Visual Information Technologies GmbH

Automotive Data Dictionary

What's new in Version 7.3.R0?

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ADD Contact
email: add@visu-it.de
Internet: http://www.visu-it.de/add
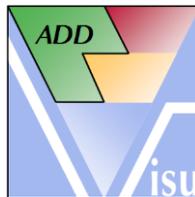
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Visual Information Technologies GmbH
An der Schergenbreite 1
93059 Regensburg

Contents

1 Purpose and scope

This document describes the improvements and changes of ADD V7.3.R0 compared to V7.2.R0

2 What's new in Version V7.3.R0?

2.1 Highlights

2.1.1 Code Variants

The definition of Code Variants is moved from the Container Management to the Data Object Definition dialog (DOD). In the Container Management only an overview of the Code Variants is displayed. In the DOD dialog defined Code Variants can be reused for other data objects and additionally a Description can be specified. Multi Selection of data objects to set the same Code Variant is also supported.

2.1.2 Multi Selection Enhancements

The Multi Selection in the Data Object Definition dialog supports now the additional attributes:
- Custom Tags (only add / delete and modification of newly added tags)
- Visible
- Limits
- SIM / SW Data Type
- Array Size
- Online Reference (only global axes)

2.1.3 Container Check

The Container Check in the Container Management and in the DOD dialog is now identical. The additional check menu entries for single checks are removed in the DOD dialog (except name check).
The following new checks are available:
- Data Object State Check (necessary to set a container to 'simulation fixed' or 'fixed')
- Limit References Check (referenced System Constants as limits have the same implementation)
- Missing Access Frequency Check
- References Check: Checks now also System Constants used as axis size or array size (SC available as container object, normally as Input)

Performing the Container Check in a DOD dialog displays all data objects with potential problems in red color. The Check result dialog is additionally opened in non-modal state allowing the user to continue working with the data objects and solve the problems. When double clicking a data object in the Check result dialog the according data object is selected in the main DOD dialog.

2.1.4 Folder View for Compositions

The Folder View is now also available for Compositions. The usage is similar to the Folder View for Projects except Custom Tags. For Composition Folders no Custom Tags are used.

2.2 New Features, Major Improvements

2.2.1 System Constants as Limits

System Constants can now be used as Lower or Upper Limit. Some preconditions must be fulfilled like same implementation (Base Type and Conversion must be identical) and Lower Limit < Upper Limit. These preconditions are ensured by some checks e.g. enhanced Container Check.

2.2.2 Local Check

The Local Check acts now more than information for the user than to block the usage of data objects. There is always the possibility to continue nevertheless, it's the users' responsibility to ensure that a data object is only used in one container in a project.

2.2.3 Configuration for SIM / SW Data Types

Default settings and rules for SIM and SW Data Types can be defined in the ADDConfig.xml. The following settings are available:
- Separated defaults for SIM and SW Data Types
- Defaults for SW Base Types depending on the SIM Base Type
- Overwrite existing settings by defaults or not
- Forbidden combinations of SIM and SW Base Types
- Defaults for different Data Object types
- Defaults for Data Objects with special name parts

2.2.4 Project Comparison

The Project Comparison is now organized in multiple panes. The Project Interface or Container version differences are opened in the same window as new panes (similar to the Internet Explorer).
Compositions and Container / Composition relations are also displayed. The Project Interface shows the deltas of the Input and Output data objects along with the information if it's referenced in the CsAdp container of the project.

2.2.5 Project Interface

The Project Interface page in the Project Management is changed to display all Inputs and Outputs of the project.
New features:
- Input objects are displayed only once with a list of all container objects.
- Code Variants are taken into account.
- New column 'Prj CT' (data object references one of the project Custom Tags)
- New column 'CsAdp' (data object is referenced in the CsAdp container of the project)
- Checkbox to exclude a data object from the Project Interface is available only for objects with an active Project CT.

2.2.6 Offline Mode

2.2.6.1 Data Variants

Data Variants are now also available in the Offline Mode. Restriction: The Variant Selectors must already exist in the project.

2.2.6.2 Code Variants

Code Variants are now also available in the Offline Mode.

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2.2.7   Import Offline Data Variants

A new menu item 'Extras\Import Project Offline Content' in the Project Management allows importing the Variant Selector Configuration and Data Variants from a DDX file into the current project. Restriction: The Variant Selectors must already exist in the database.

2.2.8   Optional Features

2.2.8.1   Additional Data Variants Mode

A new mode for Data Variants is added where only one selector is allowed.

2.2.8.2   New Data Object Type Diag_Idx

For Diagnosis Object Support the new data object type 'Diag_Idx' is available now. Before these objects were handled as 'Online' data objects (ADD 7.2).

2.2.8.3   Representation Model

The attribute Representation Model is now also available for data objects of type 'Online' and 'Parameter'.

2.3 Minor Improvements / Correction of Bugs

2.3.1 Java API Support

ADD uses now the .NET Framework 4. This was a prerequisite for the available Java API.

2.3.2 Misc Menu

The Misc menu in the ADD main dialog (Container / Composition / Project Management) is split up. The Data Object and Administration menus are now separate main menu items and no longer sub menus of the Misc menu.

2.3.3 Custom Tags

- The Custom Tag description can have up to 2000 characters and can also contain HTML code. A new button is available to display the content in the Web browser.
- Multi Selection support
- Clone and Add / Replace: Custom Tags of type 'CsAdp' are not "cloned" like other attributes.

2.3.4 Multiple Custom Tags for Projects

Multiple Custom Tags for projects are now supported. This can be archived by selecting more than one tag in a folder before moving a project to the folder.

2.3.5 Code Sharing Adapter (CsAdp)

- Obsolete data objects don't prevent any longer setting the CsAdp state to 'fixed'.
- The container comparison uses now the Snapshot information for Custom Tags for 'fixed' data objects.
- The container comparison supports the usage of different versions of one data object and also the usage as Input and Output in parallel of one data object version.
- When an existing data object is added to the CsAdp by the search functions an information dialog is displayed showing the currently missing container specific attributes like Access Frequency, Max Refresh and Visible.
- 'Fixed' CsAdp containers are opened with the Snapshot data for Custom Tags be default. A special menu entry "Open with current CTs" is available to load the current data.
- Description and Remark can be modified by users with SD-Admin role.

2.3.6 Tables and Maps

It is no longer possible to define tables and maps with different SIM-Base Type settings than the referenced STD/FIX axes (leads otherwise to problems in ASCET).

2.3.7 Data Space

When creating Data Space data objects in Offline Mode with SuperUser rights the data object name depends no longer on the NameChecker rules, but only on the Data Space name rules.

2.3.8 Container Information

- Description and Remark are now handled version specific
- Description and Remark can be modified by users with FE-Admin role or by the owner with FE-User role.

2.3.9 Change Responsible

Now also users with role 'SW-User' can change the Responsible for their own container.

2.3.10 Synchronize Container

In the Offline Mode the new menu entry 'Synchronize Multiple Container' allows to define a list of container to include in the Sync process. When started the Sync process is called automatically for each container.

2.3.11 'Obsolete' System Constants

The Search Data Object dialog offers also the possibility to set a data object to 'obsolete'. For System Constants the user role 'SC-Admin' is necessary now (consistent to the management of the "SysDefConf" special container).

2.3.12 Container Name Check

A check is included to ensure that container names don't contain special characters or spaces.

2.3.13 Name Builder

The Name Builder offers now the possibility to sort the catalog items in the drop down lists either by abbreviation or by description. Depending on the sort setting the search by typing is performed in the currently sorted list.
Using multiple entries of one catalog causes sometimes problems in the AUTOSAR 2.0 pattern. This is corrected.
The "alphanumeric" pattern element is enhanced to allow also '_' characters.

2.3.14 User Name (NT_Name)

The ADD user login name can now contain up to 15 characters (before 10).

2.3.15 Oracle Connection Test Tool

The Oracle Connection Test Tool is corrected and can be used for a first analysis on connection errors.

2.3.16 Optional Features

2.3.16.1 Init Values Check

Init Values are already checked against the limits, now additionally a check is included to ensure that the converted internal value is suitable for the Base Type (the Init Values are always physical values except for String or Enum conversions).

2.3.16.2 String Conversion

Existing and already used String Conversions can be extended by new String Conversion table entries at the end. Deletion or modification of already existing table entries is not possible.

4 No longer supported features

4.1 Individual Axes

The simple individual axis flag in the Offline Mode is no longer supported (superseded by STD and FIX axis objects).

5 Questions?

If you have any questions about this release, please contact the Visu-IT! ADD Hotline:

ADD Hotline	ADD Contact	ADD Product page
Tel.: +49 (0)941 – 49082-16 email: add-hotline@visu-it.de	Tel.: +49 (0)9947 – 9040004 email: add@visu-it.de	Internet: http://www.visu-it.de/add