Data Declaration System

What's new in Version 5.5.R1?

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1 Purpose and scope

This document describes the improvements and changes of DDS V5.5.R1 compared to V5.4.0.

2 What's new in Version V5.5.R0?

Improvements and changes of DDS V5.5.R0 compared to V5.4.0.

2.1 ADD – DDS Toolchain

2.1.1 Code variants

Code variants can be defined in ADD since version V3.7.0. When exporting code variants to DDS, they will be specially treated e.g. when performing a source export.

2.1.2 Project specific values

Project specific values of system constants can be exported to DDS now.

2.1.3 Support of embedded and virtual axes

Since ADD V3.7.0 it is possible to manage embedded (STD) und virtual (FIX) axes in ADD. The ADD Import filter was improved in order to correctly transfer these definitions to DDS.

2.1.4 ADD – DDS link

The ADD-DDS link is once again improved:

1. DDS does no longer need a separate "ADDConfig.xml"
2. DDS checks whether a suitable/compatible ADD version is available
   If DDS does not find a compatible ADD version, an Import from (another version of) ADD will not be allowed

2.2 New Features

2.2.1 New MappingScheme for maps with embedded axes

With the new mappingScheme `"55-Struct_(NoAxisPts+EmbedAxis)_byColFuncVal"` it is possible to define maps with special embedded axes. These embedded axes additionally contain an axisSize field at the beginning of their axis points.
The mappingScheme is supported at: Export Source, ELF Import, I3E Import, ASAP2 Export, DDX Export, MDX Export, ASAP2 Import, DDX Import, Export DR, Import CVX.

2.3 Minor Improvements / Correction of Bugs

2.3.1 Import ADD: Miscellaneous improvements

Improvements:

- Special message if virtual system constant container is empty

2.3.2 Import ASAP2: Miscellaneous improvements

Improvements:

- Bug correction: The overall size of a bitfield-structure was not always calculated correctly. This problem is fixed now.

2.3.3 Import DDX: Miscellaneous improvements

Improvements:

- Support of mappingSchemes
- The DDX Import filter can now be launched in command line. That means, the call "ImpDDX.exe –p" will now work properly

2.3.4 Import ELF: Support of new compiler GNUSH V0603

DDS now supports the compiler GNUSH v0603 from KPIT Cummins Infosystems Limited, a cross compiler toolchain for Renesas (formerly Hitachi and Mitsubishi) SH series of micro controllers

2.3.5 Import ELF/I3E: Miscellaneous improvements

Improvements:

- Reduction of superfluous error messages when reading the address from the global section
- Improvement of ChooseAction message which controls whether to read an address from the global section or not

2.3.6 CmpMrg: Miscellaneous improvements

Improvements:

- Multiselection of confUnits is now possible:
  -> Select the region via shift-mouseclick (in the checkbox of the confUnits)

2.3.7 Export Source: Miscellaneous improvements

Improvements:

- Write special #defines for members of pointer structures

2.3.8 Export to ASAP2: Miscellaneous improvements

Improvements:

- FUNCTION_VERSION of FUNCTION is written directly after long identifier now

2.3.9 Export to DDX: Miscellaneous improvements

Improvements:

- Improvement of SHORT-NAME and LONG-NAME of artificial conversions
- Support of mappingSchemes

2.3.10 Export to MDX: Miscellaneous improvements

Improvements:

- Support of RECORD_LAYOUT
- Export default Feature with the name "__DDS_DEFAULT_FEATURE__"

2.4 AddOn components

2.4.1 Export to Ascet: Miscellaneous improvements

Improvements:

- New filter options for compare ("CompareMode", "CompareMerge", "CompareDisplayMode")

- Handling access rights of Ascet Elements
  In case of an export to a protected Ascet database, an information window will be appearing detailed on the secure state of the underlying Ascet objects. So far the "Disallow Import" and "Write" secure state will be detected and handled.
  Hint: By reasons of not supported check functionality on part of Ascet API export to password protected Ascet databases will fail!

- Map, Axis, CDefine & Parameter Limits
  By editing/add the "LimitHandling" tag in the appropriate object section of your underlying "MappingFile" it is now possible to handle the export of limit values.
  In case of tag value "DataType" the "Limit" values of the exported object will be set to the minimum and maximum of its underlying "ADD SW Base Type". Whereas "Default" provokes the use of the origin "ADD DataObject Limits".
  Hint: CDefines – limit values will only export after ADD version 3.7.x!

- ADD – Ascet Comparison
  It is now possible to compare an ADD Container to an Ascet Database via "DB Comparison". This will simulate the export process and create a difference file. There is the opportunity to select between an HTML and XAML file.
  The comparison result can denounce the efficient of an ADD Container export as well as the correlation of the ADD Container and its related Ascet Database. As an extra benefit the occurrence of Ascet Database objects in any Ascet BlockDiagram will also be checked.

2.4.2 Export to TargetLink: Miscellaneous improvements

Improvements:

- Map, Axis, CDefine & Parameter Limits
  By editing/add the "LimitHandling" tag in the appropriate object section of your underlying "MappingFile" it is now possible to handle the export of limit values.
  In case of tag value "DataType" the "Limit" values of the exported object will be set to the minimum and maximum of its underlying "ADD Base Type". Whereas "Default" provokes the use of the origin "ADD DataObject Limits".
  Hint: CDefines – limit values will only export after ADD version 3.7.x!

2.4.3 ADDS Interface: Miscellaneous improvements

Improvements:

- ADD Project View
  'Trial Version' of ADD project export to Ascet is now available. This provides the opportunity to transmit a whole ADD project into an Ascet database.
- Container-Database Comparison

Compare functionality for ADD Container and Ascet Databases has been added. It is now possible to simulate and compare an ADD container export to Ascet before starting a real process run.

- ADD Version Check
  ADD Database compatibly checks has been added to the 'ADDS Interface' operations.

3 What's new in Version V5.5.R1?

Improvements and changes of DDS V5.5.R1 compared to V5.5.R0.

3.1 Misc. Improvements

3.1.1 ImpADD

Improvements:

- Generated sourceSections (based on codeVariants) will be located in the GRL file defined via filter option "InstrEntitiesBasedOnProxiesToUnit"
- Support of codeVariants even for structure members
  a) if filter option "DOMapping" is set to "Struct_4Calib"
  b) for packed bits which will become bitfield-members
- Support of codeVariants also for INPUT data objects (-> support of codeVariants within the SW interface)
- Embedded axes will become the same classification than their containing maps during import into DDS
- Support of maps with embedded axes also in the SW interface declaration (both in "Global" and in "Struct_4Calib" mode)

3.1.2 ExpSrc

Improvements:

- Support of sourceSections also structure members
- Don't export defines for embedded axes

3.1.3 Seml

Improvements:

- Toleration of sourceSections for structure members (limit support; no GUI possibilities, means not supported in GenEdit)

3.1.4 CmpMrg

Improvements:

- Correct handling of LOC- and DEF-function assignement in "MergeAttributes" mode
  (winner is source definition)

3.1.5 ImpA2

Improvements:

- New name for generated/imported structure types (without prefix '_')
- Improvement in the handling of compatible IF_DATA templates (e.g. ETK 1.4 vs. ETK 1.5)

3.1.6 ExpTL

Improvements:

- Improvement of rational function conversion export to Ascet (improved values)
- Correct handling of option "UserDefinedMapping" for SystemConstants

3.1.7 ExpASCET

Improvements:

- Expot only the project file an the container is used into AMD - Format. This task improves the perfomance.
- Data of axes elements are not exported if the option IgnoreInitValues is used in state YES. Monotony check is used if the option Overwrite an IgnoreInitValue = Yes is used.
- Correct export formulas.
- Correct the project detection of the export SystemKonstants container.

3.1.8 ImpCVX

Improvements:

- Support of map with embedded axes in conjunction with proxy definitions
  (related Problem "...axis is readOnly" is fixed now)

3.1.9 ExpA2

Improvements:

- Skip embedded axes in "AddressOffsetFile"

3.1.10 Export to Ascet: Miscellaneous improvements

Improvements:

- Difference Browser

Bugfixes:

- Display of differences of process local elements is improved
- Formula-Export: Coefficients of type $xe^{\pm y}$ (e.g.: $2e^{-100}$) have been fixed.
- Axes will no longer be overwritten. Monotony check is only active if "ExistingDBUpdate Mode" is set to "Overwrite" and the appropriate Axis is not yet a member of the underlying Ascet database.

3.1.11 ADDS Interface: Miscellaneous improvements

Improvements:

- New startup modes are implemented to improve the handling of the interface. These modes are "Export ADD – Container", "Export Systemconstants" and "ADD – Ascet –DB comparison". Each mode can easily be started via menu item in Ascet. The ADDS Interface can also preconfigure itself, if one of the modes is detected.
- "Remember my decision" handling is available to take over the selected Ascet elements by the user automatically each time.

Bugfixes:

- Accurate detection of the items Folder and Project in the window "Export SystemConstants"
- "Additional information" windows are now available in all „Advanced Settings"dialogs and "Export SystemConstants" window.

3.1.12 Misc

Improvements:

- Fix of element AXIS-NUMBER in object MAPPING-SCHEME

4 No longer supported filters/components

5 Questions?

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

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