

Automotive Data Dictionary

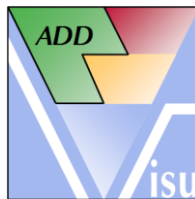
What's new in Version 4.3?

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1 Purpose and scope

This document describes the improvements and changes of ADD V4.3 compared to V4.2.

2 What's new in Version V4.3?

2.1 Highlights

2.1.1 Oracle ODP.NET

Since ADD V4.0 the database access technology uses the Oracle ODP.NET interface (Oracle.DataAccess.dll version 2.102.2.20). The advantages are a better performance, enhanced floating point precision and a better Unicode support.

To configure the new database connection parameters the "ADDConfig.xml" is adapted in the following way:

```
<AddSettings>
  <Environment>TEST_DB</Environment>
  <Database>
    <Environment ID="TEST_DB">
      <Description>TEST</Description>
      <Master>
        <User> ---enter your Oracle user here--- </User>
        <Password> ---enter your Oracle password here--- </Password>
        <TNSName> ---enter your Oracle server here--- </TNSName>
      </Master>
    </Environment>
    <Environment ID="PROD_DB">
      <Description> PROD</Description>
      <Master>
        <User> ---enter your Oracle user here--- </User>
        <Password> ---enter your Oracle password here--- </Password>
        <TNSName> ---enter your Oracle server here--- </TNSName>
      </Master>
    </Environment>
  </Database>
  ...
```

Also the "VITNameChecker.config" "Database" section needs to be changed:

```
<NameCheckers AllowInvalidNames="no">
  <VersionInfo Version="1.0" CreationDate="17.04.2009, 08:50:10" />

  <Database>
    <ReadPatternFromDatabase>1</ReadPatternFromDatabase>
    <ReadCatalogsFromDatabase>1</ReadCatalogsFromDatabase>
    <User>---enter your Oracle user here---</User>
    <Password>---enter your Oracle password here---</Password>
    <ConnectionString DataSource="---enter your Oracle server here---" />
    <Description>---enter your description here---</Description>
  </Database>
  ...
```

2.2 New Features, Major Improvements

2.2.1 Rational Function Rework

The definition and name creation of Rational Function Conversions was changed to show the algorithmic relations between the raw value and the phys value in a better way. The specification of the Rational Function values is done in Fraction form (e.g. $8x + 0 / 0x + 1$). The display of the conversion name can be changed between the new scheme (e.g. '_1_8_0p125') and the previous scheme (e.g. 'RATIONALFUNCTION_[0;1;0;0;0;0.125]') using the setting 'Fraction Name for Rational Functions' in the Options dialog in ADD (ADD main program or DataObject Definition dialog Help/Options menu).

2.2.2 Migrate Sync – System Constants (cDefine)

System Constants (cDefines) are only valid with Classification "Input". The Sync process checks this rule and moves cDefines to "Input" when necessary. New cDefines or new releases or revisions of cDefines are added to the special container "SysDefConf" as "Output" variables automatically. For this process the user role "SC_Admin" is required. When the requirements are not fulfilled the new cDefine variables are added to the automatically created container <container name>_IN as "Output" variables like other data objects.

2.3 Minor Improvements / Correction of Bugs

2.3.1 Bit in Byte

- ADD Data Object Type attribute is disabled for bits at all.
- Take Over: Allows using Bit Base objects only for 'Local' Classification.
- Visible attribute can only be set at the Bit Base objects. The attribute will be derived to the bits.
- Double message for duplicate bit position check removed.

2.3.2 DDX Import

- The short form of the value tag '<VALUES-PHYS />' is now also handled correctly.
- Different limits for Local Online variables with SW Data Type are now supported (before only the default limits were imported).
- Limits for 'Bit' data objects are loaded correctly now.

2.3.3 Get Data Object From Another Container

The Classification will be handled now also for referenced data objects (if also selected or not) when the target classification is different to the source classification.

2.3.4 Container Check

The Container Check checks now also if all referenced global axes and online objects are in the container as container objects as well.

Container

2.3.5 Container Short Name

The container short name is now mandatory. Check included in Offline and Online version.

2.3.6 Limits for Embedded Axes

Limits can be changed also by embedded axes objects.

2.3.7 Migrate Sync - Conversions

Conversions which have coefficients in Fraction Form are now handled correctly (which is the normal case). Conversions not following the new rules may be created newly by the Sync function even when a similar conversion in Fraction Form already exists.

2.3.8 SW_User – Change of STD / FIX Axes

Changes of the SW Datatype of draft STD / FIX axes objects or draft revisions are now also possible for users with only the role Sw_User.

2.4 No longer supported features

2.4.1 Individual Axes

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

3 Questions?

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

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