



## DDS

### What's new in 22.2?



**Visu-IT! GmbH**  
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Visu-IT! GmbH  
An der Schergenbreite 1  
93059 Regensburg

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# 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 in 22.2.R0

### 2.1 New Features, Major Improvements

Key	What's New In Dds
ADDS-20636	<p><b>ExpMDX</b></p> <p>Introduced a new option "MDXVersion" to let the user specify which version of the MDX standard shall be exported:</p> <ul style="list-style-type: none"> <li>• MDX 1.1 (default)</li> <li>• MDX 1.2</li> </ul>
ADDS-20548	<p><b>ExpSrc</b></p> <p>New option "<b>EnableIncludeGuards4CDefines</b>" to force "#define" directives to be guarded to prevent accidental redefinitions, e.g.</p> <pre>#ifndef MY_CDEFINE #define MY_CDEFINE 5 #endif</pre>
ADDS-20509	<p><b>ImpADD / ExpSrc</b></p> <p>Support of partial variant coded dataspaces (optimized and non-optimized) using virtual variant selectors or multiple real variant selectors.</p>
ADDS-20497	<p><b>ImpADD / ExpA2</b></p> <p>The mapping schemem for the artifical parameters for SWCs is now by default ASCII instead of ValBlk, if a mappging scheme with the following properties is available within the project:</p> <pre>mappingSchemeParameter 'AR_3_Ascii' {   dataTypeKind = dataTypeKind ARTYPE;   displayName =     mlString {       value = "AR_3_Ascii";     }   mappingElements =     mappingElement {       kind = mappingElementKind values;     } isAscii = boolean true; }</pre>

The output for such a parameter looks similiar to the following:

```

/begin CHARACTERISTIC <SWC>_DS_NAME ""
    ASCII 0x80470200 DLC.UBYTE_COL_DIRECT 0 NO_COMPU_METHOD 0 255
    NUMBER 12
    SYMBOL_LINK "<SWC>_DS_NAME" 0
/end CHARACTERISTIC
    
```

**ADDS-20217 ExpSrc**

The Option "**WriteContainerInfoComment**" generates a comment in every header files that correlates to a container in ADD and provide the information about name, version and status.

```

/*
// Fileheader with options
// ...
-----
-----
*/

/* <Containername>.<Version> <Status> */

#include "a_basdef.h"
#include "Rte_AIChRqm.h"
    
```

**ADDS-19713 ImpADD / ExpSrc**

New Import Mode (in support of SWC import): New Option "DDContextConfiguration" to specify the context container in ADD in order to import context dependent cDefines. This new import mode offers the possibility to export a global \*.h file that contains the concrete specified context for a correlated SWC. cDefines are now also aware of beings managed by the RTE or DDS in order to avoid duplicate definitions. cDefines also support dependent cDefines within the exported source code (which are evaluated by the compiler).

[6 issues](#)

## 2.2 Minor Improvements, Correction of Bugs

Key	What's New In Dds
<a href="#">ADDS-20745</a>	<b>ExpA2</b> Entities with mappingScheme ASCII must not use the format string defaults used for numbers but for strings which usually is "%s".
<a href="#">ADDS-20729</a>	<b>ExpA2</b> Corrected compatibility mode for parameter arrays using mappingSchemes Ascii or ValBlk in regard of the attributes CalibrationAccess (configured in ADD) and READ_ONLY/READ_WRITE.
<a href="#">ADDS-20719</a>	<b>ExpA2</b>

Fixed a bug within the ExpA2 using the Option "--GenMemSegments" that triggers the generation of MEMORY\_SEGMENT entries in the \*.a2l output. The bug occurs in combination with very large MATRIX\_DIM entries of characteristics within the bounds of a memory section and causes the section to grow too large.

ADDS-20628

**ImpADD**

Issues related to sporadic internal error when importing an ADD Project containing DataSpace Maps fixed.

ADDS-20610

**ExpSrc**

Write SourceSections (e.g. for code variants) for structure type declarations within SW\_INTERFACE.

ADDS-20555

**ImpADD**

Change: The artificial entities DS\_NAME and DS\_VERSION are not moved to UnassignedInputs in case of a single container import within a SWC, but remain inside the exported \*.hc file of the SWC itself.

ADDS-20511

**ExpA2**

Fixed an internal error that occurs when the project contains variant coded dataspace and optimization is activated during the import.

ADDS-20461

**ExpSrc**

Bugfix: CodeVariants in case of certain conditions and project configurations should not lead to empty struct declarations which are invalid constructs in ANSI C.

ADDS-20378

**ImpADD**

Fixed incomplete composition code variant evaluation in ADDCore for ImpADD.

ADDS-20364

**ExpSrc**

ExpSrc supports code generation for variantcoded dataspace with a single variant selector, multiple variant selectors, virtual variant selectors (also nested).

Restriction: Either all dataspace or no dataspace must be variant coded. Partial variant coded dataspace is only supported in combination with a single variant selector.

ADDS-19604

**ExpA2**

A given addressOffset attribute of the memoryRegion corresponding to the ADDR\_EPK attribute in the MOD\_PAR section of an A2L-File is now taken in consideration and therefore added to the base address.

ADDS-18595

**ExpSrc**

ExpSrc in Autosar considers "volatile" and entity markers, configured in the project settings, like "\_map", "\_axis", "\_parameter" and "\_online", correctly.

12 issues

## 3 DDS - What's new in 22.2 Appendix

### 3.1 No longer supported features

Key	What's New In Dds
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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](mailto:hotline@visu-it.com)



#### DDS Product Page

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