Range change
Attachment	2009-08-11: Definition summary - NDVI definition summary.pdf

DD Entity	154 - Physical Object Length
Definition	Length of device element (dimension along the X-axis)
Comment	The reference point of the device element shall be located in the
	center of the device element
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm - Length
Resolution	1
SAE SPN	

CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hans Jürgen Nissen
Submit Date	2008-12-03
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	

DD Entity	155 - Physical Object Width
Definition	Width of device element (dimension along the Y-axis)
Comment	The reference point of the device element shall be located in the
	center of the device element
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hans Jürgen Nissen
Submit Date	2008-12-03
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	

DD Entity	156 - Physical Object Height
Definition	Height of device element (dimension along the Z-axis)
Comment	The reference point of the device element shall be located in the
	center of the device element

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hans Jürgen Nissen
Submit Date	2008-12-03
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	

DD Entity	157 - Connector Type
Definition	Specification of the type of coupler. The value definitions are:
	-1 = Not available
	0 = unknown (default),
	1 = ISO 6489-3 Tractor drawbar,
	2 = ISO 730 Three-point-hitch semi-mounted,
	3 = ISO 730 Three-point-hitch mounted,
	4 = ISO 6489-1 Hitch-hook,
	5 = ISO 6489-2 Clevis coupling 40,
	6 = ISO 6489-4 Piton type coupling,
	7 = ISO 6489-5 CUNA hitch,
	8 = ISO 24347 Ball type hitch,
	9 = Chassis Mounted - Self-Propelled,
	10 = ISO 5692-2 Pivot wagon hitch
	Ğ
	All other values are reserved for future assignments.
Comment	This DDE allows systems to automatically select the connection
	between devices. For instance, when 2 devices are on the network
	that declare device elements with the same connector type, the
	system can connect them accordingly.
	This DDE shall be used with the Device Element of type "Connector"
	only.
	Other standards for Mechanical connections between towed and
	towing vehicles to look at are:
	ISO 8755, ISO 21244, ISO 5692-1, ISO 8718, ISO 12357, ISO 3584,
	ISO 1102, ISO 11406, ISO 11407, ISO 20019, DIN 74054, DIN
	11026, DIN 11043
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-1 - 10

Display Range	-1 - 10
Submit by	Hans Jürgen Nissen
Submit Date	2008-12-03
Submit Company	33 - John Deere
Revision Number	3
Current Status	Published
Status Date	2020-10-05
Status Comments	Define Pivot Wagon Hitch as own type number 10.

DD Entity	158 - Prescription Control State
Definition	Defines and synchronise the actual state of the prescription system.
	The state is represented by the lowest significant 2 bits in the lowest
	significant byte of the process data value: Byte 1: bit 0-1: 00 =
	manual/off, 01 = auto/on, 10 = error indicator, 11 = undefined/not
	installed. bits 2-7: reserved set to 0. Byte 2-4: reserved set to 0.
	The DDI shall support the On Change trigger so that the TC is able to
	get informed when the value gets changed by the Working Set
	Master. The TC shall active this trigger when using the DDI.
	See attachment for more information
Comment	The prescription control master and its clients need to be
	synchronized in terms of their general state or activation by the user
	(System activated/deactivated in individual setups). This DDE serves
	2 purposes, one is to synchronize the prescription control state and
	the other is to enable a TC client to announce the support and initial
	state of its prescription control capabilities. Synchronisation by the
	prescription master (TC) is done by setting the prescription state of
	connected TC clients with a process data set value message with this
	DDE. It is recommended that TC clients reply their state immediately
	when such a message is received. The property flag "setable" and
	the trigger method "on change" shall be used with this DDE. The
	state "manual/off" indicates that the device is in manual state and will
	ignore all prescription commands. The "auto/on" state indicates that
	the client accepts the prescription commands as far as its overall
	process state allows.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	<u>'</u>
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Matthias Meyer
Submit Date	2008-11-07
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	
Attachment	2019-01-14: Example Prescription Control State -
	ISO11783-11-DDI-158-Prescription Control State-v2.pdf

DD Entity	159 - Number of Sub-Units per Section
Definition	Specifies the number of Units for a section (e.g. number of nozzles
	per sprayer section or number of planter seeding rows common to a
	controlled
	section).
Comment	This DDE is used in a Section Device Element to indicate the number
	of physical Units under that section. The Units are of interest to the
	operator
	but not needed for the Task Controller operation itself. With this
	information and the overall width of the section, a Task Controller with
	a user
	interface may calculate and depict for instance the row spacing
	without having individual objects for each row in the DDOP. An
	implement should
	not include Unit Device Elements under any Section where this DDI
	exists. If Unit device elements are defined under a Section element
	in the
	DDOP and this DDI value is also included in the Section element, this
	DDI value shall be ignored.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jason Walter
Submit Date	2008-12-03
Submit Company	33 - John Deere
Revision Number	1
Current Status	Published
Status Date	2024-02-14
Status Comments	Textual update on the Definition and Comments field only.

DD Entity	160 - Section Control State
Definition	Specifies the actual state of section control. The value definitions are:
	Byte 1 (bitfield)
	Bit 0-1:
	00 = manual/off,
	01 = auto/on,
	10 = error indicator,
	11 = undefined/not installed.
	Bits 2-7: reserved, set to 0.
	Bytes 2-4: reserved, set to 0.
	The DDI shall support the On Change trigger so that the TC is able to
	get informed when the value gets changed by the Working Set
	Master. The TC shall active this trigger when using the DDI.
	See attachment for more information

## Comment

In section control systems, the section control master and its clients need to be synchronized in terms of their general state or activation by the user (System activated/deactivated in individual setups). This DDE serves 2 purposes, one is to synchronize the section control state and the other is to enable a TC client to announce the support and initial state of its section control capabilities. Synchronisation by the section control master (TC) is done by setting the section control state of connected TC clients with a process data set value message with this DDE. It is recommended that TC clients reply their state immediately when such a message is received. The property flag "setable" and the trigger method "on change" should be used with this DDE. The state "manual/off" indicates that the device is in manual state and will ignore all control commands for section control. The "auto/on" state indicates that the client accepts the section control commands as far as its overall process state allows.

Listed below are 4 example Use Cases for this DDE:

Use case "Start up operation":

 During a start up the implement shall set the SCS to †manual mode'.

Use case "Auto request from TC":

- The implement receives an †auto†request from TC.
- 2. The implement shall check whether all setup conditions are fulfilled to allow section control.
- If this check is ok: The implement may respond with †auto mode†and set its internal SCS client to †auto modeâ€.
- 4. If this check not ok: The implement shall respond with †manual mode'. The internal state is still in manual mode. The TC may inform the operator accordingly.

Use case "Manual request from TC":

- 1. The implement receives a manual request from TC.
- If the implement is still in †auto mode†the implement shall set its internal SCS client to †manual modeâ€.

Use case "Loss of requirements for auto mode":

- The implement internal setup conditions don't allow for automatic section control anymore.
- The implement shall set the internal SCS client to †manual mode'.
- 3. The implement shall send the SCS to inform the TC accordingly.
  On reception of this †manual mode' the TC/Section Control Master may inform the operator accordingly.

Typically used by Device	0 - Non-specific system
Class(es)	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Matthias Meyer
Submit Date	2008-12-03
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	
Attachment	2023-03-24: - ISO11783-11-DDI-160-Section Control State-v2.pdf

DD Entity	161 - Actual Condensed Work State (1-16)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 1 to 16 into a single actual work state of their
	parent device element. The actual condensed work state contains the
	child element actual work states, in the driving direction from left to
	right, where the leftmost child element actual work state are the 2
	lowest significant bits of the Process Data Value. Each child device
	elements actual work state is represented by 2 bits and defined as:
	00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
	undefined/not installed. In total 16 child device element actual work
	states can be contained in one actual condensed work state of their
	parent device element. If less than 16 child device element actual
	work states are available, then the unused bits shall be set to value
	11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See attachment on DDI 290
	"ISO11783-11-DDI-290-SetpointCondensedWorkState" for
	implementation guideline.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
	1
CANBus Range	0 - 4294967295
CANBus Range Display Range	0 - 4294967295 0 - 4294967295

Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	162 - Actual Condensed Work State (17-32)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 17 to 32 into a single actual work state of their
	parent device element. The actual condensed work state contains the
	child element actual work states, in the driving direction from left to
	right, where the leftmost child element actual work state are the 2
	lowest significant bits of the Process Data Value. Each child device
	elements actual work state is represented by 2 bits and defined as:
	00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
	undefined/not installed. In total 16 child device element actual work
	states can be contained in one actual condensed work state of their
	parent device element. If less than 16 child device element actual
	work states are available, then the unused bits shall be set to value
	11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	163 - Actual Condensed Work State (33-48)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 33 to 48 into a single actual work state of their
	parent device element. The actual condensed work state contains the
	child element actual work states, in the driving direction from left to
	right, where the leftmost child element actual work state are the 2
	lowest significant bits of the Process Data Value. Each child device
	elements actual work state is represented by 2 bits and defined as:
	00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
	undefined/not installed. In total 16 child device element actual work
	states can be contained in one actual condensed work state of their
	parent device element. If less than 16 child device element actual
	work states are available, then the unused bits shall be set to value
	11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295

Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	164 - Actual Condensed Work State (49-64)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 49 to 64 into a single actual work state of their
	parent device element. The actual condensed work state contains the
	child element actual work states, in the driving direction from left to
	right, where the leftmost child element actual work state are the 2
	lowest significant bits of the Process Data Value. Each child device
	elements actual work state is represented by 2 bits and defined as:
	00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
	undefined/not installed. In total 16 child device element actual work
	states can be contained in one actual condensed work state of their
	parent device element. If less than 16 child device element actual
	work states are available, then the unused bits shall be set to value
	11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	165 - Actual Condensed Work State (65-80)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 65 to 80 into a single actual work state of their
	parent device element. The actual condensed work state contains the
	child element actual work states, in the driving direction from left to
	right, where the leftmost child element actual work state are the 2
	lowest significant bits of the Process Data Value. Each child device
	elements actual work state is represented by 2 bits and defined as:
	00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
	undefined/not installed. In total 16 child device element actual work
	states can be contained in one actual condensed work state of their
	parent device element. If less than 16 child device element actual
	work states are available, then the unused bits shall be set to value
	11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
	0 4004007005
Display Range	0 - 4294967295

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Status Comments	

166 - Actual Condensed Work State (81-96)
Combination of the actual work states of individual sections or units
(e.g. nozzles) number 81 to 96 into a single actual work state of their
parent device element. The actual condensed work state contains the
child element actual work states, in the driving direction from left to
right, where the leftmost child element actual work state are the 2
lowest significant bits of the Process Data Value. Each child device
elements actual work state is represented by 2 bits and defined as:
00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
undefined/not installed. In total 16 child device element actual work
states can be contained in one actual condensed work state of their
parent device element. If less than 16 child device element actual
work states are available, then the unused bits shall be set to value
11 (not installed). When the parent device element contains the
Actual Condensed Work State DDE, then the device descriptor shall
not contain the individual actual work state DDEs of the child device
elements.
See the DDI 161 attachment
"ISO11783-11-DDI-289-SetpointWorkState" for implementation
guidelines.
This DDE is used to reduce number of messages. Individual work
state messages for a many-sectioned device can potentially cause
performance issues due to overloading communication. With this
DDE, 16 work states can be sent via a single message, resulting in
less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

167 - Actual Condensed Work State (97-112)
Combination of the actual work states of individual sections or units
(e.g. nozzles) number 97 to 112 into a single actual work state of their
parent device element. The actual condensed work state contains the
child element actual work states, in the driving direction from left to
right, where the leftmost child element actual work state are the 2
lowest significant bits of the Process Data Value. Each child device
elements actual work state is represented by 2 bits and defined as:
00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 =
undefined/not installed. In total 16 child device element actual work
states can be contained in one actual condensed work state of their
parent device element. If less than 16 child device element actual
work states are available, then the unused bits shall be set to value
11 (not installed). When the parent device element contains the
Actual Condensed Work State DDE, then the device descriptor shall
not contain the individual actual work state DDEs of the child device
elements.
See the DDI 161 attachment
"ISO11783-11-DDI-289-SetpointWorkState" for implementation
guidelines.
This DDE is used to reduce number of messages. Individual work
state messages for a many-sectioned device can potentially cause
performance issues due to overloading communication. With this
DDE, 16 work states can be sent via a single message, resulting in
less traffic to convey on/off status for an entire device.
0 - Non-specific system
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
n.a
n.a 1
1

Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
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Status Comments	

DD Entity	168 - Actual Condensed Work State (113-128)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 113 to 128 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	169 - Actual Condensed Work State (129-144)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 129 to 144 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, tthen he device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
	Adam Bogenrief

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Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	170 - Actual Condensed Work State (145-160)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 145 to 160 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
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Revision Number	1
Current Status	ISO-Submitted (Pending)
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Status Comments	

DD Entity	171 - Actual Condensed Work State (161-176)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 161 to 176 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	The openial crops
	15 - Municipal Work
Unit Symbol	·
Unit Symbol Resolution	15 - Municipal Work
<u> </u>	15 - Municipal Work n.a
Resolution	15 - Municipal Work n.a
Resolution SAE SPN	15 - Municipal Work  n.a  1

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Status Comments	

DD Entity	172 - Actual Condensed Work State (177-192)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 177 to 192 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	173 - Actual Condensed Work State (193-208)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 193 to 208 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
1 7 0	

Submit Date	2008-01-14
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DD Entity	174 - Actual Condensed Work State (209-224)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 209 to 224 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
	1000 traine to convey on on states for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	175 - Actual Condensed Work State (225-240)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 225 to 240 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief

Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	176 - Actual Condensed Work State (241-256)
Definition	Combination of the actual work states of individual sections or units
	(e.g. nozzles) number 241 to 256 into a single actual work state of
	their parent device element. The actual condensed work state
	contains the child element actual work states, in the driving direction
	from left to right, where the leftmost child element actual work state
	are the 2 lowest significant bits of the Process Data Value. Each child
	device elements actual work state is represented by 2 bits and
	defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator,
	11 = undefined/not installed. In total 16 child device element actual
	work states can be contained in one actual condensed work state of
	their parent device element. If less than 16 child device element
	actual work states are available, then the unused bits shall be set to
	value 11 (not installed). When the parent device element contains the
	Actual Condensed Work State DDE, then the device descriptor shall
	not contain the individual actual work state DDEs of the child device
	elements.
Comment	See the DDI 161 attachment
	"ISO11783-11-DDI-289-SetpointWorkState" for implementation
	guidelines.
	This DDE is used to reduce number of messages. Individual work
	state messages for a many-sectioned device can potentially cause
	performance issues due to overloading communication. With this
	DDE, 16 work states can be sent via a single message, resulting in
	less traffic to convey on/off status for an entire device.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Adam Bogenrief
Submit Date	2008-01-14
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Submitted (Pending)
Status Date	2012-04-02
Status Comments	

DD Entity	177 - Actual length of cut
Definition	Actual length of cut for harvested material, e.g. Forage Harvester or
	Tree Harvester.
Comment	none.
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Hans Jürgen Nissen
Submit Date	2008-09-22
Submit Company	33 - John Deere
Revision Number	1
Current Status	Published
Status Date	2020-04-28
Status Comments	Remove of decimal point in CANBus Range

DD Entity	178 - Element Type Instance
Definition	This DDI is used to enumerate and identify multiple device elements
	(DET) of the same type within one Device Description object pool.
	The value of this DDI is independent of the DET number. The
	combination of device element type and value of Element Type
	Instance ETI represents a unique object inside the device description
	object pool and therefore shall exist only once per object pool.
	Recommendation: The definition of the device elements should be
	made from left to right direction or from front to back direction. When
	in a matrix, count left-to-right first, then front-to-back and at last
	top-to-bottom. See attachment for more information.

Comment	This DDE allows the system to communicate with a device element
	object independent of the device element number. The same tank of
	a seeder for instance could have various device element numbers
	based upon the DDD. The DDD structure may change during setup
	the implement. In this case a unique implement tank might has a
	different element number as before. Particular if the Task Controller
	(TC) use a user interface to display and change data by the operator.
	Therefore the TC needs clear or rather unique device element
	information. Assign this DDE for instance to a DET of type bin. This
	number can be displayed to the operator while it may be printed
	physically at the bin. The ETI number range from 0 to 65533 inside
	the object pool corresponds to a displayed value from 1 to 65534 on
	a user interface or physical device. Note: for a more detailed
	description please look at the attachment of DDI 179 - "Actual
	Cultural Practice"
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 65533
Display Range	0 - 65533
Submit by	Matthias Meyer
Submit Date	2010-01-15
Submit Company	33 - John Deere
Revision Number	1
Current Status	Published
Status Date	2021-08-11
Status Comments	Added latest version of attachment

DD Entity	179 - Actual Cultural Practice
Definition	This DDI is used to define the current cultural practice which is
	performed by an individual device operation. For instance a
	planter/seeder could provide a sowing and a fertilizing operation at
	the same time.
	The cultural practice value definitions are: 0=Unknown, 1=Fertilizing,
	2=Sowing and Planting, 3=Crop Protection, 4=Tillage, 5=Baling
	(Pressing), 6=Mowing, 7=Wrapping, 8=Harvesting, 9=Forage
	Harvesting, 10=Transport, 11=Swathing, 12=Slurry/Manure
	Application, 13=Self-Loading Wagon, 14=Tedding, 15=Measuring,
	16=Irrigation, 17=Feeding/Mixing, 18=Mulching, 19-255=Reserved for
	future Assignment
	See attachment for more information and DDI 471 Setpoint Cultural
	Practice
Comment	Implements as Planter or Seeder which provides more than one
	product application need an option to sign the cultural practice that is
	performed by each operation. More then ever if the applied products
	have the same unit type. As for instance a seeder provides a sowing
	and fertilizing operation which have both mass per area as unit
	defined. In this case it is not clear to the TC that the second operation
	is a fertilizing operation. Particular if the TC owns a user interface to
	display these information to the operator. Through this DDE the TC
	user interface can display the appropriate information. Adding this
	DDI to the device element of type device the main cultural practice of
	the device could be defined. For instance a baler will claim on the bus
	as forage device class and have set the actual cultural practice as
	baling.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647

Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2010-01-15
Submit Company	33 - John Deere
Revision Number	2
Current Status	Published
Status Date	2021-12-01
Status Comments	New attachment wand reference information to DDI 471 Setpoint
	Cultural Practice
Attachment	2021-12-01: - Multiple and Single Product Implement
	Description-v2.pdf

DD Entity	180 - Device Reference Point (DRP) to Ground distance
Definition	This DDI is used to specify the distance from the Device Reference
	Point (DRP) down to the ground surface. The DRP to Ground DDI
	shall be attached only to the Device Element (DET) with element
	number zero.
Comment	Depending on the application it might be required to know the
	distance of a device element down to the ground. All device element
	offsets refer to the DRP which is the centre of the device coordinate
	system and usually not at the ground surface. For instance the DRP
	of a tractor is the centre of the rear axle. In this case the distance
	from a GPS receiver (DET of type navigation reference) attached on
	the roof of the cab is calculated through sum up the Z-offset of the
	DET and the distance of the DRP to ground. The value of the DRP in
	this case is equivalent to the radius of the rolling wheel which is
	attached on the tractor rear axle.
Typically used by Device	
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2010-01-15
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	181 - Dry Mass Per Area Yield
Definition	Actual Dry Mass Per Area Yield. The definition of dry mass is the
	mass with a reference moisture specified by DDI 184.
Comment	The earlier defined DDI 84 is the mass per area that is measured on
	e.g. harvesting equipment as a mass including a possibly unknown
	moisture percentage. This DDI 181 is the mass per area yield,
	corrected to a reference moisture.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lyle Jensen
Submit Date	2010-01-29
Submit Company	102 - AGCO GmbH & Co
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	182 - Dry Mass Per Time Yield
Definition	Actual Dry Mass Per Time Yield. The definition of dry mass is the
	mass with a reference moisture specified by DDI 184.
Comment	The earlier defined DDI 87 is the mass per time that is measured on
	e.g. harvesting equipment as a mass including a possibly unknown
	moisture percentage. This DDI 182 is the mass per time yield,
	corrected to a reference moisture.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lyle Jensen
Submit Date	2010-01-29
Submit Company	102 - AGCO GmbH & Co
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

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DD Entity	183 - Yield Total Dry Mass
Definition	Accumulated Yield specified as dry mass. The definition of dry mass
	is the mass with a reference moisture specified by DDI 184.
Comment	The earlier defined DDI 90 is considered to be the total mass that is
	measured on e.g. harvesting equipment as a mass including a
	possibly unknown moisture percentage. This DDI 183 is the yield total
	mass, corrected to a reference moisture.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lyle Jensen
Submit Date	2010-01-29
Submit Company	102 - AGCO GmbH & Co
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	184 - Reference Moisture For Dry Mass
Definition	Moisture percentage used for the dry mass DDIs 181, 182 and 183.
Comment	Example: this definition is similar to the "Standard Payable Moisture"
	term used by farmers.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lyle Jensen
Submit Date	2010-01-29
Submit Company	102 - AGCO GmbH & Co
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	185 - Seed Cotton Mass Per Area Yield
Definition	Seed cotton yield as mass per area, not corrected for a possibly
	included lint percantage.
Comment	This Seed Cotton Mass Per Area Yield is the mass of the raw
	harvested cotton product as it is measured on e.g. harvesting
	equipment.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	186 - Lint Cotton Mass Per Area Yield
Definition	Lint cotton yield as mass per area.
Comment	This Lint Cotton Mass Per Area Yield is the mass of the lint after it
	has been removed from the seed cotton at a cotton gin. Calculated by
	use of the Lint Turnout Percentage.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	187 - Seed Cotton Mass Per Time Yield
Definition	Seed cotton yield as mass per time, not corrected for a possibly
	included lint percantage.
Comment	This Seed Cotton Mass Per Time Yield is the mass of the raw
	harvested cotton product as it is measured on e.g. harvesting
	equipment.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	188 - Lint Cotton Mass Per Time Yield
Definition	Lint cotton yield as mass per time.
Comment	This Lint Cotton Mass Per Time Yield is the mass of the lint after it
	has been removed from the seed cotton at a cotton gin. Calculated by
	use of the Lint Turnout Percentage.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	189 - Yield Total Seed Cotton Mass
Definition	Accumulated yield specified as seed cotton mass, not corrected for a
	possibly included lint percantage.
Comment	This Yield Total Seed Cotton Mass is the total mass of the raw
	harvested cotton product as it is measured on e.g. harvesting
	equipment.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	190 - Yield Total Lint Cotton Mass
Definition	Accumulated yield specified as lint cotton mass.
Comment	This Yield Total Lint Cotton Mass is the total lint cotton mass, after it
	has been removed from the total seed cotton at a cotton gin.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	191 - Lint Turnout Percentage
Definition	Percent of lint in the seed cotton.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Andy Beck
Submit Date	2010-02-26
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2010-03-12
Status Comments	

DD Entity	192 - Ambient temperature
Definition	Ambient temperature measured by a machine. Unit is milli-Kelvin
	(mK).
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Timo Oksanen
Submit Date	2011-01-17
Submit Company	Aalto University
Revision Number	1

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Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	193 - Setpoint Product Pressure
Definition	Setpoint Product Pressure to adjust the pressure of the product flow
	system at the point of dispensing.
Comment	On pressure-based control systems, it is important to be able to
	monitor and control the system pressure to ensure the proper flow
	rate and droplet size. Being able to display and log pressure is
	important. On sprayers, this would be the boom pressure.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-01-19
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-03-27
Status Comments	

DD Entity	194 - Actual Product Pressure
Definition	Actual Product Pressure is the measured pressure in the product flow
	system at the point of dispensing.
Comment	On pressure-based control systems, it is important to be able to
	monitor and conrol the system pressure to ensure the proper flow
	rate and droplet size. Being able to display and log pressure is
	important. On sprayers, this would be the boom pressure.

Class(es)  1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work Unit Symbol Pa - Pressure Resolution 0,1 SAE SPN CANBus Range -2147483648 - 2147483647 Display Range -214748364,8 - 214748364,7 Submit Date 2011-03-09 Submit Company Revision Number 1 Current Status ISO-Approved Status Comments	Typically used by Device	0 - Non-specific system
2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1 SAE SPN CANBus Range -2147483648 - 2147483647 Display Range -214748364,8 - 214748364,7 Submit Date 2011-03-09 Submit Company Ag Leader Technology Revision Number 1 Current Status ISO-Approved Status Date 2011-04-04		
3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work Unit Symbol Pa - Pressure  Resolution 0,1 SAE SPN CANBus Range -2147483648 - 2147483647 Display Range -214748364,8 - 214748364,7 Submit by Tony Woodcock Submit Date 2011-03-09 Submit Company Ag Leader Technology Revision Number 1 Current Status ISO-Approved Status Date 2011-04-04		1
4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		
5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364, -214748364, 7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		1
6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock Submit Date 2011-03-09  Submit Company Ag Leader Technology Revision Number 1  Current Status ISO-Approved Status Date 2011-04-04		
7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		
8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		1 1
9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		- 110011101111111111111111111111111111
11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		
12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		
13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		· ·
14 - Special Crops 15 - Municipal Work  Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		12 - Farmyard Work
Unit Symbol Pa - Pressure  Resolution 0,1  SAE SPN  CANBus Range -2147483648 - 2147483647  Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04		13 - Powered Auxilary Units
Unit Symbol         Pa - Pressure           Resolution         0,1           SAE SPN         -2147483648 - 2147483647           Display Range         -214748364,8 - 214748364,7           Submit by         Tony Woodcock           Submit Date         2011-03-09           Submit Company         Ag Leader Technology           Revision Number         1           Current Status         ISO-Approved           Status Date         2011-04-04		14 - Special Crops
Resolution         0,1           SAE SPN         CANBus Range           Display Range         -2147483648 - 214748364,7           Submit by         Tony Woodcock           Submit Date         2011-03-09           Submit Company         Ag Leader Technology           Revision Number         1           Current Status         ISO-Approved           Status Date         2011-04-04		15 - Municipal Work
SAE SPN         -2147483648 - 2147483647           Display Range         -214748364,8 - 214748364,7           Submit by         Tony Woodcock           Submit Date         2011-03-09           Submit Company         Ag Leader Technology           Revision Number         1           Current Status         ISO-Approved           Status Date         2011-04-04	Unit Symbol	Pa - Pressure
CANBus Range       -2147483648 - 2147483647         Display Range       -214748364,8 - 214748364,7         Submit by       Tony Woodcock         Submit Date       2011-03-09         Submit Company       Ag Leader Technology         Revision Number       1         Current Status       ISO-Approved         Status Date       2011-04-04	Resolution	0,1
Display Range -214748364,8 - 214748364,7  Submit by Tony Woodcock  Submit Date 2011-03-09  Submit Company Ag Leader Technology  Revision Number 1  Current Status ISO-Approved  Status Date 2011-04-04	SAE SPN	
Submit by Tony Woodcock Submit Date 2011-03-09 Submit Company Ag Leader Technology Revision Number 1 Current Status ISO-Approved Status Date 2011-04-04	CANBus Range	-2147483648 - 2147483647
Submit Date 2011-03-09 Submit Company Ag Leader Technology Revision Number 1 Current Status ISO-Approved Status Date 2011-04-04	Display Range	-214748364,8 - 214748364,7
Submit Company Ag Leader Technology Revision Number 1 Current Status ISO-Approved Status Date 2011-04-04	Submit by	Tony Woodcock
Revision Number 1 Current Status ISO-Approved Status Date 2011-04-04	Submit Date	2011-03-09
Current Status ISO-Approved Status Date 2011-04-04	Submit Company	Ag Leader Technology
Status Date 2011-04-04	Revision Number	1
	Current Status	ISO-Approved
Status Comments	Status Date	2011-04-04
	Status Comments	

Definition  Minimun Product Pressure in the product flow system at the point of dispensing.  Minimum system product pressure to ensure a consistent product flow.  See also "Setpoint Product Pressure"  Typically used by Device  O - Non-specific system  1 - Tractor  2 - Primary Soil Tillage  3 - Secondary Soil Tillage  4 - Planters /Seeders  5 - Fertilizer  6 - Sprayers  7 - Harvesters  8 - Root Harvester  9 - Forage harvester  10 - Irrigation  11 - Transport / Trailers  12 - Farmyard Work  13 - Powered Auxilary Units  14 - Special Crops  15 - Municipal Work
Minimum system product pressure to ensure a consistent product flow.  See also "Setpoint Product Pressure"  7 Typically used by Device Class(es)  0 - Non-specific system 1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
flow. See also "Setpoint Product Pressure"  7
Typically used by Device  Class(es)  1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
Typically used by Device  O - Non-specific system  1 - Tractor  2 - Primary Soil Tillage  3 - Secondary Soil Tillage  4 - Planters /Seeders  5 - Fertilizer  6 - Sprayers  7 - Harvesters  8 - Root Harvester  9 - Forage harvester  10 - Irrigation  11 - Transport / Trailers  12 - Farmyard Work  13 - Powered Auxilary Units  14 - Special Crops
Class(es)  1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
<ul> <li>10 - Irrigation</li> <li>11 - Transport / Trailers</li> <li>12 - Farmyard Work</li> <li>13 - Powered Auxilary Units</li> <li>14 - Special Crops</li> </ul>
11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops
13 - Powered Auxilary Units 14 - Special Crops
14 - Special Crops
·
15 - Municipal Work
13 - Wulliupal Work
Unit Symbol Pa - Pressure
Resolution 0,1
SAE SPN
CANBus Range -2147483648 - 2147483647
Display Range -214748364,8 - 214748364,7
Submit by Tony Woodcock
Submit Date 2011-03-09
Submit Company Ag Leader Technology
Revision Number 1
Current Status ISO-Approved
Status Date 2011-04-04
Status Comments

DD Entity	196 - Maximum Product Pressure
Definition	Maximum Product Pressure in the product flow system at the point of
	dispensing.
Comment	Maximum system product to ensure a stable and safe product flow.
	See also "Setpoint Product Pressure"

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	197 - Setpoint Pump Output Pressure
Definition	Setpoint Pump Output Pressure to adjust the pressure at the output
	of the solution pump.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-01-19
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-03-27
Status Comments	

DD Entity	198 - Actual Pump Output Pressure
Definition	Actual Pump Output Pressure measured at the output of the solution
	pump.
Comment	

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	199 - Minimum Pump Output Pressure
Definition	Minimum Pump Output Pressure for the output pressure of the
	solution pump.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	200 - Maximum Pump Output Pressure
Definition	Maximum Pump Output Pressure for the output pressure of the
	solution pump.
Comment	

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	201 - Setpoint Tank Agitation Pressure
Definition	Setpoint Tank Agitation Pressure to adjust the pressure for a stir
	system in a tank.
Comment	In a liquid application system, this is the pressure used to stir the tank
	contents to prevent products in liquid suspension from settling in the
	tank.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-01-19
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-03-27

DD Entity	202 - Actual Tank Agitation Pressure
Definition	Actual Tank Agitation Pressure measured by the tank stir system.
Comment	In a liquid application system, this is the pressure used to stir the tank
	contents to prevent products in liquid suspension from settling in the
	tank. Typically measured at the agitation manifold.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	203 - Minimum Tank Agitation Pressure
Definition	Minimun Tank Agitation Pressure for a stir system in a tank.
Comment	Minimum tank agitation pressure to prevent products in liquid
	suspension from settling in the tank.
	See also "Setpoint Tank Agitation Pressure".
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	204 - Maximum Tank Agitation Pressure
Definition	Maximun Tank Agitation Pressure for a stir system in a tank.
Comment	Maximum tank agitation pressure to prevent products in liquid
	suspension from settling in the tank.
	See also "Setpoint Tank Agitation Pressure"

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748364,8 - 214748364,7
Submit by	Tony Woodcock
Submit Date	2011-03-09
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-05
Status Comments	

DD Entity	205 - SC Setpoint Turn On Time
Definition	The Section Control Turn On Time defines the overall time lapse between the moment the TC sends a turn on section command to the working set and the moment this section is physically turned on and the product is applied.  The working set may support this DDE as an optional feature to provide the possibility to store the time settings direct on the device to make the settings available after a power cycle. Therefore this DDE needs always to be setable by the TC and shall not be used to change any working set system behavior.  The DDI shall support the On Change trigger so that the TC is able to
	get informed when the value gets changed by the Working Set Master. The TC shall active this trigger when using the DDI.
Comment	The SC Turn On Time setting is used to compensate the average physical machine reaction time (Electrical & Mechanical) from the moment the Task Controller send the command and the Working Set applies the product.
	To find the right time setting for the used system combination of Task Controller and Working Set it could take awhile and therefore it is a big benefit to store the setting on the working set to make them again available after a power cycle. For working sets supporting Section Control it is recommended to add SC Turn On Time to its device description and make it setable.
	In case where the device description contains also Physical Setpoint Time Latency or Physical Actual Time Latency the TC Turn On Time will always supercede it. See also attachment and DDI 206, 656 and 657.
Typically used by Device	0 - Non-specific system
Class(es)	4 - Planters /Seeders
,	5 - Fertilizer
	6 - Sprayers
Unit Symbol	ms - Time
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-03-09
Submit Company	John Deere
Revision Number	2
Current Status	Published
Status Date	2022-01-10
Status Comments	Renamed from SC Tirn On Time to SC Setpoint Turn On Tim and added attachment
Attachment	<u>2022-01-10: - ISO11783-11-DDI-205-SC Actual Turn On-Off</u> <u>Time-v1.pdf</u>

DD Entity	206 - SC Setpoint Turn Off Time
Definition	The Section Control Turn Off Time defines the overall time lapse
	between the moment the TC sends a turn off section command to the
	working set and the moment this section is physically turned off.
	The working set may support this DDE as an optional feature to
	provide the possibility to store the time settings direct on the device to
	make the settings available after a power cycle. Therefore this DDE
	needs always to be setable by the TC and shall not be used to
	change any working set system behavior.
	The DDI shall support the On Change trigger so that the TC is able to
	get informed when the value gets changed by the Working Set
	Master. The TC shall active this trigger when using the DDI.
Comment	The SC Turn Off Time setting is used to compensate the average
	physical machine reaction time (Electrical & Mechanical) from the
	moment the Task Controller send the command and the Working Set
	turns off the sections.
	To find the right time setting for the used system combination of Task
	Controller and Working Set it could take awhile and therefore it is a
	big benefit to store the setting on the Working Set to make them
	again available after a power cycle. For Working Sets supporting
	Section Control it is recommended to add SC Turn Off Time to its
	device description and make it setable. See also DDI 205 including
	attachment and DDI 656 and 657
Typically used by Device	0 - Non-specific system
Class(es)	4 - Planters /Seeders
. ,	5 - Fertilizer
	6 - Sprayers
Unit Symbol	ms - Time
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-03-09
Submit Company	John Deere
Revision Number	2
Current Status	Published
Status Date	2022-01-10
Status Comments	Renamed to SC Setpoint Turn Off Time; Comment Update

DD Entity	207 - Wind speed
Definition	Wind speed measured in the treated field at the beginning of
	operations or on the application implement during operations.
	Measurements at to be made at 2m height or 1 m over the canopy in
	tree and bush crops.
	On implements the wind speed needs to be compansated by
	implement true ground speed and heading.
Comment	Requested by TC23 SC6 WG15
Typically used by Device	1 - Tractor
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm/s - Speed
Resolution	1
SAE SPN	
CANBus Range	0 - 100000000
Display Range	0 - 100000000
Submit by	Bob Benneweis
Submit Date	2011-03-16
Submit Company	Benneweis Consulting Ltd
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	208 - Wind direction
Definition	Wind direction measured in the treated field at the beginning of
	operations or on the application implement during operations.
	Measurements at to be made at 2m height or 1 m over the canopy in
	tree and bush crops.
	On implements the wind direction needs to be compansated by
	implement true ground speed and heading.
Comment	
Typically used by Device	1 - Tractor
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	14 - Special Crops
	17 - Sensor System
Unit Symbol	° - Angle
Resolution	1
SAE SPN	
CANBus Range	0 - 359
Display Range	0 - 359
Submit by	Bob Benneweis

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Submit Date	2011-03-16
Submit Company	Benneweis Consulting Ltd
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	209 - Relative Humidity
Definition	Ambient humidty measured by a weather station in a treated field or
	on the application implement.
Comment	
Typically used by Device	1 - Tractor
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
	17 - Sensor System
Unit Symbol	% - Percent
Resolution	1
SAE SPN	
CANBus Range	0 - 100
Display Range	0 - 100
Submit by	Bob Benneweis
Submit Date	2011-03-16
Submit Company	Benneweis Consulting Ltd
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-04
Status Comments	

DD Entity	210 - Sky conditions
Definition	This DDE is used to define the current sky conditions during
	operation. The METAR format and its abbrivations is used as follows
	to define the sky conditions:
	CLR=Clear, NSC=Mostly Sunny, FEW=Partly Sunny, SCT=Partly
	cloud, BKN=Mostly cloudy, OVC=overcast/cloudy
	1. Byte = first character
	2. Byte = second character
	3. Byte = third character
	4. Byte = fourt character
	Unused bytes shall be set to 0x20
	Byte 1 to 4 set to 0x00 = error
	Byte 1 to 4 set to 0xFF = not available

Comment	To setup the METAR abbrivations the ISO 8859-1 standard is used.
	From the Latin-1 printable characters set the capitals from "A" (0x41)
	to "Z" (0x5A) shall be used. The space "SP" (0x20) is used for
	unused bytes.
	Example for Clear (CLR):
	1. Byte = 0x43(C)
	2. Byte = 0x4C(L)
	3. Byte = 0x52 (R)
	4. Byte = 0x20 (unused)
Typically used by Device	1 - Tractor
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Bob Benneweis
Submit Date	2011-03-16
Submit Company	Benneweis Consulting Ltd
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-29
Status Comments	
	<del></del>

DD Entity	211 - Last Bale Flakes per Bale
Definition	The number of flakes in the most recently produced bale.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler can add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 1000
Display Range	0 - 1000
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	212 - Last Bale Average Moisture
Definition	The average moisture in the most recently produced bale.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 100000000
Display Range	0 - 100000000
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

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DD Entity	213 - Last Bale Average Strokes per Flake
Definition	The number of baler plunger compression strokes per flake that has
	entered the bale compression chamber. This value is the average
	valid for the most recently produced bale.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 1000
Display Range	0 - 1000
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	214 - Lifetime Bale Count
Definition	The number of bales produced by a machine over its entire lifetime.
	This DDE value can not be set through the process data interface but
	can be requested and added to a datalog. This DDE value is not
	affected by a task based total bales but will increment at the same
	rate as the task based total.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1

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Current Status	Published
Status Date	2024-02-05
Status Comments	Add attachment
Attachment	2024-02-05: - ISO11783-11-DD-214-Bale Documentation-v1.pdf

DD Entity	215 - Lifetime Working Hours
Definition	The number of working hours of a device element over its entire
	lifetime. This DDE value can not be set through the process data
	interface but can be requested and added to a datalog.
Comment	The recommended use of this DDE is to be transmitted on a request
	basis only.
	The Lifetime Working Hours is the overall time when the device was turned on.
	This total does not refer to an application controlled by a Task
	Controller. Therefore this DDE shall not be setable within the device
	description and neither shall the device reset the value when the task
	status changed. It is up to the device control system when to reset
	this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
	Note: unit is h and the bit resolution is 0.05 h/bit, this aligns the
	resolution and range with similar SPNs as defined in SAE J1939-71.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	h - Hour
Resolution	0,05
SAE SPN	
CANBus Range	0 - 4211081215
Display Range	0,00 - 210554060,75
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30

Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2020-05-04
Status Comments	CANBus Range and Display Range correction

DD Entity	216 - Actual Bale Hydraulic Pressure
Definition	The actual value of the hydraulic pressure applied to the sides of the
	bale in the bale compression chamber.
Comment	The actual pressure is the resultant of the baler controller targeting a
	certain setpoint plunger load.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	217 - Last Bale Average Hydraulic Pressure
Definition	The average actual value of the hydraulic pressure applied to the
	sides of the bale in the bale compression chamber. This average is
	calculated over the most recently produced bale.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	218 - Setpoint Bale Compression Plunger Load
Definition	The setpoint bale compression plunger load expressed as
	percentage
Comment	This value is measured / controlled for each new flake that entered
	the baler chamber and obtained at the rear dead end of the plunger.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	219 - Actual Bale Compression Plunger Load
Definition	The actual bale compression plunger load expressed as percentage.
Comment	This is the plunger load measured at the rear dead end of the plunger
	cycle and only updated for each new flake that has entered the baler
	chamber.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	2
Current Status	Published
Status Date	2018-02-26
Status Comments	There was an industry request to change the unit to ppm.

DD Entity	220 - Last Bale Average Bale Compression Plunger Load
Definition	The average bale compression plunger load for the most recently
	produced bale expressed as percentage.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	221 - Last Bale Applied Preservative
Definition	The total preservative applied to the most recently produced bale.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	222 - Last Bale Tag Number
Definition	The Last Bale Tag Number as a decimal number in the range of 0 to
	2147483647. Note that the value of this DDI has the limitation of
	being an signed 32 bit number.
Comment	For balers: the recommended use of this DDE is for a baler to report
	this once for every bale that is produced. A baler may add this to its
	default set of data, based on an internal on-change data trigger that
	causes the baler to report the value of this DDE after the bale is
	produced. The recommendation for data logging is that all "Last Bale"
	DDEs that are supported by a device are reported together at the
	moment that the bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	Published

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Status Date	2024-03-05
Status Comments	Change of value range to signed integer format

DD Entity	223 - Last Bale Mass
Definition	The mass of the bale that has most recently been produced.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-04-30
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-04-30
Status Comments	

DD Entity	224 - Delta T
Definition	The difference between dry bulb temperature and wet bulb
	temperature measured by a weather station in a treated field or on
	the application equipment.
Comment	This parameter is used to determine spray effectiveness in hot and
	dry environments. If the Delta T value is too high the effectiveness of
	the overall spray application does not match the requirement for this
	operation. This value can be used by the application to notify the
	operator about the effectiveness and whether he should continue with
	the application or not. It can also be used to document the application
	environment within the log files for the task.
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	7 - Harvesters
	9 - Forage harvester
	17 - Sensor System
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Meyer
Submit Date	2011-05-25

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Submit Company	John Deere
Revision Number	1
Current Status	ISO-Approved
Status Date	2011-06-20
Status Comments	

DD Entity	225 - Setpoint Working Length
Definition	Setpoint Working Length of Device Element.
Comment	This is the desired working length of the device element during
	operation. For the geometry definition and example use, see the
	attachment of the Actual Working Length, DDI 226.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Moritz Roeingh
Submit Date	2011-07-12
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2011-08-31
Status Comments	

DD Entity	226 - Actual Working Length
Definition	Actual Working Length of a Device Element.
Comment	Used for Section Control. By using the Actual Working Length of a
	device element a rectangular area is defined. This area represents
	the current working area and defines offsets for turning sections on
	and off by Section Control. The Actual Working Length parameter is
	useful for fertilizer spreaders and similar implements.

Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Moritz Roeingh
Submit Date	2011-07-07
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2011-08-31
Status Comments	
Attachment	2012-07-03: - ISO11783-11-DDI-226-ActualWorkingLength-v1.pdf

DD Entity	227 - Minimum Working Length
Definition	Minimum Working Length of Device Element.
Comment	This is the minimum working length of the device element during
	operation. For the geometry definition and example use, see the
	attachment of the Actual Working Length, DDI 226.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Moritz Roeingh
Submit Date	2011-07-12
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2011-08-31
Status Comments	

DD Entity	228 - Maximum Working Length
Definition	Maximum Working Length of Device Element.
Comment	This is the maximum working length of the device element during
	operation. For the geometry definition and example use, see the
	attachment of the Actual Working Length, DDI 226.

Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Moritz Roeingh
Submit Date	2011-07-12
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2011-08-31
Status Comments	

DD Entity	229 - Actual Net Weight
Definition	Actual Net Weight value specified as mass
Comment	The Actual Net Weight is the current measured mass by a weighing
	system.
	For more information see attachment located at Actual Net Weight
	DDE
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	
Attachment	2024-05-21: - ISO11783-11-DDI-229-Weighing System
	Implementation-v2.pdf

DD Entity	230 - Net Weight State
Definition	Net Weight State, 2 bits defined as:
	00 = unstable measurement
	01 = stable measurement
	10 = error (measuring error)
Comment	The Net Weight State indicates whether the current Actual Net
	Weight value is a reliable value or not.
	Example: After a mass of grain is filled into a grain cart it takes a
	while until the weighing system is able to provide the valid value of
	the load.
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	

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DD Entity	231 - Setpoint Net Weight
Definition	Setpoint Net Weight value.
Comment	The Setpoint Net Weight value is used to prompt the weighing system
	to perform a tare procedure. For more information see attachment
	located at Actual Net Weight DDE.
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	

DD Entity	232 - Actual Gross Weight
Definition	Actual Gross Weight value specified as mass
Comment	The Actual Gross Weight is the overall measured mass by a weighing
	system. For more information see attachment located at Actual Net
	Weight DDE.
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	

DD Entity	233 - Gross Weight State
Definition	Gross Weight State, 2 bits defined as:
	00 = unstable measurement
	01 = stable measurement
	10 = error (measuring error)
Comment	The Gross Weight State indicates whether the current Actual Gross
	Weight value is a reliable value or not. For more information see
	attachment located at Actual Net Weight DDE.
	Example: After a mass of grain is filled into a grain cart it takes a
	while until the weighing system is able to provide the valid value of
	the load.
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	

DD Entity	234 - Minimum Gross Weight
Definition	Minimum Gross Weight specified as mass.
Comment	The Minimum Gross Weight may represent the minimum value of the
	effective range of the weighing system. For more information see
	attachment located at Actual Net Weight DDE.
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	

DD Entity	235 - Maximum Gross Weight
Definition	Maximum Gross Weight specified as mass.
Comment	Maximum Gross Weight may represent the maximum value of the
	effective range of the weighing system. For more information see
	attachment located at Actual Net Weight DDE.
Typically used by Device	11 - Transport / Trailers
Class(es)	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2011-09-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2011-09-28
Status Comments	

DD Entity	236 - Thresher Engagement Total Time
Definition	Accumulated time while the threshing mechanism is engaged
Comment	This DDE represents the total engagement time of the threshing
	mechanism of the machine and is recommended to be used at
	maximum once within the device description in the device element
	that represents the machine.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	237 - Actual Header Working Height Status
Definition	Actual status of the header being above or below the threshold height
	for the in-work state.
	2 bit status indicator:
	00=disabled/off/above threshold height
	01=enabled/on/below threshold height
	10=error
	11=undefined/not installed
Comment	The DDE has been defined to be able to communicate a more
	detailed work state of a machine.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-11-17

DD Entity	238 - Actual Header Rotational Speed Status
Definition	Actual status of the header rotational speed being above or below the
	threshold for in-work state.
	2 bit status indicator:
	00=disabled/off/below threshold speed
	01=enabled/on/above threshold speed
	10=error
	11=undefined/not installed
Comment	The DDE has been defined to be able to communicate a more
	detailed work state of a machine.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Robert Waggoner

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Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	239 - Yield Hold Status
Definition	Status indicator for the yield measurement system. When enabled/on,
	the measurements from the yield measurement system are ignored
	and the yield is held constant.
	2 bit status indicator:
	00=disabled/off
	01=enabled/on
	10=error
	11=undefined/not installed
Comment	This status indicator can e.g. be set by the operator when entering an
	area of the field where the yield measurement system yield
	measurements should not be used.
	This DDE shall not be setable by the TC.
	The values of the following list of DDE's is are held constant when
	this DDE is enabled/on: DDI's 83 to 91, 181 to 183 and 185 to 190.
Typically used by Device	6 - Sprayers
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

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DD E VII	
DD Entity	240 - Actual (Un)Loading System Status
	= 10 / totaal (011/=0aainig 0) otoin otatao

Definition	Actual status of the Unloading and/or Loading system. This DDE
	covers both Unloading and Loading of the device element wherein it
	is listed. Bits that are not mentioned are reserved and shall be set to
	1.
	Byte 1:
	2 bit unloading status indicator, bit 1 and 2:
	00=disabled/off
	01=enabled/on/unloading
	10=error
	11=undefined/not installed
	Byte 2:
	2 bit loading status indicator, bit 1 and 2:
	00=disabled/off
	01=enabled/on/loading
	10=error
	11=undefined/not installed
	Byte 3: set to FF
	Byte 4: set to FF
Comment	Note: The bits of a byte are defined from 1 to 8 (87654321)
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	2
Current Status	New Request Submitted
Status Date	2020-04-23
Status Comments	added that byte 3 and 4 shall be set to FF; The value that is
	transferred over the canbus can be negative

DD Entity	241 - Crop Temperature
Definition	Temperature of harvested crop
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	242 - Setpoint Sieve Clearance
Definition	Setpoint separation distance between Sieve elements
Comment	
Typically used by Device	6 - Sprayers
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	243 - Actual Sieve Clearance
Definition	Actual separation distance between Sieve elements
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	244 - Minimum Sieve Clearance
Definition	Minimal separation distance between Sieve elements
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	245 - Maximum Sieve Clearance
Definition	Maximum separation distance between Sieve elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	246 - Setpoint Chaffer Clearance
Definition	Setpoint separation distance between Chaffer elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	247 - Actual Chaffer Clearance
Definition	Actual separation distance between Chaffer elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	3
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	248 - Minimum Chaffer Clearance
Definition	Minimum separation distance between Chaffer elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	249 - Maximum Chaffer Clearance
Definition	Maximum separation distance between Chaffer elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	250 - Setpoint Concave Clearance
Definition	Setpoint separation distance between Concave elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	251 - Actual Concave Clearance
Definition	Actual separation distance between Concave elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	3
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	252 - Minimum Concave Clearance
Definition	Minimum separation distance between Concave elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	253 - Maximum Concave Clearance
Definition	Maximum separation distance between Concave elements.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	254 - Setpoint Separation Fan Rotational Speed
Definition	Setpoint rotational speed of the fan used for separating product
	material from non product material.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	255 - Actual Separation Fan Rotational Speed
Definition	Actual rotational speed of the fan used for separating product
	material from non product material.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	3
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	256 - Minimum Separation Fan Rotational Speed
Definition	Minimum rotational speed of the fan used for separating product
	material from non product material.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	257 - Maximum Separation Fan Rotational Speed
Definition	Maximum rotational speed of the fan used for separating product
	material from non product material.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Jaap van Bergeijk
Submit Date	2011-10-17
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	258 - Hydraulic Oil Temperature
Definition	Temperature of fluid in the hydraulic system.
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 2000000
Display Range	0 - 2000000
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO

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Revision Number	3
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	259 - Yield Lag Ignore Time
Definition	Amount of time to ignore yield data, starting at the transition from the
	in-work to the out-of-work state. During this time, the yield sensor
	provides inconsistent or unreliable crop flow data.
Comment	This DDE can be used to filter the yield data when creating yield
	maps. The values of the following list of DDE's may be inconsistent or
	unreliable during this yield lag ignore time: DDI's 83 to 91, 181 to 183
	and 185 to 190.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ms - Time
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	3
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	260 - Yield Lead Ignore Time
Definition	Amount of time to ignore yield data, starting at the transition from the
	out-of-work to the in-work state. During this time, the yield sensor
	provides inconsistent or unreliable crop flow data.
Comment	This DDE can be used to filter the yield data when creating yield
	maps. The values of the following list of DDE's may be inconsistent or
	unreliable during this yield lead ignore time: DDI's 83 to 91, 181 to
	183 and 185 to 190.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ms - Time
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	3
Current Status	ISO-Published

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Status Date	2011-10-17
Status Comments	

DD Entity	261 - Average Yield Mass Per Time
Definition	Average Yield expressed as mass per unit time, not corrected for the
	reference moisture percentage DDI 184. This value is the average for
	a Task and may be reported as a total.
Comment	This Average Yield Mass Per Time is the mass that includes the
	average crop moisture (DDI 262) if this is measured on e.g.
	harvesting equipment. This average yield mass per time is calculated
	as the yield total mass (DDI 90) divided by the effective total time
	(DDI 119) of the active task.
	When a task is resumed and its previously recorded totals are sent by
	the task controller to the connected working set, a situation can occur
	where there is a discrepancy between the yield total mass, the
	effective total time and the average yield mass per time values. In
	case all three of these DDI's are present in the device description and
	all three values are set by the task controller upon resuming a task,
	the working set shall compute its average yield mass per time from
	the yield total mass divided by the effective total time and shall
	discard the average yield mass per time value that it received from
	the task controller.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	2
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	262 - Average Crop Moisture
Definition	Average Moisture of the harvested crop. This value is the average for
	a Task and may be reported as a total.
Comment	This is the average of the actual crop moisture (DDI 99) for the active
	task and is calculated as an average based upon the yield total mass
	(DDI 90). In order to correctly calculate this value when a task is
	resumed, the yield total mass shall also be reported by the device as
	a total. When a task is resumed, the task controller sets both the yield
	total mass and the average crop moisture values. The device uses
	these values to derive the total moisture and calculate and report the
	new average crop moisture values for the resumed task.

Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	3
Current Status	ISO-Published
Status Date	2011-10-17
Status Comments	

DD Entity	263 - Average Yield Mass Per Area
Definition	Average Yield expressed as mass per unit area, not corrected for the
	reference moisture percentage DDI 184. This value is the average for
	a Task and may be reported as a total.
Comment	This Average Yield Mass Per Area is the mass that includes the
	average crop moisture (DDI 262) if this is measured on e.g.
	harvesting equipment. This average yield mass per area is
	calculated as the yield total mass (DDI 90) divided by the total area
	(DDI 116) of the active task.
	When a task is resumed and its previously recorded totals are sent by
	the task controller to the connected working set, a situation can occur
	where there is a discrepancy between the yield total mass, the total
	area and the average yield mass per area values. In case all three of
	these DDI's are present in the device description and all three values
	are set by the task controller upon resuming a task, the working set
	shall compute its average yield mass per area from the yield total
	mass divided by the total area and shall discard the average yield
	mass per area value that it received from the task controller.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Robert Waggoner
Submit Date	2011-07-08
Submit Company	AGCO
Revision Number	2
Revision Number Current Status	ISO-Submitted (Pending)

DD Entity	264 - Connector Pivot X-Offset
Definition	X direction offset of a connector pivot point relative to DRP.
	This DDE shall be only attached to a DET element of type connector.
Comment	Some connector types are equipped with a pivot point which will
	influence the accuracy of applications as section control, prescription
	or sequence control. The Pivot X-Offset is used to define the distance
	from the device DRP to the connector pivot point in X direction.

Class(es)  1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work
2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers
10 - Irrigation 11 - Transport / Trailers
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
Unit Symbol mm - Length
Resolution 1
SAE SPN
CANBus Range -2147483648 - 2147483647
Display Range -2147483648 - 2147483647
Submit by Matthias Meyer
Submit Date 2012-03-07
Submit Company John Deere
Revision Number 1
Current Status ISO-Published
Status Date 2012-04-02
Status Comments
Attachment <u>2012-03-07: - ISO11783-11-DDI-264-Connector Pivot</u>
X-Offset-v1.pdf

DD Entity	265 - Remaining Area
Definition	Remaining Area of a field, which is calculated from the total area and
	the processed area.
Comment	See DDI attachment for further details.
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
	17 - Sensor System
Unit Symbol	m² - Area
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Markus Eikler
Submit Date	2011-12-15
Submit Company	Mueller Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	
Attachment	2012-04-02: - ISO11783-11-DDI-265-Remaining Area-v1.pdf
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DD Entity	266 - Lifetime Application Total Mass
Definition	Entire Application Total Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
	task. But it shall not set this DDE when the task is resumed.

Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	267 - Lifetime Application Total Count
Definition	Entire Application Total Count of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	268 - Lifetime Yield Total Volume
Definition	Entire Yield Total Volume of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	L - Quantity per volume

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Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	269 - Lifetime Yield Total Mass
Definition	Entire Yield Total Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	270 - Lifetime Yield Total Count
Definition	Entire Yield Total Count of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops

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Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	271 - Lifetime Total Area
Definition	Entire Total Area of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mÂ <sup>2</sup> - Area
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	272 - Lifetime Effective Total Distance
Definition	Entire Total Distance of the device lifetime in working position.

Comment	This is the overall total of the device. This total does not refer to an
Commont	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers 7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	m - Distance
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-03-09
Status Comments	

DD Entity	273 - Lifetime Ineffective Total Distance
Definition	Entire Ineffective Total Distance of the device lifetime out of working
	position.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	m - Distance
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-03-09
Status Comments	
	<del></del>

DD Entity	274 - Lifetime Effective Total Time
Definition	Entire Effective Total Time of the device lifetime.

Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	, i
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
, ,	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	275 - Lifetime Ineffective Total Time
Definition	Entire Ineffective Total Time of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	276 - Lifetime Fuel Consumption
Definition	Entire Fuel Consumption of the device lifetime.

This is the everall total of the device. This total does not refer to an
This is the overall total of the device. This total does not refer to an
application controlled by a Task Controller. Therefore this DDE shall
not be setable within the device description and neither shall the
device reset the value when the task status changed. It is up to the
device control system when to reset this value.
The Westing Cot Mester shall some set the testal triangular as the disasthin
The Working Set Master shall support the total trigger method for this
DDE but shall not support the setable property.
The Teels Controlled and required and stone this DDF at the and of a
The Task Controller can request and store this DDE at the end of a
task. But it shall not set this DDE when the task is resumed.
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
L - Capacity count
L - Capacity count 0,5
0,5
0,5 0 - 2147483647 0 - 1073741823,5 Matthias Meyer
0,5  0 - 2147483647  0 - 1073741823,5  Matthias Meyer  2012-01-09
0,5 0 - 2147483647 0 - 1073741823,5 Matthias Meyer
0,5  0 - 2147483647  0 - 1073741823,5  Matthias Meyer  2012-01-09
0,5  0 - 2147483647  0 - 1073741823,5  Matthias Meyer  2012-01-09  John Deere
0,5  0 - 2147483647  0 - 1073741823,5  Matthias Meyer  2012-01-09  John Deere  1

DD Entity	277 - Lifetime Average Fuel Consumption per Time
Definition	Entire Average Fuel Consumption per Time of the device lifetime.
Comment	This is the overall average of the device. This average does not refer
	to an application controlled by a Task Controller. Therefore this DDE
	shall not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	
Submit Date	2012-01-09
Submit Company	
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	278 - Lifetime Average Fuel Consumption per Area
Definition	Entire Average Fuel Consumption per Area of the device lifetime.

This is the overall everage of the device. This everage does not refer
This is the overall average of the device. This average does not refer
to an application controlled by a Task Controller. Therefore this DDE
shall not be setable within the device description and neither shall the
device reset the value when the task status changed. It is up to the
device control system when to reset this value.
The Working Set Master shall support the total trigger method for this
DDE but shall not support the setable property.
The Task Controller can request and store this DDE at the end of a
task. But it shall not set this DDE when the task is resumed.
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
mm³/m² - Capacity per area unit
1
0 - 2147483647
0 - 2147483647
Matthias Meyer
Matthias Meyer 2012-01-09
-
2012-01-09
2012-01-09 John Deere
2012-01-09  John Deere  1

DD Entity	279 - Lifetime Yield Total Dry Mass
Definition	Entire Yield Total Dry Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	
	<del></del>

DD Entity	280 - Lifetime Yield Total Seed Cotton Mass
Definition	Entire Yield Total Seed Cotton Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1

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SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	281 - Lifetime Yield Total Lint Cotton Mass
Definition	Entire Yield Total Lint Cotton Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	14 - Special Crops
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	282 - Lifetime Threshing Engagement Total Time
Definition	Entire Threshing Engagement Total Time of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	s - Time count
Resolution	1

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SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-09
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	283 - Precut Total Count
Definition	The total number of pre-cutted product units produced by a device
	during an operation.
Comment	Precut Total Count is a total of a device element. It is intended to be
	used as a task based total value and therefore it is recommended to
	support the on-time and on-change trigger methods. The total trigger
	method and the setable property are required for this DDE.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-12
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	284 - Uncut Total Count
Definition	The total number of un-cutted product units produced by a device
	during an operation.
Comment	Uncut Total Count is a total of a device element. It is intended to be
	used as a task based total value and therefore it is recommended to
	support the on-time and on-change trigger methods. The total trigger
	method and the setable property are required for this DDE.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-12
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	285 - Lifetime Precut Total Count
Definition	Entire Precut Total Count of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-12
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	286 - Lifetime Uncut Total Count
Definition	Entire Uncut Total Count of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647

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Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-01-12
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-02-15
Status Comments	

DD Entity	287 - Setpoint Prescription Mode
Definition	This DDE defines the source of the Task Controller set point value
	sent to the Control Function. This DDI shall be defined as DPD in the
	DDOP and needs to be setable. The TC shall then set this DDI before
	starting a prescription operation. The WS (Working Set) shall set this
	value to zero (0) after system start.
Comment	The Task Controller Prescription Mode shall have the following
	values:
	0 = Unknown / not defined
	1 = Prescription Rate
	2 = Prescription Default
	3 = Prescription GPS loss
	4 = Prescription Out Of Field
	5 = Manual Entry
	6 = Peer Control
	7 and higher are reserved for future assignments
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 6
Display Range	0 - 6
Submit by	Joe Tevis
Submit Date	2013-09-23
Submit Company	Topcon
Revision Number	2
Current Status	Published
Status Date	2022-10-28
Status Comments	Change status to published
	2013-09-23: Prescription Mode and Control Function Mode Use
Attachment	2013-03-23. I rescription wode and Control i direction wode ose

DD Entity	288 - Actual Prescription Mode
Definition	This DDE defines the actual source of the set point value used by the
	Control Function. This DDI shall be defined as DPD in the DDOP and
	shall not be setable and need to support the on change trigger. The
	TC should request this DDI in case of an active prescription operation
	for documentation purpose.

Comment	The Control Function Prescription Mode sahll have one of the
	following values:
	0 = Unknown / not defined
	1 = TC rate
	2 = Manual Entry
	3 = Peer Control
	4 = Max override
	5 = Min override
	6 and higher are reserved for future assignments
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 5
Display Range	0 - 5
Submit by	Joe Tevis
Submit Date	2013-09-23
Submit Company	Topcon
Revision Number	2
Current Status	Published
Status Date	2022-10-28
Status Comments	Change status to published

DD Entity	289 - Setpoint Work State
Definition	The Setpoint Work State DDI is the control command counterparts to
	the Work State DDI (141). The separation of the control commands
	through one DDI from the actual state communicated through another
	DDI enables verification of the transmission of the control commands
	independent from the effectuation of the requested control action.
Comment	See DDI 290 attachment for implementation guideline.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	Status was published

250 - Selpoint Condensed Work State (1-10)		DD Entity	290 - Setpoint Condensed Work State (1-16)
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Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 â€" 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 1 to 16 into a single setpoint
	work state of their parent device element. The setpoint condensed
	work state contains the child element setpoint work states, in the
	driving direction from left to right, where the leftmost child element
	setpoint work state are the 2 lowest significant bits of the Process
	Data Value. Each child device elements setpoint work state is
	represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
Class(Cs)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	
Attachment	2016-04-05: - ISO11783-11-DDI-290-SetpointWorkState-v1.pdf
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DD Entity	291 - Setpoint Condensed Work State (17-32)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 17 to 32 into a single setpoint
	work state of their parent device element. The setpoint condensed
	work state contains the child element setpoint work states, in the
	driving direction from left to right, where the leftmost child element
	setpoint work state are the 2 lowest significant bits of the Process
	Data Value. Each child device elements setpoint work state is
	represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02

DD Entity	v .	292 - Setpoint Condensed Work State (33-48)
	<i>y</i>	232 Octpoint Condensed Work Otale (55 46)

Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 33 to 48 into a single setpoint
	work state of their parent device element. The setpoint condensed
	work state contains the child element setpoint work states, in the
	driving direction from left to right, where the leftmost child element
	setpoint work state are the 2 lowest significant bits of the Process
	Data Value. Each child device elements setpoint work state is
	represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	

DD Entity	293 - Setpoint Condensed Work State (49-64)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 49 to 64 into a single setpoint
	work state of their parent device element. The setpoint condensed
	work state contains the child element setpoint work states, in the
	driving direction from left to right, where the leftmost child element
	setpoint work state are the 2 lowest significant bits of the Process
	Data Value. Each child device elements setpoint work state is
	represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	

Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 65 to 80 into a single setpoint
	work state of their parent device element. The setpoint condensed
	work state contains the child element setpoint work states, in the
	driving direction from left to right, where the leftmost child element
	setpoint work state are the 2 lowest significant bits of the Process
	Data Value. Each child device elements setpoint work state is
	represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	

DD Entity	295 - Setpoint Condensed Work State (81-96)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 81 to 96 into a single setpoint
	work state of their parent device element. The setpoint condensed
	work state contains the child element setpoint work states, in the
	driving direction from left to right, where the leftmost child element
	setpoint work state are the 2 lowest significant bits of the Process
	Data Value. Each child device elements setpoint work state is
	represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation 14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	

DD Entity	296 - Setpoint Condensed Work State (97-112)

Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 â€" 176).
	counterparts to the condensed work states BBIs (101 de 170).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 97 to 112 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
Comment	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
01003(03)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	

DD Entity	297 - Setpoint Condensed Work State (113-128)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 113 to 128 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	2
Current Status	ISO-Published
Status Date	2016-06-27
Status Comments	

DD Entity	298 - Setpoint Condensed Work State (129-144)	ı
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The Setpoint Condensed Work State DDIs are the control command
counterparts to the Condensed Work States DDIs (161 – 176).
The value is a combination of the setpoint work states of individual
sections or units (e.g. nozzles) number 129 to 144 into a single
setpoint work state of their parent device element. The setpoint
condensed work state contains the child element setpoint work
states, in the driving direction from left to right, where the leftmost
child element setpoint work state are the 2 lowest significant bits of
the Process Data Value. Each child device elements setpoint work
state is represented by 2 bits and defined as: 00 = disable/off, 01 =
enable/on, 10 = error indicator, 11 = no change. In total 16 child
device element setpoint work states can be contained in one setpoint
condensed work state of their parent device element. If less than 16
child device element setpoint work states are available, then the
unused bits shall be set to value 11 (no change). When the parent
device element contains the Setpoint Condensed Work State DDE,
then the device descriptor shall not contain the individual setpoint
work state DDEs in the child device elements.
See the Setpoint Work State DDI (289) attachment for backwards
compatibility and implementation guidelines.
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
14 - Special Crops n.a
1
0 - 4294967295
0 - 4294967295
Jaap van Bergeijk
2012-01-19
2012-01-19
AGCO corporation
AGCO corporation
AGCO corporation

DD Entity	299 - Setpoint Condensed Work State (145-160)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 145 to 160 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	
	1

DD Entity	300 - Setpoint Condensed Work State (161-176)	
DD Linkity	1000 Octpoint Condensed Work Clate (101 170)	

Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	counterparts to the condensed work diales bbis (101 de 170).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 161 to 176 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
Comment	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
01003(03)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	1
Submit by	0 - 4294967295
Submit by	0 - 4294967295 Jaap van Bergeijk
Submit by Submit Date	
•	Jaap van Bergeijk
Submit Date	Jaap van Bergeijk 2012-01-19
Submit Date Submit Company	Jaap van Bergeijk 2012-01-19 AGCO corporation
Submit Date Submit Company Revision Number	Jaap van Bergeijk 2012-01-19 AGCO corporation

DD Entity	301 - Setpoint Condensed Work State (177-192)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 177 to 192 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	

DD Entity	302 - Setpoint Condensed Work State (193-208)
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Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 193 to 208 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	5 - Fertilizer 6 - Sprayers 7 - Harvesters
	6 - Sprayers
	6 - Sprayers 7 - Harvesters
	6 - Sprayers 7 - Harvesters 8 - Root Harvester
	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester
Unit Symbol	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation
Unit Symbol Resolution	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops
•	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a
Resolution	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a
Resolution SAE SPN	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a
Resolution SAE SPN CANBus Range	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a 1 0 - 4294967295 0 - 4294967295 Jaap van Bergeijk
Resolution SAE SPN CANBus Range Display Range	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a 1 0 - 4294967295 0 - 4294967295
Resolution SAE SPN CANBus Range Display Range Submit by	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a 1 0 - 4294967295 0 - 4294967295 Jaap van Bergeijk
Resolution SAE SPN CANBus Range Display Range Submit by Submit Date Submit Company Revision Number	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a 1  0 - 4294967295 0 - 4294967295 Jaap van Bergeijk 2012-01-19 AGCO corporation 1
Resolution SAE SPN CANBus Range Display Range Submit by Submit Date Submit Company	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a 1 0 - 4294967295 0 - 4294967295 Jaap van Bergeijk 2012-01-19 AGCO corporation
Resolution SAE SPN CANBus Range Display Range Submit by Submit Date Submit Company Revision Number	6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops n.a 1  0 - 4294967295 0 - 4294967295 Jaap van Bergeijk 2012-01-19 AGCO corporation 1

DD Entity	303 - Setpoint Condensed Work State (209-224)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 209 to 224 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02

DD Entity 304 - Setpoint Condensed Work State (225-240)
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counterparts to the Condensed Work States DDIs (161 å€" 176).  The value is a combination of the setpoint work states of individual sections or units (e.g. nozzfes) number 225 to 240 into a single setpoint work state of their parent device element. The setpoint condensed work state contains the child element setpoint work states, in the driving direction from left to right, where the leftmost child element setpoint work state are the 2 lowest significant bits of the Process Data Value. Each child device elements setpoint work state is represented by 2 bits and defined as: 00 = disable/off, 01 = enable/on, 10 = error indicator, 11 = no change. In total 16 child device element setpoint work states can be contained in one setpoint condensed work state of their parent device element. If less than 16 child device element setpoint work states are available, then the unused bits shall be set to value 11 (no change). When the parent device element contains the Setpoint Condensed Work State DDE, then the device descriptor shall not contain the individual setpoint work state DDE in the child device elements.  Comment  See the Setpoint Work State DDI (289) attachment for backwards compatibility and implementation guidelines.  Typically used by Device  Class(es)  1 - Tractor  Class(es)  1 - Tractor  2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvester 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops  Unit Symbol n.a  Resolution  1 SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit Date 2012-01-19  Submit Company AGCO corporation  Revision Number 1  Current Status	Definition	The Setpoint Condensed Work State DDIs are the control command
The value is a combination of the setpoint work states of individual sections or units (e.g. nozzles) number 225 to 240 into a single setpoint work state of their parent device element. The setpoint condensed work state of their parent device element setpoint work states, in the driving direction from left to right, where the leftmost child element setpoint work state are the 2 lowest significant bits of the Process Data Value. Each child device elements setpoint work state is represented by 2 bits and defined as: 00 = disable/off, 01 = enable/on, 10 = error indicator, 11 = no change. In total 16 child device element setpoint work states can be contained in one setpoint condensed work state of their parent device element. If less than 16 child device element setpoint work states are available, then the unused bits shall be set to value 11 (no change). When the parent device element contains the Setpoint Condensed Work State DDE, then the device element to contain the individual setpoint work state DDEs in the child device elements.  Comment  See the Setpoint Work State DDI (289) attachment for backwards compatibility and implementation guidelines.  Typically used by Device  1 - Tractor  Class(es)  2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops  Unit Symbol n.a Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 1 - AGCO corporation  Revision Number 1  Current Status  1 SO-Published		
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Class(es)       2 - Primary Soil Tillage         3 - Secondary Soil Tillage         4 - Planters /Seeders         5 - Fertilizer         6 - Sprayers         7 - Harvesters         8 - Root Harvester         9 - Forage harvester         10 - Irrigation         14 - Special Crops         Unit Symbol       n.a         Resolution       1         SAE SPN         CANBus Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Jaap van Bergeijk         Submit Date       2012-01-19         Submit Company       AGCO corporation         Revision Number       1         Current Status       ISO-Published		· · · · · · · · · · · · · · · · · · ·
3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops Unit Symbol n.a Resolution 1 SAE SPN CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Jaap van Bergeijk Submit Date 2012-01-19 Submit Company Revision Number 1 Current Status ISO-Published		
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5 - Fertilizer         6 - Sprayers         7 - Harvesters         8 - Root Harvester         9 - Forage harvester         10 - Irrigation         14 - Special Crops         Unit Symbol       n.a         Resolution       1         SAE SPN         CANBus Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Jaap van Bergeijk         Submit Date       2012-01-19         Submit Company       AGCO corporation         Revision Number       1         Current Status       ISO-Published		3 - Secondary Soil Tillage
6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops  Unit Symbol n.a  Resolution 1 SAE SPN  CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Jaap van Bergeijk Submit Date 2012-01-19 Submit Company AGCO corporation Revision Number 1 Current Status ISO-Published		4 - Planters /Seeders
7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops Unit Symbol n.a  Resolution 1 SAE SPN CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Jaap van Bergeijk Submit Date 2012-01-19 Submit Company AGCO corporation Revision Number 1 Current Status ISO-Published		5 - Fertilizer
8 - Root Harvester 9 - Forage harvester 10 - Irrigation 14 - Special Crops  Unit Symbol n.a  Resolution 1 SAE SPN CANBUS Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Jaap van Bergeijk Submit Date 2012-01-19 Submit Company AGCO corporation Revision Number 1 Current Status ISO-Published		6 - Sprayers
9 - Forage harvester 10 - Irrigation 14 - Special Crops  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Jaap van Bergeijk  Submit Date  2012-01-19  Submit Company  AGCO corporation  Revision Number  1  Current Status  ISO-Published		7 - Harvesters
10 - Irrigation 14 - Special Crops  Unit Symbol n.a  Resolution 1 SAE SPN  CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Jaap van Bergeijk Submit Date 2012-01-19 Submit Company AGCO corporation Revision Number 1 Current Status ISO-Published		8 - Root Harvester
Unit Symbol  n.a  Resolution  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Jaap van Bergeijk  Submit Date  2012-01-19  Submit Company  Revision Number  1  Current Status  ISO-Published		9 - Forage harvester
Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Jaap van Bergeijk  Submit Date 2012-01-19  Submit Company AGCO corporation  Revision Number 1  Current Status ISO-Published		10 - Irrigation
Resolution         1           SAE SPN         0 - 4294967295           CANBus Range         0 - 4294967295           Display Range         0 - 4294967295           Submit by         Jaap van Bergeijk           Submit Date         2012-01-19           Submit Company         AGCO corporation           Revision Number         1           Current Status         ISO-Published		14 - Special Crops
SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Jaap van Bergeijk  Submit Date 2012-01-19  Submit Company AGCO corporation  Revision Number 1  Current Status ISO-Published	Unit Symbol	n.a
CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Jaap van Bergeijk  Submit Date 2012-01-19  Submit Company AGCO corporation  Revision Number 1  Current Status ISO-Published	Resolution	1
Display Range 0 - 4294967295  Submit by Jaap van Bergeijk  Submit Date 2012-01-19  Submit Company AGCO corporation  Revision Number 1  Current Status ISO-Published	SAE SPN	
Submit by  Jaap van Bergeijk  Submit Date  2012-01-19  Submit Company  AGCO corporation  Revision Number  1  Current Status  ISO-Published	CANBus Range	0 - 4294967295
Submit Date 2012-01-19 Submit Company AGCO corporation Revision Number 1 Current Status ISO-Published	Display Range	0 - 4294967295
Submit Company AGCO corporation  Revision Number 1  Current Status ISO-Published	Submit by	Jaap van Bergeijk
Revision Number 1 Current Status ISO-Published	Submit Date	2012-01-19
Current Status ISO-Published	Submit Company	AGCO corporation
	Revision Number	1
Status Data 2012 01 02	Current Status	ISO-Published
Status Date 2012-04-02	Status Data	2012-04-02
Status Comments	Olalus Dale	· ·

DD Entity	305 - Setpoint Condensed Work State (241-256)
Definition	The Setpoint Condensed Work State DDIs are the control command
	counterparts to the Condensed Work States DDIs (161 – 176).
	The value is a combination of the setpoint work states of individual
	sections or units (e.g. nozzles) number 241 to 256 into a single
	setpoint work state of their parent device element. The setpoint
	condensed work state contains the child element setpoint work
	states, in the driving direction from left to right, where the leftmost
	child element setpoint work state are the 2 lowest significant bits of
	the Process Data Value. Each child device elements setpoint work
	state is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element setpoint work states can be contained in one setpoint
	condensed work state of their parent device element. If less than 16
	child device element setpoint work states are available, then the
	unused bits shall be set to value 11 (no change). When the parent
	device element contains the Setpoint Condensed Work State DDE,
	then the device descriptor shall not contain the individual setpoint
	work state DDEs in the child device elements.
Comment	See the Setpoint Work State DDI (289) attachment for backwards
	compatibility and implementation guidelines.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Jaap van Bergeijk
Submit Date	2012-01-19
Submit Company	AGCO corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2012-04-02
Status Comments	Status was published

DD Entity	306 - True Rotation Point X-Offset
Definition	X direction offset of the device rotation point relative to the DRP.
Comment	For devices with more than one axle the rotation point can be located
	at another position within the device than the DRP. In this case, the
	True Rotation Point X and Y Offset DDIs shall be used to define the
	location of the rotation point on the device. Both DDI's shall be
	attached to the device element of type Device.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-06-05
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-07-03
Status Comments	
Attachment	2012-07-03: - ISO11783-11-DDI-306-True Rotation Point-v1.pdf

DD Entity	307 - True Rotation Point Y-Offset
Definition	Y direction offset of the device rotation point relative to the DRP.
Comment	For devices with more than one axle the rotation point can be located
	at another position within the device than the DRP. In this case, the
	True Rotation Point X and Y Offset DDIs shall be used to define the
	location of the rotation point on the device. Both DDI's shall be
	attached to the device element of type Device. See also attachment
	of True Rotation Point X-Offset, DDI 306.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-06-05
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2012-07-03
Status Comments	

DD Entity	308 - Actual Percentage Application Rate
Definition	Actual Application Rate expressed as percentage
Comment	Counterpart to DDI 140 (Percentage Application Rate Setpoint)
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647

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Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2012-06-05
Submit Company	98 - MÃ1/₄ller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-07-03
Status Comments	

DD Entity	309 - Minimum Percentage Application Rate
Definition	Minimum Application Rate expressed as percentage
Comment	Supplied by device as physical minimum, see also DDI 140.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-07-03
Submit Company	John Deere
Revision Number	1
Current Status	Request Pending
Status Date	2012-07-03
Status Comments	

DD Entity	310 - Maximum Percentage Application Rate
Definition	Maximum Application Rate expressed as percentage
Comment	Supplied by device as physical maximum, see also DDI 140.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2012-07-03
Submit Company	John Deere
Revision Number	1
Current Status	Request Pending
Status Date	2012-07-03
Status Comments	

DD Entity	311 - Relative Yield Potential
Definition	Relative yield potential provided by a FMIS or a sensor or entered by
	the operator for a certain task expressed as percentage.
Comment	Relative yield potential could be used as input for an intelligent unit to
	calculate the appropriate amount of fertilizer / seed / etc. more
	accurate. Typical range is 80 to 120%. Expressed in ppm this is
	800,000 to 1,200,000.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-07-26
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-08-27
Status Comments	

DD Entity	312 - Minimum Relative Yield Potential
Definition	Minimum potential yield expressed as percentage.
Comment	This DDIs is used by the system to provide information about its
	value range support for relative yield potential.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-07-29
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-08-27
Status Comments	

DD Entity	313 - Maximum Relative Yield Potential
Definition	Maximum potential yield expressed as percentage.
Comment	This DDIs is used by the system to provide information about its
	value range support for relative yield potential.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-08-27
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	Request Pending
Status Date	2012-08-27
Status Comments	

DD Entity	314 - Actual Percentage Crop Dry Matter
Definition	Actual Percentage Crop Dry Matter expressed as parts per million.
Comment	This DDE defines the actual percentage of dry matter in the
	harvested crop.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	17 - Sensor System
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-09-17
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-09-24
Status Comments	

DD Entity	315 - Average Percentage Crop Dry Matter
Definition	Average Percentage Crop Dry Matter expressed as parts per million.
Comment	This DDE defines the average percentage of dry matter in the
	harvested crop.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	17 - Sensor System
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-09-17
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-09-24
Status Comments	

DD Entity	316 - Effective Total Fuel Consumption
Definition	Accumulated total fuel consumption in working position.
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-09-17
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-09-24
Status Comments	

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DD Entity	317 - Ineffective Total Fuel Consumption
Definition	Accumulated total fuel consumption in non working position.
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-09-17
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-09-24
Status Comments	

DD Entity	318 - Effective Total Diesel Exhaust Fluid Consumption
Definition	Accumulated total Diesel Exhaust Fluid consumption in working
	position.
Comment	Example: Diesel Exhaust Fluid as specified per ISO22241.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647

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Submit by	Martin Sperlich
Submit Date	2012-09-17
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2012-09-24
Status Comments	

DD Entity	319 - Ineffective Total Diesel Exhaust Fluid Consumption
Definition	Accumulated total Diesel Exhaust Fluid consumption in non working
	position.
Comment	Example: Diesel Exhaust Fluid as specified per ISO22241.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2012-09-24
Submit Company	CLAAS Agrosystems GmbH & Co. KG
Revision Number	1
Current Status	Request Pending
Status Date	2012-09-24
Status Comments	

DD Entity	320 - Last loaded Weight
Definition	Last loaded Weight value specified as mass
Comment	After a loading Procedure, this DDI sends the loaded Mass.
	For more information see attachment located at Last loaded Weight DDE
Typically used by Davise	4 - Planters /Seeders
Typically used by Device	
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger

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Submit Date	2013-01-14
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	Published
Status Date	2020-05-18
Status Comments	Correct link in attachment
Attachment	2020-05-18: Trigger method update -
	ISO 11783-11-DDI-320-Weighing Load Unload-v5.pdf

DD Entity	321 - Last unloaded Weight
Definition	Last unloaded Weight value specified as mass
Comment	After a unloading Procedure, this DDI sends the unloaded Mass.
	For more information see attachment located at Last loaded Weight
	DDE
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2013-01-14
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2013-02-04
Status Comments	

DD Entity	322 - Load Identification Number
Definition	The Load Identification Number as a decimal number in the range of
	0 to 2147483647. Note that the value of this DDI has the limitation of
	being an signed 32 bit number.
Comment	The DDI Load Identification Number can be used together with the
	DDI "320 - Last loaded Weight― to document the loading of
	material on a weighing system. See also the attached document for
	more details.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	14 - Special Crops
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	

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CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2013-05-21
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2024-05-21
Status Comments	Status was published
Attachment	<u>2013-09-22:</u> -
	ISO11783-11-DDI-322-Load Identification Number v1-v2.pdf

DD Entity	323 - Unload Identification Number
Definition	The Unload Identification Number as a decimal number in the range
	of 0 to 2147483647. Note that the value of this DDI has the limitation
	of being an unsigned 32 bit number.
Comment	The DDI Unload Identification Number can be used together with the
	DDI "321 - Last Unloaded Weight― to document the unloading
	of material on a weighing system. See also the attached document
	for more details. Note: for more detailed information see also the
	attachment on DDI 322!
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	14 - Special Crops
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2013-07-15
Submit Company	367 - Fliegl Agratechnik GmbH
Revision Number	1
Current Status	Published
Status Date	2024-05-03
Status Comments	Attachment deleted and added a note to look at DDI 322

DD Entity	324 - Chopper Engagement Total Time
Definition	Accumulated time while the chopping mechanism is engaged
Comment	This DDE represents the total engagement time of the chopping
	mechanism of the machine and is recommended to be used at
	maximum once within the device description in the device element
	that represents the machine.
	This DDE is designated for the chopping unit of a forage harvester. It
	could be also used for the straw chopper of a harvester. For combine
	harvesters please also see DDE 236 Threshing Engagement Total
	Time.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	s - Time count

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Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Martin Sperlich
Submit Date	2013-06-17
Submit Company	CLAAS Agrosystems KGaA mbH & Co KG
Revision Number	1
Current Status	ISO-Published
Status Date	2013-07-15
Status Comments	

DD Entity	325 - Lifetime Application Total Volume
Definition	Entire Application Total Volume of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	9 - Forage harvester
	10 - Irrigation
Unit Symbol	L - Capacity count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Michael Köcher
Submit Date	2013-09-02
Submit Company	AMAZONE
Revision Number	1
Current Status	ISO-Published
Status Date	2013-09-27
Status Comments	

DD Entity	326 - Setpoint Header Speed
Definition	The setpoint rotational speed of the header attachment of a chopper,
	mower or combine
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2015-11-27
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1

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Current Status	ISO-Published
Status Date	2013-12-04
Status Comments	

DD Entity	327 - Actual Header Speed
Definition	The actual rotational speed of the header attachment of a chopper,
	mower or combine
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2013-12-04
Status Comments	

DD Entity	328 - Minimum Header Speed
Definition	The minimum rotational speed of the header attachment of a
	chopper, mower or combine
Comment	This is a value recommented by the manufacturer of the machine as
	the minimum
	speed (unlike 0) for a propper working
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	329 - Maximum Header Speed
Definition	The maximum rotational speed of the header attachment of a
	chopper, mower or combine
Comment	This is a value recommented by the manufacturer of the machine as
	the maximum speed the machine is able to offer
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	330 - Setpoint Cutting drum speed
Definition	The setpoint speed of the cutting drum of a chopper
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	331 - Actual Cutting drum speed
Definition	The actual speed of the cutting drum of a chopper
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	332 - Minimum Cutting drum speed
Definition	The minimum speed of the cutting drum of a chopper
Comment	This is a value recommented by the manufacturer of the machine as
	the minimum
	speed (unlike 0) for a propper working
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	333 - Maximum Cutting drum speed
Definition	The maximum speed of the cutting drum of a chopper
Comment	This is a value recommented by the manufacturer of the machine as
	the maximum speed the machine is able to offer
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	/s - Quantity per time unit
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

334 - Operating Hours Since Last Sharpening
This value describes the working hours since the last sharpening of
the cutting device.
As the sharpness of the cutting drums cutters on a harvester is an
important indicator for cutting quality and an important factor for the
fuel usage, this value provides information about quality and
effectivity of the harvesting process
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
12 - Farmyard Work
14 - Special Crops
15 - Municipal Work
s - Time count
1
0 - 2147483647
0 - 2147483647
Frank Wiebeler
2013-12-04
Maschinenfabrik Bernard Krone GmbH
1
ISO-Published
2014-01-17

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DD Entity	335 - Front PTO hours
Definition	The hours the Front PTO of the machine was running for the current
	Task
Comment	This value provides information of the active working time for
	example of the header attachment of a selfpropelled machine
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	336 - Rear PTO hours
Definition	The hours the Rear PTO of the machine was running for the current
	Task
Comment	This value provides information of the active working time for
	example the rear PTO of a machine.

Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2014-01-17
Submit Company	John Deere
Revision Number	2
Current Status	ISO-Published
Status Date	2019-12-16
Status Comments	Status was published

DD Entity	337 - Lifetime Front PTO hours
Definition	The hours the Front PTO of the machine was running for the lifetime
	of the machine
Comment	This value provides information of the active working time for
	example of the header attachment of a selfpropelled machine
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	h - Hour
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,0 - 214748364,7
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	
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DD Entity	338 - Lifetime Rear PTO Hours
Definition	The hours the Rear PTO of the machine was running for the lifetime
	of the machine
Comment	This value provides information of the active working time for
	example the rear PTO of a machine.

Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	h - Hour
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,0 - 214748364,7
Submit by	Meyer Matthias
Submit Date	2014-01-17
Submit Company	John Deere
Revision Number	2
Current Status	ISO-Published
Status Date	2019-12-16
Status Comments	Status was published

DD Entity	339 - Effective Total Loading Time
Definition	The total time needed in the current task to load a product such as
	crop.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	340 - Effective Total Unloading Time
Definition	The total time needed in the current task to unload a product crop.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-01-17
Status Comments	

DD Entity	341 - Setpoint Grain Kernel Cracker Gap
Definition	The setpoint gap (distance) of the grain kernel cracker drums in a
	chopper.
Comment	The gap (distance) of the grain kernel cracker is an indicator to the
	quality of chopped corn.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2013-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2014-02-24
Status Comments	

DD Entity	342 - Actual Grain Kernel Cracker Gap
Definition	The actual gap (distance) of the grain kernel cracker drums in a
	chopper
Comment	The actual gap (distance) of the grain kernel cracker is an indicator to
	the quality of chopped corn.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2014-02-25
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-02-25
Status Comments	

DD Entity	343 - Minimum Grain Kernel Cracker Gap
Definition	The minimum gap (distance) of the grain kernel cracker drums in a
	chopper
Comment	The minimum gap (distance) of the grain kernel cracker that can be
	adjusted
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2014-02-25
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-02-25
Status Comments	

DD Entity	344 - Maximum Grain Kernel Cracker Gap
Definition	The maximum gap (distance) of the grain kernel cracker drums in a
	chopper
Comment	The maximum gap (distance) of the grain kernel cracker that can be
	adjusted.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2014-02-25
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-02-25
Status Comments	

DD Entity	345 - Setpoint Swathing Width
Definition	This is the setpoint swathing width of the swath created by a raker.
Comment	For mowers the working width DDIs will represent the width of the
	mower whereas swathing width will represent the swath with created
	by the mover.
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2014-03-17
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-03-25
Status Comments	

DD Entity	346 - Actual Swathing Width
Definition	This is the width of the swath currently created by a raker.
Comment	For mowers the working width DDIs will represent the width of the
	mower whereas swathing width will represent the swath width created
	by the mover.
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2014-03-17
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-03-25
Status Comments	

DD Entity	347 - Minimum Swathing Width
Definition	This is the minimum swath width the raker can create.
Comment	For mowers the working width DDIs will represent the width of the
	mower whereas swathing width will represent the swath width created
	by the mover.
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2014-03-17
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-03-25
Status Comments	

DD Entity	348 - Maximum Swathing Width
Definition	This is the maximum with of the swath the raker can create.
Comment	For mowers the working width DDIs will represent the width of the
	mower whereas swathing width will represent the swath width created
	by the mover.
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2014-03-17
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2014-03-25
Status Comments	

DD Entity	349 - Nozzle Drift Reduction
Definition	The Nozzle Drift Reduction classification value of the spraying
	equipment as percentage
Comment	The use of this DDE is to document the current used drift reducing
	classification of the nozzles or combination of drift reducing
	technique as percentage value.
	To record documentation obligation product during applying in
	adjacency of sensitive areas.
	For more information about nozzle drift classification see also
	Standard ISO 22369-1 "Crop protection equipment - Drift
	classification of spraying equipment"
Typically used by Device	6 - Sprayers
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 100
Display Range	0 - 100
Submit by	Matthias Meyer
Submit Date	2014-06-18
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2014-06-18
Status Comments	

DD Entity	350 - Function or Operation Technique
Definition	The Function or Operation Technique DDE can be used to define the
	operation technique or functionality performed by a device element
	defined within the DDOP. The values to be used are defined in the
	attached document.
Comment	In a DDOP (Device Description Object Pool) of an ISOBUS device
	there are different functionalities covered. The device element types
	in the Task Controller standard which are Device, Function, Bin,
	Section, Unit, Connector Type, and Navigation Reference do not last
	out for certain or more complex devices to describe all information in
	a unique way to the Task Controller Server. For more information see
	the attached document.

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Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2014-07-01
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2018-04-09
Status Comments	In Version 6 a function for proprietary usage was added
Attachment	2019-03-27: Version 7: add Pellets to Baling -
	ISO11783-11-DDI-350-Function and Operation Technique
	Type-v8.pdf
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DD Entity	351 - Application Total Volume in [ml]
Definition	Accumulated Application specified as volume in milliliter [ml]
Comment	is a counter of a device element
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2014-07-02
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2014-07-02
Status Comments	

DD Entity	352 - Application Total Mass in gram [g]
Definition	Accumulated Application specified as mass in gram [g]
Comment	is a counter of a device element
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2014-07-02
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2014-07-02
Status Comments	

DD Entity	353 - Total Application of Nitrogen [N2]
Definition	Accumulated application of nitrogen [N2] specified as gram [g]
Comment	This total is a counter of a device element
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2014-06-04
Submit Company	Zunhammer
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added device class 25

DD Entity	354 - Total Application of Ammonium
Definition	Accumulated application of ammonium [NH4] specified as gram [g]
Comment	This total is a counter of a device element
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2014-06-04
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added device class 25

DD Entity	355 - Total Application of Phosphor
Definition	Accumulated application of phosphor (P2O5) specified as gram [g]
Comment	This total is a counter of a device element
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2014-06-04
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added device class 25

DD Entity	356 - Total Application of Potassium
Definition	Accumulated application of potassium [K] specified as gram [g]
Comment	This total is a counter of a device element
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	g - Mass large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2014-06-04
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2021-10-25
Status Comments	Change unit name from K2 to K only

DD Entity	357 - Total Application of Dry Matter
Definition	Accumulated application of dry matter in kilogram [kg]. Dry matter
	measured at zero percent of moisture
Comment	This total is a counter of a device element
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2014-06-04
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added device class 25

DD Entity	358 - Average Dry Yield Mass Per Time
Definition	Average Yield expressed as mass per unit time, corrected for the
	reference moisture percentage DDI 184. This value is the average for
	a Task and may be reported as a total.
Comment	This Average Dry Yield Mass Per Time is the mass flow that has
	been corrected for the average crop moisture (DDI 262) based on the
	reference moisture for dry mass (DDI 184). This is the "dry"
	equivalent to DDI 261. This average yield mass per time is calculated
	as the yield total dry mass (DDI 183) divided by the effective total
	time (DDI 119) of the active task. When resuming a task, the working
	set shall compute its average dry yield mass per time from the yield
	total mass (DDI 90), average crop moisture (DDI 262), reference
	moisture percentage (DDI 184), and effective total time (119)
	assuming these DDI's are sent by the task controller.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Tony Woodcock
Submit Date	2014-08-08
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Published

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Status Date	2014-08-26
Status Comments	Status was published

DD Entity	359 - Average Dry Yield Mass Per Area
Definition	Average Yield expressed as mass per unit area, corrected for the
	reference moisture percentage DDI 184. This value is the average for
	a Task and may be reported as a total.
Comment	This Average Dry Yield Mass Per Area is the mass flow that has been
	corrected for the average crop moisture (DDI 262) based on the
	reference moisture for dry mass (DDI 184). This is the "dry"
	equivalent to DDI 263. This average yield mass per area is calculated
	as the yield total dry mass (DDI 183) divided by the total area (DDI
	116) of the active task. When resuming a task, the working set shall
	compute its average dry yield mass per area from the yield total mass
	(DDI 90), average crop moisture (DDI 262), reference moisture
	percentage (DDI 184), and total area (DDI 116) assuming these
	DDI's are sent by the task controller.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Tony Woodcock
Submit Date	2014-08-08
Submit Company	Ag Leader Technology
Revision Number	1
Current Status	ISO-Published
Status Date	2014-08-26
Status Comments	
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DD Entity	360 - Last Bale Size
Definition	The bale size of the most recently produced bale. Bale Size as length
	for a square baler or diameter for a round baler.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler can add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647

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Display Range	0 - 2147483647
Submit by	Lynn Derynck
Submit Date	2014-11-07
Submit Company	CNH Industrial N.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2014-12-03
Status Comments	

DD Entity	361 - Last Bale Density
Definition	The bale density of the most recently produced bale.
	Unit: mg/l (mass per unit volume)
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler can add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lynn Derynck
Submit Date	2014-11-07
Submit Company	CNH Industrial N.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2014-12-03
Status Comments	

DD Entity	362 - Total Bale Length
Definition	Gives the total baled meters during a task. This is calculated as the
	sum of the lengths of all knotted bales (square baler).
Comment	
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lynn Derynck
Submit Date	2014-11-07
Submit Company	CNH Industrial N.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2014-12-03
Status Comments	
Attachment	2014-11-07: - ISO 11783-11 DDIdentifier Total Bale Length-v1.doc

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363 - Last Bale Dry Mass
The dry mass of the bale that has most recently been produced. This
is the bale mass corrected for the average moisture of this bale (DDI
212).
The recommended use of this DDE is for a baler to report this once
for every bale that is produced. A baler may add this to its default set
of data, based on an internal on-change data trigger that causes the
baler to report the value of this DDE after the bale is produced. The
recommendation for data logging is that all "Last Bale" DDEs that are
supported by a device are reported together at the moment that the
bale is produced and leaves the machine.
7 - Harvesters
9 - Forage harvester
g - Mass large
1
0 - 2147483647
0 - 2147483647
Lynn Derynck
2014-11-07
CNH Industrial N.V.
1
ISO-Published
2014-12-03
2014-11-07: - ISO 11783-11 DDIdentifier Last Bale Mass
<u>Dry-v1.doc</u>

DD Entity	364 - Actual Flake Size
Definition	Actual size of the flake that is currently produced by the chamber.
Comment	The recommended use of this DDE is for a baler to report this once
	for each new flake that entered
	the baler chamber and obtained at the maximum compression of the
	plunger. A baler may add this to its default set of data, based on an
	internal on-change data trigger that causes the baler to report the
	value of this DDE at each new flake.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 1000
Display Range	0 - 1000
Submit by	Lynn Derynck
Submit Date	2014-11-07
Submit Company	CNH Industrial N.V.
Revision Number	1

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Current Status	ISO-Published
Status Date	2015-01-13
Status Comments	
Attachment	2014-11-07: - ISO 11783-11 DDIdentifier Flake Size-v1.doc

DD Entity	365 - Setpoint Downforce Pressure
Definition	Setpoint downforce pressure for an operation
Comment	This value represents the system pressure to produce the downforce
	(or upforce) for an operation messured in Pa (Pascal); In case of an
	negative value the system pressure would produce Upforce.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Brandon McDonald
Submit Date	2014-12-04
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2015-01-13
Status Comments	

DD Entity	366 - Actual Downforce Pressure
Definition	Actual downforce pressure for an operation
Comment	This value represents the actual system pressure to produce the
	downforce (or upforce) for an operation messured in Pa (Pascal); In
	case of an negative value the system pressure would produce
	Upforce.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Brandon McDonald
Submit Date	2014-12-04
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2015-01-13
Status Comments	

DD Entity	367 - Condensed Section Override State (1-16)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 1 to 16 into a single override state. The
	condensed section override state contains the child element override
	states, in the driving direction from left to right, where the leftmost
	child element override state are the 2 lowest significant bits of the
	Process Data Value. Each child device elements override state is
	represented by 2 bits and defined as: 00 = section is not overridden,
	01 = section is overridden, 10 = reserved, 11 = undefined / not
	installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	not defined - not defined

Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2014-11-18
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	ISO-Published
Status Date	2016-06-27
Status Comments	Status was published

DD Entity	368 - Condensed Section Override State (17-32)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 17 to 32 into a single override state. The
	condensed section override state contains the child element override
	states, in the driving direction from left to right, where the leftmost
	child element override state are the 2 lowest significant bits of the
	Process Data Value. Each child device elements override state is
	represented by 2 bits and defined as: 00 = section is not overridden,
	01 = section is overridden, 10 = reserved, 11 = undefined / not
	installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-20
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	

DD Entity	369 - Condensed Section Override State (33-48)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 33 to 48 into a single override state. The
	condensed section override state contains the child element override
	states, in the driving direction from left to right, where the leftmost
	child element override state are the 2 lowest significant bits of the
	Process Data Value. Each child device elements override state is
	represented by 2 bits and defined as: 00 = section is not overridden,
	01 = section is overridden, 10 = reserved, 11 = undefined / not
	installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1

SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-20
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the description by ASCII Character for
	better processability of the txt export

This DDE is used by the implement to communicate that a certain
The BBE is deed by the implement to communicate that a contain
section is overridden and will not follow the section control
commands. The value is a combination of the override states of
individual sections number 49 to 64 into a single override state. The
condensed section override state contains the child element override
states, in the driving direction from left to right, where the leftmost
child element override state are the 2 lowest significant bits of the
Process Data Value. Each child device elements override state is
represented by 2 bits and defined as: 00 = section is not overridden,
01 = section is overridden, 10 = reserved, 11 = undefined / not
installed. In total 16 child device element override states can be
contained in one condensed section override state. If less than 16
child device element override states are available, then the unused
bits shall be set to value 11 (undefined / not installed). This DDE shall
be placed in the same device element as the corresponding actual
condensed work state.
It is common for SC servers to show the current state of the sections
in a proprietary screen. As the implement is allowed to override the
commanded state from the task controller it is impossible for the
operator to predict what happens when driving into an unworked
area. With this DDE it is possible for the SC server to show
overridden sections in the proprietary screen.
This DDE shall be defined as DPD in the DDOP of the implement.
The DPD shall at least support the datalog triggers "on changeâ€
and "time based―. The value shall only be sent by the
implement if it was requested (single request or datalog trigger) by
the TC-SC server.
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Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-20
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€" in the description by ASCII Character for
	better processability of the txt export

DD Entity	371 - Condensed Section Override State (65-80)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 65 to 80 into a single override state. The
	condensed section override state contains the child element override
	states, in the driving direction from left to right, where the leftmost
	child element override state are the 2 lowest significant bits of the
	Process Data Value. Each child device elements override state is
	represented by 2 bits and defined as: 00 = section is not overridden,
	01 = section is overridden, 10 = reserved, 11 = undefined / not
	installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	372 - Condensed Section Override State (81-96)
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Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 81 to 96 into a single override state. The
	condensed section override state contains the child element override
	states, in the driving direction from left to right, where the leftmost
	child element override state are the 2 lowest significant bits of the
	Process Data Value. Each child device elements override state is
	represented by 2 bits and defined as: 00 = section is not overridden,
	01 = section is overridden, 10 = reserved, 11 = undefined / not
	installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on changeâ€
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Section numbers in the definition were wrong

DD Entity	373 - Condensed Section Override State (97-112)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 97 to 112 into a single override state. The
	condensed section override state contains the child element override
	states, in the driving direction from left to right, where the leftmost
	child element override state are the 2 lowest significant bits of the
	Process Data Value. Each child device elements override state is
	represented by 2 bits and defined as: 00 = section is not overridden,
	01 = section is overridden, 10 = reserved, 11 = undefined / not
	installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time basedâ€∙. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
, ,	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the DDI Name by ASCII Character for
	better processability of the txt export.
	The Section numbers in the definition were wrong

DD Entity 374 - Condensed Section Override State (113-128)	
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Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 113 to 128 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on changeâ€
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€" in the DDI Name by ASCII Character for
	better processability of the txt export.
	Section numbers in the definition were wrong

DD Entity	375 - Condensed Section Override State (129-144)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 129 to 144 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€" in the DDI Name by ASCII Character for
	better processability of the txt export.
	Section numbers in the definition were wrong.

DD Entity 376 - Condensed Section Override State (145-160)	
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Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 145 to 160 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
Comment	
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	Ti: DDF
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on changeâ€
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	

CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	377 - Condensed Section Override State (161-176)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 161 to 176 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	11 - Transport / Trailers
	11 - Transport / Trailers 12 - Farmyard Work
	11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units
	<ul><li>11 - Transport / Trailers</li><li>12 - Farmyard Work</li><li>13 - Powered Auxilary Units</li><li>14 - Special Crops</li></ul>
Unit Symbol	<ul> <li>11 - Transport / Trailers</li> <li>12 - Farmyard Work</li> <li>13 - Powered Auxilary Units</li> <li>14 - Special Crops</li> <li>15 - Municipal Work</li> </ul>

SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	378 - Condensed Section Override State (177-192)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 177 to 192 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on changeâ€e
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	379 - Condensed Section Override State (193-208)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 193 to 208 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time basedâ€∙. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1

SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	380 - Condensed Section Override State (209-224)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 209 to 224 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	381 - Condensed Section Override State (225-240)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 225 to 240 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on change―
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1

SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	382 - Condensed Section Override State (241-256)
Definition	This DDE is used by the implement to communicate that a certain
	section is overridden and will not follow the section control
	commands. The value is a combination of the override states of
	individual sections number 241 to 256 into a single override state.
	The condensed section override state contains the child element
	override states, in the driving direction from left to right, where the
	leftmost child element override state are the 2 lowest significant bits
	of the Process Data Value. Each child device elements override state
	is represented by 2 bits and defined as: 00 = section is not
	overridden, 01 = section is overridden, 10 = reserved, 11 = undefined
	/ not installed. In total 16 child device element override states can be
	contained in one condensed section override state. If less than 16
	child device element override states are available, then the unused
	bits shall be set to value 11 (undefined / not installed). This DDE shall
	be placed in the same device element as the corresponding actual
	condensed work state.
Comment	It is common for SC servers to show the current state of the sections
	in a proprietary screen. As the implement is allowed to override the
	commanded state from the task controller it is impossible for the
	operator to predict what happens when driving into an unworked
	area. With this DDE it is possible for the SC server to show
	overridden sections in the proprietary screen.
	This DDE shall be defined as DPD in the DDOP of the implement.
	The DPD shall at least support the datalog triggers "on changeâ€
	and "time based―. The value shall only be sent by the
	implement if it was requested (single request or datalog trigger) by
	the TC-SC server.

Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Michael Köcher
Submit Date	2015-01-21
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	Request Pending
Status Date	2016-06-27
Status Comments	Replace character "â€"" in the DDI Name by ASCII Character for
	better processability of the txt export

DD Entity	383 - Apparent Wind Direction
Definition	The apparent wind is the wind which is measured on a moving
	vehicle. It is the result of two motions: the actual true wind and the
	motion of the vehicle. The wind angle is referenced to the present
	heading of the vehicle (Zero degree refers to the vehicle driving
	direction).
Comment	DDI 207 defines the true wind.
	DDI 208 defines the true wind angle.
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	° - Angle
Resolution	1
SAE SPN	
CANBus Range	0 - 359
Display Range	0 - 359
Submit by	Jan Steenbock
Submit Date	2015-01-12
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	2
Current Status	ISO-Published
Status Date	2015-02-10
Status Comments	

DD Entity	384 - Apparent Wind Speed
Definition	The apparent wind is the wind which is measured on a moving
	vehicle. It is the result of two motions: the actual true wind and the
	motion of the vehicle.
Comment	DDI 207 defines the true wind.
	DDI 208 defines the true wind angle.
Typically used by Device	0 - Non-specific system
Class(es)	17 - Sensor System
Unit Symbol	mm/s - Speed
Resolution	1
SAE SPN	
CANBus Range	0 - 100000000
Display Range	0 - 100000000
Submit by	Jan Steenbock
Submit Date	2015-01-12
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	2
Current Status	ISO-Published
Status Date	2015-02-10
Status Comments	

DD Entity	385 - MSL Atmospheric Pressure
Definition	The atmospheric pressure MSL (Mean Sea Level) is the air pressure
	related to mean sea level.
Comment	In weather charts only the converted pressure to mean sea level is
	indicated. Only the pressure changes due to the weather has to be
	considered.
Typically used by Device	0 - Non-specific system
Class(es)	17 - Sensor System
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2000000
Display Range	0,0 - 200000,0
Submit by	Jan Steenbock
Submit Date	2015-03-30
Submit Company	MÃ1/4ller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-03-30
Status Comments	

DD Entity	386 - Actual Atmospheric Pressure
Definition	The Actual Atmospheric Pressure is the air pressure currently
	measured by the weather station.
Comment	This value does take the current altitude (field position) into count.
Typically used by Device	0 - Non-specific system
Class(es)	17 - Sensor System
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2000000
Display Range	0,0 - 200000,0
Submit by	Jan Steenbock
Submit Date	2015-03-30
Submit Company	MÃ1/4ller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-03-30
Status Comments	

DD Entity	387 - Total Revolutions in Fractional Revolutions
Definition	Accumulated Revolutions specified with fractional revolutions
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers.To prevent rounding errors the basic unit r/min where
	chosen.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	# - Quantity/Count
Resolution	0,0001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748,3648 - 214748,3647
Submit by	Mike Schmidt
Submit Date	2015-04-24
Submit Company	AGCO Corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2015-04-24
Status Comments	

DD Entity	388 - Total Revolutions in Complete Revolutions
Definition	Accumulated Revolutions specified as completed integer revolutions
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Mike Schmidt
Submit Date	2015-04-24
Submit Company	AGCO Corporation
Revision Number	1
Current Status	ISO-Published
Status Date	2015-04-24
Status Comments	

DD Entity	389 - Setpoint Revolutions specified as count per time
Definition	Setpoint Revolutions specified as count per time
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers. To prevent rounding errors the basic unit r/min where
	chosen.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748,3648 - 214748,3647
Submit by	David Kuhnel
Submit Date	2015-04-24
Submit Company	DICKEY-john Corp
Revision Number	1
Current Status	ISO-Published
Status Date	2015-04-24
Status Comments	

DD Entity	390 - Actual Revolutions Per Time
Definition	Actual Revolutions specified as count per time
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers. To prevent rounding errors the basic unit r/min where
	chosen.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748,3648 - 214748,3647
Submit by	David Kuhnel
Submit Date	2015-03-23
Submit Company	DICKEY-john Corp
Revision Number	1
Current Status	ISO-Published
Status Date	2015-03-23
Status Comments	

DD Entity	391 - Default Revolutions Per Time
Definition	Default Revolutions specified as count per time
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers. To prevent rounding errors the basic unit r/min where
	chosen.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748,3648 - 214748,3647
Submit by	David Kuhnel
Submit Date	2015-03-23
Submit Company	DICKEY-john Corp
Revision Number	1
Current Status	ISO-Published
Status Date	2015-03-23
Status Comments	

DD Entity	392 - Minimum Revolutions Per Time
Definition	Minimum Revolutions specified as count per time
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers. To prevent rounding errors the basic unit r/min where
	chosen.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748,3648 - 214748,3647
Submit by	David Kuhnel
Submit Date	2015-03-23
Submit Company	DICKEY-john Corp
Revision Number	1
Current Status	ISO-Published
Status Date	2015-03-23
Status Comments	

DD Entity	393 - Maximum Revolutions Per Time
Definition	Maximum Revolutions specified as count per time
Comment	Forward or Clockwise rotation represented as positive numbers and
	reverse or Counter-Clockwise rotation represented by negative
	numbers. To prevent rounding errors the basic unit r/min where
	chosen.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-214748,3648 - 214748,3647
Submit by	David Kuhnel
Submit Date	2015-07-02
Submit Company	DICKEY-john Corp
Revision Number	1
Current Status	ISO-Published
Status Date	2015-07-02
Status Comments	

DD Entity	394 - Actual Fuel Tank Content
Definition	The actual content of the fuel tank
Comment	This value can be used to see the refilling of the fuel tank or the theft
	of fuel.
Typically used by Device	1 - Tractor
Class(es)	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hans van Zadelhoff
Submit Date	2015-07-02
Submit Company	Grimme Landmaschinenfabrik GmbH & Co. KG
Revision Number	2
Current Status	ISO-Published
Status Date	2016-09-05
Status Comments	Status was published

DD Entity	395 - Actual Diesel Exhaust Fluid Tank Content
Definition	The actualcontent of the diesel exhaust fluid tank
Comment	This value can be used to see the refilling of the diesel exhaust fluid
	tank or the theft of diesel exhaust fluid.
Typically used by Device	1 - Tractor
Class(es)	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hans van Zadelhoff
Submit Date	2015-07-02
Submit Company	Grimme Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-07-02
Status Comments	

DD Entity	396 - Setpoint Speed
Definition	The setpoint speed that can be specified in a process data variable
	for communication between farm management information systems
	and mobile implement control systems. The setpoint speed DDI may
	also be used in a device description object pool to specify support for
	speed control by a device. A positive value will represent forward
	direction and a negative value will represent reverse direction.
Comment	The implementation of speed control on the mobile implement control
	system may use other ISO11783 network parameter groups (e.g.
	ISO11783-7 Commanded Vehicle Speed and Machine Selected
	Speed Setpoint) and may be subject to control request authentication
	requirements. The definition of this DDI has been added to the ISO
	11783-11 data dictionary to facilitate the specification of a setpoint
	speed in a task data transfer file and to enable specification of the
	support of speed control in a device description object pool.

Typically used by Device	0 - Non-specific system	
Class(es)	1 - Tractor	
	2 - Primary Soil Tillage	
	3 - Secondary Soil Tillage	
	4 - Planters /Seeders	
	5 - Fertilizer	
	6 - Sprayers	
	7 - Harvesters	
	8 - Root Harvester	
	9 - Forage harvester	
	10 - Irrigation	
	11 - Transport / Trailers	
	12 - Farmyard Work	
	13 - Powered Auxilary Units	
	14 - Special Crops	
Unit Symbol	mm/s - Speed	
Resolution	1	
SAE SPN		
CANBus Range	-2147483648 - 2147483647	
Display Range	-2147483648 - 2147483647	
Submit by	Hans van Zadelhoff	
Submit Date	2015-02-12	
Submit Company	Grimme Landmaschinenfabrik GmbH & Co. KG	
Revision Number	3	
Current Status	ISO-Published	
Status Date	2015-04-24	
Status Comments		

DD Entity	397 - Actual Speed
Definition	The actual speed as measured on or used by a device for the
	execution of task based data, e.g. to convert a setpoint rate
	expressed per area to device specific control data that is expressed
	as a rate per time. The actual speed can be measured by the device
	itself or it can be a speed value that is obtained from one of the speed
	parameter groups that are broadcasted on the ISO11783 network
	and defined in ISO11783-7. Examples of broadcasted speed
	parameter groups are wheel based speed, ground based speed and
	machine selected speed. The source of the actual speed can be
	specified by a Speed Source DDI that is present in the same device
	element as the speed DDI. A positive value will represent forward
	direction and a negative value will represent reverse direction.
Comment	This DDI has been added to the data dictionary to support logging of
	the speed that the device uses for processing and for generation of
	task data. The addition of a DDI for actual speed allows speed values
	to be added to the default data set that devices present to a task
	controller or a data logger.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	mm/s - Speed
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Hans van Zadelhoff
Submit Date	2015-04-24
Submit Company	Grimme Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-04-24
Status Comments	
Current Status Status Date	ISO-Published

DD Entity	398 - Minimum Speed
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Definition	The minimum speed that can be specified in a process data variable
Delinition	for communication between farm management information systems
	and mobile implement control systems. A positive value will represent
	forward direction and a negative value will represent reverse
	-
	direction.
Comment	This DDI has been added to the data dictionary to support the setting
	and logging of a minimum speed for a part of a device. See also the
	definitions of the Setpoint, Actual and Maximum Speed DDIs for
	additional definition and implementation information of Speed DDIs.
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	mm/s - Speed
Resolution	1
SAE SPN	•
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Hans van Zadelhoff
Submit Date	2015-09-02
Submit Company	Grimme Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-09-02
Status Comments	

DD Entity	399 - Maximum Speed
Definition	The maximum speed that can be specified in a process data variable
	for communication between farm management information systems
	and mobile implement control systems. A positive value will
	represent forward direction and a negative value will represent
	reverse direction.
Comment	This DDI has been added to the data dictionary to support the setting
	and logging of a maximum speed for a part of a device. See also the
	definitions of the Setpoint, Actual and Minimum Speed DDIs for
	additional definition and implementation information of Speed DDIs.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	mm/s - Speed
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Hans van Zadelhoff
Submit Date	2015-09-02
Submit Company	Grimme Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-09-02
Status Comments	

DD Entity	400 - Speed Source

Definition	The Speed Source that the device uses to report actual speed and to
Benniton	process the setpoint, minimum and maximum speeds. The Speed
	Source value is an enumeration with the following definitions:
	0 = Unknown
	1 = Wheel-based speed
	·
	2 = Ground-based speed
	3 = Navigation-based speed
	4 = Blended speed
	5 = Simulated speed
	6 = Machine Selected speed
	7 = Machine measured speed (This option indicates the machine
	uses an own sensor to measures the actual speed, instead of the
	speed provided on the bus).
	8 to 254 = Reserved
	255 = No Source available
Comment	The Speed Source DDI can be used in conjunction with the Actual
	Speed DDI to specify which speed measurement method is used to
	determine the value reported via the Actual, Setpoint, Minimum and
	Maximum Speed DDIs. When a device receives commands for
	Setpoint, Minimum or Maximum Speed then the Speed Source can
	be used to select a ISO 11783-7 command for speed control.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 255
Display Range	0 - 255
Submit by	Jaap van Bergeijk
Submit Date	2015-09-02
Submit Company	AGCO corporation
Revision Number	2
Current Status	Published
Status Date	2018-04-09
	1

Status Comments	Change information: 8 to 254 = Reserved
	255 = No Source available

DD Entity	401 - Actual Application of Nitrogen [N2] as [mg/l]
Definition	Actual application of Nitrogen [N2] specified as milligram per liter
	[mg/l]
Comment	Is the actual amount of Nitrogen [N2] in liquid manure ( see also DD
	Entity 353)
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2015-09-02
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added unit to name

DD Entity	402 - Actual application of Ammonium
Definition	Actual application of Ammonium [NH4] specified as milligram per liter
	[mg/l]
Comment	Is the actual amount of Ammonium [NH4] in liquig manure ( see also
	DD Entity 354)
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2015-09-02
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	added device class 25

DD Entity	403 - Actual application of Phosphor
Definition	Actual application of Phosphor [P2O5] specified as milligram per liter
	[mg/l]
Comment	Is the actual amount of Phosphor [P2O5] in liquid manure ( see also
	DD Entity 355)
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2015-03-11
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added device class

DD Entity	404 - Actual application of Potassium
Definition	Actual application of Potassium [K] specified as gram [g]
Comment	is the actual amount of Potassium [K] in liquid manure ( see also DD
	Entity 356)
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2015-09-02
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2021-10-25
Status Comments	Change unit name from K2 to K only

DD Entity	405 - Actual application of Dry Matter
Definition	Actual application of Dry Matter in kilogram [kg]. Dry matter measured
	at Zero percent of moisture.
Comment	is the actual amount of Dry matter in liquid manure ( see also DD
	Entity 357)
Typically used by Device	5 - Fertilizer
Class(es)	25 - Slurry Applicators
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Christoph Staub
Submit Date	2015-09-02
Submit Company	Zunhammer GmbH
Revision Number	1
Current Status	Published
Status Date	2020-07-13
Status Comments	Added device class 25

DD Entity	406 - Actual Protein Content
Definition	Actual Protein content of a harvested crops
Comment	Protein content of harvested crop expressed as a percent mass of the
	total crop.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Joe Tevis
Submit Date	2015-09-04
Submit Company	Topcon
Revision Number	1
Current Status	ISO-Published
Status Date	2015-09-04
Status Comments	

DD Entity	407 - Average Protein Content
Definition	Average protein content in a harvested crop
Comment	Average protein content of harvested crop.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Joe Tevis
Submit Date	2015-09-04
Submit Company	Topcon
Revision Number	1
Current Status	ISO-Published
Status Date	2015-09-04
Status Comments	

DD Entity	408 - Average Crop Contamination
Definition	Average amount of dirt or foreign in a harvested crop
Comment	Average amount of dirt or foreign in a harvested crop
Typically used by Device	7 - Harvesters
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Ben Craker
Submit Date	2015-09-02
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-15
Status Comments	

DD Entity	409 - Total Diesel Exhaust Fluid Consumption
Definition	Accumulated Diesel Exhaust Fluid Consumption as a Task Total.
Comment	This data definition is the Diesel Exhaust Fluid (DEF) consumption
	counterpart of the previously defined data dictionary entity 148 - Total
	Fuel Consumption. These data dictionary entities can be used by
	devices that support data logging of Fuel and Diesel Exhaust Fluid
	consumption.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Eric Bongaerts
Submit Date	2015-06-01
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	
Attachment	2015-06-01: - DEF_DDI_Requests-v1.pptx

DD Entity	410 - Instantaneous Diesel Exhaust Fluid Consumption per Time
Definition	Diesel Exhaust Fluid consumption per time
Comment	This data definition is the Diesel Exhaust Fluid (DEF) consumption
	counterpart of the previously defined data dictionary entity 149 -
	Instantaneous Fuel Consumption per Time. These data dictionary
	entities can be used by devices that support data logging of Fuel and
	Diesel Exhaust Fluid consumption.

1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters
3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters
4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters
5 - Fertilizer 6 - Sprayers 7 - Harvesters
6 - Sprayers 7 - Harvesters
7 - Harvesters
3 - Root Harvester
9 - Forage harvester
10 - Irrigation
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
24 - Utility Vehicles
25 - Slurry Applicators
26 - Feeder / Mixer
mm³/s - Flow
) - 2147483647
0 - 2147483647
Eric Bongaerts
2015-06-01
AGCO
1
SO-Published
2015-06-16

411 - Instantaneous Diesel Exhaust Fluid Consumption per Area
Diesel Exhaust Fluid consumption per area
This data definition is the Diesel Exhaust Fluid (DEF) consumption
counterpart of the previously defined data dictionary entity 150 -
Instantaneous Fuel Consumption per Area. These data dictionary
entities can be used by devices that support data logging of Fuel and
Diesel Exhaust Fluid consumption.
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
24 - Utility Vehicles
25 - Slurry Applicators
26 - Feeder / Mixer
mm³/m² - Capacity per area unit
1
0 - 2147483647
0 - 2147483647
Eric Bongaerts
2015-06-01
AGCO
1
ISO-Published
2015-06-16

DD Entity	412 - Lifetime Diesel Exhaust Fluid Consumption
Definition	Accumulated Diesel Exhaust Fluid Consumption over the entire
	lifetime of the device.

Cammant	This is the everell total of the device. This total does not refer to an
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value.
	The Device shall support the total trigger method for this DDE but
	shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
	This data definition is the Diesel Exhaust Fluid (DEF) consumption
	counterpart of the previously defined data dictionary entity 276 -
	Lifetime Fuel Consumption. These data dictionary entities can be
	used by devices that support data logging of Fuel and Diesel Exhaust
	Fluid consumption.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	L - Capacity count
Resolution	0,5
SAE SPN	5963
CANBus Range	0 - 2147483647
Display Range	0 - 1073741823,5
Submit by	Eric Bongaerts
Submit Date	2015-06-01
Submit Company	AGCO
Revision Number	
	1
Current Status	1 ISO-Published
Current Status Status Date	1

DD Entity	413 - Lifetime Average Diesel Exhaust Fluid Consumption per
-	Time
Definition	Average Diesel Exhaust Fluid Consumption per Time over the entire
	lifetime of the device.
Comment	This is the overall average of the device. This average does not refer
	to an application controlled by a Task Controller. Therefore this DDE
	shall not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Device shall support the total trigger method for this DDE but
	shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
	This data definition is the Diesel Exhaust Fluid (DEF) consumption
	counterpart of the previously defined data dictionary entity 277 -
	Lifetime Average Fuel Consumption per Time. These data dictionary
	entities can be used by devices that support data logging of Fuel and
Typically used by Davice	Diesel Exhaust Fluid consumption.  1 - Tractor
Typically used by Device	
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/s - Flow
Resolution	1
SAE SPN	0 2447402647
CANBus Range Display Range	0 - 2147483647 0 - 2147483647
Submit by	Eric Bongaerts
Submit Date	2015-06-01
Submit Company	AGCO
Revision Number	1
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Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	Status was published

DD Entity	414 - Lifetime Average Diesel Exhaust Fluid Consumption per
	Area
Definition	Average Diesel Exhaust Fluid Consumption per Area over the entire
	lifetime of the device.
Comment	This is the overall average of the device. This average does not refer
	to an application controlled by a Task Controller. Therefore this DDE
	shall not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Device shall support the total trigger method for this DDE but
	shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
	This data definition is the Diesel Exhaust Fluid (DEF) consumption
	counterpart of the previously defined data dictionary entity 278 -
	Lifetime Average Fuel Consumption per Area. These data dictionary
	entities can be used by devices that support data logging of Fuel and
	Diesel Exhaust Fluid consumption.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/m² - Capacity per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647

Display Range	0 - 2147483647
Submit by	Eric Bongaerts
Submit Date	2015-06-01
Submit Company	AGCO
Revision Number	1
Current Status	ISO-Published
Status Date	2015-06-16
Status Comments	

DD Entity	415 - Actual Seed Singulation Percentage
Definition	Actual Seed Singulation Percentage calculated from measured seed
	spacing using ISO 7256-1 "Quality of Feed Index" algorithm
Comment	Reference ISO 7256-1 "Quality of Feed Index" for details on the
	standardized method for calculating the seed singulation parameter.
	The number of seed drops for calculating this real-time percentage is
	not specified due to the possible differences in measurement and
	performance of the equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	2
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	416 - Average Seed Singulation Percentage
Definition	Average Seed Singulation Percentage calculated from measured
	seed spacing using ISO 7256-1 "Quality of Feed Index" algorithm.
	The value is the average for a Task.
Comment	Reference ISO 7256-1 "Quality of Feed Index" for details on the
	standardized method for calculating the seed singulation parameter.
	The number of seed drops for calculating this real-time percentage is
	not specified due to the possible differences in measurement and
	performance of the equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	2
Current Status	Published
Status Date	2018-08-28
Status Comments	

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DD Entity	417 - Actual Seed Skip Percentage
Definition	Actual Seed Skip Percentage calculated from measured seed
	spacing using ISO 7256-1 "Miss Index" algorithm
Comment	Reference ISO 7256-1 "Miss Index" for details on the standardized
	method for calculating a percentage. The number of seed drops for
	calculating this real-time percentage is not specified due to the
	possible differences in measurement and performance of the
	equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	2
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	418 - Average Seed Skip Percentage
Definition	Average Seed Skip Percentage calculated from measured seed
	spacing using ISO 7256-1 "Miss Index" algorithm. The value is the
	average for a Task.
Comment	Reference ISO 7256-1 "Miss Index" for details on the standardized
	method for calculating a percentage. The number of seed drops for
	calculating this real-time percentage is not specified due to the
	possible differences in measurement and performance of the
	equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	3
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	419 - Actual Seed Multiple Percentage
Definition	Actual Seed Multiple Percentage calculated from measured seed
	spacing using ISO 7256-1 "Multiples Index" algorithm.
Comment	Reference ISO 7256-1 "Multiples Index" for details on the
	standardized method for calculating a percentage. The number of
	seed drops for calculating this real-time percentage is not specified
	due to the possible differences in measurement and performance of
	the equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	3
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	420 - Average Seed Multiple Percentage
Definition	Average Seed Multiple Percentage calculated from measured seed
	spacing using ISO 7256-1 "Multiples Index" algorithm. The value is
	the average for a Task.
Comment	Reference ISO 7256-1 "Multiples Index" for details on the
	standardized method for calculating a percentage. The number of
	seed drops for calculating this real-time percentage is not specified
	due to the possible differences in measurement and performance of
	the equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	3
Current Status	Published
Status Date	2018-08-28
Status Comments	

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DD Entity	421 - Actual Seed Spacing Deviation
Definition	Actual Seed Spacing Deviation from setpoint seed spacing
Comment	Deviation is a positive value independently of if distance between
	seeds is smaller or larger than the setpoint value
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	3
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	422 - Average Seed Spacing Deviation
Definition	Average Seed Spacing Deviation from setpoint seed spacing. The
	value is the average for a Task.
Comment	Deviation is a positive value independently of if distance between
	seeds is smaller or larger than the setpoint value
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	3
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	423 - Actual Coefficient of Variation of Seed Spacing Percentage
Definition	Actual Coefficient of Variation of Seed Spacing Percentage
	calculated from measured seed spacing using ISO 7256-1 algorithm
Comment	Reference ISO 7256-1 "Coefficient of Variation" for details on the
	standardized method for calculating a percentage. The number of
	seed drops for calculating this real-time percentage is not specified
	due to the possible differences in measurement and performance of
	the equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	3
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	424 - Average Coefficient of Variation of Seed Spacing
	Percentage
Definition	Average Coefficient of Variation of Seed Spacing Percentage
	calculated from measured seed spacing using ISO 7256-1 algorithm.
	The value is the average for a Task.
Comment	Reference ISO 7256-1 "Coefficient of Variation" for details on the
	standardized method for calculating a percentage. The number of
	seed drops for calculating this real-time percentage is not specified
	due to the possible differences in measurement and performance of
	the equipment and seeding rates.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	5
Current Status	Published
Status Date	2018-08-28
Status Comments	

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DD Entity	425 - Setpoint Maximum Allowed Seed Spacing Deviation
Definition	Setpoint Maximum Allowed Seed Spacing Deviation
Comment	Value is for TIM purposes. An acceptable seeding quality range can
	be defined in a task or prescription. Deviation is a positive value
	independently of if distance between seeds is smaller or larger than
	the setpoint value
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Rothmund
Submit Date	2015-03-25
Submit Company	HORSCH
Revision Number	5
Current Status	Published
Status Date	2018-08-28
Status Comments	

DD Entity	426 - Setpoint Downforce as Force
Definition	Setpoint Downforce as Force
Comment	This value represents the system pressure to produce the downforce
	(or upforce) for an operation messured in newton; In case of an
	negative value the system pressure would produce Upforce.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	N - Newton
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Rothmund
Submit Date	2015-09-03
Submit Company	HORSCH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-09-03
Status Comments	

DD Entity	427 - Actual Downforce as Force
Definition	Actual Downforce as Force
Comment	This value represents the actual downforce to produce the downforce
	(or upforce) for an operation messured in newton; In case of an
	negative value the system pressure would produce Upforce.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	N - Newton
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Matthias Rothmund
Submit Date	2015-09-03
Submit Company	HORSCH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-09-03
Status Comments	

DD Entity	428 - Loaded Total Mass
Definition	Accumulated Loads specified as mass, not corrected for the
	reference moisture percentage DDI 184.
Comment	Is a counter of a machine element.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-02
Status Comments	

DD Entity	429 - Unloaded Total Mass
Definition	Accumulated Unloads specified as mass, not corrected for the
	reference moisture percentage DDI 184.
Comment	Is a counter of a machine element.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-02
Status Comments	

DD Entity	430 - Lifetime Loaded Total Mass
Definition	Entire Yield Total Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	

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CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-02
Status Comments	

DD Entity	431 - Lifetime Unloaded Total Mass
Definition	Entire Unloaded Total Mass of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an application controlled by a Task Controller. Therefore this DDE shall
	1
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-02
Status Comments	

DD Entity	432 - Setpoint Application Rate of Nitrogen [N2]
Definition	Setpoint application rate of nitrogen specified as a mass per area
Comment	As a reference the toal amount of nitrogen will be documented with
	DDE353
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647

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Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	433 - Actual Application Rate of Nitrogen [N2]
Definition	Actual application rate of nitrogen specified as a mass per area
Comment	As a reference the toal amount of nitrogen will be documented with
	DDE353
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	MÃ1/4ller-Elektronik
Revision Number	2
Current Status	ISO-Published
Status Date	2021-02-08
Status Comments	Status was published

DD Entity	434 - Minimum Application Rate of Nitrogen [N2]
Definition	Minimum application rate of nitrogen specified as a mass per area
Comment	As a reference the toal amount of nitrogen will be documented with
	DDE353
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	MÃ1/₄ller-Elektronik
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	435 - Maximum Application Rate of Nitrogen [N2]
Definition	Maximum application rate of nitrogen specified as a mass per area
Comment	As a reference the toal amount of nitrogen will be documented with
	DDE353
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	MÃ1/₄ller-Elektronik
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	436 - Setpoint Application Rate of Ammonium
Definition	Setpoint application rate of Ammonium specified as a mass per area
Comment	As a reference the total amount of ammonium will be documented
	with DDE354
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	437 - Actual Application Rate of Ammonium
Definition	Actual application rate of Ammonium specified as a mass per area
Comment	As a reference the total amount of Ammonium will be documented
	with DDE354
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	438 - Minimum Application Rate of Ammonium
Definition	Minimum application rate of Ammonium specified as a mass per area
Comment	As a reference the total amount of ammonium will be documented
	with DDE354
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	439 - Maximum Application Rate of Ammonium
Definition	Maximum application rate of Ammonium specified as a mass per
	area
Comment	As a reference the total amount of ammonium will be documented
	with DDE354
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

440 - Setpoint Application Rate of Phosphor
Setpoint application rate of phosphor specified as a mass per area
As a reference the total amount of phosphor will be documented with
DDE355
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
17 - Sensor System
25 - Slurry Applicators
mg/mÂ <sup>2</sup> - Mass per area unit
1
0 - 2147483647
0 - 2147483647
Jan Steenbock
2015-11-02
Müller-Elektronik GmbH & Co. KG
1
ISO-Published
2015-11-03

DD Entity	441 - Actual Application Rate of Phosphor
Definition	Actual application rate of phosphor specified as a mass per area
Comment	As a reference the total amount of phosphor will be documented with
	DDE355
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	442 - Minimum Application Rate of Phosphor
Definition	Minimum application rate of phosphor specified as a mass per area
Comment	As a reference the total amount of phosphor will be documented with
	DDE355
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	443 - Maximum Application Rate of Phosphor
Definition	Maximum application rate of phosphor specified as a mass per area
Comment	As a reference the total amount of phosphor will be documented with
	DDE355
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	444 - Setpoint Application Rate of Potassium
Definition	Setpoint application rate of potassium specified as a mass per area
Comment	As a reference the toal amount of potassium will be documented with
	DDE356
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-02
Status Comments	

DD Entity	445 - Actual Application Rate of Potassium
Definition	Actual application rate of potassium specified as a mass per area
Comment	As a reference the toal amount of potassium will be documented with
	DDE356
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-02
Submit Company	Müller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	446 - Minimum Application Rate of Potassium
Definition	Minimum application rate of potassium specified as a mass per area
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2016-03-29
Submit Company	MÃ1/₄ller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	447 - Maximum Application Rate of Potassium
Definition	Maximum application rate of potassium specified as a mass per area
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mg/mÂ <sup>2</sup> - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-03
Submit Company	Müller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	448 - Setpoint Application Rate of Dry Matter
Definition	Setpoint application rate of dry matter expressed as percentage
Comment	As a reference the toal amount of dry matter will be documented with
	DDE 357
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steebock
Submit Date	2015-11-03
Submit Company	MÃ1/₄ller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	449 - Actual Application Rate of Dry Matter
Definition	Actual application rate of dry matter expressed as percentage
Comment	As a reference the toal amount of dry matter will be documented with
	DDE 357
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-09-03
Submit Company	Müller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	450 - Minimum Application Rate of Dry Matter
Definition	Minimum application rate of dry matter expressed as percentage
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-03
Submit Company	Müller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	451 - Maximum Application Rate of Dry Matter
Definition	Maximum application rate of dry matter expressed as percentage
Comment	
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Jan Steenbock
Submit Date	2015-11-03
Submit Company	MÃ1/sller-Elektronik GmbH Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	452 - Loaded Total Volume
Definition	Accumulated Loaded Volume specified as volume
Comment	Is a counter of a machine element
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	453 - Unloaded Total Volume
Definition	Accumulated Unloaded Volume specified as volume
Comment	Is a counter of a machine element
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	454 - Lifetime loaded Total Volume
Definition	Entire loaded Volume of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System

Unit Symbol	L - Capacity count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	455 - Lifetime Unloaded Total Volume
Definition	Entire unloaded Volume of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	L - Capacity count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	456 - Last loaded Volume
Definition	Last loaded Volume value specified as volume
Comment	After a loading Procedure, this DDI sends the loaded Volume.
	For more information see attachment located at Last loaded Weight
	DDE320

Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	457 - Last unloaded Volume
Definition	Last unloaded Volume value specified as volume
Comment	After a unloading Procedure, this DDI sends the uloaded Volume.
	For more information see attachment located at Last loaded Weight DDE320
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	458 - Loaded Total Count
Definition	Accumulated Loads specified as count
Comment	Is a counter of a device element
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2

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Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	459 - Unloaded Total Count
Definition	Accumulated Unloaded specified as count
Comment	Task total of a device element. It shall represent the number of
	products being unloaded in one or more unload operations. The
	product itself shall be countable. See Unloaded Total Mass (429) or
	Unloaded Total Volume (453) if the product isn't countable.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	Published
Status Date	2022-08-09
Status Comments	Comment update only!

DD Entity	460 - Lifetime Loaded Total Count
Definition	Entire Loaded Total Count of the device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	17 - Sensor System
Unit Symbol	# - Quantity/Count

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Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

Comment Th app not det	ntire Unloaded Total Count of the device lifetime.  It is is the overall total of the device. This total does not refer to an application controlled by a Task Controller. Therefore this DDE shall be setable within the device description and neither shall the evice reset the value when the task status changes. It is up to the evice control system when to reset this value.
app not de	plication controlled by a Task Controller. Therefore this DDE shall be setable within the device description and neither shall the evice reset the value when the task status changes. It is up to the
not de	that be setable within the device description and neither shall the evice reset the value when the task status changes. It is up to the
de	vice reset the value when the task status changes. It is up to the
	vice control system when to reset this value.
de	
Th	ne Working Set Master shall support the total trigger method for this
DD	DE but shall not support the setable property.
Th	ne Task Controller can request and store this DDE at the end of a
tas	sk. But it shall not set this DDE when the task is resumed.
Typically used by Device 4 -	- Planters /Seeders
Class(es) 7 -	- Harvesters
8 -	- Root Harvester
9 -	Forage harvester
	- Transport / Trailers
14	- Special Crops
17	- Sensor System
Unit Symbol # -	- Quantity/Count
Resolution 1	
SAE SPN	
CANBus Range 0 -	- 2147483647
Display Range 0 -	- 2147483647
Submit by Fra	anz Hoepfinger
Submit Date 20	15-07-24
Submit Company 36	7 - Fliegl Agrartechnik GmbH
Revision Number 2	
Current Status ISC	O-Published
Status Date 20	15-11-03
Status Comments	

DD Entity	462 - Last loaded Count
Definition	Last loaded Count value specified as count
Comment	After a loading Procedure, this DDI sends the loaded Count.
	For more information see attachment located at Last loaded Weight
	DDE320
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1

SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	463 - Last unloaded Count
Definition	Last unloaded Count value specified as count
Comment	After a unloading Procedure, this DDI sends the loaded Count.
	For more information see attachment located at Last loaded Weight
	DDE 320
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-11-03
Status Comments	

DD Entity	464 - Haul Counter
Definition	Each Time a Device Element is filled and emptied this is called a haul
	cycle. This counter counts the cycles
Comment	Is a counter of a device element. Can be used to count filling and
	emptying cycles. To more precisely document what your device
	element is doing, consider to implement DDI 179 Actual Cultural
	Practice as well - even if the device has only one operation.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger

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Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	Published
Status Date	2022-08-09
Status Comments	Comment update only!

DD Entity	465 - Lifetime Haul Counter
Definition	The number of haul cycles done by a machine over its entire lifetime.
	This DDE value can not be set through the process data interface but
	can be requested and added to a datalog. This DDE value is not
	affected by a task based total haul cycles but will increment at the
	same rate as the task based total.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changes. It is up to the
	device control system when to reset this value.
	The Working Set Master shall support the total trigger method for this
	DDE but shall not support the setable property.
	The Task Controller can request and store this DDE at the end of a
	task. But it shall not set this DDE when the task is resumed.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Franz Hoepfinger
Submit Date	2015-07-24
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	2
Current Status	ISO-Published
Status Date	2015-12-14
Status Comments	

DD Entity	466 - Actual relative connector angle
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Definition	The DDI Actual relative connector angle shall be placed in the device
	element of type connector in the DDOP of the TC-SC Client. The
	value describes the actual angle of the longitudinal axis of the
	implement relative to the longitudinal axis of the tractor. This angle
	should be used by the TC-SC server to calculate the real position of
	implement. The TC-SC server may smooth the rendering in any
	proprietary screen.
	The reference system is the coordinate system of the tractor. This
	results in the angles from table 1 of the attachment.
	In case of for example a malfunction sensor the error value is set to
	0xFExxxxxx.
Comment	When working with Section Control it is necessary that the TC-Server
	calculates the exact position of the implement and its boom and
	sections to mark the covered area on its section control screen
	properly. To calculate the positions the TC-SC server uses the x and
	y offsets of the DRP and CRP. This works well for mounted and for
	non-steered trailed implements but comes up against limits when
	implements do have a steering axle or even a steering drawbar
	because the TC-SC server can't know the current steering angle
	and moving the DRP doesn't fit in all means. But this could be
	solved when the TC-SC server would knew the exact angle of the
	implement related to the tractor. This information could be provided
	by the implement because when they have a steering mechanism
	they even have a sensor to measure the angle between tractor and
	implement.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	25 - Slurry Applicators
Unit Symbol	° - Angle
Resolution	0,001
SAE SPN	
CANBus Range	-180000 - 180000
Display Range	-180,000 - 180,000
Submit by	Thomas Konermann
Submit Date	2015-07-27
Submit Company	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
Revision Number	2
Current Status	ISO-Published
Status Date	2016-01-25
Status Comments	
Attachment	2015-07-27: - Actual relative connector angle-v1.pdf

DD Entity	467 - Actual Percentage Content
Definition	Actual Device Element Content specified as percent.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0,00 - 100,00
Submit by	Matthias Meyer
Submit Date	2016-06-13
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity 468 - Soil Snow/Frozen Condtion
---

Definition	DDI to document the soil snow / frozen condition.
	Meaning of values:
	0 - Not defined
	1 - Not frozen or snow-covered
	2 - Frozen
	3 - Snow-covered
	>= 4 reserved
	For a detailed definition of each state please see the attached
	document.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Andres Ferreyra / Martin Sperlich
Submit Date	2019-05-28
Submit Company	AgConnections / CLAAS
Revision Number	1
Current Status	Published
Status Date	2019-07-02
Status Comments	
Attachment	2019-07-02: - ISO11783-11-DDI-468-Soil Snow Frozen
	Condition-v1.pdf

DD Entity	469 - Estimated Soil Water Condtion
Definition	DDI to document the estimated soil water condition. Meaning of
	values:
	0 - Not defined
	1 - Dry
	2 - Slightly moist
	3 - Moist
	4 - Very wet
	5 - Saturated
	6 - Inundated
	>= 7 - Reserved
Comment	Find a detailed description for each enum value in the attached
	document.
	To further document ground conditions see also DDI 'Soil
	Compaction.
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 6
Display Range	0 - 6
Submit by	Martin Sperlich / Andres Ferreyra
Submit Date	2018-12-17
Submit Company	CLAAS / AgConnections
Revision Number	1
Current Status	Published
Status Date	2019-07-02
Status Comments	
Attachment	2019-07-02: - ISO11783-11-DDI-469-Estimated Soil Water
	Condition-v1.pdf

DD Entity	470 - Soil Compaction
Definition	DDI to document the soil compaction.
	Meaning of values:
	0 - Not defined
	1 - Loose
	2 - Slightly compacted
	3 - Compacted
	4 - Very compacted
	>= 5 - Reserved
Comment	Find a detailed description for each enum value in the attached
	document. To further document ground conditions see also DDI
	'Estimated Soil Water Condition'.
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	n.a

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Resolution	1
SAE SPN	
CANBus Range	0 - 4
Display Range	0 - 4
Submit by	Martin Sperlich / Andres Ferreyra
Submit Date	2018-12-17
Submit Company	CLAAS / AgConnections
Revision Number	1
Current Status	Published
Status Date	2019-07-02
Status Comments	
Attachment	2019-07-02: - ISO11783-11-DDI-470-Soil Compaction-v1.pdf

DD Entity	471 - Setpoint Cultural Practice
Definition	This DDI is used to define the setpoint cultural practice which is
	performed by an individual device operation. For instance a
	planter/seeder could provide a sowing and a fertilizing operation at
	the same time.
	The cultural practice value definitions are: 0=Unknown, 1=Fertilizing,
	2=Sowing and Planting, 3=Crop Protection, 4=Tillage, 5=Baling
	(Pressing), 6=Mowing, 7=Wrapping, 8=Harvesting, 9=Forage
	Harvesting, 10=Transport, 11=Swathing, 12=Slurry/Manure
	Application, 13=Self-Loading Wagon, 14=Tedding, 15=Measuring,
	16=Irrigation, 17=Feeding/Mixing, 18=Mulching, 19-255=Reserved
	See also DDI 179 Actual Cultural Practice for more information and
	attachment.
Comment	If TC Client has capability of setting and storing cultural practice then
	it may allow TC Server to redefine Cultural Practice for any Control
	channel via Setpoint Cultural Practice (SCP) DDI for respective
	Control channel.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	n.a
Resolution	1
SAE SPN	

CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Rajashri Munot
Submit Date	2021-10-26
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2021-12-01
Status Comments	First version

DD Entity	472 - Setpoint Length of Cut
Definition	Setpoint length of cut for harvested material, e.g. Forage Harvester or
	Tree Harvester.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	Published
Status Date	2020-04-28
Status Comments	Correction bit of bit resolution and Display Range

DD Entity	473 - Minimum length of cut
Definition	Minimum length of cut for harvested material, e.g. Forage Harvester
	or Tree Harvester.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	New Request Submitted
Status Date	2020-04-28
Status Comments	Correction of bit resolution and Display Range

DD Entity	474 - Maximum Length of Cut
Definition	Maximum length of cut for harvested material, e.g. Forage Harvester
	or Tree Harvester.
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,001 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	Published
Status Date	2020-04-28
Status Comments	Correction of bit resolution and Display Range

DD Entity	475 - Setpoint Bale Hydraulic Pressure
Definition	The setpoint value of the hydraulic pressure applied to the sides of
	the bale in the bale compression chamber.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2016-03-21
Status Comments	

DD Entity	476 - Minimum Bale Hydraulic Pressure
Definition	The minimum value of the hydraulic pressure applied to the sides of
	the bale in the bale compression chamber.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2016-03-21
Status Comments	

DD Entity	477 - Maximum Bale Hydraulic Pressure
Definition	The maximum value of the hydraulic pressure applied to the sides of
	the bale in the bale compression chamber.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	Pa - Pressure
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2016-03-21
Status Comments	

DD Entity	478 - Setpoint Flake Size
Definition	Setpoint size of the flake to be produced by the chamber.
Comment	See also DDI 364.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 1000
Display Range	0 - 1000
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2016-03-21
Status Comments	

DD Entity	479 - Minimum Flake Size
Definition	Minimum size of the flake that can be produced by the chamber.
Comment	See also DDI 364.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 1000
Display Range	0 - 1000
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2016-03-21
Status Comments	

DD Entity	480 - Maximum Flake Size
Definition	Maximum size of the flake that can be produced by the chamber.
Comment	See also DDI 364
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 1000
Display Range	0 - 1000
Submit by	Frank Wiebeler
Submit Date	2016-03-21
Submit Company	Maschinenfabrik Bernard Krone GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2016-03-21
Status Comments	

DD Entity	481 - Setpoint Number of Subbales
Definition	Number of smaller bales that shall be included in one bigger bale.
Comment	Defines the number of sub-bales included of a big square bale.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-03-09
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	482 - Last Bale Number of Subbales
Definition	Number of smaller bales included in the latest produced bale.
Comment	This DDI is needed as there might be another bale in the chamber.
	When sending this DDI on dropping the bale on the field, the system
	can define how many subbales are in that specific bale.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
	11 - Transport / Trailers
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-03-09
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	483 - Setpoint Engine Speed
Definition	The setpoint of the rotational speed of the engine.
Comment	The addition of a DDI for such values allows such values to be added
	to the default data set that devices present to a task controller or a
	data logger
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,0000 - 214748,3647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	484 - Actual Engine Speed
Definition	Actual rotational speed of the engine.

Comment	The addition of a DDI for such values allows such values to be added
	to the default data set that devices present to a task controller or a
	data logger.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,0000 - 214748,3647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	485 - Minimum Engine Speed
Definition	The minimum of the rotational speed of the engine.
Comment	The addition of a DDI for such values allows such values to be added
	to the default data set that devices present to a task controller or a
	data logger
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,0000 - 214748,3647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	486 - Maximum Engine Speed
Definition	The maximum of the rotational speed of the engine.

Comment	The addition of a DDI for such values allows such values to be added
	to the default data set that devices present to a task controller or a
	data logger.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,0000 - 214748,3647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	488 - Diesel Exhaust Fluid Tank Percentage Level
Definition	The actual level of the Diesel Exhaust Fluid Tank in percent.
Comment	The addition of a percentage DDI allows such values to be added to
	the default data set that devices present to a task controller or a data
	logger
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0,00 - 100,00
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

Definition	This value describes the maximum ammount of Diesel Exhaust fluid,
	that can be filled into the tank of the machine
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-13
Status Comments	

DD Entity	490 - Maximum Fuel Tank Content
Definition	This value describes the maximum ammount of fuel that can be filled
	into the machines Fuel tank.
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-14
Status Comments	

DD Entity	491 - Fuel Percentage Level
Definition	The actual level of the machine fuel tank in percent.
Comment	

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
, ,	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,00 - 21474836,47
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-14
Status Comments	

DD Entity	492 - Total Engine Hours
Definition	The total time the engine was running when the task was active.
Comment	For the bit resolution and the CANBus range we do harmonize with
	SAE J1939-71 SPN 253 Engine Total Idle Hours
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	h - Hour
Resolution	0,05
SAE SPN	
CANBus Range	0 - 4211081215
Display Range	0,00 - 210554060,75
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	Published
Status Date	2020-05-04
Status Comments	CANBus Range and Display Range correction

DD Entity	493 - Lifetime Engine Hours
Definition	The total time, when the engine was running over the whole lifetime
	of the machine.

Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	h - Hour
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	
Status Date	2016-04-01
Status Comments	

DD Entity	494 - Last Event Partner ID (Byte 1-4)
Definition	Last Event Partner ID as a decimal number of 128bit length.
	This DDI should include the Byte 1-4 of the Last Event Partner ID. It
	should always be sent as Group of 4 DDI's to send all 128 bit
	together. After this a DDI 147 "Log Count― shall be sent.
Comment	Using Methods do determine the Location of a Vehicle or Storage
	which is not equipped with ISOBUS and GPS.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
, ,	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0 - 0xFFFFFFF
Display Range	0 - 0xFFFFFFF
Submit by	Franz Hoepfinger
Submit Date	2016-07-20
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2015-10-11
Status Comments	
Attachment	2016-07-20: - ISO11783-11-DDI-494 Partner ID-v1.pdf

DD Entity	495 - Last Event Partner ID (Byte 5-8)
Definition	Last Event Partner ID as a decimal number of 128bit length.
	This DDI should include the Byte 5-8 of the Last Event Partner ID. It should always be sent as Group of 4 DDI's to send all 128 bit
	together. After this a DDI 147 "Log Count― shall be sent.
Comment	Using Methods do determine the Location of a Vehicle or Storage
	which is not equipped with ISOBUS and GPS. See also DDI 494
	attachment.

Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0x0000000 - 0xFFFFFFF
Display Range	0x0000000 - 0xFFFFFFF
Submit by	Franz Hoepfinger
Submit Date	2015-10-11
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	3
Current Status	ISO-Published
Status Date	2016-06-15
Status Comments	

DD Entity	496 - Last Event Partner ID (Byte 9-12)
Definition	Last Event Partner ID as a decimal number of 128bit length.
	This DDI should include the Byte 9-12 of the Last Event Partner ID. It
	should always be sent as Group of 4 DDI's to send all 128 bit
	together. After this a DDI 147 "Log Count― shall be sent.
Comment	Using Methods do determine the Location of a Vehicle or Storage
	which is not equipped with ISOBUS and GPS.
	See also DDI 494 attachment.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0x00000000 - 0xFFFFFFF
Display Range	0x00000000 - 0xFFFFFFF
Submit by	Franz Hoepfinger
Submit Date	2015-10-11
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	3
Current Status	ISO-Published
Status Date	2016-06-15

DD Entity	497 - Last Event Partner ID (Byte 13-16)
Definition	Last Event Partner ID as a decimal number of 128bit length.
	This DDI should include the Byte 13-16 of the Last Event Partner ID.
	It should always be sent as Group of 4 DDI's to send all 128 bit
	together. After this a DDI 147 "Log Count― shall be sent.
Comment	Using Methods do determine the Location of a Vehicle or Storage
	which is not equipped with ISOBUS and GPS.
	See also DDI 494 attachment.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System

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Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0x00000000 - 0xFFFFFFF
Display Range	0x00000000 - 0xFFFFFFF
Submit by	Franz Hoepfinger
Submit Date	2015-10-11
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	3
Current Status	ISO-Published
Status Date	2016-06-15
Status Comments	

DD Entity	498 - Last Event Partner ID Type
Definition	Defines The Type of the Partner ID Device. See Attatchment for
	Definition.
Comment	See also DDI 494 attachment.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0x00000000 - 0xFFFFFFF
Display Range	0x00000000 - 0xFFFFFFF
Submit by	Franz Hoepfinger
Submit Date	2015-10-11
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	4
Current Status	ISO-Published
Status Date	2016-06-20
Status Comments	Status was published

DD Entity	499 - Last Event Partner ID Manufacturer ID Code
Definition	The Partner ID has to tell its Manufacturer, and the Manufacturer
	Numbers from SAE J1939 / ISO 11783 shall be used.
Comment	Remark: This is not the Manufacturer of the ISOBUS ECU sending
	this DDI to the Task-Controller, but the Manufacturer of the
	"Partner― Device.
	See also DDI 494 attachment.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	0x00000000 - 0xFFFFFFF
Display Range	0x00000000 - 0xFFFFFFF
Submit by	Franz Hoepfinger

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Submit Date	2015-10-11
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	4
Current Status	ISO-Published
Status Date	2016-06-20
Status Comments	Status was published

DD Entity	500 - Last Event Partner ID Device Class
Definition	This DDI should tell the Device Class of the "Partner― Device.
Comment	Look at DDI 494 attachment to get the device class details.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0x00000000 - 0xFFFFFFF
Display Range	0x00000000 - 0xFFFFFFF
Submit by	Franz Hoepfinger
Submit Date	2015-10-11
Submit Company	367 - Fliegl Agrartechnik GmbH
Revision Number	4
Current Status	ISO-Published
Status Date	2016-06-20
Status Comments	Status was published

DD Entity	501 - Setpoint Engine Torque
Definition	The setpoint of the engine torque.
Comment	The addition of a DDI for such values allows such values to be added
	to the default data set that devices present to a task controller or a
	data logger.

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2016-04-01
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	5
Current Status	ISO-Published
Status Date	2016-06-28
Status Comments	

DD Entity	502 - Actual Engine Torque
Definition	The current torque of the engine.
Comment	The addition of a DDI for such values allows such values to be added
	to the default data set that devices present to a task controller or a
	data logger
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0,000 - 2147483,647
Submit by	
Submit Date	2016-04-01
Submit Company	
Revision Number	2
Current Status	ISO-Published
Status Date	2016-06-28
Status Comments	

DD Entity	503 - Minimum Engine Torque
Definition	The minimum value of the engine torque

Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2016-06-28
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-28
Status Comments	

DD Entity	504 - Maximum Engine Torque
Definition	The maximum value of the engine torque
Comment	
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Frank Wiebeler
Submit Date	2016-06-28
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-06-28
Status Comments	

DD Entity	505 - Tramline Control Level
Definition	This DDI defines the Tramline Control capability of the Implement.

Comment	The Implement shall provide in its root DeviceElement which
Comment	i i
	Tramline Control Levels are supported. The Tramline Control Levels
	are independent of each other. It is allowed to support for example
	only Level 3 Tramlining.
	Byte 1 Bit 0 = 1 Support Tramline Control Level 1
	Byte 1 Bit 1 = 1 Support Tramline Control Level 2
	Byte 1 Bit 2 = 1 Support Tramline Control Level 3
	Byte 1 Bit 3-7 = 0 Reserved
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 7
Display Range	0 - 7
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	3
Current Status	Published
Status Date	2023-05-17
Status Comments	added new attachment version 1.14
Attachment	2023-05-17: added version 1.14 -
	TramlineControl BasicRequirements v1.14-v1.pdf

DD Entity	506 - Setpoint Tramline Control Level
Definition	This DDI defines the Tramline Control capability of the Task
	Controller that is used with the appropriate Implement.
Comment	The Task Controller shall send this value to inform the Implement
	which Tramline Control Level shall be used to operate. In case there
	is no match between the supported Tramline Control Level on the
	Task Controller Server side and the Implement, the Task Controller
	shall inform the Implement by setting the Setpoint Tramline Control
	Level to 0.
	This is the response to the Tramline Control Level DDI.
	0 No common Level
	1 Tramline Control Level 1
	2 Tramline Control Level 2
	3 Tramline Control Level 3
	4-255 Reserved for future Assignment
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01

DD Entity	507 - Tramline Sequence Number
Definition	This DDI defines a group of DDIs which belong together.

Comment	In order to ensure that the parameters "Unique A-B Guidance
Commont	Reference Line ID―, "Actual Track Number―, "Track
	Number to the right― and "Track Number the left― are
	belonging together, the Tramline Sequence Number is needed. This
	parameter has to be sent from the Tramline Controller to indicate a
	new Tramline Sequence to the Implement. This number shall start
	with value 1 and increase on every new Tramline Sequence which is
	going to be sent.
	These Parameters are only allowed to be sent in a group, except the
	Unique A-B Guidance Reference Line ID. If one of the parameters is
	missing, the Tramline Sequence would be invalid. In case the Unique
	A-B Guidance Reference Line ID shall be part of the Tramline
	Sequence, this value shall be sent as first value after the Tramline
	Sequence Number and before other values.
	It is recommended to send all values belonging to one Tramline
	Sequence within 500 ms.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	
	<del></del>

DD Entity	508 - Unique A-B Guidance Reference Line ID
Definition	This DDI defines a unique ID to identify which Guidance Reference
	Line is the base for the Tramline calculation.
Comment	A field could have more than one Guidance Reference Line. For
	example the field could have a Guidance Reference Line for the
	headland and also another Guidance Reference Line for the main
	field. To distinguish between the several Guidance Reference Lines a
	Guidance Reference Line ID is used. This unique ID identifies which
	Guidance Reference Line is the base for the Tramline calculation.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	509 - Actual Track Number
Definition	This DDI defines a unique number of the Guidance Track the
	Implement is currently located on.
Comment	The Actual Track Number is the unique Number of the Guidance
	Track the Implement is currently located on. This number is provided
	by the Guidance System.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01

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2024-06-25

# **ISOBUS Data Dictionary**

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Status Comments	

DD Entity	510 - Track Number to the right
Definition	This DDI defines a unique number of the Guidance Track to right
	hand side in direction of Implement orientation.
Comment	This is the Guidance Track Number to right hand side in direction of
	Implement orientation. If the Track Number to the right is higher than
	the Actual Track Number, then the Implement is in the same direction
	as the A-B reference line. The Implement orientation is independent
	of the driving direction of the Implement. This value is provided by the
	Guidance System.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	511 - Track Number to the left
Definition	This DDI defines a unique number of the Guidance Track to left hand
	side in direction of Implement orientation.
Comment	This is the Guidance Track Number to left hand side in direction of
	Implement orientation
	This value may be used in addition to the Track Number to the right
	for differentiating between the two Guidance Track 0 Numbers (0R
	and 0L). This value is needed, because there are two cases where
	the Actual Track Number and the Track Number to the right are both
	0. This value is provided by the Guidance System.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10

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Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	512 - Guidance Line Swath Width
Definition	The Swath Width is the Distance between two adjacent Guidance
	Lines in a Guidance Pattern.
Comment	The User may prefer to choose a distance between two adjacent
	Guidance Lines which is a little smaller or bigger than the Seeder
	Working Width. The Implement may use this information to apply
	correction on its Tramline calculation.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	513 - Guidance Line Deviation
Definition	Deviation of the Device-Reference-Point (DRP) to the actual
	guidance line, in driving direction.
Comment	This DDI shall be sent from the Guidance System or Task Controller.
	It specifies the Deviation in mm between the current Guidance Line
	and the Device Reference Point which is guided along the Guidance
	Line.
	The Guidance Line Deviation is positive when the Guidance Line is
	located on the right hand side of the Device Reference Point in
	driving direction.
	The Guidance Line Deviation is negative when the Guidance Line is
	located on the left hand side of Device Reference Point in driving
	direction.
	For more details see also attachment on DDI 505.

Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	514 - GNSS Quality
Definition	GNSS Quality Identifier to inform the implement about the used
	Position Status.
Comment	This DDI shall be sent from the Guidance System or Task Controller
	to the implement. It specifies the quality of the GNSS which is used
	by the Guidance System or Task Controller.
	Definition references NMEA2000 Method GNSS parameter as also
	mentioned in ISO11783-10.
	For more details see also attachment on DDI 505.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	515 - Tramline Control State
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Definition	Specifies the actual state of Tramline Control.
	The value definitions are:
	Byte 1 Bits 0-1 = 00 manual/off
	Byte 1 Bits 0-1 = 01 automatic/on
	Byte 1 Bits 0-1 = 10 error
	Byte 1 Bits 0-1 = 11 undefined/not supported
	Byte 1 Bits 2-7 reserved, set to 0.
	The DDI shall support the OnChange trigger so that the Task
	Controller is able to get informed when the value gets changed by the
	Working Set Master. The Task Controller shall activate this trigger
	when using the DDI.
Comment	The Tramline Control State has the same purpose and definition like
	the Section Control State DDI 160.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 3
Display Range	0 - 3
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	
·	

DD Entity	516 - Tramline Overdosing Rate
Definition	Overdosing Rate for the rows adjacent to the Tramline Track.
Comment	This DDI specifies the Overdosing Rate for the rows adjacent to the
	Tramline Tracks. This value is specified in ppm. The value 1.000.000
	(100%) is the normal rate. A value > 100% means that a overdosing
	is applied.
	In case of a seeding distance, the implement should calculate the
	overdosing based on seeds per area and recalculate that value to an
	overdosing seeding rate.
	Background: If the seeding distance is just multiplied with the
	overdosing rate, the seeding distance will increase which leads to
	less seed on the field!
	Example: In the case the seeding distance is specified the overdosing
	rate will result in a shorter seed distance. A seeding distance of 20,00
	cm with an overdosing rate of 110% will result in a seed distance of
	18,18cm for the rows adjacent to the Tramline Tracks.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	ppm - Parts per million
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-01
Status Comments	

DD Entity	517 - Setpoint Tramline Condensed Work State (1-16)
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
2 0	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 1 to 16 into
	a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 1-16 has the same
Commont	purpose and definition like the Setpoint Condensed Work State 1-16
	DDI 290.
	351255.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	2
Current Status	Published
Status Date	2020-05-04
Status Comments	Brackets (1-16) added

DD Entity	518 - Actual Tramline Condensed Work State (1-16)
Definition	Combination of the Actual States of individual Tramline Valves
	number 1 to 16 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 1-16 has the same
	purpose and definition like the Actual Condensed Work State 1-16
	DDI 161.
	For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	2
Current Status	Published
Status Date	2020-05-04
Status Comments	Brackets (1-16) added

DD Entity	519 - Last Bale Lifetime Count
Definition	The Lifetime Bale Count of the bale that leaves the machine.
	The value shall be equal to the Lifetime Bale Count that was reported
	when this bale is knotted.

Comment	The recommended use of this DDE is for a baler to report this once
Comment	·
	for every bale that leaves the machine. A baler can add this to its
	default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE when the bale leaves the
	machine. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale leaves the machine. The value shall be equal to the Lifetime
	Bale Count that was reported when this bale is knotted.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2016-06-06
Submit Company	Maschinenfabrik Bernard Krone
Revision Number	1
Current Status	ISO-Published
Status Date	2016-09-19
Status Comments	
X	

DD Entity	520 - Actual Canopy Height
Definition	Actual height of the canopy above ground.
Comment	
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	9 - Forage harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Joe Tevis
Submit Date	2016-10-04
Submit Company	Topcon Precision Ag
Revision Number	2
Current Status	ISO-Published
Status Date	2018-06-18
Status Comments	Status was published

DD Entity	521 - GNSS Installation Type
Definition	The GNSS Installation Type DDE is used by the device to provide
	additional information about the type and location of the GPS receiver
	with reference to the overall system.
	Additional information are required especially when more than one
	GNSS receiver is installed on the system.
	The GPS Installation Type value is an instance enumeration with the
	following definitions:
	0 = Unknown
	1 = Tractor integrated antenna
	2 = Tractor universal antenna (removable)
	3 = First Implement antenna
	4 = Second Implement antenna
	5 = Display integrated antenna
	6 to 100 Reserved
Comment	Today some devices are equipped with more than one GPS receivers
	for certain applications. In this case both do have different offset
	defined and therefore an application need to be able to identify each
	receiver clearly. This DDI does provide the possibility to add these
	additional information below the appropriate device element.

	1
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 100
Display Range	0 - 100
Submit by	Meyer Matthias
Submit Date	2016-10-17
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2016-11-28
Status Comments	

DD Entity	522 - Twine Bale Total Count
Definition	The total number of twine bound product units for which Twine
	binding method was used during operation.
Comment	Twine Total Count can be used as total counter of a device element.
	It is intended to be used as task based and therefore it is
	recommended to support the on-time and on-change trigger methods.
	The total trigger method and the setable property are required for this DDE.
	Note, there is a preferred duplicate DDI 683!
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Elshout
Submit Date	2017-01-26
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	Published
Status Date	2024-02-05
Status Comments	Added hint into comment to other DDI 683

DD Entity	523 - Mesh Bale Total Count (Deprecated)
Definition	The total number of mesh bound product units for which mesh
	binding method was used during operation.
Comment	Mesh Total Count can be used as total counter of a device element. It
	is intended to be used as task based and therefore it is
	recommended to support the on-time and on-change trigger methods.
	The total trigger method and the setable property are required for this
	DDE. Note, there is a preferred duplicate DDI 682!
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Elshout
Submit Date	2017-01-26
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	Published
Status Date	2024-02-05

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Status Comments	Added hint into comment to other DDI 682
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DD Entity	524 - Lifetime Twine Bale Total Count (Deprecated)
Definition	Entire total number of twine bound product units for which Twine
	binding method was used during operation, of a device lifetime
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE but shall
	not support the setable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed.
	Note, there is a preferred duplicate DDI 687!
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Elshout
Submit Date	2017-01-26
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	3
Current Status	Published
Status Date	2024-02-05
Status Comments	Added hint into comment to other DDI 687

DD Entity	525 - Lifetime Mesh Bale Total Count (Deprecated)
Definition	Total number of mesh bound product units for which mesh binding
	method was used during operation, of a device lifetime
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE but shall
	not support the setable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed. Note, there is a preferred duplicate DDI
	686!
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647

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Display Range	0 - 2147483647
Submit by	Frank Elshout
Submit Date	2017-01-26
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	2
Current Status	Published
Status Date	2024-02-05
Status Comments	Added hint into comment to other DDI 686

526 - Actual Cooling Fluid Temperature
The actual temperature of the cooling fluid for the machine.
The addition of a DDI for such values allows such values to be added
to the default data set that devices present to a task controller or a
data logger. If not specially defined within a certain function the
assumption is that this DDI represents the engine cooling fluid
temperature.
- Not Assigned
0 - Non-specific system
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
11 - Transport / Trailers
12 - Farmyard Work
13 - Powered Auxilary Units
14 - Special Crops
15 - Municipal Work
17 - Sensor System
18 - Reserved for Future Assignment
19 - Timber Harvesters
20 - Forwarders
21 - Timber loaders
22 - Timber Processing Machines
23 - Mulchers
24 - Utility Vehicles
25 - Slurry Applicators
26 - Feeder / Mixer
mK - Temperature
1
0 - 2147483647
0 - 2147483647
Frank Wiebeler
2016-04-01
Maschinenfabrik Bernard Krone
1
ISO-Published
2017-06-12

DD Entity	528 - Last Bale Capacity
Definition	The capacity of the bale that leaves the machine.
	The mass used for calculation should be DDI 223 (Last Bale Mass).
	The time used for calculation should be the amount of time needed to
	produce the bale.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that leaves the machine. A baler can add this to its
	default set of data, based on an internal on-change data trigger that
	causes the baler to report the value of this DDE when the bale leaves
	the machine. The recommendation for data logging is that all "Last
	Bale" DDEs that are supported by a device are reported together at
	the moment that the bale leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	kg/h - Mass per hour unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Lynn Derynck
Submit Date	2017-03-23
Submit Company	CNH Industrial N.V.
Revision Number	1
Current Status	Published
Status Date	2017-11-20
Status Comments	

DD Entity	529 - Setpoint Tillage Disc Gang Angle
Definition	Setpoint Tillage Gang Angle is the pivot angle of the gangs for the
	device element
Comment	This Serpoint Tillage Gang Angle value represent the angle a tillage
	disk or disk gang is set to increase or decrease aggressiveness.
	Typical disk angle is measured perpendicular to implement direction.
	A single disk angle value typically represents a singular coordinate
	system where a single value represents an angle offset from the
	perpendicular plane in each quadrant.
	See the attachment for more detailed information.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
Unit Symbol	° - Angle
Resolution	0,001
SAE SPN	
CANBus Range	-180000 - 180000
Display Range	-180.0 - 180.0
Submit by	Theilen Rick
Submit Date	2017-09-04
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2018-02-14
Status Comments	Status was published
Attachment	2018-02-14: - ISO11783-11-DDI-529-Tillage Gang Angle v 1-v1.pdf

DD Entity	530 - Actual Tillage Disc Gang Angle
Definition	Actual Tillage Gang Angle is the pivot angle of the gangs for the
	device element.
Comment	This Actual Tillage Gang Angle value represent the actual angle of a
	tillage disk or disk gang.
	Typical disk angle is measured perpendicular to implement direction.
	A single disk angle value typically represents a singular coordinate
	system where a single value represents an angle offset from the
	perpendicular plane in each quadrant.
	See the attachment for more detailed information.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
Unit Symbol	° - Angle
Resolution	0,001
SAE SPN	
CANBus Range	-180000 - 180000
Display Range	-180.0 - 180.0
Submit by	Theilen Rick
Submit Date	2017-09-04
Submit Company	John Deere
Revision Number	1

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Current Status	Published
Status Date	2018-02-14
Status Comments	

DD Entity	531 - Actual Applied Preservative Per Yield Mass
Definition	This DDI shall describe the actual applied preservative per harvested
	yield mass.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	Published
Status Date	2018-03-19
Status Comments	

DD Entity	532 - Setpoint Applied Preservative Per Yield Mass
Definition	The desired volume of preservative per harvested yield mass
Comment	

Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published

DD Entity	533 - Default Applied Preservative Per Yield Mass
Definition	The default volume of preservative applied per harvested yield mass
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	Published
Status Date	2018-03-19
Status Comments	

DD Entity	534 - Minimum Applied Preservative Per Yield Mass
Definition	The minimum setable value, the preservative system is able to
	control the flow of preservative.
Comment	

Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published

DD Entity	535 - Maximum Applied Preservative Per Yield Mass
Definition	The maximum volume, the preservative system can apply to the
	harvested yield in a controled way
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	15 - Municipal Work
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm³/kg - Capacity per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published

DD Entity	536 - Total Applied Preservative
Definition	The total volume of applied preservative, respectively silage additive
	in this task.
Comment	

Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	26 - Feeder / Mixer
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	Published
Status Date	2023-04-27
Status Comments	Added, respectively silage additive to the definition.

DD Entity	537 - Lifetime Applied Preservative
Definition	The total applied volume of preservative in the lifetime of the machine
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	12 - Farmyard Work
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	26 - Feeder / Mixer
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published
Jiaius Cumments	Otatus was published

DD Entity	538 - Average Applied Preservative Per Yield Mass
Definition	The average volume per mass for this task.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	26 - Feeder / Mixer
Unit Symbol	mm³/kg - Capacity per mass unit

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Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published

DD Entity	539 - Actual Preservative Tank Volume
Definition	The actual volume inside the preservative tank.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	24 - Utility Vehicles
	26 - Feeder / Mixer
Unit Symbol	ml - Capacity large
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published

DD Entity	540 - Actual Preservative Tank Level	
Definition	The percentage level of the preservative tank.	
Comment		
Typically used by Device	7 - Harvesters	
Class(es)	8 - Root Harvester	
	9 - Forage harvester	
	11 - Transport / Trailers	
	14 - Special Crops	
	15 - Municipal Work	
	17 - Sensor System	
	19 - Timber Harvesters	
	20 - Forwarders	
	21 - Timber loaders	
	22 - Timber Processing Machines	
	24 - Utility Vehicles	
	26 - Feeder / Mixer	
Unit Symbol	ppm - Parts per million	
Resolution	1	

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SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Frank Wiebeler
Submit Date	2017-08-01
Submit Company	Maschinenfabrik Bernard Krone GmbH&CO KG
Revision Number	1
Current Status	ISO-Published
Status Date	2018-03-19
Status Comments	Status was published

DD Entity	541 - Actual PTO Speed
Definition	Actual Speed of the Power Take-Off (PTO)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2018-06-25
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-07-11
Status Comments	

DD Entity	542 - Setpoint PTO Speed
Definition	The desired Speed of the Power Take-Off (PTO)
Comment	

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	<u>'</u>
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2018-06-25
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-07-11
Status Comments	

DD Entity	543 - Default PTO Speed
Definition	The default Speed of the Power Take-Off (PTO)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2018-06-25
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-07-11
Status Comments	

DD Entity	544 - Minimum PTO Speed
Definition	The minimum Speed of the Power Take-Off (PTO)
Comment	

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2018-06-25
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-07-11
Status Comments	

DD Entity	545 - Maximum PTO Speed
Definition	The maximum Speed of the Power Take-Off (PTO)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	r/min - Revolutions per minute
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2018-06-25
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-07-11
Status Comments	

DD Entity	546 - Lifetime Chopping Engagement Total Time
Definition	Entire Chopping Engagement Total Time of the device lifetime.

Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE but shall
	not support the setable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	s - Time count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2018-06-25
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-07-11
Status Comments	

DD Entity	547 - Setpoint Bale Compression Plunger Load (N)
Definition	The setpoint bale compression plunger load expressed as Newton.
Comment	This value is measured / controlled for each new flake that entered
	the baler chamber and obtained at the rear dead end of the plunger.
	This DDI is also available with a unit of ppm, see DDI 218.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	N - Newton
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2018-08-30
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2018-08-30
Status Comments	

DD Entity	548 - Actual Bale Compression Plunger Load (N)
Definition	The actual bale compression plunger load expressed as Newton.
Comment	This is the plunger load measured at the rear dead end of the plunger
	cycle and only updated for each new flake that has entered the baler
	chamber. This DDI is also available with a unit of ppm, see DDI 219.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	N - Newton
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2018-08-30
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2018-08-30
Status Comments	

DD Entity	549 - Last Bale Average Bale Compression Plunger Load (N)
Definition	The average bale compression plunger load for the most recently
	produced bale expressed as newton.
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine. This DDI is also available
	with a unit of ppm, see DDI 220.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	N - Newton
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Matthias Meyer
Submit Date	2018-08-30
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2018-08-30
Status Comments	

DD Entity	550 - Ground Cover
Definition	The Ground Cover as an amount of soil that is covered by plants
Comment	Here, the cover of the soil with green plants (chlorophyll) is
	determined. If there are no plants in the field, the cover is 0%, the soil
	is completely covered with plants (leaves), this corresponds to 100%.
	The measurement can be determined as described above via
	sensors / satellites and calculation of biomass indices or via a camera
	system and corresponding image analysis. Soil coverage can now be
	used directly to the online application or to create prescription maps.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	17 - Sensor System
	25 - Slurry Applicators
Unit Symbol	% - Percent
Resolution	0,1
SAE SPN	
CANBus Range	0 - 1000

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Display Range	0,0 - 100,0
Submit by	Johann Janker
Submit Date	2018-06-26
Submit Company	Fritzmeier Umwelttechnik GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2018-12-20
Status Comments	

DD Entity	551 - Actual PTO Torque
Definition	Actual Torque of the Power Take-Off (PTO)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	N*m - Newton metre
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2019-02-05
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-02-11
Status Comments	

DD Entity	552 - Setpoint PTO Torque
Definition	The desired Torque of the Power Take-Off (PTO)
Comment	

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
, ,	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	N*m - Newton metre
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2019-02-05
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-02-11
Status Comments	

DD Entity	553 - Default PTO Torque
Definition	The default Torque of the Power Take-Off (PTO)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	N*m - Newton metre
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2019-02-05
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-02-11
Status Comments	

DD Entity	554 - Minimum PTO Torque
Definition	The minimum Torque of the Power Take-Off (PTO)
Comment	

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	N*m - Newton metre
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2019-02-05
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-02-11
Status Comments	
	-

DD Entity	555 - Maximum PTO Torque
Definition	The maximum Torque of the Power Take-Off (PTO)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	N*m - Newton metre
Resolution	0,0001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748,3647
Submit by	Marc-Kevin Doeker
Submit Date	2019-02-05
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-02-11
Status Comments	

DD Entity	556 - Present Weather Conditions

Definition	DDI to document the current weather conditions. Meaning of values:
	1 - sunny/clear
	2 - partly cloudy
	3 - overcast
	4 - rain
	5 - sleet
	6 - snow
Comment	For details and source see attached document.
	See also DDI 'Previous Weather Conditions'.
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	1 - 6
Display Range	1 - 6
Submit by	Martin Sperlich / Andres Ferreyra
Submit Date	2018-12-17
Submit Company	CLAAS / AgConnectios
Revision Number	1
Current Status	Published
Status Date	2019-03-11
Status Comments	
Attachment	2019-03-11: - ISO11783-11-DDI-556-Present Weather
	Conditions-v1.pdf

DD Entity	557 - Setpoint Electrical Current
Definition	Setpoint electrical Current of a Device Element
Comment	similar to "56 - Setpoint Seeding Depth"
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	A - Electrical current
Resolution	0,005
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 10737418,235
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-11
Status Comments	

DD Entity	558 - Actual Electrical Current
Definition	Actual Electrical Current of Device Element
Comment	similar to "57 - Actual Seeding Depth"
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	A - Electrical current
Resolution	0,005
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 10737418,235
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-11
Status Comments	

DD Entity	559 - Minimum Electrical Current
Definition	Minimum electrical Current of Device Element
Comment	supplied by device as physical minimum
	similar to "59 - Minimum Seeding Depth"
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	A - Electrical current
Resolution	0,005
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 10737418,235
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-11
Status Comments	

DD Entity	560 - Maximum Electrical Current
Definition	Maximum electrical Current of Device Element
Comment	supplied by device as physical minimum
	similar to "60 - Maximum Seeding Depth"
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	A - Electrical current
Resolution	0,005
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 10737418,235
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-11
Status Comments	

DD Entity	561 - Default Electrical Current
Definition	Default electrical current of Device Element
Comment	The value which will be used by the device if not set through the Task
	Controller.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	A - Electrical current
Resolution	0,005
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 10737418,235
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	562 - Setpoint Voltage
Definition	Setpoint Voltage of a Device Element
Comment	similar to "56 - Setpoint Seeding Depth"
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	V - Electrical voltage
Resolution	0,001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	563 - Default Voltage
Definition	Default Voltage of a Device Element
Comment	The value that will be used by the device if not set through the TC.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	V - Electrical voltage
Resolution	0,001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	564 - Actual Voltage
Definition	Actual Voltage of a Device Element
Comment	
Typically used by Device	27 - Weeders
Class(es)	
Unit Symbol	V - Electrical voltage
Resolution	0,001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	2
Current Status	Published
Status Date	2023-03-28
Status Comments	Added Weeders as device class

DD Entity	565 - Minimum Voltage
Definition	Minimum Voltage of a Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	V - Electrical voltage
Resolution	0,001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	566 - Maximum Voltage
Definition	Maximum Voltage of a Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	V - Electrical voltage
Resolution	0,001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	567 - Actual Electrical Resistance
Definition	Actual Electrical Resistance of Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	Ohm - Electrical resistance
Resolution	0,01
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 21474836,47
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	568 - Setpoint Electrical Power
Definition	Setpoint Electrical Power of Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	W - Electrical Power
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	569 - Actual Electrical Power
Definition	Actual Electrical Power of Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	W - Electrical Power
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	570 - Default Electrical Power
Definition	Default Electrical Power of Device Element
Comment	The value that will be used by the device it not set by the TC.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	W - Electrical Power
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	571 - Maximum Electrical Power
Definition	Maximum Electrical Power of Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	W - Electrical Power
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	572 - Minimum Electrical Power
Definition	Minimum Electrical Power of Device Element
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	W - Electrical Power
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-12
Status Comments	

DD Entity	573 - Total Electrical Energy
Definition	Accumulated Electrical Energy Consumption as a Task Total.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	kWh - Electrical energy
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-14
Status Comments	

DD Entity	574 - Setpoint Electrical Energy per Area Application Rate
Definition	Setpoint Electrical Energy Application Rate specified as kWh per area
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	kWh/mÂ <sup>2</sup> - Electrical energy per area
Resolution	0,000001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214,7483647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	575 - Actual Electrical Energy per Area Application Rate
Definition	Actual Electrical Energy Application Rate specified as kWh per area
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	kWh/m² - Electrical energy per area
Resolution	0,0000001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214,7483647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	ISO-Published
Status Date	2019-03-15
Status Comments	Status was published

DD Entity	576 - Maximum Electrical Energy per Area Application Rate
Definition	Maximum Electrical Energy Application Rate specified as kWh per
	area
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	kWh/m² - Electrical energy per area
Resolution	0,0000001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214,7483647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	2
Current Status	Published
Status Date	2021-01-11
Status Comments	Typo fixed

DD Entity	577 - Minimum Electrical Energy per Area Application Rate
Definition	Minimum Electrical Energy Application Rate specified as kWh per
	area
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	kWh/m² - Electrical energy per area
Resolution	0,0000001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214,7483647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	578 - Setpoint Temperature
Definition	Setpoint Temperature of Device Element specified as milli Kelvin
Comment	Setpoint Temperature of Device Element like a Motor, Engine,
	inverter, etc.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	579 - Actual Temperature
Definition	Actual Temperature of Device Element specified as milli Kelvin
Comment	Actual Temperature of Device Element like a Motor, Engine, inverter,
	etc.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	580 - Minimum Temperature
Definition	Minimum Temperature of Device Element specified as milli Kelvin
Comment	Minimum Temperature of Device Element like a Motor, Engine,
	inverter, etc.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Franz Hoepfinger
Submit Date	2019-03-15
Submit Company	Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	581 - Maximum Temperature
Definition	Maximum Temperature of Device Element specified as milli Kelvin
Comment	Maximum Temperature of Device Element like a Motor, Engine,
	inverter, etc.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Franz Hoepfinger
Submit Date	2019-03-15
Submit Company	Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	582 - Default Temperature
Definition	Default Temperature of Device Element specified as milli Kelvin
Comment	Default Temperature of Device Element like a Motor, Engine, inverter,
	etc.
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Franz Hoepfinger
Submit Date	2019-03-15
Submit Company	Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-15
Status Comments	

DD Entity	583 - Setpoint Frequency
Definition	Setpoint Frequency of Device Element specified as Hz
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	Hz - Electrical frequency
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-18
Status Comments	

DD Entity	584 - Actual Frequency
Definition	Actual Frequency of Device Element specified as Hz
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	Hz - Electrical frequency
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-18
Status Comments	

DD Entity	585 - Minimum Frequency
Definition	Minimum Frequency of Device Element specified as Hz
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	Hz - Electrical frequency
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-18
Status Comments	

DD Entity	586 - Maximum Frequency
Definition	Maximum Frequency of Device Element specified as Hz
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	Hz - Electrical frequency
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Franz Hoepfinger
Submit Date	2019-02-15
Submit Company	973 - Zasso GmbH
Revision Number	1
Current Status	Published
Status Date	2019-03-18
Status Comments	

DD Entity	587 - Previous Rainfall
Definition	DDI to document past rainfall conditions.
	Meaning of values:
	1 - no rain in the last month
	2 - no rain in the last week
	3 - no rain in the last 24 hours
	4 - rainy without heavy rain in the last 24 hours
	5 - heavier rain for some days or rainstorm in the last 24 hours
	6 - prolonged rainfall or snowmelt
Comment	For details and source see attached document.
	See also DDI 'Present Weather Conditions'.
Typically used by Device	0 - Non-specific system
Class(es)	
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	1 - 6
Display Range	1 - 6
Submit by	Martin Sperlich / Andres Ferreyra
Submit Date	2018-12-17
Submit Company	CLAAS / AgConnections
Revision Number	1
Current Status	Published
Status Date	2019-04-29
Status Comments	
Attachment	2019-04-29: - Previous Rainfall-v1.pdf

DD Entity	588 - Setpoint Volume Per Area Application Rate as [ml/m²]
Definition	Setpoint Application Rate specified as volume per area for High
	Flows as [mm³/m²]
Comment	New DDI which supports higher flows is being needed. Use case:
	Manure Application with 28000 gal/acre
Typically used by Device	10 - Irrigation
Class(es)	25 - Slurry Applicators
Unit Symbol	ml/m² - Capacity per area large
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Stefan Welsch
Submit Date	2019-04-12
Submit Company	33 - John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2019-05-02
Status Comments	Status was published

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DD Entity	589 - Actual Volume Per Area Application Rate as [ml/m²]
Definition	Actual Application Rate specified as volume per area for High Flows
	as [ml/m²]
Comment	New DDI Request for high flow applications.
	Usecase Manure application with 28000 gal/acre
Typically used by Device	10 - Irrigation
Class(es)	25 - Slurry Applicators
Unit Symbol	ml/m² - Capacity per area large
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Stefan Welsch
Submit Date	2019-04-12
Submit Company	33 John Deere
Revision Number	1
Current Status	Published
Status Date	2019-05-02
Status Comments	

DD Entity	590 - Minimum Volume Per Area Application Rate as [ml/m²]
Definition	Minimum Application Rate specified as volume per area for High
	Flows as [ml/m²]
Comment	DDI which supports higher flows is being needed. Use case: Manure
	Application with 28000 gal/acre
Typically used by Device	10 - Irrigation
Class(es)	25 - Slurry Applicators
Unit Symbol	ml/m² - Capacity per area large
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Stefan Welsch
Submit Date	2019-05-02
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2019-05-02
Status Comments	

DD Entity	591 - Maximum Volume Per Area Application Rate as [ml/m²]
Definition	Maximum Volume Per Area Application Rate for high flows as
	[ml/m²]
Comment	DDI which supports higher flows is being needed. Use case: Manure
	Application with 28000 gal/acre
Typically used by Device	10 - Irrigation
Class(es)	25 - Slurry Applicators
Unit Symbol	ml/m² - Capacity per area large
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Stefan Welsch
Submit Date	2019-05-02
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2019-05-02
Status Comments	

DD Entity	592 - Default Volume Per Area Application Rate as [ml/m²]
Definition	Default Volume Per Area Application Rate for high flows as [ml/m²]
Comment	DDI which supports higher flows is being needed. Use case: Manure
	Application with 28000 gal/acre
Typically used by Device	10 - Irrigation
Class(es)	25 - Slurry Applicators
Unit Symbol	ml/m² - Capacity per area large
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Stefan Welsch
Submit Date	2019-05-02
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2019-05-02
Status Comments	

DD Entity	593 - Traction Type
Definition	The type of traction system used for a machine.
	0 - unknown
	1 - Two Track
	2 - Four Track
	3 - Wheel
	4 - Front Track, Rear Wheel
	5 - Front Wheel, Rear Track
	>= 6 are reserved for future assignments
Comment	An example use case for Traction Type is a display system with both
	a TC server encountering a tractor and a guidance system that needs
	to know the difference between a wheeled or tracked tractor to
	determine operating parameters.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	24 - Utility Vehicles
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 5
Display Range	0 - 5
Submit by	Nick Linberg
Submit Date	2019-07-09
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2019-08-13
Status Comments	

DD Entity	594 - Steering Type
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Definition	Steering Type DDI is used to define the current active steering type of
	a machine. This information can be used to finetune or adjust system
	behavior or to document which steering type was used during
	operation.
	The current supported steering types are listed below:
	0 unknown
	1 – Articulated
	2 – Differential
	3 - Front wheel
	4 - Rear wheel
	5 - Four wheel
	6 - Differential Front with Active Rear support
	7 – Dog-walk Machine
	>=8 are reserved for future assignments
	>=0 are reserved for ruture assignments
Comment	Steering type reported by device for use by guidance systems.
Comment	Depending on the DDI implementation and machine capabilities the
	Steering Type could change during operation.
	For more details and examples see attachment.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
Class(es)	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers 24 - Utility Vehicles
Unit Cumb al	25 - Slurry Applicators
Unit Symbol	n.a
Resolution SAE SPN	1
	0 - 7
CANBus Range Display Range	0 - 7
Submit by Submit Date	Paul Matthews
	2020-02-10 AGCO
Submit Company Revision Number	
	1 Published
Current Status	Published
Status Date	2020-02-10
Status Comments	First release
Attachment	2020-02-10: - ISO11783-11-DDI-594-Steering Type-v1.pdf

DD Entity	595 - Machine Mode
Definition	This mode does represent the overall current machine mode and
	shall be used only one time within the DDOP below the device
	element of type device.
	If a machine is capable of differentiating between different modes it
	can be indicated by this mode. The value definitions are
	0 = Unknown / Not defined
	1 = Idle
	2 = Field Mode
	3 = Street Mode
	4 = Maintenance
	5 = Filling
	6 = Emptying
	7 = Cleaning
	8 and higher are reserved for future assignments
Comment	In addition to the current workstate, some machines are capable of
	differentiating between different modes. In idle/neutral mode, value 1
	(Idle) should be used. If a machine is in working/field mode, value 2
	(Field Mode) should be indicated. Moving the machine on a
	road/street should be indicated by value 3 (Street Mode). During
	maintenance/servicing, the value 4 (Maintenance) must be selected.
	If the machine is in an unspecified state, value 0 (Unknown / Not
	defined) should be used.
	Note: this mode does not define the Work State of a machine function
	Examples:
	* A sprayer in the field performing a spraying application is in field
	mode. A sprayer at the farm filling the bin is in filling mode
	* A combine harvesting in the field would be in field mode. To indicate
	unloading the harvester bin DDI 240 should be used

Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2019-12-04
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2020-09-21
Status Comments	Added mode 5 to 7; Update definition and comment

DD Entity	596 - Cargo Area Cover State
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Definition	Current state of the Cargo Area Cover. Used to determine whether
2 5	the Cargo Area was covered during transport or other activities.
	The Cargo Area Cover State is a value from -1 to 100 % . The value
	definitions are:
	-1 = Not defined/Unknown
	0 = cover open
	100 = cover fully closed
Comment	Used to determine whether the Cargo Area is covered during
Comment	transport or other activities. If the Cargo Area is not covered, value 0
	(Open) should be used. If the Cargo Area is fully covered, value 100
	(Closed) should be used. If the state changes from open to closed -
	or vice versa - then a value between 1 and 99 (Intermediate Position)
	must be selected. If the status cannot be determined, value -1
	(Unknown / Not defined) should be used.
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage 4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
11.70	26 - Feeder / Mixer
Unit Symbol	% - Percent
Resolution	1
SAE SPN	
CANBus Range	-1 - 100
Display Range	-1 - 100
Submit by	Marc-Kevin Doeker
Submit Date	2019-12-04

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Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2019-12-16
Status Comments	Status was published

DD Entity	597 - Total Distance
Definition	Accumulated Distance (independent of working position and surface)
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2019-11-19
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2019-12-16
Status Comments	Status was published

DD Entity	598 - Lifetime Total Distance
Definition	Entire Total Distance of the device lifetime (independent of working
	position and surface)

Comment  This is the overall total of the device. This total does not refer to an application controlled by a Task Controller. Therefore this DDE shall not be setable within the device description and neither shall the device control system when to reset this value. The Working Set Master shall support the total trigger method for this DDE but shall not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device  Class(es)  - Not Assigned  - Not-Assigned  - Not		
not be setable within the device description and neither shall the device reset the value when the task status changed. It is up to the device control system when to reset this value. The Working Set Master shall support the total trigger method for this DDE but shall not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device  Class(es)  - Not Assigned  - Non-specific system  1 - Tractor  2 - Primary Soil Tillage  3 - Secondary Soil Tillage  4 - Planters / Seeders  5 - Fertilizer  6 - Sprayers  7 - Harvesters  8 - Root Harvester  9 - Forage harvester  10 - Irrigation  11 - Transport / Trailers  12 - Farmyard Work  13 - Powered Auxiliary Units  14 - Special Crops  15 - Municipal Work  17 - Sensor System  18 - Reserved for Future Assignment  19 - Timber Harvesters  20 - Forwarders  21 - Timber loaders  22 - Timber Processing Machines  23 - Mulchers  24 - Utility Vehicles  25 - Slurry Applicators  26 - Feeder / Mixer  Unit Symbol  m - Distance  Resolution  1 - Sensor  CANBus Range  0 - 2147483647  Display Range  10 - Utilished  Status Date  Status Slote	Comment	This is the overall total of the device. This total does not refer to an
device reset the value when the task status changed. It is up to the device control system when to reset this value. The Working Set Master shall support the total trigger method for this DDE but shall not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device  7. Not Assigned  1. Not Assigned  0. Non-specific system  1. Tractor  2. Primary Soil Tillage  3. Secondary Soil Tillage  4. Planters /Seeders  5. Fertilizer  6. Sprayers  7. Harvesters  8. Root Harvester  9. Forage harvester  10. Irrigation  11. Transport / Trailers  12. Farmyard Work  13. Powered Auxilary Units  14. Special Crops  15. Municipal Work  17. Sensor System  18. Reserved for Future Assignment  19. Timber Harvesters  20. Forwarders  21. Timber Harvesters  22. Timber Processing Machines  23. Mulchers  24. Utility Vehicles  25. Slurry Applicators  26. Feeder / Mixer  Unit Symbol  m. Distance  Resolution  1. Special Crops  1. Submit by Marc-Kevin Doeker  Submit by Marc-Kevin Doeker  Submit Date  2019-11-19  Submit Company  Maschinenfabrik Bernard Krone GmbH & Co. KG		application controlled by a Task Controller. Therefore this DDE shall
device control system when to reset this value. The Working Set Master shall support the total trigger method for this DDE but shall not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device  Class(es)  - Not Assigned  - Not Assigned  - Non-specific system  - Tractor  - Primary Soil Tillage  - Permary Soil Tillage  - Planters /Seeders  - Fertilizer  - Sprayers  - Harvesters  - Roth Harvester  - Forage harvester  - Forage harvester  - Primage Auxiliary Units  - Special Crops  - Municipal Work  - Sensor System  - Reserved for Future Assignment  - Timber Harvesters  - Forarders  - Unit Symbol  - Reselution  - Imber Processing Machines  - Jerides  - Feeder / Mixer  Unit Symbol  - Resolution  - Distance  - Resolution  - Display Range  - O - 2147483647  Submit Date  - Supposition Company  - Maschinenfabrik Bernard Krone GmbH & Co. KG  - Revision Number  - Lottus Symbol  - Resolution Bit Sup-Published  - Status Date  - Soley-Life  - Sprayer  - Not Assigned  - Sprayers  - Not Assigned  - Not Assi		not be setable within the device description and neither shall the
Master shall support the total trigger method for this DDE but shall not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device		device reset the value when the task status changed. It is up to the
Master shall support the total trigger method for this DDE but shall not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device		device control system when to reset this value. The Working Set
not support the setable property. The Task Controller can request and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device  Class(es)  - Not Assigned  - Non-specific system  - Tractor  2 - Primary Soil Tillage  3 - Secondary Soil Tillage  4 - Planters /Seeders  5 - Fertilizer  6 - Sprayers  7 - Harvesters  8 - Root Harvester  9 - Forage harvester  10 - Irrigation  11 - Transport / Trailers  12 - Farmyard Work  13 - Powered Auxilary Units  14 - Special Crops  15 - Municipal Work  17 - Sensor System  18 - Reserved for Future Assignment  19 - Timber Harvesters  20 - Forwarders  21 - Timber Hoaders  22 - Timber Plocessing Machines  23 - Mulchers  24 - Utility Vehicles  25 - Slurry Applicators  26 - Feeder / Mixer  Unit Symbol  m - Distance  Resolution  1  SAE SPN  CANBus Range  0 - 2147483647  Submit by  Marc-Kevin Doeker  Submit Date  Submit Date  Status Date  15 - Published  Status Date  2019-11-19  Submit Date  2019-12-16		
and store this DDE at the end of a task. But it shall not set this DDE when the task is resumed.  Typically used by Device  Class(es)  O - Non-specific system 1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber Hoaders 22 - Timber Pocassing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol  m - Distance  Resolution 1 SAE SPN  CANBus Range 0 - 2147483647  Submit Date Submit Date Status 1 SO-Published Status Date  Unit Symbol  Marc-Kevin Doeker Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Current Status ISO-Published Status Date		
When the task is resumed.   Typically used by Device		
Typically used by Device		
Class(es)  0 - Non-specific system 1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN  CANBus Range 0 - 2147483647 Submit by Marc-Kevin Doeker Submit Ompany Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-11-16	Typically used by Device	
1 - Tractor 2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters / Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer Unit Symbol m - Distance Resolution 1 SAE SPN CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		
2 - Primary Soil Tillage 3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol  m - Distance  Resolution 1 SAE SPN CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Date 2019-11-19 Submit Date Current Status ISO-Published Status Date 2019-12-16	Class(es)	
3 - Secondary Soil Tillage 4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		
4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN  CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		-
5 - Fertilizer 6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN  CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		
6 - Sprayers 7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date		
7 - Harvesters 8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date		
8 - Root Harvester 9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Date Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date		
9 - Forage harvester 10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN  CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit by Marc-Kevin Doeker Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		
10 - Irrigation 11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		8 - Root Harvester
11 - Transport / Trailers 12 - Farmyard Work 13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1 SAE SPN  CANBus Range 0 - 2147483647 Display Range 0 - 2147483647 Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		9 - Forage harvester
12 - Farmyard Work   13 - Powered Auxilary Units   14 - Special Crops   15 - Municipal Work   17 - Sensor System   18 - Reserved for Future Assignment   19 - Timber Harvesters   20 - Forwarders   21 - Timber loaders   22 - Timber Processing Machines   23 - Mulchers   24 - Utility Vehicles   25 - Slurry Applicators   26 - Feeder / Mixer		10 - Irrigation
13 - Powered Auxilary Units 14 - Special Crops 15 - Municipal Work 17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		11 - Transport / Trailers
14 - Special Crops         15 - Municipal Work         17 - Sensor System         18 - Reserved for Future Assignment         19 - Timber Harvesters         20 - Forwarders         21 - Timber loaders         22 - Timber Processing Machines         23 - Mulchers         24 - Utility Vehicles         25 - Slurry Applicators         26 - Feeder / Mixer         Unit Symbol       m - Distance         Resolution       1         SAE SPN         CANBus Range       0 - 2147483647         Display Range       0 - 2147483647         Submit by       Marc-Kevin Doeker         Submit Date       2019-11-19         Submit Company       Maschinenfabrik Bernard Krone GmbH & Co. KG         Revision Number       1         Current Status       ISO-Published         Status Date       2019-12-16		12 - Farmyard Work
15 - Municipal Work   17 - Sensor System   18 - Reserved for Future Assignment   19 - Timber Harvesters   20 - Forwarders   21 - Timber loaders   22 - Timber Processing Machines   23 - Mulchers   24 - Utility Vehicles   25 - Slurry Applicators   26 - Feeder / Mixer   1		13 - Powered Auxilary Units
17 - Sensor System 18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		14 - Special Crops
18 - Reserved for Future Assignment 19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		15 - Municipal Work
19 - Timber Harvesters 20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		17 - Sensor System
20 - Forwarders 21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		18 - Reserved for Future Assignment
21 - Timber loaders 22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		-
22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		20 - Forwarders
22 - Timber Processing Machines 23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		
23 - Mulchers 24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		
24 - Utility Vehicles 25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		-
25 - Slurry Applicators 26 - Feeder / Mixer  Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		
Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		
Unit Symbol m - Distance  Resolution 1  SAE SPN  CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		
Resolution         1           SAE SPN         0 - 2147483647           CANBus Range         0 - 2147483647           Display Range         0 - 2147483647           Submit by         Marc-Kevin Doeker           Submit Date         2019-11-19           Submit Company         Maschinenfabrik Bernard Krone GmbH & Co. KG           Revision Number         1           Current Status         ISO-Published           Status Date         2019-12-16	Unit Symbol	
SAE SPN         CANBus Range       0 - 2147483647         Display Range       0 - 2147483647         Submit by       Marc-Kevin Doeker         Submit Date       2019-11-19         Submit Company       Maschinenfabrik Bernard Krone GmbH & Co. KG         Revision Number       1         Current Status       ISO-Published         Status Date       2019-12-16	-	
CANBus Range 0 - 2147483647  Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		1
Display Range 0 - 2147483647  Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16		0. 2447402647
Submit by Marc-Kevin Doeker  Submit Date 2019-11-19  Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG  Revision Number 1  Current Status ISO-Published  Status Date 2019-12-16	-	
Submit Date 2019-11-19 Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		
Submit Company Maschinenfabrik Bernard Krone GmbH & Co. KG Revision Number 1 Current Status ISO-Published Status Date 2019-12-16	-	
Revision Number 1 Current Status ISO-Published Status Date 2019-12-16		
Current Status ISO-Published Status Date 2019-12-16	i i	
Status Date 2019-12-16		· ·
Status Comments Status was published	Status Date	
·	Status Comments	Status was published

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DD Entity	599 - Total Distance Field
Definition	Accumulated Distance on the field
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2019-11-19
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2019-12-16
Status Comments	Status was published

DD Entity	600 - Lifetime Total Distance Field
Definition	Entire Total Distance on the field of the device lifetime

Commont	This is the guarditated of the device. This total does not refer to an
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE but shall
	not support the setable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
T : " II D :	when the task is resumed.
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	m - Distance
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2019-11-19
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	ISO-Published
Status Date	2019-12-16
Status Comments	Status was published
·	1

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DD Entity	601 - Total Distance Street
Definition	Accumulated Distance on the street
Comment	
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2019-11-19
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	602 - Lifetime Total Distance Street
Definition	Entire Total Distance on the street of the device lifetime

Commont	This is the everall total of the device. This total does not refer to an
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore this DDE shall
	not be setable within the device description and neither shall the device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE but shall
	not support the setable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
T : " D :	when the task is resumed.
Typically used by Device	- Not Assigned
Class(es)	0 - Non-specific system
	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
	17 - Sensor System
	18 - Reserved for Future Assignment
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	23 - Mulchers
	24 - Utility Vehicles
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	m - Distance
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Marc-Kevin Doeker
Submit Date	2019-11-19
Submit Company	Maschinenfabrik Bernard Krone GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

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DD Entity	603 - Actual Tramline Condensed Work State (17-32)
Definition	Combination of the Actual States of individual Tramline Valves
	number 17 to 32 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 17-32 has the same
	purpose and definition like the Actual Condensed Work State 17-32
	DDI 162. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	604 - Actual Tramline Condensed Work State (33-48)

Definition	Combination of the Actual States of individual Tramline Valves
	number 33 to 48 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 33-48 has the same
	purpose and definition like the Actual Condensed Work State 33-48
	DDI 163. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	605 - Actual Tramline Condensed Work State (49-64)
Definition	Combination of the Actual States of individual Tramline Valves
	number 49 to 64 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 49-64 has the same
	purpose and definition like the Actual Condensed Work State 49-64
	DDI 164. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	606 - Actual Tramline Condensed Work State (65-80)
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Definition	Combination of the Actual States of individual Tramline Valves
	number 65 to 80 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 65-80 has the same
	purpose and definition like the Actual Condensed Work State 65-80
	DDI 165. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	607 - Actual Tramline Condensed Work State (81-96)
Definition	Combination of the Actual States of individual Tramline Valves
	number 81 to 96 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 81-96 has the same
	purpose and definition like the Actual Condensed Work State 81-96
	DDI 166. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	608 - Actual Tramline Condensed Work State (97-112)

Definition	Combination of the Actual States of individual Tramline Valves
	number 97 to 112 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 97-112 has the same
	purpose and definition like the Actual Condensed Work State 97-112
	DDI 167. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	609 - Actual Tramline Condensed Work State (113-128)
Definition	Combination of the Actual States of individual Tramline Valves
	number 113 to 128 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 113-128 has the same
	purpose and definition like the Actual Condensed Work State
	113-128 DDI 168. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity 610 - Actual Tramline Condensed Work State (129-144)
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Definition  Combination of the Actual States of individual Tramline Valves number 129 to 144 into a single Actual Tramline State of their parent DeviceElement. The Actual Tramline Condensed Work State contains the child element Actual Tramline Work States, in the driving direction from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann  Submit Company  Competence Center ISOBUS e.V.  Revision Number  1  Current Status  Published  Status Date  Status Comments		
DeviceElement. The Actual Tramline Condensed Work State contains the child element Actual Tramline Work States, in the driving direction from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work States can be contained in one Actual Tramline Condensed Work States of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published Status Date	Definition	Combination of the Actual States of individual Tramline Valves
the child element Actual Tramline Work States, in the driving direction from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann  Submit Date  2019-12-11  Submit Company  Competence Center ISOBUS e.V.  Revision Number  1  Current Status  Published  Status Date		·
from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann  Submit Date  2019-12-11  Submit Company  Competence Center ISOBUS e.V.  Revision Number  1  Current Status  Published  Status Date		DeviceElement. The Actual Tramline Condensed Work State contains
Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a Resolution  1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published Status Date 2019-12-16		the child element Actual Tramline Work States, in the driving direction
Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published Status Date		from left to right, where the leftmost child element Actual Tramline
represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann  Submit Date  2019-12-11  Submit Company  Competence Center ISOBUS e.V.  Revision Number  1  Current Status  Published  Status Date		Work State are the 2 lowest significant bits of the Process Data
enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published Status Date		Value. Each child device elements Actual Tramline Work State is
16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date		represented by 2 bits and defined as: 00 = disabled/off, 01 =
contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16		enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es) Unit Symbol n.a Resolution 1 SAE SPN CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Dominik Diekmann Submit Date 2019-12-11 Submit Company Competence Center ISOBUS e.V. Revision Number 1 Current Status Published Status Date		16 child device element Actual Tramline Work States can be
Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device 4 - Planters /Seeders  Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN		contained in one Actual Tramline Condensed Work State of their
to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es) Unit Symbol n.a  Resolution 1 SAE SPN CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Dominik Diekmann Submit Date 2019-12-11 Submit Company Competence Center ISOBUS e.V.  Revision Number 1 Current Status Published Status Date 2019-12-16		parent DeviceElement. If less than 16 child device element Actual
Comment The Actual Tramline Condensed Work State 129-144 has the same purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es) Unit Symbol n.a  Resolution 1 SAE SPN CANBus Range 0 - 4294967295 Display Range 0 - 4294967295 Submit by Dominik Diekmann Submit Date 2019-12-11 Submit Company Competence Center ISOBUS e.V. Revision Number 1 Current Status Published Status Date 2019-12-16		Tramline Work States are available, then the unused bits shall be set
purpose and definition like the Actual Condensed Work State 129-144 DDI 169. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published Status Date 2019-12-16		to value 11 (not installed).
Typically used by Device 4 - Planters /Seeders  Unit Symbol n.a  Resolution 1  SAE SPN 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16	Comment	The Actual Tramline Condensed Work State 129-144 has the same
Typically used by Device 4 - Planters /Seeders  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16		purpose and definition like the Actual Condensed Work State
Class(es)  Unit Symbol  Resolution  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann  Submit Date  2019-12-11  Submit Company  Competence Center ISOBUS e.V.  Revision Number  1  Current Status  Published  Status Date		129-144 DDI 169. For more details see also attachment on DDI 505.
Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16	Typically used by Device	4 - Planters /Seeders
Resolution         1           SAE SPN         CANBus Range           Display Range         0 - 4294967295           Submit by         Dominik Diekmann           Submit Date         2019-12-11           Submit Company         Competence Center ISOBUS e.V.           Revision Number         1           Current Status         Published           Status Date         2019-12-16	Class(es)	
SAE SPN         CANBus Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Dominik Diekmann         Submit Date       2019-12-11         Submit Company       Competence Center ISOBUS e.V.         Revision Number       1         Current Status       Published         Status Date       2019-12-16	Unit Symbol	n.a
CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16	Resolution	1
Display Range 0 - 4294967295  Submit by Dominik Diekmann  Submit Date 2019-12-11  Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16	SAE SPN	
Submit by  Dominik Diekmann  Submit Date  2019-12-11  Submit Company  Competence Center ISOBUS e.V.  Revision Number  1  Current Status  Published  Status Date  2019-12-16	CANBus Range	0 - 4294967295
Submit Date 2019-12-11 Submit Company Competence Center ISOBUS e.V. Revision Number 1 Current Status Published Status Date 2019-12-16	Display Range	0 - 4294967295
Submit Company Competence Center ISOBUS e.V.  Revision Number 1  Current Status Published  Status Date 2019-12-16	Submit by	Dominik Diekmann
Revision Number 1 Current Status Published Status Date 2019-12-16	Submit Date	2019-12-11
Current Status Published Status Date 2019-12-16	Submit Company	Competence Center ISOBUS e.V.
Status Date 2019-12-16	Revision Number	1
	Current Status	Published
Status Comments	Status Date	2019-12-16
	Status Comments	

DD Entity	611 - Actual Tramline Condensed Work State (145-160)
Definition	Combination of the Actual States of individual Tramline Valves
	number 145 to 160 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 145-160 has the same
	purpose and definition like the Actual Condensed Work State
	145-160 DDI 170. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Date	2010 12 10

DD Entity	612 - Actual Tramline Condensed Work State (161-176)	
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Definition	Combination of the Actual States of individual Tramline Valves
	number 161 to 176 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 161-176 has the same
	purpose and definition like the Actual Condensed Work State
	161-176 DDI 171. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	613 - Actual Tramline Condensed Work State (177-192)
Definition	Combination of the Actual States of individual Tramline Valves
	number 177 to 192 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 177-192 has the same
	purpose and definition like the Actual Condensed Work State
	177-192 DDI 172. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

Definition	Combination of the Actual States of individual Tramline Valves
	number 193 to 208 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 193-208 has the same
	purpose and definition like the Actual Condensed Work State
	193-208 DDI 173. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	
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DD Entity	615 - Actual Tramline Condensed Work State (209-224)
Definition	Combination of the Actual States of individual Tramline Valves
	number 209 to 224 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 209-224 has the same
	purpose and definition like the Actual Condensed Work State
	209-224 DDI 174. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	616 - Actual Tramline Condensed Work State (225-240)	ĺ
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Definition	Combination of the Actual States of individual Tramline Valves
	number 225 to 240 into a single Actual Tramline State of their parent
	DeviceElement. The Actual Tramline Condensed Work State contains
	the child element Actual Tramline Work States, in the driving direction
	from left to right, where the leftmost child element Actual Tramline
	Work State are the 2 lowest significant bits of the Process Data
	Value. Each child device elements Actual Tramline Work State is
	represented by 2 bits and defined as: 00 = disabled/off, 01 =
	enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
	16 child device element Actual Tramline Work States can be
	contained in one Actual Tramline Condensed Work State of their
	parent DeviceElement. If less than 16 child device element Actual
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (not installed).
Comment	The Actual Tramline Condensed Work State 225-240 has the same
	purpose and definition like the Actual Condensed Work State
	225-240 DDI 175. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

number 241 to 256 into a single Actual Tramline State of their parent DeviceElement. The Actual Tramline Condensed Work State contains the child element Actual Tramline Work States, in the driving direction from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Jinit Symbol  n.a Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Display Range Dominik Diekmann	DD Entity	617 - Actual Tramline Condensed Work State (241-256)
DeviceElement. The Actual Tramline Condensed Work State contains the child element Actual Tramline Work States, in the driving direction from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device 24 - Planters /Seeders  Class(es)  Jinit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann	Definition	Combination of the Actual States of individual Tramline Valves
the child element Actual Tramline Work States, in the driving direction from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Work States of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  The Actual Tramline Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 505.  Typically used by Device Class(es)  To Manuer Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 505.  Typically used by Device Class(es)  To Manuer Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 505.  Typically used by Device Class(es)  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 has t		number 241 to 256 into a single Actual Tramline State of their parent
from left to right, where the leftmost child element Actual Tramline Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Jinit Symbol  n.a Resolution 1  SAE SPN  CANBUS Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann		DeviceElement. The Actual Tramline Condensed Work State contains
Work State are the 2 lowest significant bits of the Process Data Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Unit Symbol  n.a Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Dominik Diekmann		the child element Actual Tramline Work States, in the driving direction
Value. Each child device elements Actual Tramline Work State is represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device  Class(es)  Jnit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Dominik Diekmann		from left to right, where the leftmost child element Actual Tramline
represented by 2 bits and defined as: 00 = disabled/off, 01 = enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Juit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann		Work State are the 2 lowest significant bits of the Process Data
enabled/on, 10 = error indicator, 11 = undefined/not installed. In total 16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Juit Symbol  n.a Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Dominik Diekmann		Value. Each child device elements Actual Tramline Work State is
16 child device element Actual Tramline Work States can be contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device  Class(es)  Juit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Dominik Diekmann		represented by 2 bits and defined as: 00 = disabled/off, 01 =
contained in one Actual Tramline Condensed Work State of their parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  Comment The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es) Jnit Symbol n.a Resolution 1 SAE SPN CANBus Range 0 - 4294967295 Display Range Dominik Diekmann		enabled/on, 10 = error indicator, 11 = undefined/not installed. In total
parent DeviceElement. If less than 16 child device element Actual Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device Class(es)  Jnit Symbol  n.a  Resolution  1  SAE SPN  CANBus Range  0 - 4294967295  Display Range  0 - 4294967295  Submit by  Dominik Diekmann		16 child device element Actual Tramline Work States can be
Tramline Work States are available, then the unused bits shall be set to value 11 (not installed).  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device 4 - Planters /Seeders  Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann		contained in one Actual Tramline Condensed Work State of their
to value 11 (not installed).  The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device 4 - Planters /Seeders  Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann		parent DeviceElement. If less than 16 child device element Actual
The Actual Tramline Condensed Work State 241-256 has the same purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device 4 - Planters /Seeders  Class(es)  Unit Symbol n.a  Resolution 1  CAR SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann		Tramline Work States are available, then the unused bits shall be set
purpose and definition like the Actual Condensed Work State 241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device 4 - Planters /Seeders  Class(es)  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann		to value 11 (not installed).
241-256 DDI 176. For more details see also attachment on DDI 505.  Typically used by Device 4 - Planters /Seeders  Unit Symbol n.a  Resolution 1  SAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann	Comment	The Actual Tramline Condensed Work State 241-256 has the same
Typically used by Device 4 - Planters /Seeders  Class(es)  Unit Symbol n.a  Resolution 1  GAE SPN  CANBus Range 0 - 4294967295  Display Range 0 - 4294967295  Submit by Dominik Diekmann		purpose and definition like the Actual Condensed Work State
Class(es)       n.a         Init Symbol       n.a         Resolution       1         SAE SPN       0 - 4294967295         Display Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Dominik Diekmann		241-256 DDI 176. For more details see also attachment on DDI 505.
Jnit Symbol         n.a           Resolution         1           SAE SPN         0 - 4294967295           Display Range         0 - 4294967295           Submit by         Dominik Diekmann	Typically used by Device	4 - Planters /Seeders
Resolution       1         SAE SPN       0 - 4294967295         CANBus Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Dominik Diekmann	Class(es)	
SAE SPN         CANBus Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Dominik Diekmann	Unit Symbol	n.a
CANBus Range       0 - 4294967295         Display Range       0 - 4294967295         Submit by       Dominik Diekmann	Resolution	1
Display Range 0 - 4294967295  Submit by Dominik Diekmann	SAE SPN	
Submit by Dominik Diekmann	CANBus Range	0 - 4294967295
·	Display Range	0 - 4294967295
Submit Date 2019-12-11	Submit by	Dominik Diekmann
	Submit Date	2019-12-11
Submit Company Competence Center ISOBUS e.V.	Submit Company	Competence Center ISOBUS e.V.
Revision Number 1	Revision Number	1
Current Status Published	Current Status	Published
Status Date 2019-12-16	Status Date	2019-12-16
Status Comments	Status Comments	

DD Entity	618 - Setpoint Tramline Condensed Work State (17-32)	
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 17 to 32 into
	a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 17-32 has the same
	purpose and definition like the Setpoint Condensed Work State 17-32
	DDI 291. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	
<del></del>	

DD Entity	619 - Setpoint Tramline Condensed Work State (33-48)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 33 to 48 into
	a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 33-48 has the same
	purpose and definition like the Setpoint Condensed Work State 33-48
	DDI 292. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	620 - Setpoint Tramline Condensed Work State (49-64)	
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 49 to 64 into
	a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 49-64 has the same
	purpose and definition like the Setpoint Condensed Work State 49-64
	DDI 293. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	621 - Setpoint Tramline Condensed Work State (65-80)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 65 to 80 into
	a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 65-80 has the same
	purpose and definition like the Setpoint Condensed Work State 65-80
	DDI 294. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	622 - Setpoint Tramline Condensed Work State (81-96)
	UZZ - Gelponit Transmic Condensed Work Glate (G1-30)

Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 81 to 96 into
	a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 81-96 has the same
	purpose and definition like the Setpoint Condensed Work State 81-96
	DDI 295. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	623 - Setpoint Tramline Condensed Work State (97-112)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 97 to 112
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 97-112 has the same
	purpose and definition like the Setpoint Condensed Work State
	97-112 DDI 296. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	624 - Setpoint Tramline Condensed Work State (113-128)	
	1024 - Delpoint Training Condensed Work State (113-120)	

Definition	The Catnoint Tramline Condensed Work State DDIs are the secretary
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 113 to 128
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 113-128 has the same
	purpose and definition like the Setpoint Condensed Work State
	113-128 DDI 297. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	625 - Setpoint Tramline Condensed Work State (129-144)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 129 to 144
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 129-144 has the same
	purpose and definition like the Setpoint Condensed Work State
	129-144 DDI 298. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	626 - Setpoint Tramline Condensed Work State (145-160)
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 145 to 160
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 145-160 has the same
	purpose and definition like the Setpoint Condensed Work State
	145-160 DDI 299. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	
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DD Entity	627 - Setpoint Tramline Condensed Work State (161-176)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 161 to 176
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 161-176 has the same
	purpose and definition like the Setpoint Condensed Work State
	161-176 DDI 300. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	628 - Setpoint Tramline Condensed Work State (177-192)
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 177 to 192
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 177-192 has the same
	purpose and definition like the Setpoint Condensed Work State
	177-192 DDI 301. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	629 - Setpoint Tramline Condensed Work State (193-208)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 193 to 208
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 193-208 has the same
	purpose and definition like the Setpoint Condensed Work State
	193-208 DDI 302. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	630 - Setpoint Tramline Condensed Work State (209-224)
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 209 to 224
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 209-224 has the same
	purpose and definition like the Setpoint Condensed Work State
	209-224 DDI 303. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	
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DD Entity	631 - Setpoint Tramline Condensed Work State (225-240)
Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 225 to 240
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 225-240 has the same
	purpose and definition like the Setpoint Condensed Work State
	225-240 DDI 304. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	632 - Setpoint Tramline Condensed Work State (241-256)
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Definition	The Setpoint Tramline Condensed Work State DDIs are the control
	command counterparts to the Actual Tramline Condensed Work
	States DDIs. The value is a combination of the Setpoint Tramline
	Valve Work States of individual Tramline Valves number 241 to 256
	into a single Setpoint Tramline Condensed Work State of their parent
	DeviceElement. The Setpoint Tramline Condensed Work State
	contains the child element Setpoint Tramline Work States, in the
	driving direction from left to right, where the leftmost child element
	Setpoint Tramline Work State are the 2 lowest significant bits of the
	Process Data Value. Each child device elements Setpoint Work State
	is represented by 2 bits and defined as: 00 = disable/off, 01 =
	enable/on, 10 = error indicator, 11 = no change. In total 16 child
	device element Setpoint Tramline Work States can be contained in
	one Setpoint Tramline Condensed Work State of their parent
	DeviceElement. If less than 16 child device element Setpoint
	Tramline Work States are available, then the unused bits shall be set
	to value 11 (no change).
Comment	The Setpoint Tramline Condensed Work State 241-256 has the same
	purpose and definition like the Setpoint Condensed Work State
	241-256 DDI 305. For more details see also attachment on DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 4294967295
Display Range	0 - 4294967295
Submit by	Dominik Diekmann
Submit Date	2019-12-11
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2019-12-16
Status Comments	

DD Entity	633 - Setpoint Volume per distance Application Rate
Definition	Setpoint Application Rate specified as volume per distance
Comment	Defines a target volume to be sprayed per distance travelled. e.g. in
	vineyards, orchards
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	ml/m - Volume per distance
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Stefan Welsch
Submit Date	2020-06-26
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2020-07-14
Status Comments	Status was published

DD Entity	634 - Actual Volume per distance Application Rate
Definition	Actual liquid application based on distance travelled, e.g. in
	vineyards, orchards.
Comment	Actual liquid application based on distance travelled, e.g. in
	vineyards, orchards.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	ml/m - Volume per distance
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Stefan Welsch
Submit Date	2020-06-26
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2020-07-14
Status Comments	

DD Entity	635 - Default Volume per distance Application Rate
Definition	Default Application Rate specified as volume per distance
Comment	Defines a default volume to be sprayed per distance travelled. e.g. in
	vineyards, orchards
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	ml/m - Volume per distance
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Stefan Welsch
Submit Date	2020-07-14
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2020-07-14
Status Comments	

DD Entity	636 - Minimum Volume per distance Application Rate
Definition	Minimum Application Rate specified as volume per distance
Comment	Defines the minimum volume to be sprayed per distance travelled.
	e.g. in vineyards, orchards
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	ml/m - Volume per distance
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Stefan Welsch
Submit Date	2020-07-14
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2020-07-14
Status Comments	

DD Entity	637 - Maximum Volume per distance Application Rate
Definition	Maximum Application Rate specified as volume per distance
Comment	Defines the maximum volume to be sprayed per distance travelled.
	e.g. in vineyards, orchards
Typically used by Device	5 - Fertilizer
Class(es)	6 - Sprayers
	7 - Harvesters
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	ml/m - Volume per distance
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Stefan Welsch
Submit Date	2020-07-14
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2020-07-14
Status Comments	

DD Entity	638 - Setpoint Tire Pressure
Definition	Setpoint Tire Pressure to adjust the pressure of the Tire at the point
	of dispensing.
Comment	On pressure-based control systems, it is important to be able to
	monitor and control the pressure to ensure the proper Tire pressure.
	Being able to display and log pressure is important.
Typically used by Device	1 - Tractor
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	25 - Slurry Applicators
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Rajashri Munot
Submit Date	2020-12-10
Submit Company	John Deere
Revision Number	1
Current Status	ISO-Published
Status Date	2021-02-11
Status Comments	Status was published
Attachment	2021-02-11: - ISO 11783-11-DDI-638-Setpoint Tire Pressure-v1.pdf

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DD Entity	639 - Actual Tire Pressure
Definition	Actual Tire Pressure is the measured pressure in the tire during
	operation.
Comment	On pressure-based control systems, it is important to be able to
	monitor and control the pressure to ensure the proper performance.
	Being able to display and log pressure is important.
Typically used by Device	1 - Tractor
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	25 - Slurry Applicators
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Rajashri Munot
Submit Date	2020-12-09
Submit Company	John Deere
Revision Number	3
Current Status	Published
Status Date	2021-04-01
Status Comments	Fix typo

DD Entity	640 - Default Tire Pressure
Definition	Default Tire Pressure in the tire during operation.
Comment	Default Tire Pressure to ensure a stable and safe tire.
Typically used by Device	1 - Tractor
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	25 - Slurry Applicators
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Rajashri Munot
Submit Date	2020-12-09
Submit Company	John Deere
Revision Number	2
Current Status	Published
Status Date	2021-04-01
Status Comments	Fix typo

DD Entity	641 - Minimum Tire Pressure
Definition	Minimum Tire Pressure in the tire at the time of operation
Comment	Minimum Tire pressure to ensure a consistent performance.
Typically used by Device	1 - Tractor
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	25 - Slurry Applicators
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Rajashri Munot
Submit Date	2020-12-09
Submit Company	John Deere
Revision Number	2
Current Status	Published
Status Date	2021-04-19
Status Comments	Typo fix

DD Entity	642 - Maximum Tire Pressure
Definition	Maximum Tire Pressure in the tire during operation
Comment	Maximum Tire pressure to ensure a stable and safe tire.
Typically used by Device	1 - Tractor
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	25 - Slurry Applicators
Unit Symbol	Pa - Pressure
Resolution	0,1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 214748364,7
Submit by	Rajashri Munot
Submit Date	2020-12-09
Submit Company	John Deere
Revision Number	2
Current Status	Published
Status Date	2021-04-19
Status Comments	Typo fix

DD Entity	643 - Actual Tire Temperature
Definition	Actual Tire Temperature is the measured temperature in the tire
	during operation.
Comment	See also the attachment on DDI 638 Setpoint Tire Pressure to get
	more information about potential device description object pools and
	where to add Tire DDIs.
Typically used by Device	1 - Tractor
Class(es)	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	11 - Transport / Trailers
	25 - Slurry Applicators
Unit Symbol	mK - Temperature
Resolution	1
SAE SPN	PGN 65268 SPN 242 Tire Temperature
CANBus Range	0 - 1000000
Display Range	0 - 1000000
Submit by	Franz Höpfinger
Submit Date	2021-08-02
Submit Company	1116 - HR Agrartechnik GmbH
Revision Number	1
Current Status	Published
Status Date	2021-08-10
Status Comments	

DD Entity	644 - Binding Method
Definition	Specification of the method used to bind bales.
	The value definitions represent a set of flags.
	The flag values are:
	0 = unknown (default)
	1 = Mesh
	2 = Twine
	3 = Film
	4 = Twine & Mesh
	5 = Twine & Film
	6 and higher are are reserved for future assignments
Comment	This DDE allows a baler to specify what method is being used to bind
	the bales.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 5
Display Range	0 - 5
Submit by	Mike Schmidt on behalf of Steffen Hoffmann

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Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	2
Current Status	New Request Submitted
Status Date	2022-03-21
Status Comments	added 4 and 5;

DD Entity	645 - Last Bale Number of Knives
Definition	Number of cutting knives used in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2021-09-13
Status Comments	

DD Entity	646 - Last Bale Binding Twine Consumption
Definition	Binding twine consumption in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	2
Current Status	Published
Status Date	2023-04-24
Status Comments	Only wording changed from "Twine Binding" to "Binding Twine"

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DD Entity	647 - Last Bale Binding Mesh Consumption
Definition	Binding mesh consumption in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2022-10-10
Status Comments	Added "Binding" to name

DD Entity	648 - Last Bale Binding Film Consumption
Definition	Binding film consumption in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2022-10-10
Status Comments	Added "Binding" to name

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DD Entity	649 - Last Bale Binding Film Stretching
Definition	Binding film stretching in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2022-10-10
Status Comments	Added "Binding" to name

DD Entity	650 - Last Bale Wrapping Film Width
Definition	Wrapping film width in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2021-09-13
Status Comments	

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DD Entity	651 - Last Bale Wrapping Film Consumption
Definition	Wrapping film consumption in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2021-09-13
Status Comments	

DD Entity	652 - Last Bale Wrapping Film Stretching
Definition	Wrapping film stretching in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2021-09-13
Status Comments	

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DD Entity	653 - Last Bale Wrapping Film Overlap Percentage
Definition	Wrapping film overlap percentage in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	% - Percent
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483,647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2021-09-13
Status Comments	

DD Entity	654 - Last Bale Wrapping Film Layers
Definition	Wrapping film layers in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2021-04-20
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2021-09-13
Status Comments	

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DD Entity	655 - Electrical Apparent Soil Conductivity
Definition	Electrical conductivity also called the EC-Value.
	For materials this is a constant.
	For material mixes like soil you can measure a apparent conductivity,
	which gives information about the soil conditions.
Comment	See Attachement for more Info.
Typically used by Device	2 - Primary Soil Tillage
Class(es)	3 - Secondary Soil Tillage
	17 - Sensor System
Unit Symbol	mS/m - Milli Siemens per meter
Resolution	0,1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-3300.0 - 3300.0
Submit by	Franz Höpfinger
Submit Date	2021-04-14
Submit Company	850 - Geoprospectors GmbH
Revision Number	1
Current Status	Published
Status Date	2021-10-05
Status Comments	
Attachment	<u>2021-10-05: -</u>
	ISO 11783-11 DDI-655-Electrical Apparent Soil Conductivity-v1.pd
	<u>f</u>

DD Entity	656 - SC Actual Turn On Time
Definition	Definition: The Section Control Actual Turn On Time defines the
	overall time lapse between the moment the TC client sends the actual
	Section state and the moment this section is physically turned on and
	the product is applied.
	The working set may support this DDE as an optional feature to
	provide the possibility to store the time settings direct on the device to
	make the settings available after a power cycle. Therefore this DDE
	needs always to be settable by the TC and shall not be used to
	change any working set system behavior.
	The DDI shall support the On Change trigger so that the TC is able to
	get informed when the value gets changed by the Working Set
	Master. The TC shall activate this trigger when using the DDI.

Comment	This value should be provided by the implement manufacturer if
	applicable and otherwise only DDI 205 "SC Setpoint Turn On Time"
	shall be provided. If the system does not define SC Actual Turn On
	Time and SC Setpoint Turn On Time separately, it implies that "SC
	Setpoint Turn On Time" may be considered for drawing Actual
	Coverage. If "SC Actual Turn On Time" is defined as 0, the coverage
	ON shall be immediate.
	The usage of " SC Actual Turn On Time" does not eliminate usage of
	"SC Setpoint Turn On time - DDI 205", it is supporting information for
	better coverage Map based on Actual CWS. See also DDI 205
	including attachment and DDI 206 and 657
Typically used by Device	1 - Tractor
Class(es)	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Rajashri Munot
Submit Date	2021-10-14
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2022-01-10
Status Comments	First version

DD Entity	657 - SC Actual Turn Off Time
Definition	The Section Control Actual Turn Off Time defines the overall time
	lapse between the moment the TC client sends the actual Section
	state and the moment this section is physically turned off and the
	product is stopped from being applied.
	The working set may support this DDE as an optional feature to
	provide the possibility to store the time settings direct on the device to
	make the settings available after a power cycle. Therefore this DDE
	needs always to be settable by the TC and shall not be used to
	change any working set system behavior.
	The DDI shall support the On Change trigger so that the TC is able to
	get informed when the value gets changed by the Working Set
	Master. The TC shall activate this trigger when using the DDI.
Comment	This value should be provided by the implement manufacturer if
	applicable and otherwise only DDI 206 "SC Setpoint Turn Off Time"
	shall be provided. If the system does not define SC Actual Turn Off
	Time and SC Setpoint Turn Off Time separately, it implies that "SC
	Setpoint Turn Off Time" may be considered for drawing Actual
	Coverage. If "SC Actual Turn Off Time" is defined as 0, the coverage
	OFF shall be immediate.
	The usage of " SC Actual Turn Off Time" does not eliminate usage of
	"SC Setpoint Turn Off time - DDI 206", it is supporting information for
	better coverage Map based on Actual CWS. See also DDI 205
	including attachment and DDI 206 and 656
Typically used by Device	1 - Tractor
Class(es)	4 - Planters /Seeders
,	5 - Fertilizer
	6 - Sprayers
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Rajashri Munot
Submit Date	2021-10-14
Submit Company	John Deere
Revision Number	1
Current Status	Published
Status Date	2022-01-10
Status Comments	First version

DD Entity	658 - Actual CO2 equivalent specified as mass per area	
Definition	Actual CO2 equivalent specified as mass per area	
Comment	For more details see also ISO-14040 and ISO-14044 documents.	

1
1 - Tractor
2 - Primary Soil Tillage
3 - Secondary Soil Tillage
4 - Planters /Seeders
5 - Fertilizer
6 - Sprayers
7 - Harvesters
8 - Root Harvester
9 - Forage harvester
10 - Irrigation
25 - Slurry Applicators
mg/mÂ <sup>2</sup> - Mass per area unit
1
0 - 2147483647
0 - 2147483647
Hendrik Hageböke
2022-10-20
GRIMME Landmaschinenfabrik GmbH & Co.KG
1
Published
2022-11-15

DD Entity	659 - Actual CO2 equivalent specified as mass per time
Definition	Actual CO2 equivalent specified as mass per time
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20
Submit Company	GRIMME Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15
Status Comments	

DD Entity	660 - Actual CO2 equivalent specified as mass per mass
Definition	Actual CO2 equivalent specified as mass per mass (application rate)
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20
Submit Company	GRIMME Landmaschinenfabrik GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15

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Status Comments	

DD Entity	661 - Actual CO2 equivalent specified as mass per yield
Definition	Actual CO2 equivalent specified as mass per yield mass
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	19 - Timber Harvesters
Unit Symbol	mg/kg - Mass per mass unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20
Submit Company	GRIMME Landmaschinenfabrik GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15
Status Comments	

DD Entity	662 - Actual CO2 equivalent specified as mass per volume
Definition	Actual CO2 equivalent specified as mass per volume
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	25 - Slurry Applicators
Unit Symbol	mg/l - Mass per capacity unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20
Submit Company	GRIMME Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15
Status Comments	

DD Entity	663 - Actual CO2 equivalent specified as mass per count
Definition	Actual CO2 equivalent specified as mass per count
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	7 - Harvesters
	8 - Root Harvester
	19 - Timber Harvesters
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20
Submit Company	GRIMME Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15
Status Comments	

DD Entity	664 - Total CO2 equivalent
Definition	Accumulated CO2 equivalent specified as mass in kilogram [kg]
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20

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Submit Company	GRIMME Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15
Status Comments	

DD Entity	665 - Lifetime total CO2 equivalent
Definition	Entire Lifetime CO2 equivalent specified as mass in kilogram [kg]
Comment	For more details see also ISO-14040 and ISO-14044 documents.
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	19 - Timber Harvesters
	20 - Forwarders
	21 - Timber loaders
	22 - Timber Processing Machines
	25 - Slurry Applicators
	26 - Feeder / Mixer
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2022-10-20
Submit Company	GRIMME Landmaschinenfabrik GmbH & Co. KG
Revision Number	1
Current Status	Published
Status Date	2022-11-15
Status Comments	
	•

DD Entity	666 - Working Direction
Definition	This DDI defines the intended Working Direction in the field and also
	defines the numbering of the Bouts.
Comment	The Working Direction defines the intended Working Direction in the
	field and also defines the numbering of the Bouts. If the Working
	Direction is 1 (working from left to right, compared to AB-reference
	line) the numbering of the Bouts is also from left to right in ascending
	order. If the Working Direction is 2 (working from right to left,
	compared to AB-reference line) the numbering of the Bouts is from
	right to left in ascending order.
	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	not defined - not defined
Resolution	1

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SAE SPN	
CANBus Range	0 - 2
Display Range	0 - 2
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	667 - Distance between Guidance Track Number 0R and 1
Definition	This DDI defines the distance between tracks 0R and 1.
Comment	If the user wants to start with a different Working Width than 100%,
	the Track Number 0 has to be divided in two separate Tracks 0R and
	0L. Therefore, the Tracks 0R and 0L are deviated from the original
	Track 0. To calculate the correct positions of these Tracks, the
	distance d0R/1 between Track 0R and 1 and the distance d0R/0L
	between 0R and 0L have to be defined.
	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	668 - Distance between Guidance Track Number 0R and 0L
Definition	This DDI defines the distance between tracks 0R and 0L.
Comment	If the user wants to start with a different Working Width than 100%,
	the Track Number 0 has to be divided in two separate Tracks 0R and
	0L. Therefore, the Tracks 0R and 0L are deviated from the original
	Track 0. To calculate the correct positions of these Tracks, the
	distance d0R/1 between Track 0R and 1 and the distance d0R/0L
	between 0R and 0L have to be defined.
	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

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DD Entity	669 - Bout Track Number Shift
Definition	This DDI defines the amount of tramlines the Tramline pattern is to be
	shifted.
Comment	The implement may have the possibility to give a Bout Track Number
	Shift in its calculation to shift the Tramline pattern. In that case the
	Tramline calculation is based on the following formula:
	Bout Track Number = Guidance Track Number + 1 + Bout Track
	Number Shift.
	The Task Controller shall store Bout track number shift in conjunction
	with the Unique A-B Guidance Reference Line ID. The TC shall send
	this value on change of Unique A-B Guidance Reference Line ID to
	inform the implement that it needs to take this Bout Track Number
	Shift into account. Therefore, this DDI should be settable.
	The Guidance Track Numbers are not influenced by this DDI. A
	positive Bout Track Number Shift will shift the Tramline pattern in the
	direction of the lower Guidance Track Numbers. A negative Bout
	Track Number Shift will shift the Tramline pattern in the direction of
	the higher Guidance Track Numbers.
	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	not defined - not defined
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	670 - Tramline Crop protection/fertilization Working Width
Definition	Working Width of the Crop protection/fertilization vehicle which will
	drive on the tramline tracks.
Comment	Working Width of the Crop protection/fertilization vehicle. This is also
	the distance between the single Tramline Tracks. This value is a
	manual user input and is provided by the Implement to the Task
	Controller.
	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	

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CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	671 - Tramline Tire Width
Definition	Width of the largest tire which should fit on the Tramline Track.
Comment	This is the Width of the largest tire which should fit on the Tramline
	Track. The distance between the rows besides the Tramline Track
	shall be wider than the Tire Width to avoid crop damage.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	672 - Tramline Wheel Distance
Definition	Distance between the centres of the Wheels of the Crop
	protection/fertilization vehicle.
Comment	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	673 - Tramline Irrigation Working Width
Definition	The Working Width of the Irrigation system is the Distance between
	the single Tramline Tracks for the Irrigation system.
Comment	Besides a Tramlining rhythm for a Sprayer, a second Tramlining
	rhythm with a different pattern for an irrigation system may exist.
	The Working Width of the Irrigation system is also the Distance
	between the single Tramline Tracks for the Irrigation system. This
	value is a manual user input and is provided by the Implement to the
	Tramline Controller.
	The following picture shows an example with a 6m Seed drill Width,
	24m Sprayer Width and a 66m Irrigation Width.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	674 - Tramline Irrigation Tire Width
Definition	Width of the largest tire which should fit on the Tramline Track.
Comment	This is the Width of the largest Tire which should fit on the Tramline
	Track. The distance between the rows besides the Tramline Track
	shall be wider than the Irrigation Tire Width to avoid crop damage.
	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	675 - Tramline Irrigation Wheel Distance
Definition	Distance between the centre of the Wheels of the Irrigation system.
Comment	For more details see attachment DDI 505.
Typically used by Device	4 - Planters /Seeders
Class(es)	
Unit Symbol	mm - Length
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Karsten Helweg
Submit Date	2015-12-10
Submit Company	Competence Center ISOBUS e.V.
Revision Number	1
Current Status	Published
Status Date	2022-12-02
Status Comments	

DD Entity	676 - Last Bale Binding Mesh Layers
Definition	Binding mesh layers in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2023-03-23
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2023-04-27
Status Comments	New added

DD Entity	677 - Last Bale Binding Film Layers
Definition	Binding film layers in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2023-03-23
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2023-04-27
Status Comments	New added

DD Entity	678 - Last Bale Binding Twine Layers
Definition	Binding twine layers in the most recently produced bale
Comment	The recommended use of this DDE is for a baler to report this once
	for every bale that is produced. A baler may add this to its default set
	of data, based on an internal on-change data trigger that causes the
	baler to report the value of this DDE after the bale is produced. The
	recommendation for data logging is that all "Last Bale" DDEs that are
	supported by a device are reported together at the moment that the
	bale is produced and leaves the machine.
Typically used by Device	7 - Harvesters
Class(es)	9 - Forage harvester
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Mike Schmidt on behalf of Steffen Hoffmann
Submit Date	2023-04-28
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2023-05-02
Status Comments	

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DD Entity	679 - Crop Contamination Total Mass
Definition	Accumulated mass of contamination in yield by dirt or foreign material
	as a total counter
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	680 - Crop Contamination Lifetime Total Mass
Definition	Accumulated mass of contamination in yield by dirt or foreign material
	as a lifetime counter
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	kg - Mass
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	681 - Film bale Total Count
Definition	The total number of foil or film bound product units for which foil or
	film binding method was used during operation.
Comment	Foil or Film Total Count can be used as total counter of a device
	element. It is intended to be used as task based and therefore it is
	recommended to support the on-time and on-change trigger methods.
	The total trigger method and the settable property are required for
	this DDE.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Indra Tjalma
Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	682 - Mesh bale Total Count
Definition	The total number of mesh bound product units for which mesh
	binding method was used during operation.
Comment	Mesh Total Count can be used as total counter of a device element. It
	is intended to be used as task based and therefore it is
	recommended to support the on-time and on-change trigger methods.
	The total trigger method and the settable property are required for
	this DDE.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Indra Tjalma
Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	683 - Twine bale Total Count
Definition	The total number of twine bound product units for which twine binding
	method was used during operation.
Comment	Twine Total Count can be used as total counter of a device element.
	It is intended to be used as task based and therefore it is
	recommended to support the on-time and on-change trigger methods.
	The total trigger method and the settable property are required for
	this DDE.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Indra Tjalma
Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	684 - Wrapping Film bale Total Count
Definition	The total number of wrapping units for which wrapping film binding
	method was used during operation.
Comment	Wrapping Film Total Count can be used as total counter of a device
	element. It is intended to be used as task based and therefore it is
	recommended to support the on-time and on-change trigger methods.
	The total trigger method and the settable property are required for
	this DDE.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Indra Tjalma
Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	685 - Lifetime Film Bale Total Count
Definition	Total number of film or foil bound product units for which film or foil
	binding method was used during operation, of a device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore, this DDE shall
	not be settable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE, but shall
	not support the settable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	- 2147483647
Submit by	Indra Tjalma
Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	686 - Lifetime Mesh Bale Total Count
Definition	Total number of mesh bound product units for which mesh binding
	method was used during operation, of a device lifetime
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore, this DDE shall
	not be settable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE, but shall
	not support the settable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	- 2147483647
Submit by	Indra Tjalma

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Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	687 - Lifetime Twine Bale Total Count
Definition	Total number of twine bound product units for which Twine binding
	method was used during operation, of a device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore, this DDE shall
	not be settable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE, but shall
	not support the settable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	- 2147483647
Submit by	Indra Tjalma
Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	688 - Lifetime Wrapping Film Bale Total Count
Definition	Total number of wrapping units for which wrapping film binding
	method was used during operation, of a device lifetime.
Comment	This is the overall total of the device. This total does not refer to an
	application controlled by a Task Controller. Therefore, this DDE shall
	not be settable within the device description and neither shall the
	device reset the value when the task status changed. It is up to the
	device control system when to reset this value. The Working Set
	Master shall support the total trigger method for this DDE, but shall
	not support the settable property. The Task Controller can request
	and store this DDE at the end of a task. But it shall not set this DDE
	when the task is resumed.
Typically used by Device	9 - Forage harvester
Class(es)	
Unit Symbol	# - Quantity/Count
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	- 2147483647
Submit by	Indra Tjalma

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Submit Date	2023-03-27
Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	New Request Submitted
Status Date	2023-03-27
Status Comments	

DD Entity	689 - Effective Total Electrical Battery Energy Consumption
Definition	Accumulated total electrical battery energy consumption in working
	position.
Comment	
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	kWh - Electrical energy
Resolution	0,001
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Johannes Nägele
Submit Date	2023-12-04
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2024-02-19
Status Comments	

DD Entity	690 - Ineffective Total Electrical Battery Energy Consumption
Definition	Accumulated total electrical battery energy consumption in non
	working position.
Comment	Energy throughput of the battery including secondary consumers like
	DC/DC converter, AC compressor
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	kWh - Electrical energy
Resolution	0,001
SAE SPN	

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CANBus Range	-2147483648 - 2147483647
Display Range	-2147483,648 - 2147483,647
Submit by	Johannes Nägele
Submit Date	2023-12-04
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2024-02-19
Status Comments	

DD Entity	691 - Instantaneous Electrical Battery Energy Consumption per
	Time
Definition	Electrical battery energy consumption per time
Comment	Energy throughput of the battery including secondary consumers like
	DC/DC converter, AC compressor
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	W - Electrical Power
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Johannes Nägele
Submit Date	2023-12-04
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2024-02-19
Status Comments	

DD Entity	692 - Instantaneous Electrical Battery Energy Consumption per
	Area
Definition	Electrical battery energy consumption per area
Comment	Energy throughput of the battery including secondary consumers like
	DC/DC converter, AC compressor
Typically used by Device	1 - Tractor
Class(es)	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
Unit Symbol	kWh/m² - Electrical energy per area
Resolution	0,00001

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SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-21474,83648 - 21474,836470000002
Submit by	Johannes Nägele
Submit Date	2023-12-04
Submit Company	AGCO
Revision Number	1
Current Status	Published
Status Date	2024-02-19
Status Comments	

DD Entity	32768 - Maximum Droplet Size
Definition	Definition:
	The maximum droplet size the system can produce. Defined as:
	0 = Unknown,
	1 = Extremely Fine - XF,
	2 = Very Fine - VF,
	3 = Fine - F,
	4 = Medium - M,
	5 = Coarse - C,
	6 = Very Coarse - VC,
	7 = Extremely Coarse - XC,
	8 = Ultra Coarse - UC,
	9-254 = Reserved,
	255 = No Droplet Size Available.
Comment	Droplet sizes are currently defined in ISO 25358 and are broken into
	8 classification categories and also assigned a corresponding colour
	code as follows: Extremely Fine = Purple, Very Fine = Red, Fine =
	Orange, Medium = Yellow, Coarse = Green, Very Coarse = Blue,
	Extremely Coarse = White, Ultra Coarse = Black
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 255
Display Range	0 - 255
Submit by	John Summers
Submit Date	2021-03-08
Submit Company	TeeJet Technologies
Revision Number	1
Current Status	Published
Status Date	2021-05-12
Status Comments	

DD Entity	32769 - Maximum Crop Grade Diameter
Definition	Maximum crop diameter in mm, measured with crop specific methods
Comment	The diameter of the crop to indicate its grade. An example of the
	application of this DDI is grading root crops such as potatoes and
	onions.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System

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Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	32770 - Maximum Crop Grade Length
Definition	Maximum crop length in mm, measured with crop specific methods
Comment	The length of the crop to indicate its grade.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	32771 - Maximum Crop Contamination Mass per Area
Definition	Maximum absolut mass of contamination in yield by dirt or foreign
	material per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	32772 - Maximum Crop Contamination Mass per Time
Definition	Maximum mass of contamination in yield by dirt or foreign material
	per time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	32773 - Maximum Crop Conditioning Intensity
Definition	The maximum level of crop conditioning intensity, expressed as a
	percentage of the maximum level offered by the implement.
Comment	Conditioning means, changing the physical properties of the crop. For
	example, mowers can condition the mowed crop at a particular
	intensity level, to speed up the drying process. A percentage of the
	maximum level offered by the implement' is used, because there is
	currently no known sensor which can measure a conditioning level.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0 - 10000
Submit by	Mike Schmidt
Submit Date	2024-03-13
Submit Company	AGCO Corporation
Revision Number	2
Current Status	ISO-Published
Status Date	2024-06-10
Status Comments	Status was published

DD Entity	36864 - Minimum Droplet Size
Definition	The minimum droplet size the system can produce. Defined as:
	0 = Unknown,
	1 = Extremely Fine - XF,
	2 = Very Fine - VF,
	3 = Fine - F,
	4 = Medium - M,
	5 = Coarse - C,
	6 = Very Coarse - VC,
	7 = Extremely Coarse - XC,
	8 = Ultra Coarse - UC,
	9-254 = Reserved,
	255 = No Droplet Size Available.
Comment	Droplet sizes are currently defined in ISO 25358 and are broken into
	8 classification categories and also assigned a corresponding colour
	code as follows:
	Extremely Fine = Purple,
	Very Fine = Red,
	Fine = Orange,
	Medium = Yellow,
	Coarse = Green,
	Very Coarse = Blue,
	Extremely Coarse = White,
	Ultra Coarse = Black
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 255
Display Range	0 - 255
Submit by	John Summers
Submit Date	2021-03-08
Submit Company	TeeJet Technologies
Revision Number	1
Current Status	Published
Status Date	2021-05-12
Status Comments	

DD Entity	36865 - Minimum Crop Grade Diameter
Definition	Minimum crop diameter in mm, measured with crop specific methods
Comment	The diameter of the crop to indicate its grade. An example of the
	application of this DDI is grading root crops such as potatoes and
	onions.

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Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	36866 - Minimum Crop Grade Length
Definition	Minimum crop length in mm, measured with crop specific methods
Comment	The length of the crop to indicate its grade.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	36867 - Minimum Crop Contamination Mass per Area
Definition	Minimum absolut mass of contamination in yield by dirt or foreign
	material per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	36868 - Minimum Crop Contamination Mass per Time
Definition	Minimum mass of contamination in yield by dirt or foreign material per
	time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	36869 - Minimum Crop Conditioning Intensity
Definition	The minimum level of crop conditioning intensity, expressed as a
	percentage of the maximum level offered by the implement.
Comment	Conditioning means, changing the physical properties of the crop. For
	example, mowers can condition the mowed crop at a particular
	intensity level, to speed up the drying process. A percentage of the
	maximum level offered by the implement' is used, because there is
	currently no known sensor which can measure a conditioning level.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0 - 10000
Submit by	Mike Schmidt
Submit Date	2024-03-13
Submit Company	AGCO Corporation
Revision Number	2
Current Status	ISO-Published
Status Date	2024-06-10
Status Comments	Status was published

DD Entity	40960 - Default Droplet Size
Definition	The default droplet size the system is producing. Defined as:
	0 = Unknown,
	1 = Extremely Fine - XF,
	2 = Very Fine - VF,
	3 = Fine - F,
	4 = Medium - M,
	5 = Coarse - C,
	6 = Very Coarse - VC,
	7 = Extremely Coarse - XC,
	8 = Ultra Coarse - UC,
	9-254 = Reserved,
	255 = No Droplet Size Available.
Comment	Droplet sizes are currently defined in ISO 25358 and are broken into
	8 classification categories and also assigned a corresponding colour
	code as follows:
	Extremely Fine = Purple,
	Very Fine = Red,
	Fine = Orange,
	Medium = Yellow,
	Coarse = Green,
	Very Coarse = Blue,
	Extremely Coarse = White,
	Ultra Coarse = Black
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 255
Display Range	0 - 255
Submit by	John Summers
Submit Date	2021-05-12
Submit Company	TeeJet Technologies
Revision Number	1
Current Status	Published
Status Date	2021-05-12
Status Comments	

DD Entity	40961 - Default Crop Grade Diameter
Definition	Default crop diameter in mm, measured with crop specific methods
Comment	The diameter of the crop to indicate its grade. An example of the
	application of this DDI is grading root crops such as potatoes and
	onions.

Typically used by Device	4 - Planters /Seeders
1	
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	40962 - Default Crop Grade Length
Definition	Default crop length in mm, measured with crop specific methods
Comment	The length of the crop to indicate its grade.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	40963 - Default Crop Contamination Mass per Area
Definition	Default absolut mass of contamination in yield by dirt or foreign
	material per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	40964 - Default Crop Contamination Mass per Time
Definition	Default mass of contamination in yield by dirt or foreign material per
	time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	40965 - Default Crop Conditioning Intensity
Definition	The default level of crop conditioning intensity, expressed as a
	percentage of the maximum level offered by the implement.
Comment	Conditioning means, changing the physical properties of the crop. For
	example, mowers can condition the mowed crop at a particular
	intensity level, to speed up the drying process. A percentage of the
	maximum level offered by the implement' is used, because there is
	currently no known sensor which can measure a conditioning level.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0 - 10000
Submit by	Mike Schmidt
Submit Date	2024-03-13
Submit Company	AGCO Corporation
Revision Number	2
Current Status	ISO-Published
Status Date	2024-06-10
Status Comments	Status was published

DD Entity	45056 - Actual Droplet Size
Definition	The actual droplet size the system is producing. Defined as:
	0 = Unknown,
	1 = Extremely Fine - XF,
	2 = Very Fine - VF,
	3 = Fine - F,
	4 = Medium - M,
	5 = Coarse - C,
	6 = Very Coarse - VC,
	7 = Extremely Coarse - XC,
	8 = Ultra Coarse - UC,
	9-254 = Reserved,
	255 = No Droplet Size Available.
Comment	Droplet sizes are currently defined in ISO 25358 and are broken into
	8 classification categories and also assigned a corresponding colour
	code as follows:
	Extremely Fine = Purple,
	Very Fine = Red,
	Fine = Orange,
	Medium = Yellow,
	Coarse = Green,
	Very Coarse = Blue,
	Extremely Coarse = White,
	Ultra Coarse = Black
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 255
Display Range	0 - 255
Submit by	John Summers
Submit Date	2021-03-08
Submit Company	TeeJet Technologies
Revision Number	1
Current Status	Published
Status Date	2021-05-12
Status Comments	

DD Entity	45057 - Actual Crop Grade Diameter
Definition	Actual crop diameter in mm, measured with crop specific methods
Comment	The diameter of the crop to indicate its grade. An example of the
	application of this DDI is grading root crops such as potatoes and
	onions.

Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	45058 - Actual Crop Grade Length
Definition	Actual crop length in mm, measured with crop specific methods
Comment	The length of the crop to indicate its grade.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	45059 - Actual Crop Contamination Mass per Area
Definition	Absolut mass of contamination in yield by dirt or foreign material per
	area, see also DDI 100.
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	45060 - Actual Crop Contamination Mass per Time
Definition	Absolut mass of contamination in yield by dirt or foreign material per
	time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	45061 - Actual Crop Conditioning Intensity
Definition	The actual level of crop conditioning intensity, expressed as a
	percentage of the maximum level offered by the implement.
Comment	Conditioning means, changing the physical properties of the crop. For
	example, mowers can condition the mowed crop at a particular
	intensity level, to speed up the drying process. A percentage of the
	maximum level offered by the implement' is used, because there is
	currently no known sensor which can measure a conditioning level.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0 - 10000
Submit by	Mike Schmidt
Submit Date	2024-03-13
Submit Company	AGCO Corporation
Revision Number	2
Current Status	ISO-Published
Status Date	2024-06-10
Status Comments	Status was published

DD Entity	49152 - Setpoint Droplet Size
Definition	The setpoint for droplet size. Defined as:
	0 = Unknown,
	1 = Extremely Fine - XF,
	2 = Very Fine - VF,
	3 = Fine - F,
	4 = Medium - M,
	5 = Coarse - C,
	6 = Very Coarse - VC,
	7 = Extremely Coarse - XC,
	8 = Ultra Coarse - UC,
	9-254 = Reserved,
	255 = No Droplet Size Available.
Comment	Droplet sizes are currently defined in ISO 25358 and are broken into
	8 classification categories and also assigned a corresponding colour
	code as follows:
	Extremely Fine = Purple,
	Very Fine = Red,
	Fine = Orange,
	Medium = Yellow,
	Coarse = Green,
	Very Coarse = Blue,
	Extremely Coarse = White,
	Ultra Coarse = Black
Typically used by Device	4 - Planters /Seeders
Class(es)	5 - Fertilizer
	6 - Sprayers
	10 - Irrigation
	17 - Sensor System
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	0 - 255
Display Range	0 - 255
Submit by	John Summers
Submit Date	2021-03-08
Submit Company	TeeJet Technologies
Revision Number	1
Current Status	ISO-Published
Status Date	2021-05-12
Status Comments	Status was published

DD Entity	49153 - Setpoint Crop Grade Diameter
Definition	Setpoint crop diameter in mm, measured with crop specific methods
Comment	The diameter of the crop to indicate its grade. An example of the
	application of this DDI is grading root crops such as potatoes and
	onions.

Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	49154 - Setpoint Crop Grade Length
Definition	Setpoint crop length in mm, measured with crop specific methods
Comment	The length of the crop to indicate its grade.
Typically used by Device	4 - Planters /Seeders
Class(es)	7 - Harvesters
	8 - Root Harvester
	14 - Special Crops
	17 - Sensor System
Unit Symbol	mm - Length
Resolution	0,001
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	0 - 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-03-24
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-15
Status Comments	

DD Entity	49155 - Setpoint Crop Contamination Mass per Area
Definition	Setpoint of the absolut mass of contamination in yield by dirt or
	foreign material per area
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/m² - Mass per area unit
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	- 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	49156 - Setpoint Crop Contamination Mass per Time
Definition	Setpoint of the mass of contamination in yield by dirt or foreign
	material per time
Comment	
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
Unit Symbol	mg/s - Mass flow
Resolution	1
SAE SPN	
CANBus Range	0 - 2147483647
Display Range	- 2147483647
Submit by	Hendrik Hageböke
Submit Date	2023-05-02
Submit Company	GRIMME Landmaschinen GmbH & Co.KG
Revision Number	1
Current Status	Published
Status Date	2023-05-31
Status Comments	

DD Entity	49157 - Setpoint Crop Conditioning Intensity
Definition	The setpoint level of crop conditioning intensity, expressed as a
	percentage of the maximum level offered by the implement.
Comment	Conditioning means, changing the physical properties of the crop. For
	example, mowers can condition the mowed crop at a particular
	intensity level, to speed up the drying process. A percentage of the
	maximum level offered by the implement' is used, because there is
	currently no known sensor which can measure a conditioning level.
Typically used by Device	7 - Harvesters
Class(es)	8 - Root Harvester
	9 - Forage harvester
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	% - Percent
Resolution	0,01
SAE SPN	
CANBus Range	0 - 10000
Display Range	0 - 10000
Submit by	Mike Schmidt
Submit Date	2024-03-13
Submit Company	AGCO Corporation
Revision Number	2
Current Status	ISO-Published
Status Date	2024-06-10
Status Comments	Status was published

DD Entity	57342 - PGN Based Data
Definition	This DDI is used in the XML files to identify PGN based data.
Comment	This DDI is specified in ISO 11783-10 IS paragraph 6.3 Logging
	parameters from parameter groups.
Typically used by Device	0 - Non-specific system
Class(es)	1 - Tractor
	2 - Primary Soil Tillage
	3 - Secondary Soil Tillage
	4 - Planters /Seeders
	5 - Fertilizer
	6 - Sprayers
	7 - Harvesters
	8 - Root Harvester
	9 - Forage harvester
	10 - Irrigation
	11 - Transport / Trailers
	12 - Farmyard Work
	13 - Powered Auxilary Units
	14 - Special Crops
	15 - Municipal Work
Unit Symbol	n.a
Resolution	1
SAE SPN	
CANBus Range	-2147483648 - 2147483647
Display Range	-2147483648 - 2147483647
Submit by	Part 10 Task Force
Submit Date	2005-01-25
Submit Company	0 - Reserved
Revision Number	1
Current Status	ISO-Approved
Status Date	2009-02-05
Status Comments	Added to the on-line database

DD Entity	57343 - Request Default Process Data
Definition	Request Default Process Data. This DDE is the highest ISO assigned
	entity. The range above this number is reserved for manufacture
	specific DDE's.
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	1
SAE SPN	not specified
CANBus Range	0 - 0
Display Range	0 - 0
Submit by	11783-Part 10 Task Force
Submit Date	2005-01-20

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Submit Company	89 - Kverneland Group, Electronics Division
Revision Number	1
Current Status	Published
Status Date	2023-07-10
Status Comments	Comment "This DDE was a result of March 2005 TF10 meeting."
	removed

DD Entity	57344 - 65534 Proprietary DDI Range
Definition	Manufacturer proprietary definitions
Comment	It is not recommended to process proprietary DDEs from other
	manufacturers
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	0
SAE SPN	
CANBus Range	-
Display Range	-
Submit by	Part 10 Task Force
Submit Date	0000-00-00
Submit Company	0 - Reserved
Revision Number	1

DD Entity	65535 - Reserved
Definition	Reserved
Comment	
Typically used by Device	- Not Assigned
Class(es)	
Unit Symbol	n.a
Resolution	0
SAE SPN	
CANBus Range	-
Display Range	-
Submit by	Part 10 Task Force
Submit Date	0000-00-00
Submit Company	0 - Reserved
Revision Number	1