

## Automotive Data Dictionary

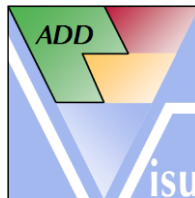
What's new in Version 7.1.R0?

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## 1 Purpose and scope

This document describes the improvements and changes of ADD V7.1.R0 compared to V5.3.R0

## 2 What's new in Version V7.1.R0?

### 2.1 Highlights

#### 2.1.1 External Interface for Compositions

In the Project / Container Management the new page "External Interface" for Compositions displays the Input and Output signals of the selected composition. Output signals which have also a corresponding Input in the composition can be set to "Local" to hide them externally.

Additionally a Composition Reference check is included with two checks (Data Object Version check and Multi Output check). Code Variants are NOT taken into account for these checks.

#### 2.1.2 Windows 7 Compatibility

Under Windows 7 the ADD configuration files like "ADDConfig.xml", "VITNameChecker.config" and "PreDefs.xml" can't be created or modified when ADD is installed in the "\Program Files" directory (directory is read only by default). Out of this the mentioned files can also be managed in the "C:\ProgramData\VisuIT\ADD" ("C:/Documents and Settings/All Users/Application Data\VisuIT\ADD" under Windows XP) directory to ensure the compatibility with Windows 7.

To provide compatibility to previous ADD versions the sequence in loading is first Registry path, second "C:\ProgramData\VisuIT\ADD" and third the ADD binaries directory.

#### 2.1.3 Optional Features

##### 2.1.3.1 Free Versioning

The version numbers (variant, release and revision) of projects, compositions, container and data objects can be selected by the user on creation with only a few restrictions (data objects: release must have a revision number of '0', revision must have a revision number > '0').

##### 2.1.3.2 Custom Tag Enhancement

A new type of Custom Tags, DO\_EXT is added. These tags act like additional data object attributes. Custom Tags are now available for all kinds of data objects in this mode.

##### 2.1.3.3 Conversion Enhancements

In a special mode creating a new conversion requires also specifying a unit and a base type. These combined data types can only be used as they are as SW Data Types (only format string is variable). The handling of Simulation Data Types is not changed.

To change the SW Data Types for a list of data objects the Search Data Objects dialog contains a new button (right below) when opened directly from the main ADD window.

##### 2.1.3.4 Bit in Byte

It is possible to use "Bit in Byte" (bit carrier) data object definitions also as Input or Output in a container.

## 2.2 New Features, Major Improvements

### 2.2.1 DDX Export

Up to now missing project specific attributes like explicit list of project specific system constants, Variant Selector Configuration and Data Variants are now also exported to the DDX file. The import or the Variant configuration however is not implemented.

### 2.2.2 UpdateADDProject

The command line tool 'UpdateADDProject' supports now also the update of 'draft' compositions.

## 2.3 Minor Improvements / Correction of Bugs

### 2.3.1 Remark

The remark attribute of container and compositions is now version specific.

### 2.3.2 Deletion of Container

When deleting a container the 'draft' data objects not referenced elsewhere will be deleted also. This behavior is now controlled by a user confirmation dialog.

### 2.3.3 Show References

The setting of the "Show all Versions / Revisions" option is now handled persistently.

### 2.3.4 Sync

- When Init Values were available in the DDX file starting the Sync process sometimes leads to an error. This is fixed now.
- New Sync option: "CreateOutput4NewInputs" (default enabled). When overriding this option in the ADDConfig Sync section with the value "0" new data objects used as Input in the current container to sync are no longer created as Output in the...\_IN container.

### 2.3.5 VITNameChecker

The VITNameChecker was enhanced to support also the Autosar V2.0 NameChecker definitions. The default configuration file is extended accordingly.

### 2.3.6 String Conversion

- To ensure compatibility between ADD Online and Offline the value pairs of a String Conversion are now converted to uppercase on definition and on DDX Import.
- Performance improvement implemented when selecting a data object in a container which references a String Conversion with more than two conversion value pairs.

### 2.3.7 Composition Variant

It is now possible to create a new Composition variant also for a 'draft' Composition.

### 2.3.8 DDX Import

The relation between data objects and container is corrected for the special case two data objects exist with the identical base name except an index number at the end of the name (e.g. 'abc' and 'abc1').

### 2.3.9 Unit Management

The length of the Display Name and DDS Name is increased to 64 characters.

### 2.3.10 Optional Features

#### 2.3.10.1 String Conversion

For an existing String Conversion the string-value pairs can be modified when the String Conversion is only used by 'draft' data objects.

## 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:

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