

Data Declaration System

What's new in Version 5.4.0?

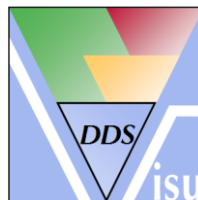
(including 5.4.0R1)

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1 Purpose and scope

This document describes the improvements and changes of DDS V5.4.0 compared to V5.3.0.

2 What's new in Version V5.4.0?

2.1 New Features

2.1.1 Import ADD: Generation of structures

In this new DDS version it is possible to generate structures based on ADD definitions. With the new filter option "DOMapping" it is possible to control the representation of the ADD dataObjects in DDS.

2.1.2 Import ADD: Import of container in project scope

With the help of the new filter option "DDProject" it is possible to import an ADD container in project-scope (means with project specific values).

Additionally:

- the 'virtual' SystemConstants Container can be imported
- the DDContainer can be specified without version identifier, e.g. specify "myContainer" instead of "myContainer1.1.0"

2.1.3 Support of CVX 2.1

Support of CVX 2.1 files, especially:

- support of string conversions
- toleration of additional attributes in the CVX file
- automatic detection of CVX version

2.2 Import ADD Improvements

2.2.1 ImpADD: Project specific SystemConstant values

Topic TAD-RCN-67:

- Support of project specific values for SystemConstants
- Handling of '0' values

2.2.2 ImpADD: Case insensitive container names

Topic TAD-RCN-68:

Option "DDContainer" is case-insensitive now

2.2.3 ImpADD: Handling of INPUT data

Topic TAD-RCN-73:

The filter option "GenerateInstrEntitiesBasedOnProxies" is extended by the new value/mode "CreationRule_ADDNameInLowerCase_IngoreInputs". In this mode, no real instrEntity definitions are created based on the imported INPUT (proxy) data .

2.2.4 ImpADD: Extended bitmask

Topic TAD-RCN-76:

There is the new filter option "BitmaskForOtherDataObjects" with the following functionality:

Name of data objects which should get the bitmask "0x1". Hint: Use a pattern with wildcard, e.g. "LC_*" to set the bitmask for all data objects beginning with "LC_"

2.2.5 ImpADD: Ignore LOCAL and invisible data

Topic TAD-RCN-77:

There is the new filter option "DontSetDeclAndDefFile4HiddenAndLocalData" with the following functionality:

Don't set (automatically) a declaration and definition file for data objects which are LOCAL and invisible

2.2.6 ImpADD: Introduction of blacklist

Topic TAD-RCN-78:

There is the new filter option "DontCreateInstrEntitiesList" with the following functionality:

Overrules option 'GenerateInstrEntitiesBasedOnProxies': Don't create 'real' DDS entities for the ADD data objects specified via this filter option. Hint: You can use a pattern with the wildcard '*'

2.2.7 ImpADD: Extended definition- and declaration-files

Topic TAD-RCN-79:

The "Import ADD" filter is extended with a set of new filter options in order to be able to precisely specific the definition- and declaration-file of the imported data:

- `DefFile4CalibrationData`
Definition file (c-file) of the created 'real' DDS calibration entities. Hint: Use a pattern with wildcard, e.g. "*_data.c" to create/use a c-file whose name is linked to the current DD container (default = 'Default Project Settings')
- `DeclFile4PublicCalibrationData`
Declaration file (h-file) of the created public 'real' DDS calibration entities. Hint: Use a pattern with wildcard, e.g. "*_data.h" to create/use a h-file whose name is linked to the current DD container (default = 'Default Project Settings')
- `DeclFile4PrivateCalibrationData`
Declaration file (h-file) of the created private 'real' DDS calibration entities. Hint: Use a pattern with wildcard, e.g. "*_data.h" to create/use a h-file whose name is linked to the current DD container (default = 'Default Project Settings')
- `DefFile4OnlineData`
Definition file (c-file) of the created 'real' DDS online entities. Hint: Use a pattern with wildcard, e.g. "*_data.c" to create/use a c-file whose name is linked to the current DD container (default = 'Default Project Settings')
- `DeclFile4PublicOnlineData`
Declaration file (h-file) of the created public 'real' DDS online entities. Hint: Use a pattern with wildcard, e.g. "*_data.h" to create/use a h-file whose name is linked to the current DD container (default = 'Default Project Settings')
- `DeclFile4PrivateOnlineData`
Declaration file (h-file) of the created private 'real' DDS online entities. Hint: Use a pattern with wildcard, e.g. "*_data.h" to create/use a h-file whose name is linked to the current DD container (default = 'Default Project Settings')
- `DefFile4GlobalDefines`
Definition file (h-file) of the created global 'real' DDS cDefine. Hint: Use a pattern with wildcard, e.g. "*_data.c" to create/use a c-file whose name is linked to the current DD container (default = 'Default Project Settings')

- `DefFile4PrivateDefines`
Definition file (h-file) of the created private 'real' DDS cDefine. Hint: Use a pattern with wildcard, e.g. `"*_data.c"` to create/use a c-file whose name is linked to the current DD container (default = 'Default Project Settings')

2.2.8 ImpADD: Discard superfluous information

Topic TAD-RCN-80:

No additional information at "conversions" will be written any longer

2.2.9 ImpADD: Enhanced 'displayName' handling

Topic TAD-RCN-82:

There is the new filter option `"DisplayNamePattern"` with the following functionality:

The ADD data object name corresponds to the DDS `displayName`. You can override this default mapping by specifying another `displayName-pattern` here

2.2.10 ImpADD: Generate 'calFunction'

Topic TAD-RCN-70:

The "Import ADD" filter is able to generate a `calFunction` for each imported `DDContainer`. The naming (and structure) of this `calFunction` can be controlled via the following two new filter options:

- `MainFunctionName`
Name of main (global) `calFunction` which should be created (depends on option `"GenerateFunctionBasedOnDDContainer"`)
- `SubFunctionName`
Name of sub (local) `calFunction` which should be created (depends on option `"GenerateFunctionBasedOnDDContainer"`). This `calFunction` is local in "MainFunction" and contains all imported data objects

2.3 Minor Improvements / Correction of Bugs

2.3.1 DServer: Support of additional attributes

Improvement:

Support of the attributes `"bitmask"` and `"monotony"`

2.3.2 Bug in SysConf (ODX)

Topic #306:

Correction of visual display problem

2.3.3 ImpELF – miscellaneous

Improvements:

Sometimes, a definition is correctly described in the debug section but its address attribute is missing there.

Consequently, the definition will not get an address during address import. In this version, the ELF import is improved by the following functionality: The user can decide via a choose action message whether to take the address from the global section of the ELF file for this definition or not.

2.3.4 Import CVX – miscellaneous

Improvements:

- Do not update a (init-)value when the value is specified via a cDefine or an enumerator. The import will emit a message in this case.
- Topic #315: Support maps/axes with dimension "1"
- Correct handling of function, function header and display identifier

2.4 AddOn components

2.4.1 Export to Ascet: Miscellaneous improvements

Improvements:

- Automatic recognition of Ascet .Net and COM – API
- "SystemConstant" objects will be supported now

2.4.2 Export to TargetLink: Miscellaneous improvements

Improvements:

- "MATLAB" path registration will be set according to dSpace TargetLink settings

2.4.3 ADDS Interface: Miscellaneous improvements

Improvements:

- Shut down function added: It is now possible to automatically shut down "ADDS Interface" after running an import/export process
- Automatic DDS version detection added. ADDS Interface is able to switch current DDS version to its depending DDS version.
- MappingFile" – Selection can be omitted.
- "Diagnostic" – Mode added: Extended verbose mode in order to help to debug
- "ExistingDBUpdateMode" & "ContentLevel" will be permanently displayed in the "Additional Information" section.
- Successful-Run window: "Successful run!" – Window pop up is arbitrary.
- Flashy mark for development dump versions added.
- Automatic path, folder, module and container selection in "ADD -> Ascet" mode based on the marked element in "Ascet" has been extended and improved. ADD Container name will be set according to the marked "Ascet" – Module

3 No longer supported filters/components

4 Questions?

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

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