

What's New?

ELENA

<i>List of modifications</i>	<i>From:</i> 01.400.00.03 / 03/03/2016
	<i>To:</i> 01.400.00.03 / 03/03/2016

Module: PM-Aveva PDMS

Notes: 2

Note: ELE-251

To enable the correct handling of the nuts and bolts weight by PDMS DTAB element, it was added a new criterion

for the name composition of the following PDMS elements: BLTREF, SBOL, NSTD, DTAB. With the previous naming convention, in fact, there were conflicts, which avoid PDMS to correctly link the weight to the bolts and nuts.

The first element, BLTREF, is in the SPCOM table and is the pointer to SBOL element. The second element, SBOL, identifies the features of the standard bolt (Flange/Flange joint) and is the BLIS table key. The third element, NSTD, is in BLIS table and is the pointer to DTAB element. The fourth element, DTAB, identifies the lengths of the non-standard bolts and is the LTAB table key.

The new name composition criterion for the elements described above can be enabled through the new "new_bolts_mode" optional parameter, defined in the "sbol" section of the Builder configuration file "Config_PM.xml". If this parameter is set to "1", enables the new name composition criterion, while if is set to "0", maintains the previous composition criterion. Do not define the new parameter in the "Config_PM.xml" configuration file, is equivalent to set it to "0".

Here below the description of the element name composition criterion, if the "bolts_for_each_piping_class" parameter of the "sbol" section is set to "0":

- BLTREF and SBOL: MARK_ID + "_" + BLT_NUMB
- NSTD and DTAB: ITEM_COMP_ID + "_" + DIAM_BLT_SERIE DIAM_BLT

Here below the description of the element name composition criterion, if the "bolts_for_each_piping_class" parameter of the "sbol" section is set to "1":

- BLTREF and SBOL: SPEC_CODE + "_" + MARK_ID + "_" + BLT_NUMB
- NSTD and DTAB: SPEC_CODE + "_" + ITEM_COMP_ID + "_" + DIAM_BLT_SERIE DIAM_BLT

To be more clear here below a brief explanation of the fields:

- MARK_ID: bolt unique identifier, "Catalogue.csv" input file column
- BLT_NUMB: number of bolts in the flange, "BoltedComponents.csv" input file column
- ITEM_COMP_ID: bolt commodity code, "Catalogue.csv" input file column. The content of this column could be very long:

for this reason, for each commodity code, is created a progressive numeric identifier, which replaces the commodity code in name composition

and which will be stored for future processing

- DIAM_BLT_SERIE: bolt diameters series, "Catalogue.csv input file column"
- DIAM_BLT: bolt diameter, "Catalogue.csv" input file column

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- SPEC_CODE: bolt piping class code, "Catalogue.csv" input file column

Here below are listed the changes to be made to configuration templates.

In order to get the bolts weight in the section LTAB, the user should add the column "BWEI"(in the Catalogue.csv input file the corresponding column is "UNIT_WEIGHT" and contains the components unit weight) in the section "LTAB" in "spec_headers_PM.xml" and "spec_template_PM.xml" configuration files. User must remember to define the alias in the "ColumnAlias" section of the "rule_codelist_PM.xml" configuration file. Notice also that "LTAB" section of the "spec_headers_PM.xml" configuration file, supports only columns with the compiling directives "Source" or "Default". In this case, the column "BWEI" must be filled with the compiling directive "Source".

See also ELE-251.zip attachment, which contains "rule_codelist_PM.xml", "spec_headers_PM.xml", "spec_template_PM.xml" e "LtabScriptTemplate.em" files examples.

Patch Situation 01.400.00.03

Note: ELE-263

In ELENA, the connection between bolts and flanged objects is made via the input files "BoltedComponents.csv"

and "Bolts1.csv". ELENA produces in DTAB elements of LTAB table only the lengths of those bolts which are in the "Catalogue.csv" input file and are linked with flanged components. Bolts and nuts taht are unlinked to their flanged components, are ignored.

A new feature allows the user to include in the DTAB elements of LTAB table also bolts and nuts unlinked to the flanged components. The new feature can be enabled through the "add_unlinked_bolts" optional new parameter defined in the "ltab" section in "Config_PM.xml" configuration file. If the parameter is set to "1", enables the new feature, and when is set to "0", maintains the current behavior. Do not define the new parameter in the "Config_PM.xml" configuration file, is equivalent to set it to "0".

Patch Situation 01.400.00.03