

# What's New?

## ELENA

<i>List of modifications</i>	<i>From:</i>	01.400.02.00 / 03/12/2017
	<i>To:</i>	01.400.02.00 / 03/12/2017

**Module:** CX-Intergraph CadWorx

**Notes:** 1

**Note:** ELE-334

The new **CX** plugin for **Intergraph CadWorx** has been released.

The new plugin is compatible with **Intergraph CadWorx** 2015 version and later versions.

**Patch Situation**      01.400.02.00

**Module:** General

**Notes:** 13

**Note:** ELE-175

The Unicode support has been implemented.

Unicode characters for all input and output files are now supported.

Starting from this version, the application works natively with Unicode characters in all its parts.

The following parameters have been added into the *Config.xml* configuration file in order to specify which encoding must be used for files:

1. **csv.input\_csv\_encoding** for CSV input files
2. **rule\_expr.expr\_data\_files\_encoding** for additional files used by formulas
3. **template.output\_encoding** for files generated by output scripts.

For backward compatibility with previous Elena versions, these parameters are optional and, if not set, the **windows-1252** encoding (i.e. **latin-1** of Windows) will be used.

If supported by external applications, it is recommended to choose a Unicode encoding, for example **UTF-8**, **UTF-8 with BOM** (identified as **UTF-8-SIG**), **UTF-16**, **UTF-16LE**.

Supported encodings are listed at this link:

<https://docs.python.org/2/library/codecs.html#standard-encodings>

*Scripts* generating output files must be modified so that they can work correctly with Unicode texts (except for **SP** module of **Intergraph SP3D** since it does not use any *script*):

- modify all **\*.em** file using a text editor and replace:
  - "str(" with "unicode("
- it is important to search the exact text indicated in quotation marks (open bracket included) and to select the "only whole words" and "upper/lower case" search options to avoid the wrong replacement of similar words.

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**Note:** ELE-289

A control has been added: **COM\_Notify\_ExcludedLogMessages** and **COM\_Notify\_OmittedLogMessages** notifications will not be written into the log file, unless exclusions have been set.

In previous versions, **COM\_Notify\_ExcludedLogMessages** and **COM\_Notify\_OmittedLogMessages** warnings would be written into the log file even though no exclusion was set into the configuration file. In particular, in previous versions, if the **LogMessagesExclusion** sheet was in the *rule\_project.xml* file the two warnings would be produced with no content.

**Patch Situation**      01.400.02.00

**Note:** ELE-304

The **ROUND** function had been added to the formula interpreter.

The syntax is *ACTION = ROUND, SOURCE = "number of float type to be rounded" : "number of digits after the comma to be kept after rounding"*.

**Patch Situation**      01.400.02.00

**Note:** ELE-305

The wrong setting of modification flag (M) upon using the formula interpreter to modify data in the output records has been corrected.

In previous versions, the setting of the modification flag would take place before macros were executed by the formula interpreter, therefore, if a macro modified the record content, this content would not show any modification (flag set on M) once inserted into the output workbook. The modification would be shown in the next processing even though no data had actually been modified.

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**Note:** ELE-308

Dimensional tables duplicated because of the discordant **KEY** sheet and table name.

When Builder is running it accesses the dimensional catalogue to associate dimensions with components; when it searches the dimensional tables it starts from the base tables (with the less defined key). If the table exists but only some diameters are missing in it, the table gets exported into the **CataNotFound** folder. Missing diameters (for which dimensional data must be filled in) are inserted into the **DATA** section; the project code is added to the table name and data in the **KEY** section are left unchanged.

The modification of the table name with the addition of the project code might confuse users when, having set the dimensional data of the missing diameters, they run the upload of the table through the web interface. Since the name of the table just uploaded is different from the original name, the system adds it to the tables already existing. However, if data of the **KEY** section of this table are not modified, upon executing the *set* command to load/update the dimensional catalogue an error of duplicated table is generated because the content of the **KEY** sheet is exactly the same as the content of the original table.

For example, if the dimensional catalogue has the table MCATA\_PDMS\_XVBA\_XVBC\_A6D\_FL\_0150\_RF1\_\$\$\$.xml and this table is exported because during dimensional data association the **0.5"**, **0.75"**, **1"** e **1.5"** diameters are missing, the name of the exported table will be MCATA\_PDMS\_XVBA\_XVBC\_A6D\_FL\_0150\_RF1\_\$\$\_3039\_VB511PRHC1.xml. In this case the original name of the table has been changed by adding the **3039** project code and the **VB511PRHC1** data sheet code, but data set in the **KEY** section have been left unchanged.

At the moment, in this case, if user needs this table always to be at general level and not be discriminated by other key values (specifically, project code and data sheet code), it is recommended to download the table MCATA\_PDMS\_XVBA\_XVBC\_A6D\_FL\_0150\_RF1\_\$\$\$.xml by using the web interface and add the missing diameters to it together with the relevant dimensions, then reload the table into the dimensional catalogue ignoring the table downloaded from the **CataNotFound** folder. Instead, if it is necessary to discriminate the table from the main table by using other key parameters (for example, the parameters added to the table name), it is recommended to use the table downloaded from the **CataNotFound** folder and, besides filling in the dimensions of the missing diameters, it is necessary to set the project code and the data sheet code in the **KEY** section.

Since the process just described might be confusing because of its complexity, the export of the dimensional table described in the example above will always be generated with its standard name, therefore neither the project code nor other attribute will be inserted into the original table.

**Patch Situation**      01.400.02.00

**Note:** ELE-314

The **history.config\_history\_path** and **history.source\_history\_path** parameters of the *Config.xml* configuration file are now mandatory.

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**Note:** ELE-317

Bug fixed. Under some conditions, the ZIP file with the execution log of the **Set** and **Get** commands of the *Catalogue* or of the **Difference** command of the *Builder* would contain only a XML file instead of a XML file and a TXT file.

**Patch Situation**      01.400.02.00

**Note:** ELE-320

Bug fixed. In some cases, Warnings having descriptions with a semicolon character (;) in it would not get written correctly in the log file.

**Patch Situation**      01.400.02.00

**Note:** ELE-325

The **dimscata.enable\_dimscata\_link** parameter works correctly now.

In previous versions, in case the use of the dimensional catalogue was enabled (the **dimscata.enable\_dimscata\_link** parameter of the *Config.xml* file was set on **1**) and the **dimscata.skip\_not\_found** parameter of the *ConfigDims.xml* configuration file was set on **1**, the output records of the catalogue with which dimensional data could not be associated because they were missing, should have not been appended to Excel output files, but they would be appended nonetheless.

**Patch Situation**      01.400.02.00

**Note:** ELE-326

A new control has been added over the order of the not-dimensional columns of the **Header** and the **Template** sheets.

The new exception **COM\_Error\_ColumnsWithDifferentOrder** has been added and it checks for those cases where columns related to the same sheet have a different order in the couples of configuration files *cata\_header.xml* and *cata\_template.xml* or *spec\_header.xml* and *spec\_template.xml*.

In previous versions, if in the same sheet the columns of not-dimensional data had a different order within the *Header* and *Template* files no warning would be given and therefore it was very difficult to find the problem.

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**Note:** ELE-331

In the *Config.xml* configuration file, the parameter for the configuration of the pathname of formula additional files has been renamed.

*From:* **input.expressions\_input\_files\_path**

*To:* **rule\_expr.expr\_data\_files\_path**

**Patch Situation**      01.400.02.00

**Note:** ELE-333

It is now possible to define variables beginning with "\_" or with "\$" used in the MATH function of the formula interpreter.

In previous versions, in case variables beginning with "\_" or with "\$" were used in the MATH function of the formula interpreter an exception would be reported and the Builder would be stopped.

**Patch Situation**      01.400.02.00

**Note:** ELE-335

Builder processing performance has been improved.

The time needed for processing a project of medium dimensions has now decreased of 15%-20%.

**Patch Situation**      01.400.02.00

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**Module:** SP-Intergraph SP3D

**Notes:** 3

**Note:** ELE-290

The **MaximumTemperature** column is now mandatory in the **MaximumTemperature** mapping sheet of the *rule\_project.xml* configuration file.

**Patch Situation**      01.400.02.00

**Note:** ELE-299

A bug causing some missing thicknesses in the **PlainPipingGenericData** sheet has been fixed.

Currently the **PlainPipingGenericData** sheet is populated by thicknesses of all components except for flanged components, wafer, bolts and gaskets. In some cases requiring thicknesses, such as **WN Flange**, thicknesses are not inserted into the **PlainPipingGenericData** sheet.

**Patch Situation**      01.400.02.00

**Note:** ELE-339

A separator character in the column name is not considered as such any more, if it is repeated.

The behaviour of the **xls.head\_column\_name\_separator** parameter has been modified so that also the column names can be set with the "<CustomInterface>::<DimensionalParameterName>" format (for example: "IJUACommonValve::OperatorHeight").

**Patch Situation**      01.400.02.00