

## Automotive Data Dictionary

What's new in Version 13.1.R0?

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### ADD Contact

email: [hotline@visu-it.com](mailto:hotline@visu-it.com)

Internet: <https://www.visu-it.de/add>



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Visual Information Technologies GmbH

An der Schergenbreite 1

93059 Regensburg

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## 1 Purpose and scope

This document describes the improvements and changes of ADD V13.1 compared to V12.3

## 2 What's new in Version V13.1.R0?

### 2.1 Highlights

#### 2.1.1 DB Customer Config (Optional) [[ADDS-9779](#)]

Allow usage/storage of ADD customer configuration settings (ADDConfig.xml) within ADD Database.

#### 2.1.2 VITNameChecker InstantClient [[ADDS-9673](#)]

Allow usage of Oracle InstantClient for VITNameChecker.

#### 2.1.3 AUTOSAR XML Export [[ADDS-8263](#)]

ARXML - Export added for ADD Container.

#### 2.1.4 Description Spellcheck (Optional) [[ADDS-8387](#)]

English/French/German spellcheck for DataObject/Container/Composition/Conf.Package/Project attribute "Description" added.

#### 2.1.5 Prj Class Dataspace (Optional) [[ADDS-7444](#)]

ADD Project dataspace configuration added for ADD Class elements.

#### 2.1.6 Prj Check Cnt Context [[ADDS-10040](#)]

Allow filtering of the Project Check result for a specific Container of the current Project.

#### 2.1.7 ADD User Notification (Optional) [[ADDS-9272](#)]

E-Mail attribute and notification mechanism added to ADD in order to notify Container owner about changed made by the One-Click feature.

#### 2.1.8 ADD NameChecker Read from DB (Optional) [[ADDS-5484](#)]

Force usage of Database NameChecker specification via ADDConfig configuration.

### 2.2 New Features, Major Improvements

#### 2.2.1 MDX Supplier Import [[ADDS-10572](#)]

Support import of complex mapped supplier interface Objects within MDX.

#### 2.2.2 CsAdp/BusAdp MDX Handling [[ADDS-10570](#)]

General enhancement of ADD CsAdp/BusAdp MDX - import.

### **2.2.3 RoW Input Handling (Optional) [\[ADDs-10135\]](#)**

Harmonize handling of RoW - DataObjects of Classification "INPUT" accordingly to the RoW-OUTPUT handling.

### **2.2.4 ADD & MDX [\[ADDs-9436\]](#)**

Enhanced handling of MDX content in order to use \*.mdx-files as supplier exchange format.

### **2.2.5 Struct Handling [\[ADDs-8869\]](#)**

Handling regarding referenced Structure Types enhanced in order to have information about the impact and the possibility to manipulated referenced Structure Types.

### **2.2.6 ENUM Handling [\[ADDs-8859\]](#)**

Handling regarding referenced ENUMs enhanced in order to have information about the impact and the possibility to manipulated referenced ENUMs.

### **2.2.7 DO New Release Restriction (Optional) [\[ADDs-10039\]](#)**

Allow restriction to update DataObject references only in container of Status "draft" for the automated DataObject Release creation.

### **2.2.8 Ref Dialog Handling [\[ADDs-6607\]](#)**

Do not block the usage of ADD GUI when using ADD DataObject Reference window.

### **2.2.9 ProcessLocal Attribute [\[ADDs-7512\]](#):**

New attribute "ProcessLocal" for DataObjects of type "Online" and Classification "LOCAL" introduced.

## **2.3 Minor Improvements / Correction of Bugs**

### **2.3.1 ADD Offline String-Conv [\[ADDs-10321\]](#)**

Issues related to an error when loading an ADD Offline database file (\*.ddx) containing String-Conversions fixed.

### **2.3.2 NameChecker Check [\[ADDs-9991\]](#)**

Issues related to an error during the check of a DataObject name via VITNameChecker fixed.

### **2.3.3 DO Selection [\[ADDs-9952\]](#)**

Issues related to casually erroneously selected Data Object within the ADD GUI when using the DO context menu fixed.

### **2.3.4 Struct DDX Export [\[ADDs-9821\]](#)**

Issues related to alphabetically ordered Structure Member elements during the ADD DDX export fixed.

### **2.3.5 BusAdp CT History [\[ADDs-9660\]](#)**

Issues related to undocumented CustomTag changes in special Container BusAdp fixed.

### **2.3.6 MDX-Export Shift/Offset** [[ADDS-10858](#)]

Issues related to invalid value for Fix Axis attributes Offset/Distance within the ADD MDX Export file fixed.

### **2.3.7 Class Prototype ArraySize Deletion** [[ADDS-10772](#)]

Issues related to invalid ArraySize settings of Class Instance after deleting the appropriate Class Prototype values fixed.

### **2.3.8 NameChecker Sort Order** [[ADDS-10750](#)]

Issues related to the non-functioning sort method within VIT NameChecker GUI fixed.

### **2.3.9 ENUM Search** [[ADDS-10287](#)]

Issues related to non-functioning Enumeration Value filter and low performance fixed.

### **2.3.10 CMP Interface Local** [[ADDS-10198](#)]

Issues related to a deadlock when trying to set a DataObject of Type "Map" to "LOCAL" within a Composition fixed.

### **2.3.11 DO Context Ref** [[ADDS-10177](#)]

Issues related to an erroneous scope setting when listing the references of a DataObject from within the "Search Data Object" dialog fixed.

### **2.3.12 CT CsAdp Snapshot Handling** [[ADDS-10062](#)]

Issues related to manipulation of DataObject attribute "CustomTag" within a CsAdp Snapshot affecting the CsAdp main branch fixed.

### **2.3.13 NameChecker Postfix Check** [[ADDS-10044](#)]

Issues related to constant negative return value of the Stand-Alone NameChecker when validating name with DO-Type relation fixed.

### **2.3.14 Cmp Local-Check** [[ADDS-9977](#)]

Issues related to non-detected LOCAL Composition Interface elements of Sub-Compositions within the Composition Check fixed.

### **2.3.15 ADD Offline Classification** [[ADDS-9791](#)]

Issues related to the non-applicable Classification setting in ADD Offline fixed.

### **2.3.16 CIL Mapping Sync** [[ADDS-9714](#)]

Issues related to inconsistent behaviour when synchronising ADD DataObjects CIL Mapping fixed.

### **2.3.17 ADD Network-Check** [[ADDS-9281](#)]

Enhanced network connection check added in order to avoid database timeout.

### **2.3.18 StructTyp Embedded Axis Deletion** [[ADDS-9176](#)]

Issues related to deletion of an embedded Axis within a StructTyp Map fixed.

### **2.3.19 SIM/SW DT Copy [\[ADDS-4575\]](#)**

Issues related to non-functioning "Copy" feature of Simulation/Software Datatype attributes fixed.

### **2.3.20 VariantSelector Version Handling [\[ADDS-4575\]](#)**

Issues related to loss of settings when changing the version of a VariantSelector fixed; general Performance enhancement.

## **2.4 ADDAdapter**

-

## **2.5 DDX HighLevel**

### **2.5.1 DDXHL SW-DT [\[ADDS-10076\]](#)**

Issues related to a randomly assigned Software-Datatype BaseType when setting SINT32 fixed.

### **2.5.2 DDXHL Embedded Maps [\[ADDS-9066\]](#)**

Issues related to invalid embedded Map/Curve elements created via DDXHL fixed.

### **2.5.3 DDXHL CIL-Mappings [\[ADDS-8822\]](#)**

Issues related to invalid CIL Mapping elements created via DDXHL fixed.

### **2.5.4 DDXHL Duplicate Unit-IDs [\[ADDS-10880\]](#)**

Issues related to duplicated ID values for ADD UNITS within the created DDX file fixed.

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## 3 What's new in Version V12.3.R5?

### 3.1 Highlights

-

### 3.2 New Features, Major Improvements

-

### 3.3 Minor Improvements / Correction of Bugs

#### 3.3.1 Prj ID Search [[ADDS-10784](#)]

Issues related to an erroneous behaviour in ADD regarding an invalid internal Project Search fixed.

### 3.4 ADDAdapter

-

### 3.5 DDX HighLevel

-

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## 4 What's new in Version V12.3.R4?

### 4.1 Highlights

- 

### 4.2 New Features, Major Improvements

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### 4.3 Minor Improvements / Correction of Bugs

#### 4.3.1 CMP/CNT Reference Exchange [[ADDS-10717](#)]

Issues related to a crash of ADD when exchanging Composition/Container version referenced in a Project fixed.

### 4.4 ADDAdapter

- 

### 4.5 DDX HighLevel

-

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## 5 What's new in Version V12.3.R3?

### 5.1 Highlights

-

### 5.2 New Features, Major Improvements

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### 5.3 Minor Improvements / Correction of Bugs

#### 5.3.1 CMP++ Status Change [[ADDS-10533](#)]

Issues related to problems when fixing a CMP++ containing Interface DataObject Releases not contained within the referenced Container fixed.

### 5.4 ADDAdapter

-

### 5.5 DDX HighLevel

-



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## 6 What's new in Version V12.3.R2?

### 6.1 Highlights

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### 6.2 New Features, Major Improvements

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### 6.3 Minor Improvements / Correction of Bugs

#### 6.3.1 ADD Offline String-Conv [[ADDS-10321](#)]

Issues related to an error when loading an ADD Offline database file (\*.ddx) containing String-Conversions fixed.

### 6.4 ADDAdapter

- 

### 6.5 DDX HighLevel

-

## 7 What's new in Version V12.3.R1?

### 7.1 Highlights

-

### 7.2 New Features, Major Improvements

#### 7.2.1 RegEx NameBuilder [[ADDS-10115](#)]

Auto-fill name parts within the VITNameBuilder when using NameChecker in RegEx-mode.

### 7.3 Minor Improvements / Correction of Bugs

#### 7.3.1 Bus Signal MDX-Export [[ADDS-10274](#)]

Issues related to invalid BusAdp Signal information within the ADD MDX-Export file fixed.

#### 7.3.2 SC Prj. Check No. 8 [[ADDS-9651](#)]

Issues related to erroneously listed SystemConstant elements in ADD Project Check No. 8 in case of non-configured SCs within a Conf. Package fixed.

#### 7.3.3 Runnables UI-Handling [[ADDS-10319](#)]

Issues related to UI presentation and handling issues for Runnables Tab fixed.

#### 7.3.4 NameChecker Postfix Check [[ADDS-10044](#)]

Issues related to constant negative return value of the Stand-Alone NameChecker when validating name with DO-Type relation fixed.

#### 7.3.5 STD/FIX Volatile Handling [[ADDS-10251](#)]

Issues related to erroneous changes of setting "Volatile" for STD/FIX Axes fixed.

### 7.4 ADDAdapter

-

### 7.5 DDX HighLevel

-

## 8 What's new in Version V12.3.R0?

### 8.1 Highlights

#### 8.1.1 Group Responsible [[ADDS-9345](#)]

Compose ADD User in Groups and use a Groups as ADD Object Responsible.

#### 8.1.2 Supplier Interface Handling (Optional) [[ADDS-8435](#)]

General enhancement regarding Project Supplier Interface information in order to ease the exchange interface information between supplier and manufacturer.

#### 8.1.3 AUTOSAR Runnables Support [[ADDS-8270](#)]

New Container attribute "Runnables" added in order to support AUTOSAR feature "Runnables" in ADD.

### 8.2 New Features, Major Improvements

#### 8.2.1 Cmp++ Interface Filter (Optional) [[ADDS-9686](#)]

Composition++ Interface element result list harmonized with Composition++ Interface Check; "Excluded Object Types" filter added.

#### 8.2.2 Cmp++ Interface Filter [[ADDS-9685](#)]

Composition++ Interface element list filter added in order to list ADD Output Objects.

#### 8.2.3 Composition Search Scope [[ADDS-9339](#)]

Composition/Composition++ search scope added to DataObject Search Dialog.

#### 8.2.4 ADD DO Selection [[ADDS-8996](#)]

Open specific Container in ADD via Command Line run and preselect a specific DataObject.

#### 8.2.5 MO Factor/Offset [[ADDS-8966](#)]

Division operator added to CIL Mapping Object attribute "Factor/Offset".

#### 8.2.6 DO C-Volatile Handling (Optional) [[ADDS-8503](#)]

Default handling for DataObject attribute "C-Volatile" adjusted.

#### 8.2.7 AccessFrequency Default Handling (Optional) [[ADDS-8494](#)]

Default setting of DataObject attribute "AccessFrequency" adapted.

#### 8.2.8 Multi Signal Project Check [[ADDS-8432](#)]

Project Check 10 enhanced in order to check for multiple usage of BusAdp Signals within a Project.

#### 8.2.9 Prj Default VarCrit Assignment [[ADDS-8385](#)]

Default VariantCriterion assignment handling for a Project VariantSelector adapted.

#### **8.2.10 Class Handling** [[ADDS-8343](#)]

General enhancement of ADD Class Instances/Types.

#### **8.2.11 Cross Inst. Parameter Prj Check** [[ADDS-7443](#)]

New Project Check "Cross Instance Parameter Version" added in order to check for multiple versions of Cross Instance Parameter within the Project Classes.

#### **8.2.12 ADD Favorite View** [[ADDS-6785](#)]

Memorize Favorite View selection and apply on next ADD Start.

#### **8.2.13 ROM Struct Instance/Type** [[ADDS-6784](#)]

General enhancement of Structure Instance/Type elements of memory type "ROM".

#### **8.2.14 DCM-Export Word Wrap** [[ADDS-9336](#)]

Remove word wraps within DataObject LongNames in ADD DCM export.

#### **8.2.15 Extended DataSpace (Optional)** [[ADDS-9143](#)]

ADD Project attribute "Extended DataSpace" renamed in "Basic DataSpace" (incl. configuration settings)

#### **8.2.16 Prj DataVariant Consistence** [[ADDS-7514](#)]

Consistency check of VariantCoded DataVariants added to Project Check Number 8.

#### **8.2.17 DS Handling** [[ADDS-6725](#)]

General enhancement of ADD DataSpace - Maps/Curves handling.

#### **8.2.18 Conf. Pack Reference Handling** [[ADDS-4453](#)]

Conf. Packages reference handling adapted in order to ease the exchange of referenced Element Versions.

#### **8.2.19 STD/FIX Axis TimePeriod** [[ADDS-8291](#)]

AccessFreq./MaxRefresh removed from Axis - DataObjects of Type STD/FIX.

### **8.3 Minor Improvements / Correction of Bugs**

#### **8.3.1 Class STD/FIX Axis Rename** [[ADDS-9837](#)]

Issues related to invalid STD/FIX-Axis names after renaming the appropriate Map/Curve element fixed.

#### **8.3.2 FormatString Class ImplSet** [[ADDS-9833](#)]

Show FormatString information within the Implementation Set tab of Classes.

#### **8.3.3 Class Default Limits** [[ADDS-9832](#)]

Issues related non-automatic adaption of Class element Limits when changing the BaseType fixed.

#### **8.3.4 Cmp++ DDX-Export** [[ADDS-9819](#)]

Issues related to insufficient User Rights to export a Composition++ to \*.ddx fixed.

### **8.3.5 BusAdp Signal Import [\[ADDS-9784\]](#)**

Issues related to missing BusAdp Signal after using the ADD BusAdp file import fixed.

### **8.3.6 Fixed Cmp+ + Interface [\[ADDS-9766\]](#)**

Issues related to an invalid Composition+ + Interface list within "fixed" Composition+ + fixed.

### **8.3.7 Lib Freeze Check [\[ADDS-9749\]](#)**

Issues related to an erroneous Project Frozen-Check fixed.

### **8.3.8 Multiple Conversion Sync [\[ADDS-9661\]](#)**

Issues related to non-deterministic synchronisation of Conversion in case of multiple Conversion Versions fixed.

### **8.3.9 Project Check No. 6 [\[ADDS-9313\]](#)**

Issues related to erroneous listing DataObjects in Project Check Number 6 fixed.

### **8.3.10 Prj VarCod Reference [\[ADDS-9076\]](#)**

Issues related to the deletion of VariantSelectors when using multiple versions of special Container VarCod fixed.

### **8.3.11 DO Online Limit Handling (Optional) [\[ADDS-8333\]](#)**

Issues related to invalid Online DataObject Limits when changing Classification and using Config setting "DefaultLimits4Onlines" fixed.

### **8.3.12 Axis VarSel [\[ADDS-8136\]](#)**

Allow usage of an Axis without VariantSelector within multiple DataVariant Maps.

### **8.3.13 Logical Bits ChangeResponsible [\[ADDS-10020\]](#)**

Consider Logical Bits when changing responsible user of BitCarriers.

### **8.3.14 Project Tree Collapse [\[ADDS-9923\]](#)**

Issues related to an ADD crash when using the "Collapse" function of the ADD Project TreeView fixed.

### **8.3.15 STD/FIX Class Axis SW-DT [\[ADDS-9838\]](#)**

Issues related to incomplete Software-DataType list for STD/FIX Axes within a Class fixed.

### **8.3.16 Import Prj DataVariant [\[ADDS-9829\]](#)**

Issues related to not imported Project DataVariants when using "Import Project Content" function fixed.

### **8.3.17 Conversion-Search Result Order [\[ADDS-9718\]](#)**

Issues related to in valid Version sort order of Conversions within the Conversion Search dialog fixed.

### **8.3.18 CV References Dialog [\[ADDS-9635\]](#)**

Presentation of the CodeVariant Reference result enhanced.

### **8.3.19 ADD GUI DPI [[ADDS-9590](#)]**

Issues related to an erroneous display of ADD GUI controls using Windows DPI setting greater than 100% fixed.

### **8.3.20 New VDM Progressbar [[ADDS-9502](#)]**

Issues related to the vanishing of the progress bar within the new Visual Data Modeller when loading large ADD Projects fixed.

### **8.3.21 Class Embedded Axis [[ADDS-9352](#)]**

Issues related to the automated setting of SIM/SW-BaseTypes of Embedded Class Axis fixed.

### **8.3.22 Container Compare TXT-Export [[ADDS-9051](#)]**

Issues related to invalid \*.txt - Container - Compare exports fixed.

### **8.3.23 STD/FIX Axis Prj Check [[ADDS-9016](#)]**

Issues related to an erroneous Conversion check of STD/FIX Axes within a Project fixed.

### **8.3.24 Bit Task/MemSec [[ADDS-8389](#)]**

Issues related to erroneous presentation of DataObject attribute Task/Memory Section for Logical Bits fixed.

### **8.3.25 Curve DCM-Exports [[ADDS-8249](#)]**

Issues related to an invalid DCM-Export definition of 1-dimensional Map - DataObjects (Curves) fixed.

### **8.3.26 MDX-Export DS Ref-Array [[ADDS-7986](#)]**

Issues related to an invalid element reference name generated for DataSpace Map-DataObjects fixed.

### **8.3.27 DO Limit Representation [[ADDS-7917](#)]**

Issues related to an invalid representation of DataObject when using "Without Container-Information" - functionality within the DOsearch Dialog fixed.

### **8.3.28 STRING Conv Limits [[ADDS-7316](#)]**

Issues related to an erroneous export of STRING Conversion Limits into \*.ddx fixed.

### **8.3.29 CusServ XML Stream [[ADDS-6850](#)]**

Issues related to STD-Axis-XML-Information generated via CusServ fixed.

### **8.3.30 MDX Export FIX Axis Values [[ADDS-6797](#)]**

Issues related to missing values for FIX Axis within the ADD MDX - Export fixed.

### **8.3.31 Init-Value Check [[ADDS-6601](#)]**

Issues related to an erroneous Init-Value check result when changing the DataObject BaseType fixed.

### **8.3.32 CR DDX-Export [[ADDS-6600](#)]**

Issues related to the DDX-Export of special characters within the ChangeRequest attribute fixed.

### **8.3.33 Prj/Conf.Pack SC Values [[ADDS-6590](#)]**

Issues related to the setting of invalid SystemConstant values within the Project/Conf. Package - SystemConstant-Tab fixed.

### **8.3.34 DO Multi Selection [[ADDS-5092](#)]**

Issues related to erroneous multi-selection handling of DataObjects fixed.

### **8.3.35 Prj Supplier Interface Adapter [[ADDS-10159](#)]**

Issues related to invalid ADD Project Supplier Interface Adapter Configuration fixed.

### **8.3.36 Prj Supplier Interface Search [[ADDS-9922](#)]**

Issues related to an invalid CustomTag context within the ADD Project Supplier Interface Search functionality fixed.

### **8.3.37 Prj Supplier Interface Config [[ADDS-9564](#)]**

Issues related to removing the ADD Project Supplier Interface Configuration after changing the Project Status to "fixed"/"simfixed" fixed.

## **8.4 ADDAdapter**

### **8.4.1 ADDAdapter Conf. Pack DDX-Export [[ADDS-9341](#)]**

Support DDX-Export of Conf. Packages via ADDAdapter.

### **8.4.2 ADDAdapter Calib.Access/Rep.Model [[ADDS-8995](#)]**

Read access for DataObject attributes "Calib.Access" and "Rep.Model" added.

## **8.5 DDX HighLevel**

-

## 9 What's new in Version V12.2.R2?

### 9.1 Highlights

### 9.2 New Features, Major Improvements

### 9.3 Minor Improvements / Correction of Bugs

#### 9.3.1 DO CV - Sync [[ADDS-9510](#)]

Issues related to inconsistent DataObject synchronization behaviour when synchronizing a DataObject containing a CodeVariant fixed.

#### 9.3.2 MDX BusAdp Switch [[ADDS-9565](#)]

Issues related to invalid values of the artificial BusAdp Signal switch elements within the ADD BusAdp MDX-Export fixed.

#### 9.3.3 NameChecker Validation [[ADDS-9721](#)]

Issues related to an erroneous validation of Label names containing multiple optional Catalog segments fixed. Please check also tool – known restriction file “ThisVersion.pdf”!

### 9.4 ADDAdapter

### 9.5 DDX HighLevel

-



## 10 What's new in Version V12.2.R0?

### 10.1 Highlights

#### 10.1.1 DO Type Change (Optional) [[ADDS-8517](#)]

Allow the usage of different DataObject Types within different DataObject versions.

#### 10.1.2 Prj/Cmp Version Check (Optional) [[ADDS-8259](#)]

Allow individual configuration of version check criterion for Project/Composition Checks No. 1.

#### 10.1.3 Prj FrozenCheck Handling [[ADDS-7943](#)]

Allow user to mark and memorize resolved Frozen Check conflicts.

#### 10.1.4 CV References Dialogue [[ADDS-7767](#)]

CodeVariant References dialogue added.

#### 10.1.5 Conversion Catalogues (Optional) [[ADDS-7505](#)]

Allow grouping of Conversions; use Conversion Catalogues as filter within the DataObject Definition tab.

#### 10.1.6 Conf. Pack Context Check [[ADDS-4694](#)]

Allow the Project Check of a Conf. Package for a virtually set Project context.

#### 10.1.7 CV Consistency (Optional) [[ADDS-3885](#)]

CodeVariant checks and import function added in order to ensure CodeVariant consistency between In- and Outputs.

### 10.2 New Features, Major Improvements

#### 10.2.1 CMP++ Interface Handling [[ADDS-8516](#)]

General enhancement of the element handling within the Composition++ Interface (e. g. DO Differences function).

#### 10.2.2 New VDM [[ADDS-9105](#)]

Matrix-View added to new Visual Data Modeller (New VDM)

#### 10.2.3 New CT Field [[ADDS-8433](#)]

New field "Clearing\_Info" added to CustomTag of type "CsAdp".

#### 10.2.4 CT View [[ADDS-8431](#)]

General enhancement of the CustomTag content view.

#### 10.2.5 CT System History [[ADDS-8430](#)]

Log indirect CustomTag changes also within the ADD History.

### **10.2.6 ADD Reference Context [[ADDS-8384](#)]**

General enhancement of the Reference result information presentation in matters of the link between BusAdp/CsAdp to a Project.

### **10.2.7 ADD DB Config [[ADDS-8289](#)]**

Allow usage of database SERVICE\_NAME within the database connection configuration.

### **10.2.8 Init Value Copy&Paste [[ADDS-8258](#)]**

Allow Copy&Paste of Excel content into DataObject tab "Init Value".

### **10.2.9 Supplier Interface References [[ADDS-8213](#)]**

New Reference dialogue added for Supplier Interface elements.

### **10.2.10 Prj/Conf. Pack SC Check [[ADDS-8211](#)]**

Project Check No. 8 improved in order to check SystemConstant Value differences between a Project and the referenced Conf. Packages.

### **10.2.11 CIL Mapping BitPos [[ADDS-8093](#)]**

Allow CIL Mapping Bit Position values only within range of the Target BaseType.

### **10.2.12 Prj DS CodeVariants [[ADDS-2821](#)]**

Consider CodeVariant settings within the Project DataSpace tabs.

### **10.2.13 Impl. Set Embedded Maps [[ADDS-9028](#)]**

Allow usage of Embedded Maps (and Axes) within a Class Implementation Set.

### **10.2.14 AccessMode DO Attribute (Optional) [[ADDS-8504](#)]**

Attribute "AccessMode" is now a DataObject specific attribute (previously Container specific).

### **10.2.15 Oracle InstantClient 64bit [[ADDS-8296](#)]**

Allow simultaneous specification 32 & 64 bit Oracle InstantClient - path within the ADD configuration file.

### **10.2.16 Conf. Package TakeOver [[ADDS-6670](#)]**

General enhancement of Conf. Package TakeOver dialogue.

## **10.3 Minor Improvements / Correction of Bugs**

### **10.3.1 ADD Multi-Monitor Support [[ADDS-9065](#)]**

Remember ADD Window locations also in case of multiple monitor usage.

### **10.3.2 CV Handling [[ADDS-8539](#)]**

General enhancement of the CodeVariant presentation and handling.

### **10.3.3 Get Container CV [[ADDS-7621](#)]**

Import also CodeVariant settings when using "Get Data Object from another Container".

#### **10.3.4 Conf. Package SC/DS - Tab [\[ADDS-6800\]](#)**

General handling enhancement of Conf. Package tabs "SystemConstant" and "DataSpace".

#### **10.3.5 NameChecker DO Postfix [\[ADDS-6664\]](#)**

Allow definition of individual DataObject Type postfixes within the VITNameChecker.

#### **10.3.6 SC References Values [\[ADDS-3897\]](#)**

SystemConstant Value attribute added to the References dialogue.

#### **10.3.7 ClassPrototype Embedded Axis [\[ADDS-9392\]](#)**

Issues related to the usage of one Embedded Axis element when creating a new version/copy of an Embedded Map fixed.

#### **10.3.8 MemSec Multi-Select [\[ADDS-8332\]](#)**

Issues related to invalid setting of attribute MemorySection via multi selection fixed.

#### **10.3.9 CIL Mapping MDX Import [\[ADDS-9366\]](#)**

Issues related to an erroneous MDX Import of complex CIL Mappings fixed.

#### **10.3.10 Conf. Pack/Project SC/DS Reload [\[ADDS-9325\]](#)**

Issues related to outdated SystemConstant/DataSpace values after running a Conf. Package TakeOver fixed.

#### **10.3.11 SC Conf. Packages TakeOver [\[ADDS-9314\]](#)**

Issues related to an invalid setting of supplied SystemConstant values during Conf. Package TakeOver fixed.

#### **10.3.12 Project Supplier Interface [\[ADDS-9293\]](#)**

Issues related to configuration problems of the Project Supplier Interface fixed.

#### **10.3.13 Conf. Package Compare [\[ADDS-9287\]](#)**

Issues related to an erroneous Conf. Package Compare run fixed.

#### **10.3.14 BusAdp MDX-Export [\[ADDS-9251\]](#)**

Set explicit suffix "PC" for BusAdp Interface DataObjects.

#### **10.3.15 ClassInstance Parameter Visibility [\[ADDS-9214\]](#)**

Issues related to an erroneous setting of the Visible attribute of ClassInstance global Parameters fixed.

#### **10.3.16 Short Desc Search DO [\[ADDS-9126\]](#)**

Issues related to an exception when searching for a specific "Short Description" within the "Search for DataObject" dialogue fixed.

#### **10.3.17 CMP++ Responsible [\[ADDS-9078\]](#)**

Issues related to an error when trying to change the Responsible of a Composition++ fixed.

### 10.3.18 CMP++ CR/CG [\[ADDS-9024\]](#)

Issues related to invalid values for attributes ChangeRequest/ConsistencyGroup after loading a Composition++ fixed.

### 10.3.19 ADDOffline Static-BitCarrier [\[ADDS-9453\]](#)

Issues related to unequal BitCarrier/BitMember 'static' attribute values fixed.

### 10.3.20 ADDOffline DT-Sync [\[ADDS-9490\]](#)

Issues related to synchronization problems for Datatypes when using multiple Conversion versions fixed.

### 10.3.21 BusAdp Import [\[ADDS-9472\]](#)

Issues related to problems during the import of BusAdp files containing multiple Bus Signal definitions fixed.

### 10.3.22 Project Context Search/Ref [\[ADDS-9312\]](#)

Issues related to invalid evaluation of CsAdp CustomTag settings within the Project related DataObject Search and References dialogue fixed.

## 10.4 ADDAdapter

### 10.4.1 ADDAdapter Dep.SC [\[ADDS-9319\]](#)

Issues related to an exception when evaluating Dependent SystemConstants without a Condition fixed.

## 10.5 DDX HighLevel

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## 11 What's new in Version V12.1.R54?

### 11.1 Highlights

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### 11.2 New Features, Major Improvements

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### 11.3 Minor Improvements / Correction of Bugs

#### 11.3.1 BusAdp Signal Import [[ADDS-9784](#)]

Issues related to missing BusAdp Signal after using the ADD BusAdp file import fixed.

### 11.4 ADDAdapter

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### 11.5 DDX HighLevel

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## 12 What's new in Version V12.1.R53?

### 12.1 Highlights

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### 12.2 New Features, Major Improvements

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### 12.3 Minor Improvements / Correction of Bugs

#### 12.3.1 Prj/Conf. Package Compare/Check [[ADDS-9740](#)]

Issues related to an erroneous Project/Conf. Package Compare/Check run fixed.

### 12.4 ADDAdapter

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### 12.5 DDX HighLevel

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## 13 What's new in Version V12.1.R52?

### 13.1 Highlights

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### 13.2 New Features, Major Improvements

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### 13.3 Minor Improvements / Correction of Bugs

#### 13.3.1 MDX BusAdp Switch [[ADDS-9565](#)]

Issues related to invalid values of the artificial BusAdp Signal switch elements within the ADD BusAdp MDX-Export fixed.

### 13.4 ADDAdapter

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### 13.5 DDX HighLevel

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## 14 What's new in Version V12.1.R51?

### 14.1 Highlights

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### 14.2 New Features, Major Improvements

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### 14.3 Minor Improvements / Correction of Bugs

#### 14.3.1 MDX BusAdp Switch [[ADDS-9351](#)]

Issues related to invalid values of the artificial BusAdp Signal switch elements within the ADD BusAdp MDX-Export fixed.

#### 14.3.2 BusSignal Delta Exception [[ADDS-9342](#)]

Issues related to a fatal exception within the ADD BusAdp Signal Delta window when trying to take over an already linked element fixed.

#### 14.3.3 CIL Mapping MDX Import [[ADDS-9366](#)]

Issues related to an erroneous MDX Import of complex CIL Mappings fixed.

### 14.4 ADDAdapter

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### 14.5 DDX HighLevel

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## 15 What's new in Version V12.1.R50?

### 15.1 Highlights

#### 15.1.1 ClassPrototype Methode Args [[ADDS-8252](#)]

Argument and Return-Value handling added to ClassPrototype element SW-Services (Methods).

#### 15.1.2 CsAdp Version Branch [[ADDS-8382](#)]

Handle CustomTag settings of a CsAdp version branch separately from the main branch.

### 15.2 New Features, Major Improvements

#### 15.2.1 CsAdp/BusAdp MDX Handling [[ADDS-8819](#)]

General enhancement of ADD CsAdp/BusAdp MDX - import/export.

#### 15.2.2 Conf. Pack TakeOver [[ADDS-6801](#)]

General enhancement of Configuration Package TakeOver mechanisms.

#### 15.2.3 Conf. Pack TakeOver [[ADDS-6847](#)]

Memorize "Supplier" configuration of exchanged Configuration Package references.

#### 15.2.4 Project DS Handling [[ADDS-8121](#)]

General enhancement of Project DataSpace representation and handling.

#### 15.2.5 BusAdp Usability [[ADDS-8987](#)]

Detail view for mapped BusAdp object added; Mapping search dialogue enhancement.

#### 15.2.6 BusAdp CT Handling [[ADDS-8977](#)]

Issues related to the deletion of BusAdp DataObject-CustomTags fixed.

### 15.3 Minor Improvements / Correction of Bugs

#### 15.3.1 Class/Struct Limit Auto-Adjust [[ADDS-8380](#)]

Issues related to the missing auto-adjustment of Class/Struct - member Limit fixed.

#### 15.3.2 CsAdp/BusAdp Excel Auto-Export (Optional) [[ADDS-8935](#)]

Issues related to the CsAdp/BusAdp Excel Auto-Export fixed.

#### 15.3.3 DS Extended Default Value [[ADDS-8646](#)]

Issues related to the handling of DataSpace Extended default values fixed.

### 15.4 ADDAdapter

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## 15.5 DDX HighLevel

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## 16 What's new in Version V12.1.R4?

### 16.1 Highlights

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### 16.2 New Features, Major Improvements

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### 16.3 Minor Improvements / Correction of Bugs

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### 16.4 ADDAdapter

#### 16.4.1 ADDAdapter Cmp/Cnt Create [[ADDS-8381](#)]

Issues related to invalid creation of Composition/Container - SRSFileName via ADDAdapter fixed.

#### 16.4.2 ADDAdapter Cmp Structs [[ADDS-9238](#)]

Issues related to a crash of the ADDAdapter when using a DataObject of type Structure fixed.

### 16.5 DDX HighLevel

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## 17 What's new in Version V12.1.R3?

### 17.1 Highlights

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### 17.2 New Features, Major Improvements

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### 17.3 Minor Improvements / Correction of Bugs

#### 17.3.1 Project DO TakeOver [[ADDS-9109](#)]

Issues related to the erroneous takeover of Data Objects within not related Container in a Project using the "One-Click" feature fixed.

### 17.4 ADDAdapter

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### 17.5 DDX HighLevel

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## 18 What's new in Version V12.1.R2?

### 18.1 Highlights

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### 18.2 New Features, Major Improvements

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### 18.3 Minor Improvements / Correction of Bugs

#### 18.3.1 CodeVariant Sync [[ADDS-9040](#)]

Issues related to the synchronization of DataObjects/CIL Mapping without CodeVariants fixed.

#### 18.3.2 Conversion Fixed Sync [[ADDS-9019](#)]

Issues related to the synchronization of Conversions for "fixed" DataObjects fixed.

### 18.4 ADDAdapter

#### 18.4.1 JAVA Adapter CIL Mapping GetIsFixedSystemConstant [[ADDS-9030](#)]

Issues related to invalid return values of JAVAAdapter CIL Mapping method "GetIsFixedSystemConstant" fixed.

### 18.5 DDX HighLevel

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## 19 What's new in Version V12.1.R0?

### 19.1 Highlights

#### 19.1.1 Recursive Version Creation [[ADDS-6716](#)]

Recursively create new Variant/Version/Release of Container, Compositions and DataObjects within Project Context (Project Reference tab).

#### 19.1.2 BusAdp/CsAdp Excel Export Enhancement [[ADDS-7449](#)]

General enhancement of Excel export based on the all information of special Container BusAdp/CsAdp.

#### 19.1.3 Ref-Dlg CodeVar Info (Optional) [[ADDS-7532](#)]

Display active/non active DataObjects information within the DataObject Reference dialogue (Project Context only).

#### 19.1.4 BusAdp Compare [[ADDS-6729](#)]

Explicit compare for special Container BusAdp added.

#### 19.1.5 BusAdp Signal Information [[ADDS-6728](#)]

General enhancement regarding the BusAdp Signal Information gathered form BusAdp source files.

#### 19.1.6 CsAdp/BusAdp Excel Auto-Export (Optional) [[ADDS-6657](#)]

Create an Excel output based on the content of the appropriate special Container CsAdp/BusAdp during MDX-Export automatically.

#### 19.1.7 Cmp-Cnt Bulk Change (Optional) [[ADDS-5968](#)]

Allow bulk change of attribute "Status" of first level Containers referenced in a Composition.

### 19.2 New Features, Major Improvements

#### 19.2.1 CMP++ Check Enhancement [[ADDS-7970](#)]

General enhancement of the Composition++ - Checks.

#### 19.2.2 VarCoded Prj-DS [[ADDS-7690](#)]

Always allow VariantCoding of DataSpace elements within a Project.

#### 19.2.3 CsAdp DO Ref Import [[ADDS-7529](#)]

Import also dependent references (e.g. Axis - Online-Ref of a Map) of imported DataObjects.

#### 19.2.4 DO Safety-Relevant [[ADDS-7504](#)]

New DataObject attribute "Safety-Relevant" added.

### **19.2.5 DO CT Assignment Restriction (Optional) [\[ADDS-7433\]](#)**

Restrict DataObject CustomTag assignments to special Container CsAdp/BusAdp; allow setting also for INPUT DataObjects.

### **19.2.6 ADD CNT Selection [\[ADDS-7191\]](#)**

Open specific Container in ADD via Command Line run.

### **19.2.7 Prj-Check Diag\_Idx (Optional) [\[ADDS-6760\]](#)**

Ignore DataObjects of type "Diag\_Idx" in Project Check Nr. 2 & 3.

### **19.2.8 Project Frozen with Obsolete DO's (Optional) [\[ADDS-6759\]](#)**

Allow Project status "frozen" when using DataObjects in status "obsolete" within the "Supplier Interface".

### **19.2.9 CsAdp Excel Export [\[ADDS-6658\]](#)**

General enhancement of CsAdp Excel output file.

### **19.2.10 Conf. Pack/Cmp Multiple Ref List [\[ADDS-6655\]](#)**

Generate a list of all multiple referenced elements within a Conf. Package/Composition when exchanging references.

### **19.2.11 DS Value TakeOver [\[ADDS-6654\]](#)**

Confirmation dialogue for DataSpace - "Confirm All Project Data Space Values" - function added.

### **19.2.12 CIL Mapping Src/Trg Handling [\[ADDS-6337\]](#)**

Handling of CIL Mapping attribute "Source"/"Target" specification improved.

### **19.2.13 Migr. Sync Container Release (Optional) [\[ADDS-4076\]](#)**

Allow creation of a new Container Release during ADD Offline Migration Sync.

## **19.3 Minor Improvements / Correction of Bugs**

### **19.3.1 Recursive Fix SW-DT Auto Set (Optional) [\[ADDS-8351\]](#)**

Allow automated setting of Software Datatype attributes when using "Recursive Fixing" feature.

### **19.3.2 RoW Cmp+ +/Prj Check (Optional) [\[ADDS-8222\]](#)**

Enhanced Rest-of-World - attribute handling within the Composition+ +/Project Check.

### **19.3.3 CMP+ + Integration Check [\[ADDS-8163\]](#)**

New Composition+ + Check related to integration misconfiguration added.

### **19.3.4 ClassPrototype Ref-Handling [\[ADDS-7753\]](#)**

Allow changes of ClassPrototypes also when already referenced.

### **19.3.5 Prj/Conf.Pack Compare Enhancement [\[ADDS-7513\]](#)**

General enhancement of the Project/Conf. Package Compare to ease the recognition of differences.

### **19.3.6 Obsolete DO Refs** [[ADDS-2201](#)]

Show references also for DataObjects of Status "obsolete".

### **19.3.7 DO CMP++ Refs** [[ADDS-8335](#)]

Show Composition++ DataObject references within the References dialogue.

### **19.3.8 CMP++ Interface Validation** [[ADDS-8168](#)]

Several issues related to Composition++ interface validation fixed.

### **19.3.9 Inconsistent DDX - Export (Optional)** [[ADDS-7746](#)]

Abort DDX-Export in case of inconsistent Container content according to Container Check Nr. 1.

### **19.3.10 Dep. SC Upper Limit** [[ADDS-7521](#)]

Issues related to the usage of a Dependent SystemConstant as Upper-Limit with effective value "0" fixed.

### **19.3.11 DDX DataType** [[ADDS-5939](#)]

Issues related to duplicated "MO\_DATATYPE" ID's within a DDX file fixed.

### **19.3.12 Prj. Cnt-TakeOver** [[ADDS-8652](#)]

Issues related to problems during multiple Container TakeOver within a Project fixed.

### **19.3.13 Offline Condition Sync** [[ADDS-8487](#)]

Issues related to Dependent SystemConstant and CodeVariant Condition differences when using irrelevant paraphrases within condition formulas fixed.

### **19.3.14 Class-Prototype Impl. Set Change** [[ADDS-8224](#)]

Issues related to non-changeable "Implementation Set" attributes within "simfixed"/"fixed" Class-Prototypes fixed.

### **19.3.15 CR Clone & Add/Replace** [[ADDS-8177](#)]

Copy attribute "Change Request" values when using ADD function "Clone & Add" or "Clone & Replace".

### **19.3.16 Online Limits** [[ADDS-8142](#)]

Issues related to the change of Online Limit values when changing Classification from OUTPUT to LOCAL and using the DefaultOnlineOutput feature fixed.

### **19.3.17 Prj Check Nr. 1 Refs** [[ADDS-8091](#)]

Issues related to unrecognised second level reference version conflicts (e.g. Dependent SystemConstants) within Project Check Nr. 1 fixed.

### **19.3.18 Prj Check Nr. 2 VarSel** [[ADDS-8073](#)]

Issues related to unrecognised CsAdp/VarCod interface problems within Project Check Nr. 2 fixed.

### **19.3.19 BusAdp DO Mapping** [[ADDS-8069](#)]

Issues related to inconsistencies for DataObject/CustomTag within the BusAdp Container view fixed.



**19.3.20 Match-Case Search SQL Server [\[ADDS-7909\]](#)**

Support "Match Case" search option for SQL Server databases.

**19.3.21 KP-User Role/Right [\[ADDS-7070\]](#)**

Allow the Release/Revision creation of foreign, fixed Conf. Packages also for ADD Users with role KP-User.

**19.3.22 Lib-Freeze DO-Version Change [\[ADDS-6702\]](#)**

Enhanced check result display in case of a DataObject version change within the "Library Freeze" Check.

**19.3.23 Prj-Check BusAdp Inconsistency [\[ADDS-6224\]](#)**

Issues related to unrecognised BusAdp inconsistencies within the Project Check and "Supplier Interface" when using multiple BusAdp's fixed.

**19.3.24 DO isOwner Handling [\[ADDS-5991\]](#)**

Issues related to the reset of DataObject attribute "isOwner" when changing Classification fixed.

**19.3.25 DO Calib. Access [\[ADDS-5754\]](#)**

Issues related to the setting of an invalid "Calib. Access" value when changing the type of a DataObject fixed.

**19.3.26 FormatString TakeOver List [\[ADDS-8157\]](#)**

Column for Data Object attribute "FormatString" added to the list of TakeOver elements.

**19.3.27 DDX Prj-SC-ID Ref [\[ADDS-8047\]](#)**

Inconsistent ID references of Project - SystemConstants within the DDX files fixed.

**19.3.28 Prj/Conf.Pack/Cmp Ref & Responsible [\[ADDS-8871\]](#)**

Issues related to erroneously deleted Project/Conf. Packages/Composition references after changing Responsible and using TakeOver functionality fixed.

## 19.4 ADDAdapter

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## 19.5 DDX HighLevel

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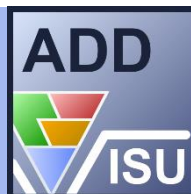
## 20 No longer supported features

## 21 Questions?

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

### ADD Hotline

Tel.: +49 (0)941 – 49082-16  
email: [hotline@visu-it.com](mailto:hotline@visu-it.com)



### ADD Product page

Internet: <https://www.visu-it.de/add>