

BoM-Related

01/09/2025 9:06 am BST

[Relates to version](#)

Tags: 9.0

BoM Definition, Build Records and As Built

The following system eCHR line types record the details of the required BoM for the item linked to the eCHR:

- **BoM Definition:** Definition of the BoM for the item being made, i.e., what are the requirements?
- **Build Records:** Record of the actual transactions that took place, i.e., consumptions and removals.
- **As Built:** List of components in the parent item.

BoM Definition Line Type

It may not be necessary to capture all BoM information in the eCHR. For instance, the MES might be required to record and track the consumption of consumable items for inventory management purposes (e.g., via backflush), but this data is not relevant to quality and therefore not required in the eCHR.

The specific BoM elements that must be included in the BoM Definition can be configured in the BoM version's BoM Slot settings. Any slots marked as "Yes" under *eCHR BoM Required* will be recorded in the eCHR BoM Definition (provided the eCHR Profile has the line type *BoM Definition* included).

Bom Slot Edit

Slot Description	Slot A
Build Slot Type	PeterS SlotType1
Active	Yes
Required	No
Instructions	
Default Candidate	Motherboard ASUS
Default Qty	1.0000000000
Unit Of Measure	EA
eCHR Bom Required	Yes
eCHR Build Required	Yes

Save **Cancel**

BoM Definition Triggers

BOM Definition Trigger is either:

- Creation of a new eCHR for an item with a BoM (including when a new item is created as WIP at the start of a job OR when there is a split off from an existing WIP item), or
- Transfer of an item to a new BoM version.

BoM Definition Reports

Contents report via the eCHR screen

BOM Definition Line Type Output – eCHR Listing

Summary Information

Section: Manufacturing Requirements

Line Type	Latest	Revision	Reason	Signature Status	Created	Details	Last Edit User	eSign
BOM Definition	Yes	1	New	Not Required	06/06/2025 13:59	BoM Version Description: Medical Device A bom version No. Slots: 3 Total Child Qty: 6 Version: 1.0	Lucy Demo	

Revision: 1 (Latest) Content: Formatted Content eSignature: Not Available

BoM Version Description: Medical Device A bom ... BoM Version: 1.0

Drag a column header and drop it here to group by that column

Bom Slot	Slot Type	Required?	Child Product	Quantity	Unit
PCB	Medical device build	Yes	PCB A	1	EA
Case	Medical device build	Yes	Case	1	EA
Switch	Medical device build	Yes	Switch	4	EA

Detailed Information

HTML Report

BOM Definition Line Type – Printable Report

Summary Information

Manufacturing Requirements

Line Type	Latest	Revision	Reason	Signature Status	Created	Details	Last Edit User	eSign
BOM Definition	Yes	1	New	Not Required	06/06/2025 13:59:22	BoM Version Description: Medical Device A bom version No. Slots: 3 Version: 1.0	Lucy Demo	

Slots

Bom Slot	Slot Type	Required	Child Product	Quantity	Unit
PCB	Medical device build	Yes	PCB A	1	EA
Case	Medical device build	Yes	Case	1	EA
Switch	Medical device build	Yes	Switch	4	EA

Detailed Information

Build Record and As Built Line Types

Consumption of a component on the BoM may not be recorded in MES at all. For example, there is just a physical Kanban bin that is managed centrally, so although it is listed in the BoM, there may be no transactions/corresponding As Built in the MES.

The eCHR **BoM Required** field determines which elements of a BoM are required to be in the **Build Record** and the **As Built** record.

eCHR Build Required checkbox: If checked, use and remove transactions for this BoM slot will be included in the eCHR for the item, and the as built record in the eCHR will contain the contents of these slots (provided the eCHR Profile has the line types **Build Record** and **As Built** included).

Bom Slot Edit

Slot Description

Slot A

Build Slot Type

PeterS SlotType1

Active

Yes

Required

No

Instructions

Default Candidate

Motherboard ASUS

Default Qty

1.0000000000

Unit Of Measure

EA

eCHR Bom Required

Yes

eCHR Build Required

Yes

Save

Cancel

Build Record Trigger

- Consumption or Remove transaction.

As Built triggers

- Finalisation of the eCHR.
- New revision for any removals or consumptions (if eCHR reopened).
- Split of the parent item or creation of an item through a split.

Build Record Line Type Reports

Contents report via the eCHR screen

Build Record Line Type Output – eCHR Listing

Summary Information

Revision	1 (Extnd)	Content	Formatted Content	Signature	Not available
2	Build Record	Bom Slot: PCB Child Product: PCB A Child Bom Serial No: A Quantity: 1 EA Timestamp: 06/08/2025 14:38:01 Transaction: Use Transaction By: Lany		None	Not Required
3	Build Record	Bom Slot: Case Child Product: Case Child Bom Serial No: B Quantity: 1 EA Timestamp: 06/08/2025 14:38:29 Transaction: Use Transaction By: Lany		None	Not Required
4	Build Record	Bom Slot: Switch Child Product: Switch Child Bom Serial No: 91 Quantity: 1 EA Timestamp: 06/08/2025 14:38:49 Transaction: Use Transaction By: Lany		None	Not Required
5	Build Record	Bom Slot: Switch Child Product: Switch Child Bom Serial No: 91 Quantity: 3 EA Timestamp: 06/08/2025 15:38:06 Transaction: Remove Transaction By: Lany		None	Not Required
		Bom Slot: Switch Child Product: Switch Child Bom Serial No: 92			

Signature

Not available

Bom Slot	Product	Child Serial No	Transaction Type	Quantity	Timestamp	User	Reason
Switch	Switch	91	Use	+ EA	06/08/2025 14:38	Lany	System

Detailed Information

HTML Report

Build Record Line Type – Printable Report

Manufacturing History

Line Type	Latest	Revision	Reason	Signature Status	Created	Details	Last Edit User	eSign																
Build Record	Yes	1	New	Not Required	06/08/2025 14:36:13	<div>Bom Slot: PCB Child Product: PCB A Child Item Serial No: A Quantity: 1 EA Timestamp: 06/08/2025 14:36:11 Transaction User: Transaction By: Lucy</div>	Lucy Demo																	
<div>Details</div> <table><tr><th>Bom Slot</th><th>Child Product</th><th>Child Item Serial No</th><th>Transaction Type</th><th>Quantity</th><th>Timestamp</th><th>User</th><th>Reason</th></tr><tr><td>PCB</td><td>PCB A</td><td>A</td><td>Use</td><td>1 EA</td><td>06/08/2025 14:36:11</td><td>Lucy</td><td>System</td></tr></table>									Bom Slot	Child Product	Child Item Serial No	Transaction Type	Quantity	Timestamp	User	Reason	PCB	PCB A	A	Use	1 EA	06/08/2025 14:36:11	Lucy	System
Bom Slot	Child Product	Child Item Serial No	Transaction Type	Quantity	Timestamp	User	Reason																	
PCB	PCB A	A	Use	1 EA	06/08/2025 14:36:11	Lucy	System																	
Build Record	Yes	1	New	Not Required	06/08/2025 14:36:20	<div>Bom Slot: Case Child Product: Case Child Item Serial No: B Quantity: 1 EA Timestamp: 06/08/2025 14:36:29 Transaction User: Transaction By: Lucy</div>	Lucy Demo																	
<div>Details</div> <table><tr><th>Bom Slot</th><th>Child Product</th><th>Child Item Serial No</th><th>Transaction Type</th><th>Quantity</th><th>Timestamp</th><th>User</th><th>Reason</th></tr><tr><td>Case</td><td>Case</td><td>B</td><td>Use</td><td>1 EA</td><td>06/08/2025 14:36:29</td><td>Lucy</td><td>System</td></tr></table>									Bom Slot	Child Product	Child Item Serial No	Transaction Type	Quantity	Timestamp	User	Reason	Case	Case	B	Use	1 EA	06/08/2025 14:36:29	Lucy	System
Bom Slot	Child Product	Child Item Serial No	Transaction Type	Quantity	Timestamp	User	Reason																	
Case	Case	B	Use	1 EA	06/08/2025 14:36:29	Lucy	System																	

Summary Information

Detailed Information

As Built Line Type Reports

Contents report via the eCHR screen

As Built Line Type Output – As Built

Section: As Built

▼

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As Built

Bom Version Description: Medical Device A bom version

No. Slots: 3

Version: 1.0

Updated

Not Required

06/08/2025 14:37

3

Revision

3 (Latest)

Content

Formatted Content

eSignature

Not Available

Bom Version Description

Medical Device A bom ...

Bom Version

1.0

Slot	Build Slot Type	Serial No	Product	Is Required	Min Qty	Max Qty	Required Qty	Fitted Qty	Use UoM
▼ PCB	Medical device build	A	PCB A	Yes	1	1	1	1	EA
▼ Case	Medical device build	B	Case	Yes	1	1	1	1	EA
▼ Switch	Medical device build	S1	Switch	Yes	4	4	4	4	EA
		S2	Switch					2	EA
								2	EA

Summary Information

Detailed Information

Summary Information

Detailed Information

HTML Report

As Built Line Type – Printable Report

As Built

Line Type	Latest	Revision	Reason	Signature Status	Created	Details					Last Edit User	eSign
As Built	Yes	3	Updated	Not Required	06/08/2025 14:37:08	Bom Version Description: Medical Device A bom version No. Slots: 3 Version: 1.0					Lucy Demo	
Details												
Slot	Type	Serial No	Build Slot Type	Is Required	Min Qty	Max Qty	Required Qty	Product	Use UoM	Fitted Qty		
Case	SLOT		Medical device build	Yes	1	1	1	Case	EA	1		
Case	ITEM	B						Case	EA	1		
PCB	SLOT		Medical device build	Yes	1	1	1	PCB A	EA	1		
PCB	ITEM	A						PCB A	EA	1		
Switch	SLOT		Medical device build	Yes	4	4	4	Switch	EA	4		
Switch	ITEM	S1						Switch	EA	2		
Switch	ITEM	S2						Switch	EA	2		

Summary Information

Detailed Information

