

# New Title Block Editor

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## Transition between old and new title block

# Why a new Title Block Editor?

New title block for CERN drawings.

Provide new functionalities according with the new concept.

The screenshot shows the 'CartWeb' application interface. At the top, there's a navigation bar with 'Main Page', 'Help', and 'Printable Version'. The user is identified as 'MGARCIAC'. Below this, there's a table with columns: QUANTITY, DESCRIPTION, POS, MATIERE, OBSERVATIONS, and REF.CERN. The first row shows a quantity of 1 and a description 'Item Designation EN'. Below the table, there's a section for 'ENS./ASS.' and 'S.ENS./S.ASS.' with fields for 'Echelle' (1:1), 'DES/ORA' (CONTROLLED), 'M. GARCIA CARNERO', and '2018-03-16'. There are also fields for 'RELEASED', 'APPROVED', and 'REPLACE / REPLACES'. At the bottom, there's a section for 'QAC' and 'SIZE' (0). The interface includes 'EDIT' buttons and a status bar with 'ADVANCED', 'EXIT & SAVE', and 'CANCEL' buttons.

The screenshot shows the 'CS Title Block Editor' interface. It has tabs for 'General Data', 'Bill of Materials', and 'EDMS Specifications'. The 'General Data' tab is active, showing fields for 'Format, Discipline etc...' (Format: A0, Scale: 1:1, Discipline: Mechanical, Drawing type: Detailed), 'Basic Titleblock Data' (Designation: Item Designation EN, Drawing Information: Definition 2D), 'CDD Information' (System, Equipment Code, CDD Number, Modif. reason, Modif. zone), 'Tolerance' (ISO 2768, ISO 1302, ISO 13715), 'Material Specifications' (Line 1, Line 2, Material, Initial State, Final State), and 'Mass' (Mass (g)). The interface includes 'Get New', 'Get Existing', and 'Clear' buttons, as well as 'Cancel', 'Preview in Catia', and 'Generate and Save' buttons.

# New Title Block Editor in detail

The screenshot shows the 'CS Title Block Editor' dialog box with the 'General Data' tab selected. The dialog is divided into several sections: 'Format, Discipline etc...', 'Basic Titleblock Data', 'CDD Information', 'Standards', 'Mass', 'Tolerance', and 'Material Specifications'. Arrows point to specific fields: a grey arrow points to the 'Format' and 'Scale' fields; another grey arrow points to the 'Designation' field; a black arrow points to the 'System' field; a grey arrow points to the 'Mass (g)' field; and a black arrow points to the 'Material' field in the 'Material Specifications' section. The 'Tolerance' section is checked and shows options for ISO 2768, ISO 1302, and ISO 13715. The 'Material Specifications' section has two columns, 'Line 1' and 'Line 2', for 'Material', 'Initial State', and 'Final State'. At the bottom, there are 'Cancel', 'Preview In Catia', and 'Generate and Save' buttons.

## General Information:

Information mapped from SmarTeam.

Any modification on them has to be done in CATIA or SmarTeam

- Format
- Scale
- Designation
- Drawing Definition
- Mass
- BOM List
- Material

## Optional Blocks:

Information added by the user in the Title Block Editor.

- Standards
- Material Specifications
- Tolerances
- EDMS Specifications
- CDD Information

# General Information Fields

Basic Titleblock Data	
Designation:	Item Designation EN
Drawing Information:	Definition 2D

## Titles:

Designation: ITEM "Designation EN".

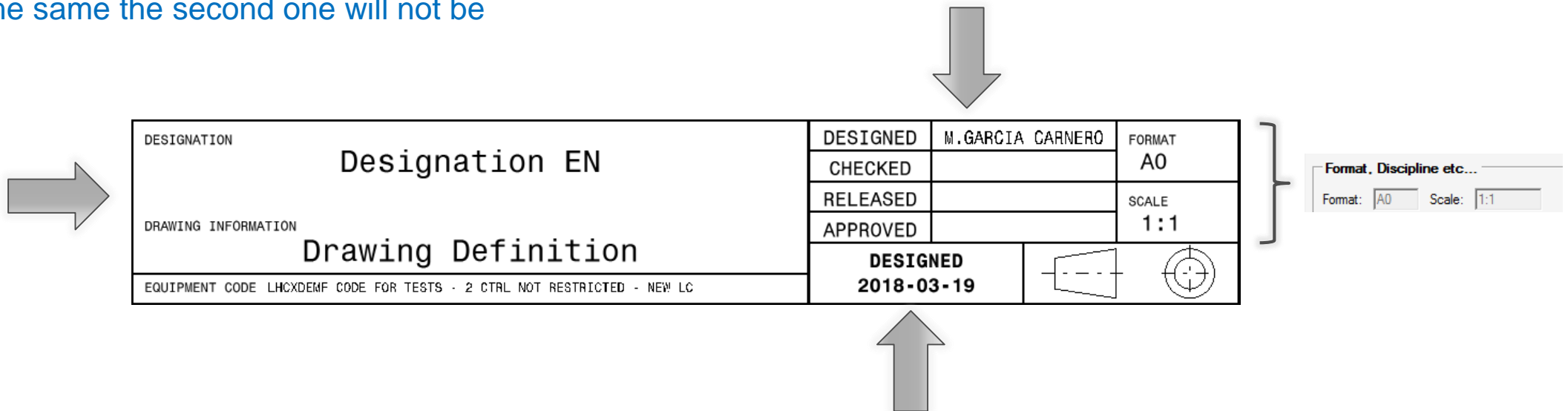
Drawing Information: "Drawing Definition".

If they are the same the second one will not be printed !!!

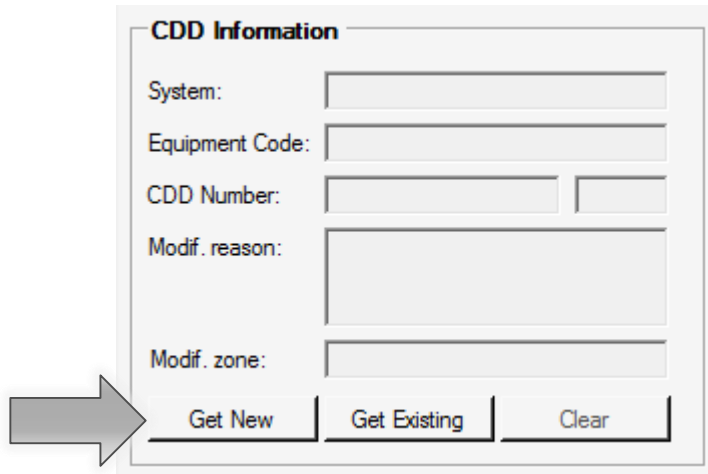
## Designed:

The name of the person that runs the Title Block Editor

The Date when is run the Title Block Editor



# CDD Information



**CDD Information**

System:

Equipment Code:

CDD Number:

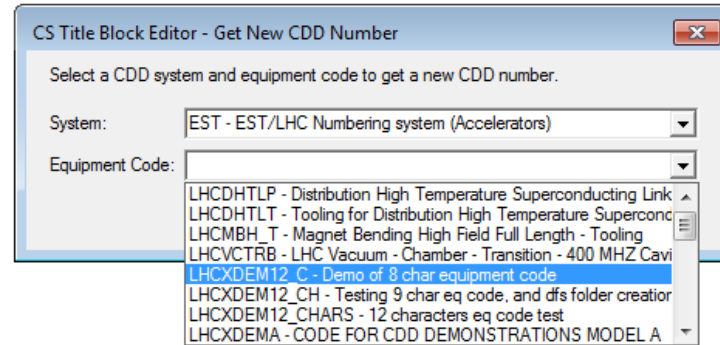
Modif. reason:

Modif. zone:

## Get New CDD number:

Chose the System and the equipment code among the available ones  
Memorize the last used.

**Note:** If the drawing is master and the ITEM has already a CDD number this number will be automatically proposed



CS Title Block Editor - Get New CDD Number

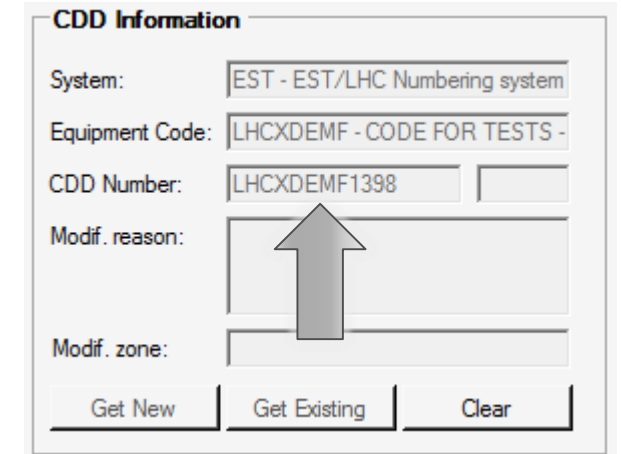
Select a CDD system and equipment code to get a new CDD number.

System:

Equipment Code:

## Subject search:

By scrolling or by typing the first letters of the subject



**CDD Information**

System:

Equipment Code:


CDD Number:

Modif. reason:

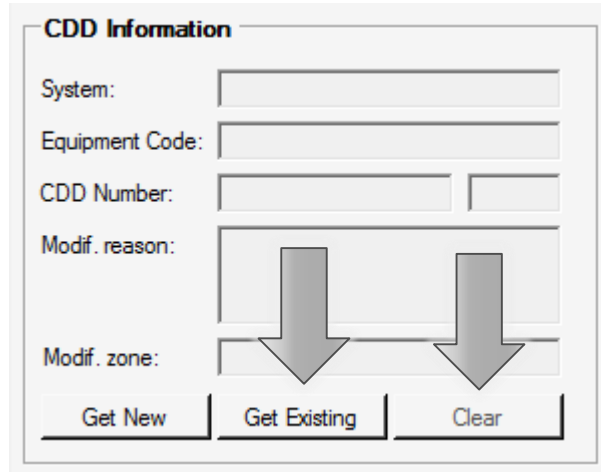
Modif. zone:

## CDD Information:

A new CDD number is taken  
For information is showed the system and the Equipment Code

EQUIPMENT CODE LHCXDEMF CODE FOR TESTS - 2 CTRL NOT RESTRICTED - NEW LC		
	REFERENCES <b>LHCXDEMF1398</b>	Doc No: ST0863641_03 INDEX

# CDD Information



**CDD Information**

System:

Equipment Code:

CDD Number:

Modif. reason:

Modif. zone:

## Get Existing:

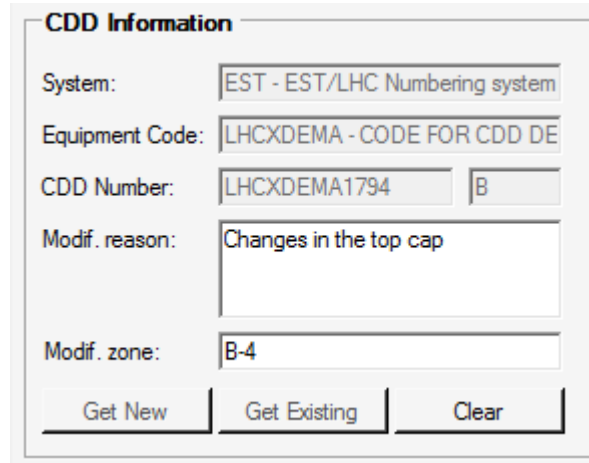
Allows to introduce a CDD number that already exists

**Note:** Prerequisites are that the number is not used already in SmarTeam and the number is editable in CDD.

## Clear:

Erases the CDD number from the drawing.

**Note:** Only in the drawing version that is in work



**CDD Information**

System:

Equipment Code:

CDD Number:

Modif. reason:

Modif. zone:

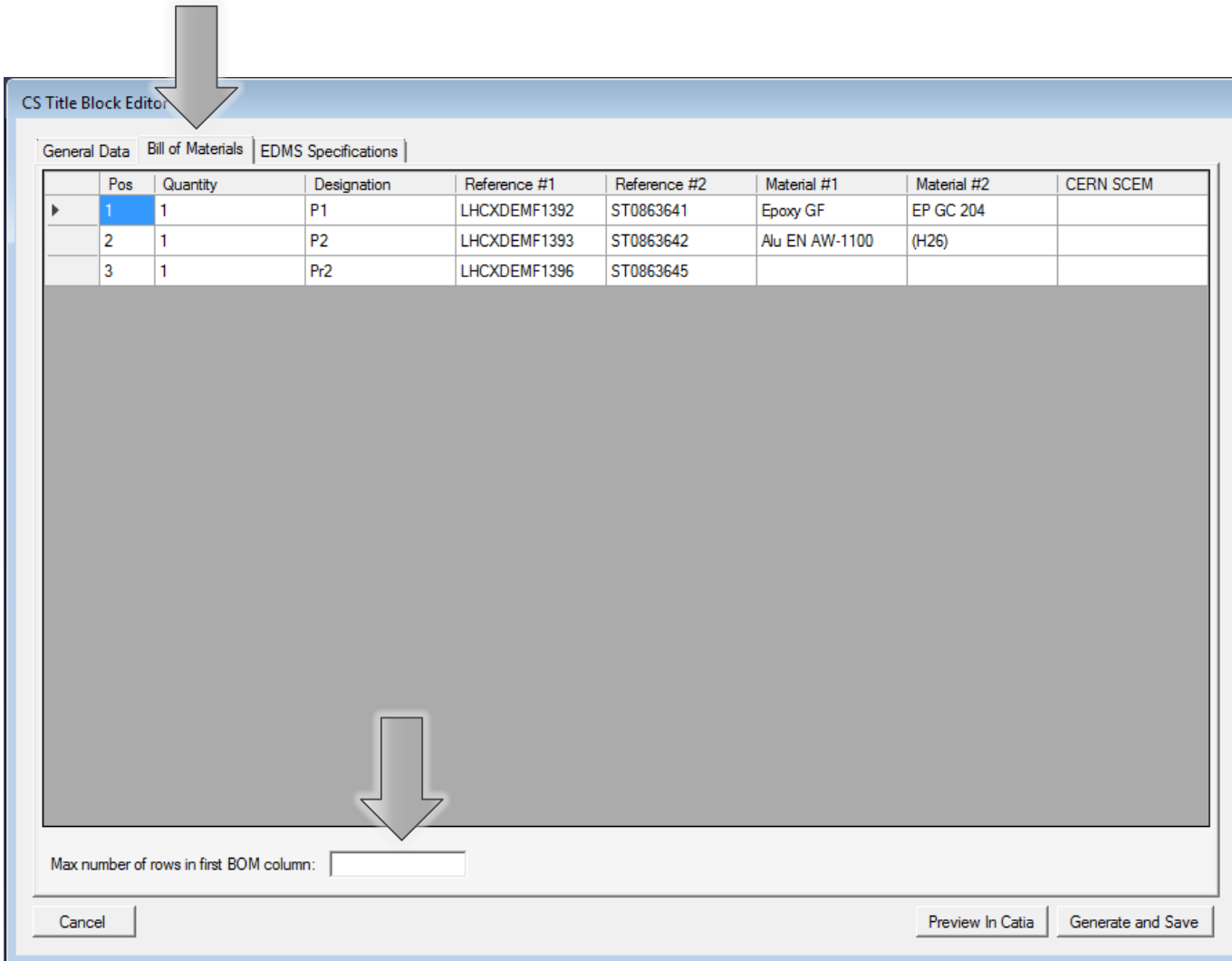
## Index:

If the drawing number has already an Index

Modification reason and Modification zone are editable for this index.

EQUIPMENT CODE LHCXDEMA CODE FOR CDD DEMONSTRATIONS MODEL A		
	REFERENCES	Doc No: ST0691995_02
	LHCXDEMA1794	INDEX
		AB

# Bill Of Materials



CS Title Block Editor

General Data | **Bill of Materials** | EDMS Specifications

	Pos	Quantity	Designation	Reference #1	Reference #2	Material #1	Material #2	CERN SCEM
▶	1	1	P1	LHCXDEMF1392	ST0863641	Epoxy GF	EP GC 204	
	2	1	P2	LHCXDEMF1393	ST0863642	Alu EN AW-1100	(H26)	
	3	1	Pr2	LHCXDEMF1396	ST0863645			

Max number of rows in first BOM column:

Cancel Preview In Catia Generate and Save

## BOM:

Defined by the ITEM structure in SmarTeam.

Only possible action is to define where to cut the list in the drawing.

## Attention faked BOMs (Manual or copied from CDD)

It is not possible to reuse them.

Make a preliminary if you want to keep a trace of the data.

Create the BOM structure by using BOM compare.

BILL OF MATERIALS					
POS	QUANT	DESIGNATION	REFERENCE	MATERIAL	EDH SCEM
01	1	P1	LHCXDEMF1392	Epoxy GF	
			ST0863641	EP GC 204	
02	1	P2	LHCXDEMF1393	Alu En AW-1100	
			ST0863642	(H26)	
03	1	Pr2	LHCXDEMF1396		
			ST0863645		

# Disciplines and Drawing types

BILL OF MATERIALS					
POS	QUANT	DESIGNATION	REFERENCE	MATERIAL	EDH SCEN
01	1	P1	LHCXDEMF1392	Epoxy GF	
			ST0863641	EP GC 204	
02	1	P2	LHCXDEMF1393	Alu E: AW-110C	
			ST0863642	(H26)	
03	1	Pr2	LHCXDEMF1396		
			ST0863645		


  

EDMS SPECIFICATIONS		
No	TITLE	EDMS REFERENCE
1	FAQ transition to "Released"	1723084 v.2
2	Find new or checked out documents	1524362 v.1
3	AUTOMATICALLY ASSIGNED FOR SMARTEAM	LHCXDEMF1000 v.0

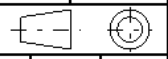

  

ISO STANDARDS		
EN 13445 - 3	ISO 11611:2008	EN ISO 3834 - ITCS
UNE-EN ISO 2553:2014		

ISO GPS STANDARDS		
ISO 2768-mK	$\sqrt{Ra + 3.2}$	ISO 13715 

NOTE: ISO GPS standards applicable to this drawing are those prior to 2010-08-01

DESIGNATION  Designation EN	DESIGNED	M. GARCIA CARNERO	FORMAT	A0
	CHECKED		SCALE	1:1
	RELEASED			
	APPROVED			
DRAWING INFORMATION  Drawing Definition		DESIGNED 2018-03-19		
EQUIPMENT CODE 1-GX-3-3-200-10P-1-4-5-2-GL-4-101-F-114-2-1-1-1-1-1				
	REFERENCES	Doc No: ST0863646_02	INDEX	
	LHCXDEMF1397			
	LABEL	NOT VALID FOR EXECUTION	QAC	SHEET 1/1

**Format, Discipline etc...**

Format:  Scale:

Discipline:

Drawing type:



**Discipline and Drawing type combination:**  
Different optional blocks will be available

**Automatic recognition by the 3D generator:**

Part → Mechanical + Detailed

Product → Mechanical + Assembly

Product with tolerances → Mechanical + Assembly with mechanical behaviours

# Optional Blocks / Material Specifications

**Material Specifications**

	Line 1	Line 2
Material:	Epoxy GF	EP GC 204
Initial State:		
Final State:		

**Material Specifications**

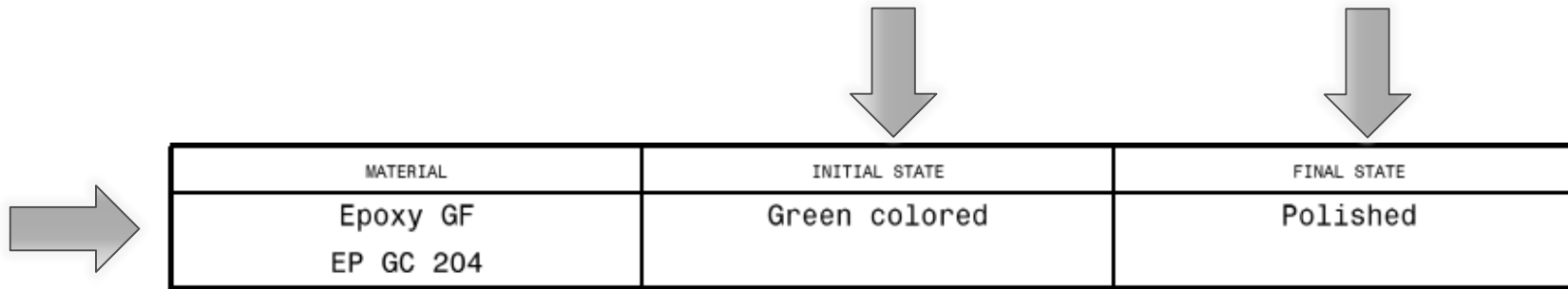
	Line 1	Line 2
Material:	Epoxy GF	EP GC 204
Initial State:	Green colored	
Final State:	Polished	

## Material

Material mapped from the ITEM

## Initial and Final material state

Initial and final state added manually by designer



MATERIAL	INITIAL STATE	FINAL STATE
Epoxy GF EP GC 204	Green colored	Polished

# Optional blocks / Tolerances

☒ Tolerance

[ISO 2768](#)

-

[ISO 1302](#)

Surface Ra value

☐ (✓)

[ISO 13715](#)

External Edge Internal Edge

☐ (↙)

☒ Tolerance

[ISO 2768](#)

m K - -

[ISO 1302](#)

Surface Ra value

☒  +3.2

☐ (✓)

[ISO 13715](#)

External Edge Internal Edge

- +0.3

-0.3 External edge upper limit

☒ (↙)

## Tolerances:

Functionality as today

Possibility to add or remove the block in all kind of drawings

## Tolerances:

Link to the ISO Norms

Guide Messages

Sticker of the applicable date printed in the block

ISO GPS STANDARDS		
ISO 2768-mK	✓ Ra +3.2	ISO 13715 ↙ <sup>-0.3</sup> ↘ <sup>+0.3</sup> (↙)
NOTE: ISO GPS standards applicable to this drawing are those prior to 2010-08-01		

# Optional blocks / Standards

**Standards**

EN 13445 - 3	ISO 11611:2008
EN ISO 3834 - ITCS	UNE-EN ISO 2553:2

## Standards:

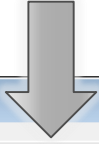
Predefined standards will be available in a list (On request).

Can be filled manually.

Until 6 values in the drawing.

ISO STANDARDS		
EN 13445 - 3	ISO 11611:2008	EN ISO 3834 - ITCS
UNE-EN ISO 2553:2014		

# Optional Blocks / EDMS Specifications



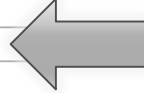
CS Title Block Editor

General Data | Bill of Materials | **EDMS Specifications**

	EDMS Reference	Revision	Status	Title
	1723084	2	Released	FAQ transition to "Released"
	377264	1	In Work	ERROR: The EDMS document must not be "In Work".
	1524362	1	Released	Find new or checked out documents
▶	LHCXDEMF1000	0	Released	AUTOMATICALLY ASSIGNED FOR SMARTEAM
*				

To delete a row select the row by clicking in the grey area to the left of the EDMS Reference and then hit Delete on the keyboard.

Cancel Preview In Catia Generate and Save



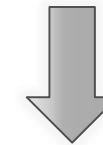
## EDMS Specifications:

It is possible to introduce an EDMS reference.  
The title will be mapped to the drawing.

## Prerequisites:

The reference cannot be "In Work" in EDMS.  
Possible to refer to old versions if are not cancelled.  
If no revision the latest released will be taken.

If the reference has an error will not be printed in the drawing.



EDMS SPECIFICATIONS		
No	TITLE	EDMS REFERENCE
1	FAQ transition to "Released"	1723084 v.2
2	Find new or checked out documents	1524362 v.1
3	AUTOMATICALLY ASSIGNED FOR SMARTEAM	LHCXDEMF1000 v.0

# Transition between old and new title block

## Automatic process that:

- Read old data.
- Migrate to the new title block.
- Redraw in the new format.

## Attention:

There will be **no manual edition** for the general fields and BOM list.  
If you are not sure that all fields in the past were correctly taken from SmarTeam:

- Check carefully the BOM list and the title.
- Do a preliminary to keep the trace.
- Perform BOM compare in SmarTeam.

**NEW**

MATERIAL		INITIAL STATE		FINAL STATE		
St. Steel 316LN Vacuum (CERN 1001)						
MASS 1.55 kg						
DESIGNATION DN 63 - UHV CF FIXED FLANGE RF 5  DRAWING INFORMATION Drawing of DN 63 - UHV CF FIXED FLANGE RF 5  EQUIPMENT CODE LHCXDEMF CODE FOR TESTS - TWO CONTROLS NOT RESTRICTED				DESIGNED	M. GARCIA CARNERO	
				CHECKED		
				RELEASED		
				APPROVED		
				DESIGNED 2018-03-21		
CERN	REFERENCES	Doc No: ST0556919_02	INDEX	LABEL	QAC	SHEET
	LHCXDEMF2940			NOT VALID FOR EXECUTION	-	1/1

**OLD**

1		1	St. Steel 316LN Vacuum (CERN 1001)		
QUA	DESCRIPTION	POS	MAT.	OBSERVATIONS	REF. CERN
ENS/ASS			S. ENS / S. ASS		
CODE FOR TESTS - TWO CONTROLS NOT RESTRICTED				DRAWN	M. GARCIA CARNERO
DN 63 - UHV CF FIXED FLANGE RF 5				SCALE	2018-03-21
				1:1	
				CONTROLLED	
				RELEASED	
				APPROVED	
				CAD Document Number ST0556919_02	
				REPLACES	
CERN	NON VALABLE POUR EXECUTION NOT VALID FOR EXECUTION			QAC	LHCXDEMF2940
				SIZE	IND.
				0	

# Transition between old and new title block

## Not only...

- Tool replacement

- Drawing title block and frame layout

## But also...

- New fields and functionalities in SmarTeam

- Modify processes in SmarTeam (Save As , New Release, ....)

- New Settings, data storage, communication with CDD, archiving, stamping...

## FAQ coming soon

Thank you!!

Questions?