

What's New?

ELENA

<i>List of modifications</i>	<i>From:</i>	01.300.03.00 / 29/08/2013
	<i>To:</i>	01.300.03.00 / 29/08/2013

Module: BO-Bentley OpenPlant

Notes: 2

Note: ELE-134

When downloading the input files, the PipingMaterialsClassData.csv file (necessary for using the BO plugin) would not be downloaded. The bug has been fixed and the file is now correctly inserted into the .zip file containing the current input files. Users can download the .zip file by clicking on the "Download" button of the "Input" panel within the "Builder" page.

Patch Situation 01.300.03.00

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Note: ELE-145

The modification has been done to make the BO module compatible both with AutoPlant and OpenPlant. The changes made for OpenPlant compatibility do not affect AutoPlant functioning, except for the "SetValveOperator" and "ValveOperatorConstant" columns, which implement the operators of valve type.

The "EC_CLASS_NAME" column, already existing among the yellow columns (output columns) of the Templates sheet of the rule_codelist_BO.xml file, shall be mapped with proper contents to generate an output for OpenPlant; otherwise it can be left empty.

The "SetValveOperator" and "ValveOperatorConstant" columns shall be added and compiled among the brown columns (output columns) of the Templates sheet of the rule_codelist_BO.xml file. This modification shall be done both for OpenPlant and for AutoPlant, since it affects the output generation regarding the operators of valve type. If these columns are not added and compiled, there will be no data regarding the valves in output.

In particular, the "SetValveOperator" column can be compiled as follows:

- "M": indicates that ELENA will use the main diameter to search among the diameter range of the "ValveOperators" sheet in the rule_codelist_BO.xml file
- "R": indicates that ELENA will use the reduction diameter to search among the diameter range of the "ValveOperators" sheet in the rule_codelist_BO.xml file
- "C": indicates that ELENA will use the value set as constant in the "ValveOperatorConstant" column, located beside the "SetValveOperator" column

The yellow columns (output columns) "OPERATOR" and "LONG_DESCR" (columns of "OPERATOR" type) shall be added in the Templates sheet of the rule_codelist_BO.xml file.

The "EC_CLASS_NAME" and "TOPWORK_ANGLE" columns shall be added and compiled in the ValveOperators section of the rule_codelist_BO.xml file.

The SpecTables, SpecInfo, TOPWORKS tables are now generated automatically. To achieve this result, the following modifications shall be applied to these mapping files:

- Add mappings to the FieldTypes sections (SpecTableName, SpecTableDesc, DetailName, DetailValue) and ColumnAlias (SpecTableName, SpecTableDesc, DetailValue) of the rule_codelist_BO.xml file
- Add SpecTables, SpecInfo, TOPWORKS sections to the file spec_headers_BO.xml and spec_templates_BO.xml files
- Add the "Templates" compiling command to the "EC_CLASS_NAME" column (already existing) in all sheets of the cata_headers_BO.xml file.

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Module: General

Notes: 2

Note: ELE-138

The performance of the "match" method would get worse according to the quantity of parameters

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contained in the “green” section (input columns).

To avoid the performance deterioration a cache has been added, making the performance definitely better. The more the quantity of the parameters with values, the better the performance.

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Note: ELE-140

Records to be saved into the Berkeley DB have two types of unique keys: "KeyFields" and "KeyFieldsOut". These properties contain the list of fields composing the relevant keys. "KeyFields" is the unique key used for saving records into the Berkeley DB and it is usually composed of properties contained in the input files; the fields contained in "KeyFields" are also used (when required) as clause of "GROUP BY" or "DISTINCT" when input files are read in CSV format.

"KeyFieldsOut" is the key checking for uniqueness in the output workbooks and it is usually composed of properties contained in the output records (described in the cata_headers.xml e cata_template.xml configuration files).

With this type of configuration, when the mapping value of a property contained in "KeyFieldsOut" and not in "KeyFields" was changed, after the first revision the output records would get appended in the output workbook with the “M” modification flag, because the modified field was not among those fields composing the unique key for record saving.

This meant that in some cases the SP3D bulkloader could not load the modified records; the other CADs do not have usability problems, but there is only a change of how the modification indicators are assigned in the output workbooks.

The new implementation changes the functioning as follows:

"KeyFields" is used only as clause of "GROUP BY" or "DISTINCT" during the input files reading and not as unique key for record saving in the Berkeley DB any more.

"KeyFieldsOut" is used both for checking the uniqueness in output workbooks and as unique key for the records saving in the Berkeley DB.

Even though the unique key for saving has changed, the implementation has been done so that, once ELENA has been updated, all records set in the output workbooks do not change into “Delete” mode to be appended in “Append” mode.

For the SP3D plugin the "KeyFieldsOut" has been set the same as "KeyFields", except for the "PipingCommodityFilter" section where "KeyFields" contains the following fields ["PROJECT_CODE", "SPEC_CODE", "ShortCode", "OptionCode", "DIAM", "DIAM_R", "DIAM_SERIE", "MultisizeOption", "MaximumTemperature", "MinimumTemperature", "SelectionBasis"] and "KeyFieldsOut" has been set with the following fields ["PROJECT_CODE", "SpecName", "ShortCode", "OptionCode", "FirstSizeFrom", "FirstSizeUnits", "SecondSizeFrom", "SecondSizeUnits", "MultisizeOption", "MaximumTemperature", "MinimumTemperature", "SelectionBasis"].

If the structure of the "KeyFields" primary key for the "PipingCommodityFilter" section has been modified, it will not work as expected so it will be necessary to convert it by using the output fields, which are defined in the spec_headers_SP.xml configuration file, setting the "KeyFieldsOut" property in the "PROPERTY_NAME" column of the rule_records_SP.xml configuration file.

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Module: SP-Intergraph SP3D**Notes:** 4**Note:** ELE-132

This modification applies to the SP module only. In order to make it effective, the "use_string_thickness" parameter shall be inserted into the "conv" section of the Config_SP.xml configuration file of the Builder. If this value is not found by ELENA in the Ini configuration, the application ends the execution. The value to be assigned to the parameter is 0 if the string format is not used to indicate the thickness values or 1 if the string format is used.

Patch Situation 01.300.03.00**Note:** ELE-135

This modification applies to the SP module only. A problem regarding the naming of columns in the cata_headers_SP.xml/cata_template_SP.xml files has been solved. In the 01.300.00.00 version of the SP Builder, if the diameter name in the cata_headers_SP.xml/cata_template_SP.xml files is Npd[1]:Primary and not Npd[1] the records of the "ThicknessDataRule" section are not generated. In order to make this modification effective, the "head_column_name_separator" parameter shall be inserted into the "xls" section of the Builder configuration file. If this value is not found by ELENA in the Config_SP.xml file, the application ends the execution and alerts about the value absence. The value of this parameter shall be set with the value of the separator used in the columns of the template header; in the aforementioned case, the value to be set for the "head_column_name_separator" parameter is ":".

Patch Situation 01.300.03.00**Note:** ELE-137

This modification applies to the SP3D module only. The new "SP_Error_NotNumericalThickness" warning has been added within the Builder processing and it checks that the value inserted into the THK_NUM, THK_R_NUM e THK_3_NUM columns of the "Catalogue.csv" file is a number. Previously, the "SP_Error_MissingThickness" warning was wrongly used. To avoid this warning, make sure that the values in these columns are numbers.

Patch Situation 01.300.03.00**Note:** ELE-142

This modification applies to the SP3D module only. The "SP_Warning_DuplicateFlangedConnection" warning has been added within the Builder processing: its function is checking for any duplicates in the BoltSelectionFilter and GasketSelectionFilter sections. To avoid this warning, make sure that a different mapping of the EndStandard property is done.

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