SAP Easy Access

Other menu | Create role | Assign users | Documentation

- Favorites
- SAP Menu
  - Office
  - Cross-Application Components
  - Logistics
  - Accounting
  - Human Resources
  - Information Systems
  - Tools
  - WebClient UI Framework

SAP Life-Cycle Data Management

Engineering Change
S/4 1909

Engineering Changes
Reporting with Info System

SAP

1. **Change Number (CC01)**
2. EC3 applied to BOM (CS03) and Routing (CA03)
3. Apply EC3 to Material Master (MM12)
4. Apply EC3 to a Characteristics (CT04)
5. ECM Information System (CC07)

Create Change Master: Change Header

Object Types | Objects | Alternative Dates

Change number	EC3	EC3

Change Master Without Release Key

Description

Valid From	01.01.2022
Authorization group	
Reason for Change	

EC3 with
01.01.2022

Status Information

Change no. status	01

☐ Usage

☐ Deletion Flag

Administrative Data

Created On		Created by	
Changed On		Changed by	

SAP

Create Change Master: Object Types

| | Object Types | | Objects | | Alternative Dates | | | | | | | | |

Change number   EC3   EC3

Change Master Without Release Key

ECN3 is for 4 objects

Object types
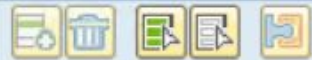
Description	Actv.	Object	MgtRec	Gen new	GenDial	Lock	Created	Created by	
Bill of Material	☑	☑	☑	☐	☐	☐			
Task List	☑	☑	☑	☐	☐	☐			
Document	☐	☐	☐	☐	☐	☐			
Material	☑	☑	☑	☐	☐	☐			
Characteristic	☑					☐			
Characteristics of Class	☐					☐			
Classification	☐					☐			
Object Dependencies	☐					☐			
Configuration Profile	☐					☐			
Specification	☐					☐			
Phrase	☐					☐			
Dangerous Goods	☐					☐			
Variant Table	☐					☐			
Recipe Managemnt	☐					☐			

1. Change Number (CC01)
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Change material BOM: General Item Overview

Subitems   New Entries   🗑   ℹ️ Header Details   ⛟ Validity

Material	T-F120		Extreme Group 20
Plant	1010 Hamburg		
Alternative BOM	1		

Position   Effectivity Initial Screen

Material | Document | General

	Item	ICt	Component	Component des...	Quantity	U...	A...	SIs	Valid From	Valid to	P...	Change No.	Chg No. To	Ite
	0010	L	T-S120	Frame Group 20	1	PC	☑	☐	29.02.2016	31.12.9999	☐			00
	0020	L	T-S220	Wheel Group 20	2	PC	☑	☐	29.02.2016	31.12.9999	☐			00
	0030	L	T-R120	Chain Group 20	1	PC	☐	☐	29.02.2016	31.12.9999	☐			00
	0050	L	M2	M2	3	PC	☐	☐	01.01.2021	31.12.9999	☐	EC2		00
	0060	L	M3	M3	4	PC	☐	☐	01.01.2022	31.12.9999	☐	EC3		
	0070	L					☐	☐			☐			
	0080	L					☐	☐			☐			
	0090	L									☐			
	0100	L									☐			
	0110	L									☐			

EC3 applied to the BOM to add M3

Entry   1 / 5

SAP

Change Routing: Operation Overview

Routing Edit Goto Details Extras Environment System Help

Group	50000022	Group Counter	1	Extreme Group 00
Material	T-F120			Extreme Group 20

Operation Overview

Op...	SOp	Work ce...	Plant	Co...	Standar...	Description	Change Num...	Valid From	Valid to	L...	P...	Cl...	O...	P...
0010		T-A20	1010	YBP1		Assembly		01.03.2016	31.12.9999					
0020		T-T20	1010	YBP1		Testing		01.03.2016	31.12.9999					
0025		TEST	1010	YBP1		Robotic Testing	EC2	01.06.2021	31.12.9999					
0028		WC	1010	PP01		Packaging	EC3	01.01.2022	31.12.9999					
0030		T-T20	1010	YBP3		Posting goods receipt		01.03.2016	31.12.9999					
0040			1010											
0050			1010											
0060			1010											
0070			1010											
0080			1010											
0090			1010											
0100			1010											
0110			1010											
0120			1010											
0130			1010											

EC3 applied to add an Operation to the Routing

Entry	1	of	5

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1. Change Number (CC01)
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3. **Apply EC3 to Material Master (MM12)**
4. Apply EC3 to a Characteristics (CT04)
5. ECM Information System (CC07)

Schedule Changing of Material (Initial Screen)

Select View(s) Org. Levels Data

Material	T-F120
Chge sched. for	
Change Number	EC3

Change Material using EC3

Select View(s)

View
- Basic Data 1
- Basic Data 2
- Sales: Sales Org. Data 1
- Sales: Sales Org. Data 2
- Sales: General/Plant Data
- Extended SPP Basic Data
- International Trade: Export
- ...
- Advanced Planning
- Extended SPP
- Work Scheduling
- General Plant Data / Storage 1
- General Plant Data / Storage 2
- Accounting 1

☐ View selection only on request

✓ Org. Levels Data 📋 📋 💾 Default Setting ✖

SAP Easy Access

Other menu

- ▶ 📁 Tax Compliance
- ▼ 📂 Logistics
  - ▶ 📁 Equipment and Tools Management
  - ▼ 📂 Materials Management
    - ▶ 📁 Purchasing
    - ▶ 📁 Inventory Management
    - ▶ 📁 Logistics Invoice Verification
    - ▶ 📁 Physical Inventory
    - ▶ 📁 Valuation
    - ▶ 📁 Material Requirements Planning (MRP)
    - ▶ 📁 Returnable packaging logistics
    - ▶ 📁 Service Entry Sheet
    - ▶ 📁 Service Master
    - ▼ 📂 Material Master
      - ▼ 📂 Material
        - ▶ 📁 Create (Special)
        - ▶ 📁 Create (General)
        - ▼ 📂 Change
          - · 🗔 MM02 - Immediately
          - · 🗔 MM12 - Schedule
          - · 🗔 MM13 - Activate
        - ▶ 📁 Flag for Deletion

SAP

Schedule Changing of Material T-F120 (Finished Product)

⬒ ➡ Additional Data   🔗 Org. Levels   🔧 Check Screen Data

| Basic data 1 | Basic data 2 | Sales: sales org. 1 | Sales: sales org. 2 | Sales: General... |

Material   T-F120
Descr.   Extreme Group 20
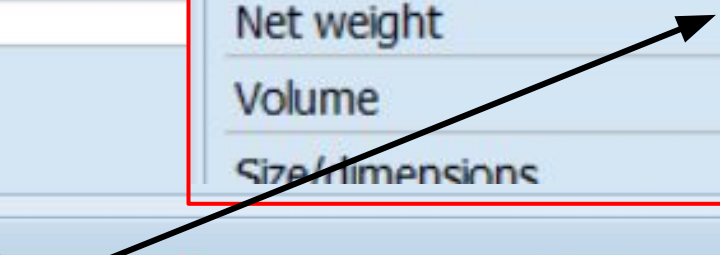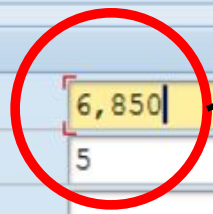
General Data

Base Unit of Measure   PC   Piece
Old material number
Division   00
Product allocation
X-Plant Mat.Status
Assign effect. vals   ☐

Dimensions/EANs

Gross weight	7	W
Net weight	6	
Volume		V
Size/dimensions		

Dimensions/EANs

Gross weight   6,850   Weight unit   KG
Net weight   5
Volume   Volume unit
Size/dimensions
EAN/UPC   4012345120103   EAN category   HE

SAP

Display Material at Key Date (Initial Screen)

Select View(s)   Org. Levels   Data

Material   T-F120

For Key Date   11.05.2020

Display with key date before the EC3 date

SAP Easy Access

Other menu

- ▶ 📁 Logistics Invoice Verification
- ▶ 📁 Physical Inventory
- ▶ 📁 Valuation
- ▶ 📁 Material Requirements Planning (MRP)
- ▶ 📁 Returnable packaging logistics
- ▶ 📁 Service Entry Sheet
- ▶ 📁 Service Master
- ▼ 📁 Material Master
  - ▼ 📁 Material
    - ▶ 📁 Create (Special)
    - ▶ 📁 Create (General)
    - ▼ 📁 Change
      - · 📦 MM02 - Immediately
      - · 📦 MM12 - Schedule
      - · 📦 MM13 - Activate
    - ▶ 📁 Flag for Deletion
    - ▼ 📁 Display
      - · 📦 MM03 - Display Current
      - · 📦 MM19 - Display at Key Date
    - ▶ 📁 Display Changes
    - · 📦 MM17 - Mass Maintenance
    - · 📦 MMAM - Change Material Type

Display Material T-F120 at Key Date (Finished Product)

⇨ Additional Data   🔲 Org. Levels

Basic data 1	Basic data 2	Sales: sales org. 1	Sales: sales org. 2	Sales: General...

Material   T-F120
Descr.   Extreme Group 20

General Data

Base Unit of Measure	PC	Piece	Material Group	L004
Old material number			Ext. Matl Group	
Division	00		Lab/Office	
Product allocation			Prod.hierarchy	
X-Plant Mat.Status			Valid from	
Assign effect. vals	☐		Standard item	

note the original weight numbers

Material authorization group

Authorization Group

Dimensions/EANs

Gross weight	6,850	Weight unit	KG
Net weight	5		
Volume	0,000	Volume unit	

SAP

Display Material at Key Date (Initial Screen)

Select View(s)   Org. Levels   Data

Material   T-F120

For Key Date   11.05.2022

Display with key date after the EC3 date

SAP Easy Access

Other menu

- ▸ 📁 Logistics Invoice Verification
- ▸ 📁 Physical Inventory
- ▸ 📁 Valuation
- ▸ 📁 Material Requirements Planning (MRP)
- ▸ 📁 Returnable packaging logistics
- ▸ 📁 Service Entry Sheet
- ▸ 📁 Service Master
- ▾ 📂 Material Master
  - ▾ 📂 Material
    - ▸ 📁 Create (Special)
    - ▸ 📁 Create (General)
    - ▾ 📂 Change
      - · 📦 MM02 - Immediately
      - · 📦 MM12 - Schedule
      - · 📦 MM13 - Activate
    - ▸ 📁 Flag for Deletion
    - ▾ 📂 Display
      - · 📦 MM03 - Display Current
      - · 📦 MM19 - Display at Key Date
    - ▸ 📁 Display Changes
    - · 📦 MM17 - Mass Maintenance
    - · 📦 MMAM - Change Material Type

Display Material T-F120 at Key Date (Finished Product)

⇨ Additional Data   🔓 Org. Levels

| Basic data 1 | Basic data 2 | Sales: sales org. 1 | Sales: sales org. 2 | Sales: General... |

Material   T-F120

Descr.   Extreme Group 20

General Data

Base Unit of Measure	PC	Material Group	L004
Old material number		Ext. Matl Group	
Division	00	Lab/Office	
Product allocation		Prod.hierarchy	
X-Plant Mat.Status		Valid from	
Assign effect. vals	☐		Standard item

note the new weight numbers

Material authorization group

Authorization Group

Dimensions/EANs

Gross weight	7	Weight unit	KG
Net weight	6		
Volume	0,000	Volume unit	

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1. Change Number (CC01)
2. EC3 applied to BOM (CS03) and Routing (CA03)
3. Apply EC3 to Material Master (MM12)
4. **Apply EC3 to a Characteristics (CT04)**
5. ECM Information System (CC07)

Characteristics

Characteristic   Z

Change Number   EC3

Valid From   Validity

| Basic data | Descriptions | Val | | ns |

Apply Change Number EC3 to C

SAP

Change Characteristic

Characteristic	Z
Change Number	EC3
Valid From	01.01.2022

Validity

Basic data **Descriptions** **Values** **Addnl data** **Restrictions**

☐ Additional Values

Other Value Check

Allowed Values

Char. Value	Description	D	O	S
1	Green	☐	☐	☐
2	Red	☐	☐	☐
3	Yellow	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Add Characteristics Value 4

SAP

Change Characteristic

Characteristic	Z
Change Number	EC3
Valid From	01.01.2022

Validity

Basic data | Descriptions | Values | Addnl data | Restrictions

☐ Additional Values

Other Value Check

Allowed Values

Char. Value	Description	D	O	S
1	Green	☐	☐	☐
2	Red	☐	☐	☐
3	Yellow	☐	☐	☐
4	No Color	☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Add
Characteristics
Value 4

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1. Change Number (CC01)
2. EC3 applied to BOM (CS03) and Routing (CA03)
3. Apply EC3 to Material Master (MM12)
4. Apply EC3 to a Characteristics (CT04)
5. **ECM Information System (CC07)**

SAP Easy Access

Other menu | Create role | Assign users | Documentation

- Favorites
- SAP Menu
  - Connector for Multi-Bank Connectivity
  - Office
  - Cross-Application Components
    - Processes and Tools for Enterprise Applications
    - SAP S/4HANA Financial Closing cockpit
    - Audit Management
    - ALE Distribution Units
    - Engineering Change Management
      - Change Number
        - CC01 - Create
        - CC02 - Change
        - CC03 - Display
        - CCUNDO - Undo
      - Object Management Record
      - Revision Level
      - Reporting
        - CC07 - Information System
        - CC05 - Change Overview
        - CC60 - Change Hierarchy
        - DSAL - Log for Digital Signature
      - Environment
      - Audit Trail (Logging)
      - Logging

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Change Number Selection

Change Number	EC1	to	EC3	
Valid From		to		
Created by		to		

Change Requests in Status ...

☐ Created	☐ To Be Checked
☐ Checked	☐ Objects Checked
☐ Approved	☐ Rejected
☐ Converted	☐ Locked

Change Orders in Status ...

☐ Some object changes done	☐ Object Changes Completed
☐ Completed	☐ Errors in object changes
☐ Incomplete	☐ Object changes released
☐ Released	☐ Locked

Status Selection Profile

Output

☑ With Object Management Records

Engineering Change Management Information System

Product Structure

- ▼ EC1
  - ▶ Usage in BOMs
- ▼ EC2
  - ▶ Usage in BOMs
  - ▶ Usage in Routings
- ▼ EC3
  - ▶ Usage in Materials
  - ▶ Usage in Characteristics
  - ▶ Usage in BOMs
  - ▶ Usage in Routings

Note the Change Numbers applied to each Object

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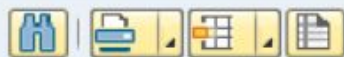# Engineering Change Management Information System

Product Structure	Short Te
▼ 🖉 EC1	EC1
▶ 🔾 Usage in BOMs	
▼ 🖉 EC2	EC2
▶ 🔾 Usage in BOMs	
▶ 🔾 Usage in Routings	
▼ 🖉 EC3	EC3
▼ 🔾 Usage in Materials	
▶ 📦 T-F120	Extreme Group 20
▼ 🔾 Usage in Characteristics	
▶ 🔺 Z	color
▼ 🔾 Usage in BOMs	
▼ 🔾 In Material BOMs	
▶ 📇 T-F120 1010 1 01	Extreme Group 20
▼ 🔾 Usage in Routings	
▼ 🔾 In Routings	
▶ 🖥 N 50000022 01 1010	Extreme Group 00

Double-click EC3

Engineering Change Management information system

Product Structure

Product Structure	Short Text
▼ EC1	EC1
▶ Usage in BOMs	
▼ EC2	EC2
▶ Usage in BOMs	
▶ Usage in Routings	
▼ EC3	EC3
▼ Usage in Materials	
▶ T-F120	Extreme Group 20
▼ Usage in Characteristi	
▶ Z	color
▼ Usage in BOMs	
▼ In Material BOMs	
▶ T-F120 1010 1	Extreme Group 20
▼ Usage in Routings	
▼ In Routings	
▶ N 50000022 01	Extreme Group 00

Change number	EC3	EC3
Valid From	01.01.2022	

Objects | BOM | Plan | Material | Charact. | ChangeDocuments
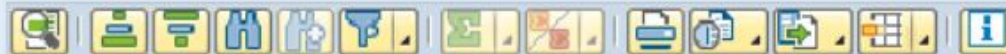
Icon	Object Type	Object	
	Routing	N/50000022	
	Material	T-F120	
	MatBOM	T-F120	/1010/1

Objects applied

Engineering Change Management information system

Change number	EC3	EC3

Product Structure	Short ...
EC1	EC1
Usage in BOMs
EC2	EC2
Usage in BOMs
Usage in Routings
EC3	EC3
Usage in Materials
T-F120	Extreme G
Usage in Characteristi
Z	color
Usage in BOMs
In Material BOMs
T-F120 1010 1	Extreme G
Usage in Routings
In Routings
N 50000022 01	Extreme G

Valid From	01.01.2022

Objects | BOM | Plan | Material | Charact. | ChangeDocuments

Characteristics: Display Characteristics for Change Number

Note the new Characteristics Value

```
Change Number      EC3                EC3
Validity           01.01.2022
Characteristic                                    ClType Class
   Characteristic Attribute            New Value
                                       Old Value
      Value
         Value Attribute              New Value    Dependency Changed
                                       Old Value
Z
   4
      Value New
```

SAP

Engineering Change Management information system

Change number	EC3	EC3

Valid From   01.01.2022

Objects	BOM	Plan	Material	Charact.	Cha

Changes to the Material Master

Display Material Change Document   Display Planned Changes

Material	Material description
T-F120	Extreme Group 20

Product Structure / **Short ...**

- ▼ EC1 — EC1
  - ▸ Usage in BOMs
- ▼ EC2 — EC2
  - ▸ Usage in BOMs
  - ▸ Usage in Routings
- ▼ EC3 — EC3
  - ▼ Usage in Materials
    - ▸ T-F120 — Extreme G
  - ▼ Usage in Characteristi
    - ▸ Z — color
  - ▼ Usage in BOMs
    - ▼ In Material BOMs
      - ▸ T-F120 1010 1 — Extreme G
  - ▼ Usage in Routings
    - ▼ In Routings
      - ▸ N 50000022 01 — Extreme G

Display Changes: Material Overview

List of all planned changes for the material T-F120

Selected	Planned For	User	Change no.	TCode
☐	01.01.2022	FROGGY	EC3	MM12

Display Changes: Change Document

Material   T-F120   **Change number** EC3
Planned By FROGGY **Planned For**   01.01.2022 **Time** 00:00:01

Action	Org. Unit	Field Desc.	Old Value	New Value	Additional Info
Change		Gross weight	6,850 KG	7,000 KG	Alternative unit of measure PC
Change		Net weight	5,000 KG	6,000 KG	

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Engineering Change Management information system

Product Structure	Short ...
▼ 🖉 EC1	EC1
▸ ➡ Usage in BOMs	
▼ 🖉 EC2	EC2
▼ ➡ Usage in BOMs	
▼ ➡ In Material BOMs	
▼ 🔠 T-F120 1010 1	Extreme G
▸ ➡ Items	
▸ ➡ Change Num	
▸ ➡ Material	
▸ ➡ Usage in Routings	
▼ 🖉 EC3	EC3
▼ ➡ Usage in Materials	
▸ 📦 T-F120	Extreme G
▼ ➡ Usage in Characteristi	
▸ ⚗ Z	color
▼ ➡ Usage in BOMs	
▼ ➡ In Material BOMs	
▸ 🔠 T-F120 1010 1	Extreme G
▼ ➡ Usage in Routings	
▼ ➡ In Routings	
▸ 📠 N 50000022 01	Extreme G

Change number   EC3   EC3

Valid From   01.01.2022

Objects | BOM | Plan | Material | Charact. | ChangeDocuments

All Task List Changes for a Change Number

Change Number   EC3   EC3

TL Type	N	Routing
TL Group	50000022	Valid From 01.0

GrpCtr   1   Sequence   0
Operation   0028 WC   Packaging

Operation 28 added to the Routing