

ISOBUS 11783 Online Data Base

This document provides an overview how to use the online data base to request a new Data Dictionary Element and some general information.

Contents

Home Screen	2
VDMA Header Line	3
ISOBUS Data Dictionary according to ISO11783-11	4
Data Management	4
Export	4
Files	4
ISOBUS Parameters according to ISO 11783-1, ISO 11783-7 and ISO 11783-12	5
Exports	5
How to submit a change request or to request a new DDE	10
Registration	10
Login	12
User Home-Screen	12
Submit a change request for an existing DDE	13
Submit a request for a new DDE	17
General information	20
Duration of user registration	20
Process after a new DDI or a change request was submitted	20
Notifications for registered users	20
DDI URL and Jason Link	21
DDI Name-Definitions and Usage Rules	21
Total DDIs	21
Other DDIs	21



International
Organization for
Standardization

ISO 11783-11 Mobile Data Element Dictionary Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Home Screen

The screenshot shows the home screen of the ISOBUS 11783 Online Data Base. At the top, there is a dark blue header with the VDMA logo on the left and a 'Login' button on the right. Below the header is a navigation menu with the following items: 'Manufacturer Code', 'Device Class/Function', 'Addresses', 'PGN and SPN', 'Process Data DDI', and 'Functionality/Option'. A breadcrumb trail shows 'Home >'. The main content area is divided into two sections. The first section is titled 'ISOBUS Data Dictionary according to ISO 11783-11' and contains three sub-sections: 'Data Management' with links for 'View DD Entities/Request changes', 'Request new entity', and 'How to request DD Entities and changes'; 'Exports' with links for 'Data Dictionary: Complete list of entities with details - PDF' and 'Data Dictionary: Complete list of entities with details - TXT'; and 'Files' with a link for 'Supporting Documents'. The second section is titled 'ISOBUS Parameters according to ISO 11783-1, ISO 11783-7 and ISO 11783-12' and contains an 'Exports' sub-section with links for 'ISOBUS Parameters: Complete list with details - XLSX', 'ISOBUS Parameters: Complete list with details - CSV', 'ISO11783 Standard Parts and Versions - XLSX', and 'SAE J1939 Request form - MS-Word'. At the bottom of the page, there is a dark blue footer with links for 'Imprint', 'Contact', 'Privacy', and 'Help'.

From the home screen you can review DDIs and download supporting documents and navigate to other screens.



ISO 11783-11 Mobile Data Element Dictionary Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

VDMA Header Line

Within the header line you can switch between the different information areas offered by the ISOBUS Online Data Base:

- Manufacture Code
- Device Class/Function
- Addresses
- PGN and SPN
- Process Data DDI
- Functionality Option

To switch to the different topics just click on the text.

- Administration

Click on “*My Account*” to view or change your personal settings.



ISOBUS Data Dictionary according to ISO11783-11

Data Management

- View DD Entities/Request changes
 - Viewing existing DDI's
 - Request changes (only registered users)
- Request new entity
 - Request new DDI's (only registered users)
- How to request DD Entities and changes
 - Opens the help document

Export

- Data Dictionary: Complete list of entities with details – PDF
 - Does generate a PDF document of all DD Entities including all details
- Data Dictionary: Complete list of entities with details – TXT
 - Does generate a simple text document of all DD Entities that can be read by software applications

Files

- Supporting Documents
 - Provides a list of additional supporting documents like ISO XML Schema files to support the development of ISOBUS applications



ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

ISOBUS Parameters according to ISO 11783-1, ISO 11783-7 and ISO 11783-12

Under Exports you can download information and parameters from ISOBUS-1, -7, and 12 as well as an overview of the current status and the request form for Functions Codes or PGNs.

Exports

- ISOBUS Parameters: Complete list with details – XLSX
- ISOBUS Parameters: Complete list with details – CSV
- ISO11783 Standard Parts and Versions – XLSX
- SAE J1939 Request form – MS-Word

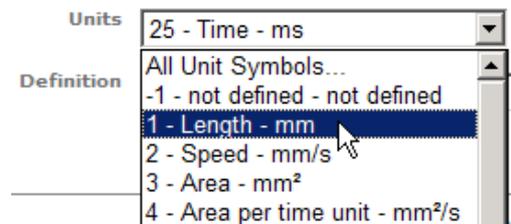
© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
 No reproduction on networking permitted without license from ISO

Process Data DDI

The List DDEntity page presents the Data Dictionary Elements depending on the settings of the drop down menu settings. Above the Units pull-down menu the current version of the data base is displayed. It shows the information when the last change/update was done.

Manufacturer Code	Device Class/Function	Addresses	PGN and SPN	Process Data DDI	Functionality/Option
Home > DDI Entities					
List DDEntity					Version: 2020021001
DD Identifier	All DD Identifiers...	Units	All Unit Symbols...	Typically used by Device Class(es)	All Device Classes...
		Definition		Search	
Show Requests <input type="checkbox"/>					
Displaying 1-100 of 632 results.					
1 - Setpoint Volume Per Area Application Rate as [mm³/m²]				View details	Request changes
Definition:	Setpoint Application Rate specified as volume per area as [mm ³ /m ²]				
Unit Symbol:	mm ³ /m ²				
Typically used by Device Class(es):	4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 10 - Irrigation				
Bit Resolution:	0,01				
...					
20 - Maximum Spacing Application Rate				View details	Request changes
Definition:	Maximum Application Rate specified as distance: e.g. seed spacing of a precision seeder				
Unit Symbol:	mm				
Typically used by Device Class(es):	4 - Planters /Seeders 5 - Fertilizer				
Go to page: < Previous 1 2 3 4 5 6 7 8 9 10 Next >					
Imprint Contact Help					

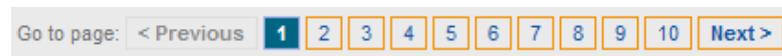
You can filter the DDI per Device Class or Units. Click on the appropriate drop down menu and select your desired filter, for instance length unit filter:



Use the “*DD Identifier*” menu to display only one certain DDI or the “*Definition*” menu to search for a free text which.

In case you have changed the filter and the page is not updated automatically click on the “*Search →*” button to start the update process.

In case of multiple results use the control elements on the bottom of the page to switch between the pages.



Note on the Typically used by Device Class(es) definition:

The listed device classes are only helpful hints where this DDE is often used. This means that the Data Dictionary Identifier (DDI) can be also used in device description object pools of device classes that are not listed here!



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Click on the DDI link e.g. “1- Setpoint Volume Per Area Application Rate” or the “View details” link to get more detailed information about the DDE.

Details for DDEntity "1 - Setpoint Volume Per Area Application Rate as [mm³/m²]"

1 - Setpoint Volume Per Area Application Rate as [mm ³ /m ²]		Request changes
Definition	Setpoint Application Rate specified as volume per area as [mm ³ /m ²]	
Comment		
Typically used by Device Class(es)	4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 10 - Irrigation	
Unit Symbol	mm ³ /m ² -	
Bit Resolution	0,01	
SAE SPN	not specified	
CANBus Range	0 to 2147483647	
Display Range	0,00 to 21474836,47	
Submit Date	0000-00-00	
Submit By	Part 10 Task Force	
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.	
Attachments		
Status History	2005-02-02: ISO-Published DDEs have been moved to published for creating the new Annex A version. 2005-01-07: ISO-Approved 2003-08-01: ISO-Submitted (Pending) This DDE was created prior to loading the new database.	

[Back](#)

To get back to the previous page use the “Back” or the “DD Entities” link. To return to the start page use the “Home” link.

DDI Attachments

Some DDIs have helpful attachments which contain information and recommendations how the DDI should be used. There is a paper clip symbol behind the DDI name which indicates that there is an attachment available.

160 - Section Control State 

[View details](#) [Request changes](#)

To download the attachment you have to click “View details” to change to the detailed view of the DDI. The download link for the attached documents is located on the bottom of this page.

Attachments

[SCS Implementation Example.pdf](#) 119.75 KB

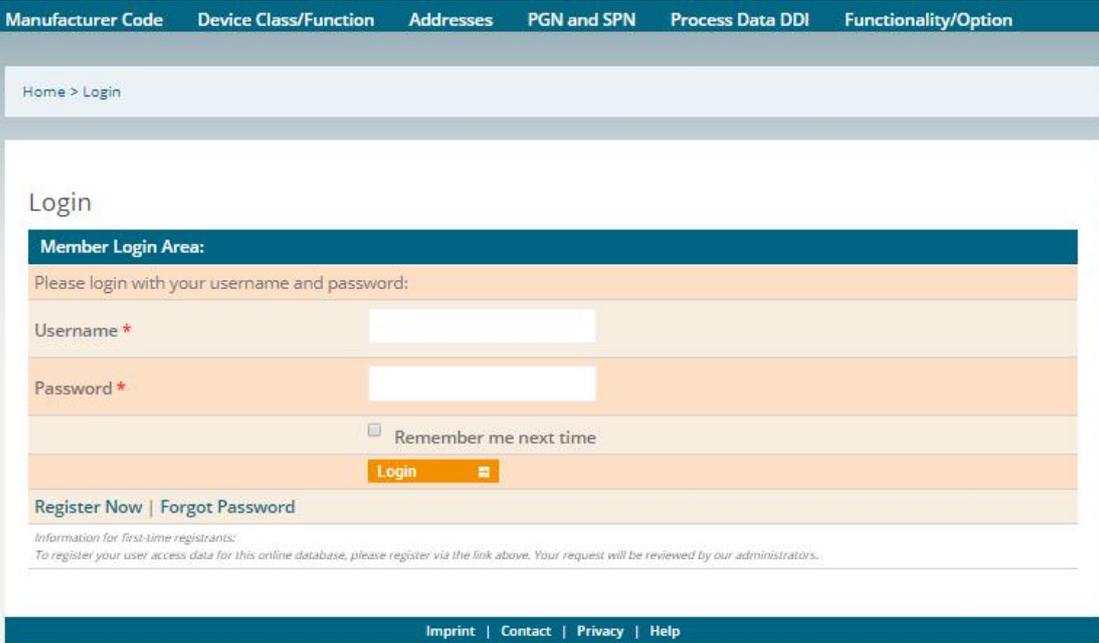
Section Control State example (uploaded at: 2009-08-07 20:00:23)

[Back](#)

How to submit a change request or to request a new DDE

Registration

For a change request or to request a new DDE you need to register first. You can open the login page by click on the “Login →” button or the “Request new entity” link on the start page or by click on the “Request changes” link on the List Entity view.



Click on the “*Register Now*” link to open the registration form, see next page. Fill out the form a click on the “*Register*” button.



International
Organization for
Standardization

ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Member Registration

Fields with * are required.

User Name *	<input type="text"/>
Password *	<input type="password"/>
Confirm Password *	<input type="password"/>
First Name *	<input type="text"/>
Last Name *	<input type="text"/>
Company *	<input type="text"/>
Email *	<input type="text"/>
Phone *	<input type="text"/>
Address *	<input type="text"/>
Zip *	<input type="text"/>
City *	<input type="text"/>
State	<input type="text"/>
Country *	<input type="text"/>
Intended Purpose (specify what the access is needed for) *	<input type="text"/>

As soon as your account is arranged you will be notified via E-Mail.

Login

Go to the ISO11783-11 online data base start page click on the “Login →” button and use your requested User Name and your Password to login to the online data base. Once you have logged in you will see you home page.

User Home-Screen

On the Home screen you have now additional information and download capabilities.

➤ Overview about existing pending requests

Pending Requests

- › N322.1 - Max Steering Angle (submitted on 2013-04-10 by)
- › N342.1 - Cutting Angle (submitted on 2013-12-04 by Marc-Kevin Doeker)
- › R349.1 - Nozzle Drift Reduction (submitted on 2018-05-23 by Mike Schmidt)
- › N351.1 - Unique Task ID (submitted on 2013-12-04 by Marc-Kevin Doeker)
- › N354.1 - SC Zero Speed Reaction (submitted on 2013-12-04 by Marc-Kevin Doeker)

➤ Additional download capabilities

Export all Requests:

- › Export as XLS
- › Export as CSV

Exports

- › Data Dictionary: Complete list of entities with details - PDF
- › Data Dictionary: Complete list of entities with details - TXT

Entity export:

- › XLS
- › CSV

Entity export with Requests:

- › XLS
- › CSV



ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Submit a change request for an existing DDE

Go to the “List DDEntity” page by hitting on the “ViewDD Entities / Request changes” link and click on the “Request changes” link for the appropriate DDI where you want to change the definition.

List DDEntity

DD Identifier: All DD Identifiers... Units: All Unit Symbols...

Typically used by Device Class(es): All Device Classes... Definition:

Show Requests Search

Displaying 1-20 of 322 result(s).

1 - Setpoint Volume Per Area Application Rate		View details	Request changes
Definition:	Setpoint Application Rate specified as volume per area		
Unit Symbol:	mm ³ /m ²		
Typically used by Device Class(es):	4 - Planters /Seeders 5 - Fertilizer 6 - Sprayers 10 - Irrigation		

Once you have clicked on the link the Change Request form will open, see next two pages.



Request changes for Entity "1 - Setpoint Volume Per Area Application Rate"

*Fields with * are required.*

DD Identifier	1
Name *	Setpoint Volume Per Area Application Rate
Definition	Setpoint Application Rate specified as volume per area
Comment	
Typically used by Device Class(es)	<ul style="list-style-type: none">Not AssignedNon-specific systemTractorPrimary Soil TillageSecondary Soil TillagePlanters /SeedersFertilizerSprayersHarvestersRoot HarvesterForage harvester
Units	6 - Capacity per area unit - mm ³ /m ²
Bit Resolution	0,01
SAE SPN	<input checked="" type="radio"/> No SAE SPN <input type="radio"/> Existing SAE SPN <input type="radio"/> Request SPN at SAE
Submit Date	0000-00-00

Note: if you select "Existing SAE SPN" then the following line will appear to enter the SPN number.

Existing SPN	<input type="text"/>
--------------	----------------------



International
Organization for
Standardization

ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Submit By	Part 10 Task Force
Submit Company	89 - Kverneland Group, Electronics Division
Range	0 to 2147483647
Status History	
Status Update	Date 2011-10-26
	Status Comments <input type="text"/>
Attachments	Upload file: <input type="text"/> <input type="button" value="Browse..."/> Optional Description: <input type="text"/> Please use the official template for attachments only. Download template
<input type="button" value="Send Request"/> <input type="button" value="Save as draft"/> <input type="button" value="Cancel"/>	

Add, change or remove definitions on the form for the appropriate elements you want to change.

If your request requires a new unit type you need to set the unit definition to “1- not defined” and add a note in the Comment filed about the new unit type.

Note: If there are multiple unit symbols (different solutions) are listed within the unit list try to choose the SI basic unit as long as the value range permits it.
Example: Choose L instead of ml and adjust the bit resolution.

If you want to add an attachment to the DDE download the template first by click on the “*Download template*” on the bottom of the page. Once you have created a document you can upload it by click on the “*Browse...*” button.

To cancel the current form click on the “*Cancel →*” button.

If the form is complete click on the “*Send Request*” button to submit your change request. Afterwards you will receive a confirmation E-Mail.



ISO 11783-11 Mobile Data Element Dictionary Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

In case you cannot finish the change request you can save it as a draft and finish it as soon as your schedule allows it. Use the “*Save as draft*” button to save the current form. You can reopen the draft to complete it by click on the “*Edit*” link on the main page. You can delete the draft by click on the “*Delete*” link.

ISOBUS Data Dictionary according to ISO 11783-11

Home >

Logout ()

ISOBUS Data Dictionary according to ISO 11783-11

Data Management

- View DD Entities/Request changes
- Request new entity
- How to request DD Entities and changes

Saved drafts

R3.1 - Default Volume Per Area Application Rate (Date: 2012-07-18) [Edit](#) | [Delete](#)
Export drafts: [XLS](#) | [CSV](#)

Exports

[Data Dictionary: Complete list of entities with details - PDF](#)

Administration

[Edit my details](#)

Imprint | Contact | Help



ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Submit a request for a new DDE

Click on the “Request new entity” link on the start page to open the Create DDEntity form.

Create DDEntity

*Fields with * are required.*

DD Identifier	
Name *	<input type="text"/>
Definition	<input type="text"/>
Comment	<input type="text"/>
Typically used by Device Class(es)	<ul style="list-style-type: none">Not AssignedNon-specific systemTractorPrimary Soil TillageSecondary Soil TillagePlanters /SeedersFertilizerSprayersHarvestersRoot HarvesterForage harvester
Units	<input type="text" value="-1 - not defined - not defined"/>
Bit Resolution	<input type="text" value="1"/>
SAE SPN	<input checked="" type="radio"/> No SAE SPN <input type="radio"/> Existing SAE SPN <input type="radio"/> Request SPN at SAE
Submit Date	<input type="text" value="2013-04-05"/>
Submit By	<input type="text"/>
Submit Company	<input type="text"/>

Note about Units:

Note: if you select “Existing SAE SPN” then the following line will appear to enter the SPN number.

Existing SPN	<input type="text"/>
Range	0 <input type="text"/> to 0 <input type="text"/>
Status History	
Status Update	Date 2011-10-26
	Status Comments <input type="text"/>
Attachments	Upload file: <input type="text"/> <input type="button" value="Browse..."/>
	Optional Description: <input type="text"/>
	Please use the official template for attachments only. Download template
<input type="button" value="Send Request"/>	<input type="button" value="Save as draft"/> <input type="button" value="Cancel"/>

Fill out the definition elements. Thereby describe the Definition of the new DDE in a detailed manner and use the Comment element to provide additional information about the usage of the new DDI.

If you want to add an attachment to the DDE download the template first by click on the “*Download template*” on the bottom of the page. Once you have created a document you can upload it by click on the “*Browse...*” button.

In case you cannot finish your request you can save it as a draft and finish it as soon as your schedule allows it. Use the “*Save as draft*” button to save the current form. You can reopen the draft to complete it by click on the “*Edit*” link on the main page. You can delete the request by click on the “*Delete*” link.

To cancel the current form click on the “*Cancel* →” button.

If the form is complete click on the “*Send Request*” button to submit your request. Afterwards you will receive a confirmation E-Mail.



International
Organization for
Standardization

ISO 11783-11 Mobile Data Element Dictionary Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

Once you have submitted requests or a change requests you will see the status of these requests on you start page.

ISOBUS Data Dictionary according to ISO 11783-11

Home >

Logout ()

ISOBUS Data Dictionary according to ISO 11783-11

Data Management

- View DD Entities/Request changes
- Request new entity
- How to request DD Entities and changes

Pending Requests

*N266.1 - Lifetime Application Total Mass (submitted on 2012-01-09 by) [Details](#)
Export all Requests: [XLS](#) | [CSV](#)

Exports

[Data Dictionary: Complete list of entities with details - PDF](#)

Administration

[Edit my details](#)

Imprint | Contact | Help

Registered user will get an overview on the start page about the pending and saved request. They have the opportunity to reopen saved drafts or to delete them. It is also possible to view request that were submitted by others.

In addition it is possible to download the current DDI list and the submitted DDI list as an excel spreadsheet by use of the appropriate links.

***Note:**

*The DDI number that is assigned to your request is only a preliminary one!
During the approval process and depending on how many other requests are in the loop the final DDI number might be different.*



**ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info**



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

General information

Duration of user registration

Once you are a registered user your account will be valid as long as you have open requests. If your requests were approved or rejected your account will be deleted after 3 months without any data base activity. You will be notified via E-Mail before your account will be closed.

Process after a new DDI or a change request was submitted

After you have submitted a request you will be notified via E-Mail that your request(s) have been received.

The appropriate ISOBUS group will then review the submitted request(s). If they need additional information they may contact you via E-Mail or invite you to a telephone conference to clarify open questions.

Depending on the group decision you will be notified whether your request was approved or rejected.

Notifications for registered users

As a registered user you will get notified via E-Mail when a new approved DDI was added to the online data base. Beyond that you will get notified if any action from you is required where you have submitted a change request or a new DDI.



International
Organization for
Standardization

ISO 11783-11
Mobile Data Element Dictionary
Online Data Base Info



© Copyright International Organization for Standardization, see: www.iso.org/iso/copyright.htm
No reproduction on networking permitted without license from ISO

DDI URL and Jason Link

The online data base supports Jason File's and a secure link to DDI numbers.
The following information is provided to access the DDI information directly from the Internet:

DDI Link

<https://www.isobus.net/isobus/dDEntity/detail/DDI-Number>

Example with DDI 70

<https://www.isobus.net/isobus/dDEntity/detail/70>

Jason File Support

<https://isobus.net/isobus/dDEntity/detailJson/DDI-Number>

Example with DDI 156

<https://isobus.net/isobus/dDEntity/detailJson/156>

DDI Name-Definitions and Usage Rules

Total DDIs

DDIs which contain the word "Total" in the name shall support the total bit "Process data available trigger methods" of the DeviceProcessDataObject within the DDOP definition.

Other DDIs

For all other DDIs if an entry does not have the keyword 'average' in the name or the definition, a FMIS shall assume that it is the current value – at the time it is logged. The value is either bound to the timestamp of the TLG record or to the timestamp(s) of the TIM element.