

Data Declaration System

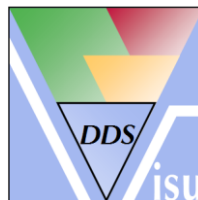
DDS AddOn's

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DDS Contact

email: contact@visu-it.com

Internet: <http://www.visu-it.de/DDS>



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Visual Information Technologies GmbH
An der Schergenbreite 1
93059 Regensburg

1 Purpose and scope

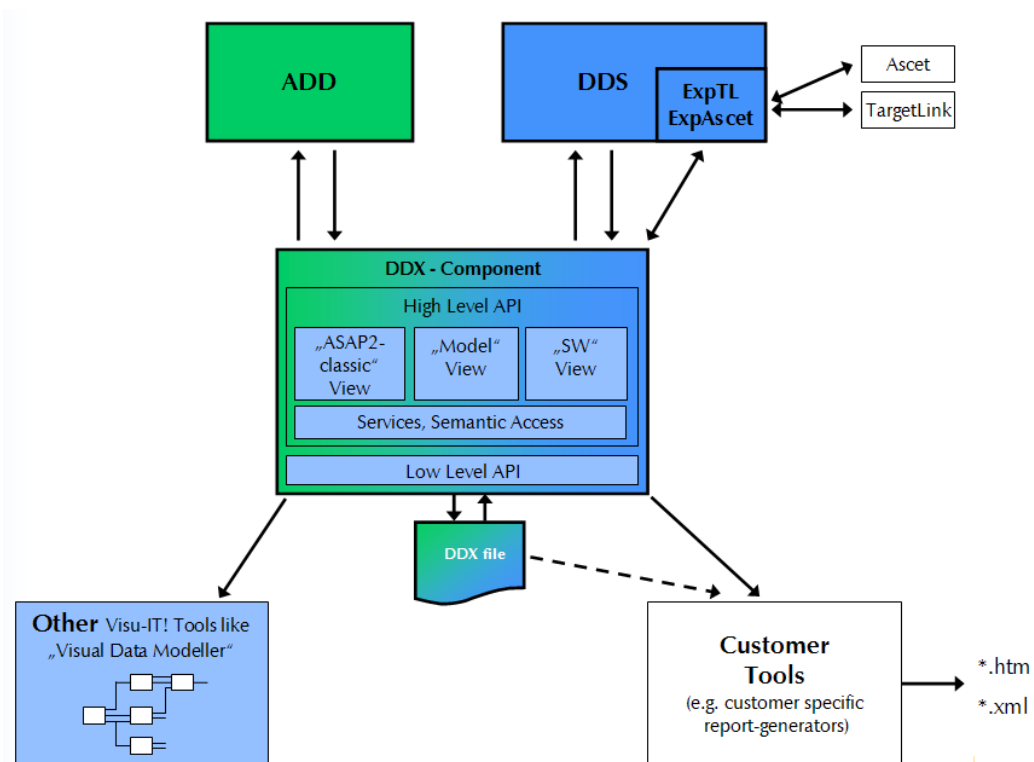
This document describes the possible DDS AddOn components/filters provided with DDS V7.3. These components are not included in the standard DDS installation but are available as separate AddOn packages.

2 DDS AddOn's

2.1 DDX Package

The objectives behind the DDX (Data Declaration eXchange) file format are:

- provide a comprehensive XML file/schema which is able to cover the current data declaration contents, e.g. ADD and DDS and ASAP2 contents
- use standards as much as possible
 - > The DDX format follows the "ASAM MCD 2 Harmonized Data Objects" data model for base elements like conversions, dataTypes, etc.



2.1.1 DDX Export

This filter takes the data from the DDS database and writes it into a specific XML file. The extension for this file is '.ddx'. At the moment, the DDX format covers round about 70% of the DDS data model contents.

The contents of the DDX file is defined in the XML Schema file "DDX.xsd" which is located in the DDS 'Tools' directory.

For further details about this component please see the DDS online help.

2.1.2 DDX Import

The Import DDX filter can be used to import a DDX file into a DDS project data pool. The newly imported information can be added to an existing data pool, or it replaces existing information from an earlier import.

For further details about this component please see the DDS online help.

2.1.3 Export to Ascet

This filter takes the data from the DDS data pool and writes it into the specified ASCET-SD database.

As all DDS filters, also the "Export to Ascet" filter can be launched inside the DDS Editor and in command line.

In addition to that, there is the possibility to integrate the export as plug-in into Ascet.

2.1.3.1 Integration in Ascet as plug-in

From the ASCET-SD environment it is possible to directly import or update an ADD container / DDS function by using the DDS "Export to Ascet" filter.

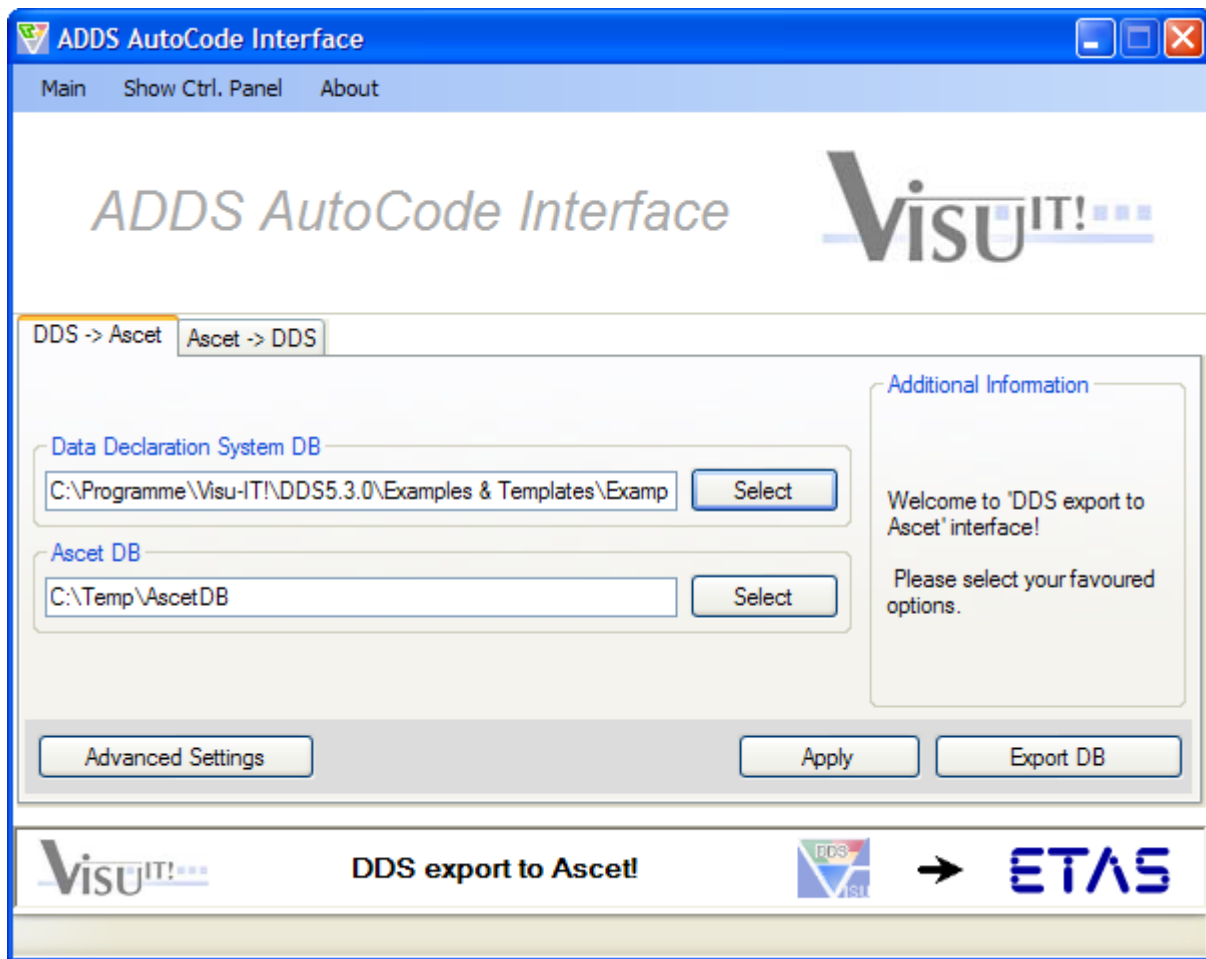
To do this the following steps have to be performed:

Installation/setup of plug-in

- Close ASCET-SD
- Copy the content of the directory "<DDS installation path>\Tools\DDXMan\Ascet\executer" into the "executer" directory of your ASCET-SD installation.

Importing data from DDS/ADD

- Start ASCET-SD
- Now you will find a new menu entry "Visu-IT! Tools" with the submenus "ADD Interface" and "DDS Interface".
- Click on the submenu "DDS Interface" to get the following form:



- Enter the necessary information and press "Export DB" to start the export.

For further details about this component please see the DDS online help.

2.1.4 Export to TargetLink

This filter takes the data from the DDS database and writes it into the dSpace Data Dictionary. The extension for this file is ".dd".

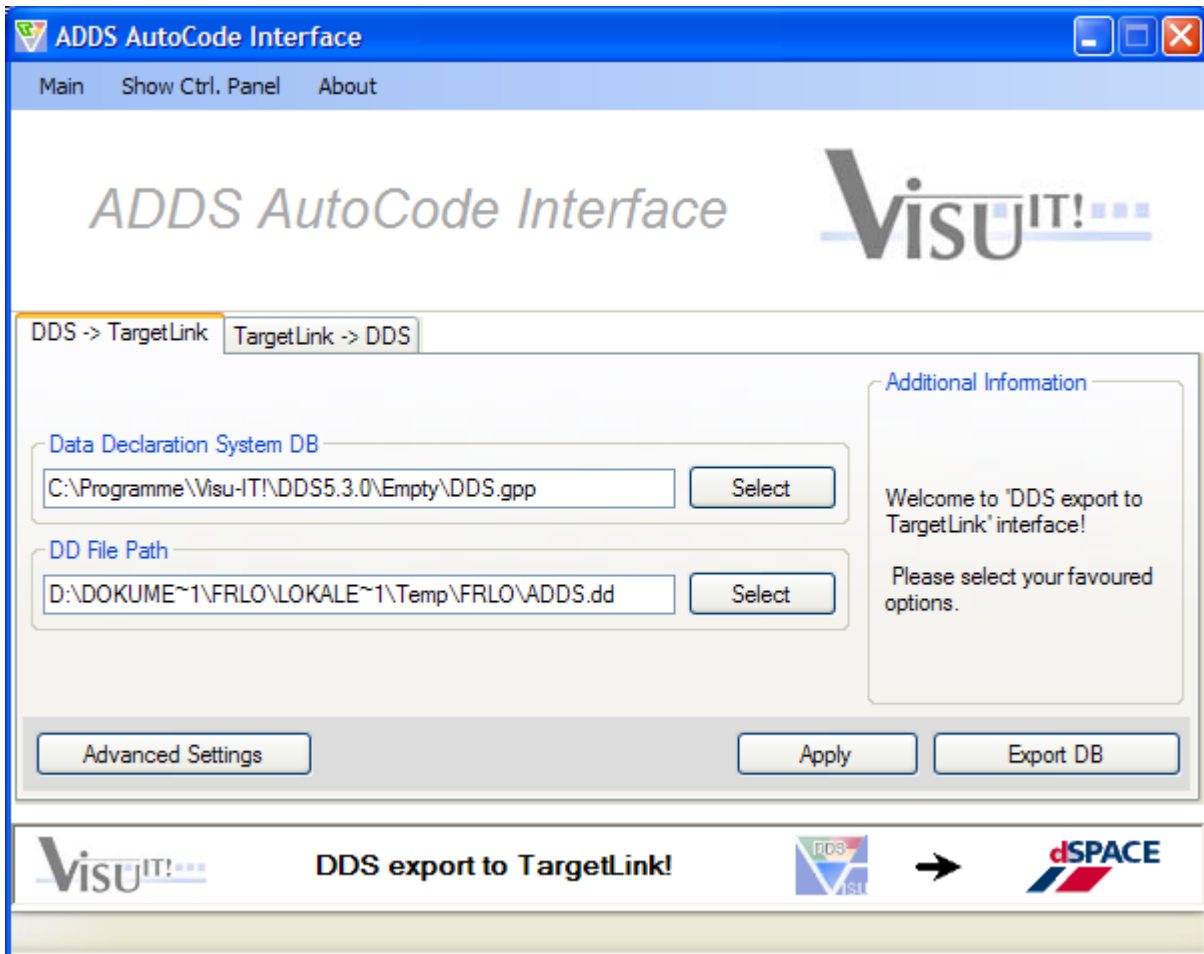
There are two ways to generate the ".dd" file:

1. Generate m-files only
In this case, the export generates only m-files in the specified target directory (via option "DDSTLMappingFile") but does not execute them (-> don't start MatLab Server to generate the ".dd" file).
2. Generate m-files and automatically generate a ".dd" file
In this case the script "WriteIntoDSpaceDD.m" will be automatically started in Matlab in order to generate the ".dd" file.

As all DDS filters, also the "Export to TL" filter can be launched inside the DDS Editor and in command line. In addition to that, there is the possibility to use the standalone tool "ADDSInterface" to import DDS data into the dSpace DD:

Importing data from DDS/ADD

- Start the tool "ADDStInterface.exe"
- Enter the necessary information and press "Export DB" to start the export.



For further details about this component please see the DDS online help.

2.2 Further ASAM exchange formats

2.2.1 ASAM MDX V1.0

DDS provides an export filter which generates an output file following the ASAM AE standard "Meta Data Exchange Format for Software V1.0".

2.3 Other AddOn's


2.3.1 Export/Update Data Record (ExpDR)

This filter takes the initial values from the entities in the DDS database which have a valid address assigned and writes it into a (HEX-) data record file. It's also possible to create a completely new HEX file into which the initial values will be written to. In this case the start address, the size and the fill byte for the new data record have to be entered in the configuration panel to ensure that a correct HEX file can be created.

When a HEX file is already available, the filter can be configured to generate a CVX file with the former (old) values of the HEX file in parallel to the initial value export from the DDS database.
For further details about this component please see the DDS online help.

3 Questions?

If you have any questions about these AddOn components, please contact the Visu-IT! DDS Hotline:

<p>DDS Hotline Tel.: +49 (0)941 / 49082 - 16 email: hotline@visu-it.com</p>	 The logo for DDS (Digital Data System) features a stylized 'V' shape composed of several overlapping triangles in green, red, yellow, and blue. The letters 'DDS' are written in a bold, sans-serif font across the center of the 'V'. Below the 'V' shape, the letters 'isu' are written in a smaller, lowercase, sans-serif font.	<p>DDS Product page Internet: http://www.visu-it.de/DDS</p>
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