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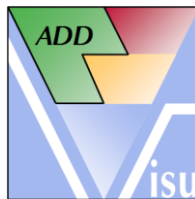
Automotive Data Dictionary

What's new in Version 4.0?

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Contents

1 Purpose and scope

This document describes the improvements and changes of ADD V4.0 compared to V3.7.

2 What's new in Version V4.0?

2.1 Highlights

2.1.1 Oracle ODP.NET

The database access technology uses now the Oracle ODP.NET interface. 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>
      <Read>
        <User> ---enter your Oracle user here--- </User>
        <Password> ---enter your Oracle password here--- </Password>
      </Read>
      <ReadWrite>
        <User> ---enter your Oracle user here--- </User>
        <Password> ---enter your Oracle password here--- </Password>
      </ReadWrite>
      <TNSName> ---enter your Oracle server here--- </TNSName>
     </Master>
   </Environment>
   <Environment ID="PROD_DB">
     <Description> PROD</Description>
     <Master>
      <Read>
        <User> ---enter your Oracle user here--- </User>
        <Password> ---enter your Oracle password here--- </Password>
      </Read>
      <ReadWrite>
        <User> ---enter your Oracle user here--- </User>
        <Password> ---enter your Oracle password here--- </Password>
      </ReadWrite>
      <TNSName> ---enter your Oracle server here--- </TNSName>
     </Master>
     <Local>
      <User> ---enter your Oracle user here--- </User>
      <Password> ---enter your Oracle password here--- </Password>
      <TNSName> ---enter your Oracle server here--- </TNSName>
     </Local>
   </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 Integration of Name Checker

The VITNameChecker is now integrated in ADD.
To support the automatic selection of a suitable pattern for a given data object type or action the NameChecker patterns in the VITNameChecker.config (or the database) have to be enhanced by the attribute "DOType". The available types are: "action", "action_parameter", "axis", "define", "map", "online" and "parameter" (e.g. <Pattern ID="Variable" maxLength="31" DOType="online">).

2.2.2 Enhanced Floating Point Precision

The number of significant digits for floating point values (used at data types or as value for data objects) is increased to 17 digits (before 15 digits).

2.2.3 Copy Container Content

This feature allows to display the content of an existing container (Actions and data objects) and to insert the selected data into the current container.

2.2.4 Parallel Draft Objects

ADD allows now to create more than one draft data object or action in one version tree (means objects with the same name). This enables different users to work in parallel at one data object version tree.

2.2.5 Usage of Draft Data Types

The owner of a new draft data type can use this data type for his own draft data objects. Other users are not allowed to use foreign data types.

2.2.6 System Constant Enhancements

As values for system constants also floating point values can be used depending on the base type and the conversion of the data type. In addition to the Physical Value also the Internal Value (the value before applying the Data Type conversion) is displayed.

2.2.7 Binpoint Data Type

The calculation of the physical minimum and maximum values of Binpoint Data Types depends no longer on the bitsize of the selected base type for negative exponents.
At the most places an information is displayed for linear Data Types if they can be superseded by a Binpoint Data Type.

2.2.8 Mode "S" Enhancements

For the Security option "non volatile memory" the additional settings Data Integrity Management, Data Storage Option, Link to Software Version and Historical Data Management are added.

2.2.9 Non-ADD Actions

Also Non-ADD actions e.g. from SDA are now supported in ADD, that is they can be created on Apply or, when already existing, selected from the database.
Also re-ordering Action Parameter of Non-ADD actions is possible now and the order is displayed correctly on open.

2.2.10 Search Action in ADD Administration

The ADD API offers now the Search Action dialog also for external usage.

2.2.11 Default Settings

The data object type setting from the Default Matrix is now applied also for Non-ADD data objects (e.g. SDA or WinWord).

2.2.12 Show Available Data Object Versions

When a new data object is created and the name is specified, the available data object versions with this name will be displayed already when leaving the name control.

2.2.13 Container Management Performance

When opening the Project / Container Management dialog the Container View is filled with all available container from the database. The performance of building this container tree is improved now.

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2.3 Minor Improvements / Correction of Bugs

2.3.1 Search Data Type Improvements

The search setting "Hex Max" for Linear Data Types works now also for Data Types with unsigned base types.

2.3.2 Action or Data Object Name Length Check

When creating new actions or data objects ADD checks now always if the name is too long.

2.3.3 ADD Options – Change of Customer

Changing the Customer in the ADD Options dialog sometimes has no influence when creating new data objects. Corrected now.

2.3.4 "Take Over" Correction

Sometimes when using Take Over a "Save changes" dialog was shown when selecting a different object. Corrected now.

2.3.5 Support of Line Break for Short Description

When ADD is used from external tools like WinWord line breaks in the Short Description attribute are now supported correctly.

2.3.6 Update of SVADD_CNT_SPEC_ATTR

Whenever a data object is added to a container by the Search functionality, the data object itself and all referenced data objects of this are added to the database table SVADD_CNT_SPEC_ATTR.
Also when removing a data object from a container, either directly or as a reference at another data object, the SVADD_CNT_SPEC_ATTR entry for the removed data object will be deleted.

2.3.7 Overwriting Container Specific Values

When a System Constant exists with a specific value in the container and a different version of this System Constant is added as a reference at another data object in the container, the value of the first System Constant will not be modified any more.

2.3.8 Wrong Action Parameter Display

When an Action containing an Action Parameter with the Version ID of a different object (e.g. different name) is opened in the Data Definition dialog, the Version ID will now be checked an in this case set to 0. Before the wrong data object (which has this ID) was displayed instead.

2.3.9 Base Type Initialization

When creating a new Base Type object using the ADD API the BaseTypeName and BaseTypeLongName is now an empty string.

2.3.10 Full Data Object Initialization

A new method "GetCompleteDataObject" is added to the ADD API to get a fully initialized data object for later Offline usage (without database connection).

2.3.11 Data Point Value Update

The missing update of changed data point values at the map is done now also when using a replicated database.

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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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