

## What's New Presentation - DM 22.2

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# 1 Date

 22.07.2022

# 2 Topics

We picked out some of the new features which are interesting for general usage.

Key	Summary	What's new
<b>ADD</b>		
DM-202	Remove lock for recursive fix	<b>Lock Recursive Fix</b> Allow the usage of "Apply All" functionality in order to Lock elements automatically when using ADD feature "Recursive Fix".
DM-177	Show removed elements in the supplierinterface	<b>Removed Supplier Interface</b> List removed Project Supplier Interface elements; mark elements as "Modified" and strike-through text formatting.
DM-126	Attribute FuSi-Relevance	<b>Prj Function Reliability</b> Introducing new Project and CsAdp Feature "Function Reliability"; new Attribut added to CustomTag "CsAdp"; Attribut "FunctionReliability" will be considered within Project Checks.
DM-175	Enlarge number of possible characters at remark	<b>Enlarge Prj Remark</b> Maximum number of characters of Project Remark attribute increased to 4000.
DM-174	Show the project where it is based on	<b>Based On Project</b> Introducing new Project attribute "Based on Prj"; containing the information of the base Project used for coping or versioning.
DM-236	Optimized handling of SWC interfaces	<b>SWC Interfaces</b> The usability of the SWC interfaces have been optimized.
<b>NameChecker</b>		
DM-107	Focus current selection	<b>NCheck Current Selection</b> Always show currently selected Catalog element within the NCheck Catalog Dropdown dialog.
<b>PACES-UI</b>		

DM-135	Variants with ADD and AUTOSAR	<p><b>Introduce a possibility for configuration of context and code variants for SWCs</b></p> <p>with further possibilities for ImpADD / ExpSrc:</p> <p>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).</p>
<b>DDS</b>		
DM-188	Version information as comment	<p><b>ExpSrc</b></p> <p>The Option "<b>WriteContainerInfoComment</b>" generates a comment in every header files that correlates to a container in ADD and provide the information about name, version and status.</p> <pre> /* // Fileheader with options // ... ----- */  /* &lt;Containername&gt;.&lt;Version&gt; &lt;Status&gt; */  #include "a_basdef.h" #include "Rte_AIChRqm.h" </pre>
DM-217	Include guards at cDefines	<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>

### 3 Details:

#### 3.1 Remove lock for recursive fix

##### 3.1.1 Purpose & Scope:

During recursive fixing, the lock of the other users must be removed for all objects that are to be fixed. This is now possible at the beginning of recursive fixing with a check mark.

##### 3.1.2 How to switch on:

It is automatically switched on, if the recursive fix is switched on.

## 3.2 Show removed elements in the supplier interface

### 3.2.1 Purpose & Scope:

The "Supplier Interface"-tab in the ADD project now also visualizes the omitted supplier interfaces for comparison with the base lib and displays them with the familiar supplier interface mechanisms plus a separate highlighting.

### 3.2.2 How to switch on:

The supplier interface is a custom specific feature.

## 3.3 Attribute FuSi-Relevance

### 3.3.1 Purpose & Scope:

The FuSi relevance attribute is added to ADD in order to detect an FuSi signal in the project when PL mapping is activated. The attribute should be able to be attached to a size via the custom tag and displayed in the supplier interface and in the project check.

### 3.3.2 How to switch on:

The custom tags at CsAdp are custom specific.

## 3.4 Enlarge number of possible characters at remark

### 3.4.1 Purpose & Scope:

It is possible to use longer remark entries.

### 3.4.2 How to switch on:

Can be used without any further steps.

## 3.5 Show the project where it is based on

### 3.5.1 Purpose & Scope:

A new field shows the project where the current project is based on. E.g. a project got created as new variant of project A.A.2.1.0 draft then this is shown in the field. Furthermore the date is written when this new variant got created. This makes it possible to see the conditions that existed at the time of creation.

### 3.5.2 How to switch on:

Can be used without any further steps.

## 3.6 Optimized handling of SWC interfaces

### 3.6.1 Purpose & Scope:

The handling of SWC interfaces got improved; e.g. the list of ports is now sorted. Furthermore the take over of an interface, where a dataobject with this name already exists, a list gets shown with the different versions and the possibility to use one of them.

### 3.6.2 How to switch on:

Software Components (SWCs) are a custom specific feature. Please contact us, if you are interested in using it.

## 3.7 NameChecker

### 3.7.1 Focus current selection

#### Purpose & Scope:

It is possible to see the current selected pattern or catalogue. Therefore it is possible to see also the description of this selection.

#### How to switch on:

Can be used without any further steps.

## 3.8 PACES-UI

### 3.8.1 Develop variants with ADD and AUTOSAR

#### Purpose & Scope:

The introduction of code variants at the SWC and possibility to generate 150% software.

Therefore it is possible to configure the activity of the code variant at compile time by specifying the cDefine value as compiler flag.

In order to be sure, that all configurations are valid it is possible to check the module with different configurations.

Since it's now possible to use conditional cDefines inside of CodeVariants and it's also possible to overwrite the conditions of conditional cDefines in the SystemConstantContext the CodeVariant conditions can be now manipulated on already Fixed Modules by specifying a Context with desired conditions.

#### How to switch on:

The SWC code-variant and context-configuration handling is enabled by default.

## 3.9 DDS

### 3.9.1 Versioninformation as comment

#### Purpose & Scope:

In order to be able to determine more easily after the import and subsequent source export from which container the source originated, one can now have the container name, the version and the status output in the ADD with in the source as a comment.

#### How to switch on:

Filtersetting "WriteContainerInfoComment" at the ExpSrc.

### 3.9.2 Includeguards at cDefines

#### Purpose & Scope:

In order to avoid that after the import multiple defined system accounts can arise in the source code, which can lead to warnings during the compilation process, one can set that for these define statements includeguards can be generated.

#### How to switch on:

Filtersetting "EnableIncludeGuards4CDefines" at the ExpSrc.