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Module: BO-Bentley OpenPlant **Notes:** 1

Note: ELE-96

The parameters listed below, that are in the Builder configuration file Config_BO.xml, are obsolete. The user can remove them from the configuration file. If not removed, they will be ignored.

1 - "cata_script_template_pathname", section "templates"
2 - "cata_db_path", section "output"
3 - "spec_db_path", section "output"
4 - "use_zero_for_null_dimdata", section "dimdata"
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Module: DC-Dimensional Catalogue **Notes:** 6

Note: ELE-69

In the dimensional tables, the sheet containing dimensional data was named "SP3D", even if the dimensional catalogue wasn't used for Intergraph Smart Plant 3D.
For this reason a feature has been added allowing user to name "DATA" the sheet containing dimensional data; however, the compatibility with existing dimensional tables is kept.

ELENA keeps working also with the "SP3D" sheet, but the following warnings are written in the log:
• DC_Warning_TheSheetNameFoundInTheDatabaseIsDeprecated, if the dimensional tables are found in catalogue database
• DC_Warning_TheSheetNameIsDeprecated, if the dimensional tables are in XML format.

In order to convert the sheet name from "SP3D" to "DATA", proceed as follows:
1- in the dimscata_tmpl.xml configuration file change the second sheet name from "SP3D" to "DATA"
2- make sure that the catalogue database is updated to the latest version of the dimensional tables contained in the working directory by executing a set command
3- delete all the dimensional tables in the working directory and execute a get command
4- delete the database file and execute a new set command
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Note: ELE-107

Upon uploading a zip file not complying with ELENA requirements, a positive feedback was however given to the user (upload completed successfully).
A specific message now alerts user that the zip file is not correctly structured (in particular, it reminds not to include subfolders, but to zip files directly).
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Note: ELE-194

During the dimensional data loading in the Builder process, an unmanaged exception appeared.
The following warning messages have been added in order to manage properly the ecxception and give information to the user to correct the wrong mappings:
- DC_Error_DuplicateRangeInTheDimensionalCatalogue
- DC_Error_DuplicateKeyInTheDimensionalCatalogue

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Note: ELE-197

Some features of the Dimensional Catalogue have been revised:
1 - new checks have been added in case current configurations are modified and data have been already inserted
2 - some warnings have been revised, in order to provide an easier interpretation to the user

Warnings relating to point 1 are listed below:
- DC_Error_ColumnsNotAllowedInTheDimensionalSizes exception added, to ensure that in the "DimensionalSizes" there are only allowed columns ["DIAM", "DIAM_R", "DIAM_3", "DIAM_4"]
- DC_Error_WrongColumnsInTheDimensionalTable exception added, to verify if there are columns not required by the configuration, in the dimensional table
- DC_Error_MissingKeyColumnInTheDimensionalTable exception added, to verify if the key fields defined in the configuration are also defined in the dimensional table
- DC_Notify_TransactionRolledBack message added, to notify that the transaction was closed with a roll back and the database has been restored with the content preceding the transaction
- DC_Notify_TransactionCommitted message added, to notify that the transaction was closed properly with a commit of all updated data
- DC_Error_MissingSheetInTheDimensionalTable exception added, to report the lack of a required sheet within the dimensional table
- DC_Error_MissingDimensionalSizeSeriesConfig exception added, to report the lack of a "DImensionalSizeSerie", which is mapped in the file "dimscata_rule.xml"
- DC_Error_MissingDimensionalFieldSeriesConfig exception added, to report the lack of a "DImensionalFieldSerie", which is mapped in the file "dimscata_rule.xml"
- DC_Error_MissingDiameterColumnsInTheRecord exception added, to report that the diameters columns are missing within the record
- DC_Warning_DiameterColumnsInTheRecordAreEmpty warning added, to report that, within the record, the diameters columns have no content (notice that this exception will generate new exceptions that were not handled before)
-DC_Error_DuplicateDimensionalSerieAliasName exception added, to report that there are aliases duplicates for the same "DimensionalSerie"
- DC_Error_MissingFieldsInTheSourceDimensionalSerie exception added, to report that in the metadata there are missing fields defined in the file DimSeries.csv
- DC_Error_MissingFieldsInTheSourceDimensionalSerie exception added, to report that in the file DimSeries.csv there are missing fields defined in the metadata
- DC_Error_MissingSourceDimensionalSerie exception added, to report that a dimensional serie is missing in the metadata
- DC_Error_MissingDimensionalColumnInTheSourceRecord exception added, to report the lack of a column in the dimensional input record
- DC_Warning_EmptyDimensionalColumnInTheSourceRecord warning added, to report that the dimensional column in the input record isn't filled
- DC_Warning_MissingSizeValueInTheDimensionalTable warning added, to report the absence of the value for a size within the dimensional table
- DC_Warning_TheSheetNameIsDeprecated warning added, to report that a sheet name in the dimensional table is deprecated
- DC_Warning_TheSheetNameFoundInTheDatabaseIsDeprecated warning added, to report that a sheet name in the dimensional database is deprecated

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- DC_Warning_TheFilenameContainsInvalidChars warning added, to report that an XML table name contains unallowed characters
- DC_Notify_DimensionalTablesWithErrors messagge added, to report that there are errors in the dimensional table
- DC_Notify_DimensionalTablesWithWarnings messagge added, to indicate that the dimensional table isn't completely compiled in a proper way

Warnings relating to point 2 are listed below:
- Added the column name information to the existing exception DC_Error_MissingDimensionalSizeSeries, to clarify the message
- Changed the exception name from DC_Error_MissingKeyColumn to DC_Error_MissingManadatoryKeyColumn
- Renamed the exception DC_Error_MissingDimensionalSizeSeriesColumns in DC_Error_MissingColumnsInTheDimensionalTable, which indicates the columns absence in the dimensional table
- Renamed the exception DC_Error_DuplicateAliasMetadata in DC_Error_DuplicateAliasName, which indicates the presence of duplicates in general aliases
- Renamed the exception DC_Error_MissingDimensionalSizeSeries in DC_Error_MissingDimensionalSizeSerieInTheDimensionalTable, which reports the lack of a SizeSerie within the dimensional table
- Renamed the exception DC_Error_MissingSize in DC_Error_MissingSizeInTheDimensionalTable, which reports the lack of a size within the dimensional table

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Note: ELE-209

A new feature allows dimensional data import from the input file Catalogue.csv into ELENA dimensional catalog.
This new feature allows to migrate the dimensional catalog from the material management system (e.g. PUMA) to ELENA dimensional catalog.
To enable this new feature the user must create a new section (optional), called "cata_reverse", within the file Config_XX.xml (excluding the plugin PU, which does not require the use of a dimensional catalog). Within the new section the user must define two parameters (optional) "import_dimensions" and "ignore_empty_dimensions_warning".
The parameter "import_dimensions", if set to 1, enables dimensional data import. The parameter "ignore_empty_dimensions_warning", if set to 1, makes ELENA omit in the log file any error messages, due to not filled dimensional data, required by the configuration file "dimscata_rule.xml" mapping. This is due to the fact that, some CAD, for example, Bentley OpenPlant, having very generic dimensional series, which provide a high number of parameters, allow the dimensional fields (which must in any case be present in the dimensional series definition) to be compiled or not according to the component type. This would generate not significant warnings.

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Note: ELE-210

The new column, "COLUMN_ALIAS" (optional), is handled in dimscata_rule.xml file within the "DimensionalFieldSeries" and "DimensionalSizeSeries" sections. It is now possible to assign different names when a CAD uses the same parameter name with different meanings (e.g. Intergraph PDS) while having a clear description of the parameter and its purpose on ELENA dimensional catalogue.
The "COLUMN_ALIAS" column was already in the "DimensionalFields" and "DimensionalSizes" sections: its presence and its filling-in become optional.

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Module: General   **Notes:** 1

Note: ELE-133

The text of the warning COM_Error_MissingSectionBoundAtTheKey was improved. The warning reports the absence of a section, which is a parameter in the Config_XX.xml file Index sheet, which contains the Builder configuration parameters.

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Note: ELE-152

Date and hour have been added to every message in application and authentication servers log files. This information makes it easier for the system administrator to check operations done by servers.

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Note: ELE-159

The exceptions COM_Error_MissingFieldInTheSourceRecordType and COM_Error_MissingColumnInTheRecord Were replaced with the more clear COM_Error_MissingFieldInTheSourceDataRecord exception.

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Note: ELE-172

For all the plugins, in order to get more space on disk a new feature has been added allowing user to clear the files generated during the execution of the Builder:
"cata-<PRJ_CODE>_yyyy-mM-dd_hh-mm-ss.xml",
"spec-<PRJ_CODE>_yyyy-mM-dd_hh-mm-ss.xml","log-<PRJ_CODE>_yyyy-mM-dd_hh-mm-ss.txt",
"log-<PRJ_CODE>_yyyy-mM-dd_hh-mm-ss.xml" and script files, if any, after the output zip creation.
To enable the new feature, user must insert the new parameter "delete_output_files_after_zip" (optional) in the file Config_XX.xml, in the "output" section. If the parameter is set to 0, the files are not deleted; if set to 1, the auxiliary files will be deleted and only the output zip file
"<PluginTag>-<PRJ_CODE>_yyyy-MM-dd_hh-mm-ss.zip" will be saved.

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Note: ELE-185

For all the plugins, it has been added the possibility for the user to insert new columns (amongst those admitted) in the configuration file mapping sheet rule_codelist.xml..
The columns permitted for the mappings are:
- "PROJECT_CODE"
- "OBJ_CODE"
- "ELBOW_DEG_CODE"
- "ECCENTRICITY_CODE"
- "END_CODE"
- "STD_CODE"
- "RAT_CODE"
- "FIN_CODE"
- "MAT_CODE"
- "CAR_CODE"
- "TAG_CODE"
- "EQP_GROUP_CODE"
- "EQP_CODE"

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Note: ELE-187

The column "SHEET_NAME" in the Catalogue.csv input file, is no longer used by the Builder process. It can be removed from the file Catalogue.csv. If not removed, it is ignored.

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Note: ELE-188

For all the plugins, it has been implemented a formulas interpreter. These formulas are enabled both on input and output files. In the attached document ELE-188.zip the implementation is described in detail.

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Note: ELE-190

For all the plugins, the number of warnings produced during the Builder process was reduced. In previous versions, the same warning was written in the log file for all contexts, in which it occurred.
In order to get a more compact log file, the same warning is reported only once, even if it occurs in more contexts during the Builder process.

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Note: ELE-193

When the Builder process was executed in standalone mode form (command line, no web interface), the process ended giving the end message twice ("The command has been executed in ... sec"). The messagge is now given only once.

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Note: ELE-201

Licenses check is done also on Enterprise Server module, through a new identifier code on hardware key. When changing the installation from a previous version to the current one, the system administrator has to update the hardware key content following the standard procedure, explained on Computer Line support portal.

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Note: ELE-203

User has now the possibility to translate/map thickness input values (THK, THK_R, THK_3, THK_NUM, THK_R_NUM, THK_3_NUM columns in Catalogue.csv file).
For more details see ELE-188.

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Note: ELE-208

For all plugins, the following new exceptions were added to the Builder process:
  - COM_Error_EmptyParameterInTheConfigFile, reports that the user entered an empty parameter within the configuration file
  - COM_Error_MissingFieldInTheRecordToBeCloned, reports that a field is missing within the record that the user wants to clone
- COM_Error_EmptyColumnInTheSourceFile, reports an empty column in the input file DimSeries.csv

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Note: ELE-214

When Builder stopped working because of an error (for example, duplicates in the gaskets section), the .zip file with the result was not saved; the file was displayed only when Builder finished the elaboration. A modification has been done allowing user to have the .zip file also in the list of the historical outputs in the Builder panel of the Builder page.

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Note: ELE-215

During the Upload and Restore operations of the configuration and input files, some misleading warning messages would be displayed: RS_Error_IOErrorDuringUpdateTheFiles and RS_Error_IOErrorDuringRestoreTheFiles.
These messages have been replaced with RS_Error_FilesNotRequiredInTheCurrentConfiguration, representing a different case from the specific IOError.

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Note: ELE-220

In case of option 'add_uom_suffix' section 'conv' file Config_XX.xml enabled, ELENA automatically adds the value set for the unit of measure; for example, the value '0.5' in input becomes '0.5in' in output. In cases of non-numerical values, but in alphanumeric inputs (eg 90deg), ELENA now checks the type of the given input and doesn't concatenate the unit of measuere to the output value.

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Module: NX-Unigraphics NX   **Notes:** 1

Note: ELE-211

The final version of Unigraphics NX plugin is available.

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Module: SP-Intergraph SP3D   **Notes:** 4

Note: ELE-186

In order to avoid the warning SP_Error_DuplicateKeyInTheImpliedContainer, which in some cases was reported improperly, it has been inserted a configuration column (optional) on rule_codelist_SP.xml "Templates" sheet, called "IS_IMPLIED". If the column is set to 'X', it indicates that the corresponding component can be an implied component.
If the column is not set to 'X', the component won't be used as an implied component.
If the column is not inserted, none of the components can be used as implied.

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Note: ELE-192

The integrity check for GasketOptions and BoltOptions has been corrected.
In the previous version, for gaskets and bolts OptionCodes it was verified the presence of the code within the CommodityOptions section of the file AllCodelist.xml. Gaskets and bolts OptionCode integrity data check is currently done on the GasketOptions section for gaskets and on the BoltOptions section for bolts in the file AllCodelist.xml.

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Note: ELE-195

Changed the content for column IndustryCommodityCode in sections BoltPartData and GasketPartData.
In previous versions the content of the column IndustryCommodityCode was always filled in with the value of the input file Catalogue.csv column MARK_ID. It has been added the possibility to change the value in the column with a mapping.
The example below shows how to set the column IndustryCommodityCode with PART_ID. The mapping required into the sheet ColumnAlias in the file rule_codelist_SP.xml is the following:
HeadSheetName; ColumnAlias; ColumnName
BoltPartData; PART_ID; MARK_ID
GasketPartData; PART_ID; MARK_ID
GasketSelectionFilter; GASK_PART_ID; GASK_MARK_ID
BoltSelectionFilter; BOLT_PART_ID; BOLT_MARK_ID

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Note: ELE-198

Fixed error in creating content of the sheets PipeTakedownParts and PermissibleTaps.
In the previous versions, even if there were piping classes filters, ELENA always generated records for all the piping classes.
The error was due to an incorrect setting of a column name, which was part of the primary key ("SPE_CODE" instead of "SPEC_CODE").
The user can notice the same setting error in the standard file released with the application, which enables the change of the primary keys structure, rule_records_SP.xml.
If ELENA configuration works with this file, the user must verify and correct the value from "SPE_CODE" to "SPEC_CODE".

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