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Article - CS169670

How to add / change text references in drawings used in Creo Elements/Direct Drafting

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Applies To

- Creo Elements/Direct WorkManager / DDM 17.00 to 18.10
- Creo Elements/Direct Drafting 18.10
- Creo Elements/Direct Modeling 18.10 to 19.00

Description

- How to add / change text references in drawings used in Creo Elements/Direct Drafting

Resolution

Text References used in Creo Elements/Direct Modeling Annotation and Creo Elements/Direct Drafting

There are 3 areas that are using text references:

- Titleblock-Management
- **BOM** table on a drawing
- **BOM** Flags on a drawing

Text references are text elements in a drawing that contain special **INFO** flags. When a text does contain such an **INFO** text, the displayed text (place holder) can be replaced by a value out of an logical table (ltab)**.**

General design of such an **INFO** string:

```
TR:<ltab name>:<attribute name>:<format parameter>
```

Column	Description of Column
TR	General mark for an text reference INFO text
ltab name	Name of the ltab (see Ltab and Attribute Name)
attribute name	Name of the attribute (see ltab and attribute name)
format parameter	Parameters that define the format of the displayed text (see Format Parameters)

Example of an **INFO** string:

TR:tb:NAME:0:0:1:-102:1:0

Ltab and Attribute name

The logical table (ltab) contains at least 2 columns. The first column contains the Attributes of the database, the others contain values for these attributes.

Attribute	Value
NAME	Testdocument
VERSION	1
SHEET	1
...	...
...	...

Format Parameters

There are several format parameters, they are always used in the same order:

<Column><Characters><Lines><decimal place><word wrapping><case sensitiveness>

Format Parameter	Description	command	Values
Column	Column that should be used for substitution		0 -> 1. column 1 -> 2.column n -> (n+1). column
Characters	Number of Characters that shall be displayed	TR_CHANGE_WIDTH TR_SET_WIDTH	0 -> all characters 1 -> 1 character n -> n characters
Lines	Number of Lines that shall be displayed	TR_CHANGE_LINES TR_SET_LINES	0 -> no line 1 -> 1 line n -> n lines
decimal place	Number of decimal places that shall be displayed		-100 no decimal places -102 for 2 decimal places -10n for n decimal places
word wrapping	set word wrapping on/off	TR_CHANGE_WORD_WRAP TR_SET_WORD_WRAP	0 -> OFF 1 -> ON

case sensitiveness	use		1 -> upper case 0 -> mixed (upper and lower case) -1 -> lower case

TR_ commands

The command **TR_UPDATE** scans all rows in the ltab <ltab name> and searches for text elements with TR_ Infos with the according attribute name <attribute name> (first column of the ltab) and substitutes the displayed text with the value of the selected column (format parameter <column>).

The format parameters <format parameter> define the behavior for the substitution.

The command TR_UPDATE has an impact on the complete drawing, thus it works global and is independent from the part structure.

In Creo Elements/Direct Drafting there's a set of commands, that start with **TR_**.

These commands

- make it possible to work with text references,
- are contained and documented in Creo Elements/Direct Drafting
- are not contained in desktop and Creo Elements/Direct DesignDataManagement

The set of **TR_** -commands has been designed for substitution of placeholders in the title-block with the effective information of the current drawing.

Within desktop and Creo Elements/Direct DesignDataManagement this functionality is furthermore used for the creation of **BOM** flags and the dynamic output of **BOM** information on a drawing.

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