



DDS

What's new in 23.1.R0?



Visu-IT! GmbH
March 16, 2023

© Copyright 2023
Visu-IT! GmbH
An der Schergenbreite 1
93059 Regensburg

Table of Contents

1	DDS: Purpose and scope	3
2	DDS - What's new Info	3
2.1	Version 23.1.R0	3
2.1.1	New Features, Major Improvements	3
2.1.2	Minor Improvements, Correction of Bugs.....	4
3	DDS - What's new Appendix	6
3.1	No longer supported features.....	6
3.2	Questions?.....	6

1 DDS: Purpose and scope

This document describes the improvements and changes of the current DDS version compared to the previous versions.

2 DDS - What's new Info

2.1 Version 23.1.R0

2.1.1 New Features, Major Improvements

Key	What's New In Dds																
ADDS-21597	<p>ExpSrc:</p> <p><u>Bugfix:</u> Allow correct usage of typedefs for structures instead of plain C struct types in generated code, when option "-GenerateTypedefs4Structs" is enabled.</p> <p><u>Observe:</u> Particular adaptations within instructions in <code>_DDS_Global.grl</code> might be necessary.</p>																
ADDS-21543	<p>ExpA2</p> <p>Removed unclear options</p> <ul style="list-style-type: none"> • DepositDirection4OnlineValues • DepositDirection4ParameterValues <p>Introduced new options instead each with 3 possible states</p> <ul style="list-style-type: none"> • LayoutDirection4Onlines • LayoutDirection4Parameters <table border="1" data-bbox="357 1216 1428 1496"> <thead> <tr> <th>Layoutdirection4onlines</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Default</td> <td>According to DB model</td> </tr> <tr> <td>ByRowDirection</td> <td>Overwrite all multidimensional onlines with 'ROW_DIR'</td> </tr> <tr> <td>ByColumnDirection</td> <td>Overwrite all multidimensional onlines with 'COLUMN_DIR'</td> </tr> </tbody> </table> <table border="1" data-bbox="357 1514 1428 1821"> <thead> <tr> <th>Layoutdirection4parameters</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Default</td> <td>According to DB model</td> </tr> <tr> <td>ByRowDirection</td> <td>Overwrite all multidimensional parameters with 'ROW_DIR'</td> </tr> <tr> <td>ByColumnDirection</td> <td>Overwrite all multidimensional parameters with 'COLUMN_DIR'</td> </tr> </tbody> </table>	Layoutdirection4onlines	Description	Default	According to DB model	ByRowDirection	Overwrite all multidimensional onlines with 'ROW_DIR'	ByColumnDirection	Overwrite all multidimensional onlines with 'COLUMN_DIR'	Layoutdirection4parameters	Description	Default	According to DB model	ByRowDirection	Overwrite all multidimensional parameters with 'ROW_DIR'	ByColumnDirection	Overwrite all multidimensional parameters with 'COLUMN_DIR'
Layoutdirection4onlines	Description																
Default	According to DB model																
ByRowDirection	Overwrite all multidimensional onlines with 'ROW_DIR'																
ByColumnDirection	Overwrite all multidimensional onlines with 'COLUMN_DIR'																
Layoutdirection4parameters	Description																
Default	According to DB model																
ByRowDirection	Overwrite all multidimensional parameters with 'ROW_DIR'																
ByColumnDirection	Overwrite all multidimensional parameters with 'COLUMN_DIR'																
ADDS-21323	<p>ImpA2</p> <p>The attribute "MAX_REFRESH" of CHARACTERISTICS or MEASUREMENTs is now imported from an *.a2l file. The respective entities for OnlineUpdate and TimePeriod are either reused if already existing in the DDS DB or created during import otherwise.</p>																

ADDS-21138 ImpADD

New option "-SWCSpecialEntities" to manage the generation of artificial entities DS_NAME, DS_VERSION and DEGRADATION for SWCs.

Possible values are:

DATASET	creates DS_NAME and DS_VERSION
DEGRADATION	creates DEGRADATION

It's possible to use the SWC_NAME variable within the pattern for the name of the variable.

E.g.

```

-=-SWCSpecialEntities $SWC_NAME$_DATASET
-+SWCSpecialEntities $SWC_NAME$_DEGRADATION
    
```

ADDS-21109 ImpADD / ExpA2

When the ImpADD option "DataSpaceMemoryOptimizationMode" is set to "Optimize", the data variants in the *.a2l output-file are now compatible with the unoptimized output in terms of naming.

- Entity names (varcriteria are separated by a dot instead of an underscore)
- Displayname (is just the member name without parent and the varcriterion separated by a dot)
- SymbolLink is the real path and name according to the source code (full entity path)

ADDS-21076 ImpELF

Official support of compiler "GHS C 2021.1.4" from GreenHills.

6 issues

2.1.2 Minor Improvements, Correction of Bugs

Key What's New In Dds

ADDS-21602 ImpADD

Fixed an error where deprecated supplier interface configurations led to incorrect data in DDS.

ADDS-21436 Seml

Bugfix: Formula-Parser fixes in regards of operator precedence and using parentheses.

ADDS-21380 ImpADD / ExpSrc / Seml

Support for new operators for "Evaluatable Defines"

- Logical Or operator: OR, ||
- Logical And operator: And, &&
- Bitwise Or operator: |
- Bitwise And operator: &
- Equality operator: ==
- Unequality operator: !=

- Less operator: <
- Less or equal operator: <=
- Greater operator: >
- Greater or equal operator: >=

ADDS-21334 ExpSrc

Fixed usage of nested struct type in combination with AUTOSAR code generation using option "-GenerateTypedefs4Structs" in ExpSrc. Code is now generated correctly using the typedef type instead of the wrongly spelled C-type. The extra "struct" in the nested declaration is omitted (here shown as comment for illustration):

```
typedef struct Struct1_ {
    int x;
} Struct1;

typedef struct Struct2_ {
    int y;
    /*struct*/ Struct1 struct1;
} Struct2;
```

ADDS-21327 ExpSrc

Option "Link2SourceSection" set to "UseGenericMemorySection".
 Fix: Don't generate sourceSection for embedded axes as these entities are part of the enclosing map.
 Fix: Use special sourceSection with suffix to enclose the artificial parameters DS_NAME and DS_VERSION (no fallback)

ADDS-21254 ImpAdd

Fix: The container list within compositions in the *.grl is sorted.

ADDS-21241 CmpMrg

The CmpMrg option "-AllowAdditionalSystemEntitiesInMerge" merges following entity-types automatically into the target DB:

- memRegion
- codeSymbol
- timePeriod
- onlineUpdate
- raster
- language
- ddMemSection (new since 23.1.R0)

[7 issues](#)

3 DDS - What's new Appendix

3.1 No longer supported features

Key	What's New In Dds
-----	-------------------

No issues found

3.2 Questions?

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

DDS Hotline

Tel.: +49 941 - 49082-16
email: hotline@visu-it.com



DDS Product Page

Internet: visu-it.de/products/dds/