How-To Guide **CUSTOMER**

Document version: 2.3 – 9/15/2020

SAP EWM QM/QIE Configuration Guide for decentralized EWM

Document History

The following table provides an overview of the most important document changes.

Version	Date	Description
1.0	4/2/2019	Initial version
2.0	11/21/2019	Update with new features of S/4HANA 1909 release
2.1		Update with new features of S/4HANA 1909 FPS1 release
2.2	01/21/2019	Missing steps added for • "Recurring Inspection" (IOT5), • "Presampling in Production" • Maintain IOT Versions for IOT, 4, 5 and 6,
2.3	09/15/2020	Enhanced "Presampling in Production" section: added section "Report RQBPPEXT..."

1 Table of Contents

2 Prerequisite

SAP ERP 6.0 Enhancement Pack 3 or higher integrated with SAP EWM on S/4HANA 1809 FPS2 or higher.

To start with the QM setup, you should have set up a warehouse in decentral EWM in S/4 On Premise (see Guide *Integration of SAP ERP with Decentralized EWM based on SAP S/4HANA* attached to SAP Note 2782080)

3 Configuration

3.1 Basic EWM QIE QM Integration Settings (EWM)

Only required when integrating with ERP QM.

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Basics and Integration →Communication with an External QM System →Define External QM Systems* (View cluster VC_QIE_SYST_TYPES)

External QM System	Description	Lock
SAP_ERP_QM	*mySAP ERP QM*	*Not Selected*

Select entry and choose in Dialog Structure *System Types →Attributes*.

QM System Attribute	Description
S_ART	*Inspection Type*
S_PLNAL	*Group Counter*
S_PLNNR	*Key for Task List Group*
S_PLNTY	*Task List Type*

Choose in Dialog Structure *System Types →Installations*.

Installation	Description
<SID_CLN> e. g. *B9V_001*	*Integration to ERP System <SID> (<CLN>)*

New Feature with release 1909 FPS1: you can add more than one S/4HANA or ECC as external QM systems in column Installation to integrate QIE with.
If multiple external QM systems are maintained the destination for the inspection lot creation is now determined dynamically in background by using the warehouse and the entitled information as provided by the inspection planning process.
See in **What's New Viewer** of following link
https://help.sap.com/viewer/product/SAP_S4HANA_ON-PREMISE/1909.000
title "Integration of Quality Inspection Engine to Multiple Enterprise Management Systems".

3.2 Process-specific settings

3.2.1 Settings to enable counting (IOT2)

3.2.1.1 Generate IOT Version (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Generate Inspection Object Types Version* (View /SCWM/V_TQIOT)

CAUTION: When generating a new version of an IOT, all inspection rules of the old version are deactivated and need to be copied to the new version. Therefore, you need to be sure if you really need to create a new version in case a version already exists. This is especially critical in a productive system.

Select IOT2 and press *Generate New Version*.

3.2.1.2 Maintain IOT Versions (EWM)

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Basics and Integration → Maintain Inspection Object Types Version* (View cluster /SCWM/VC_QIOT)

Activate version for IOT2. Select version of Inspection Object Type 2 *Counting Inbound Delivery* and flag the checkbox in column *Activ. IOT*.

Maintain the following properties for the active IOT2 version:

Tech. Name Property	Level	Description Property
VERSION	1	Version IOT
LGNUM	2	Warehouse Number
DOCTYPE	3	Document Type
ITEMTYPE	4	Item Type
PARTYNO	5	Business Partner
PRODUCTID	6	Product
ENTITLED	7	Party Entitled to Dispose
QGRP	8	Quality Inspection Group
COO	9	Country of Origin
ICATLOCN	10	Non-Dep. Stock Type
UPPERVAL	11	Maximum Value
UPPERQTY	12	Maximum Quantity

3.2.1.3 Define Indexes for QIE Objects (EWM)

To search inspection documents by attributes such as product, batch, or reference document number (REFDOCNO), you must define an appropriate search index.

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Quality Management for Decentralized EWM → Basics and Integration → Define Indexes for QIE Objects* (View cluster VC_QIE_IDX)

Select in Dialog Structure *Index* and maintain:

Index	Software Component	Object Type	Process	Description	Insp. Docs
F	SCM_EWM[1]	PROD	INBCT_VERS0001[2]	Counting	Selected

Select in Dialog Structure *Properties* and maintain:

Property	Position	Property Type
VERSION	1	1 General (Inspection Document, Sample, and Item)

[1] Select Software Component SCM_EWM using search help and select entry fitting to your process, i.e. the current version of your inspection object type, see in section 3.2.1.2

[2] Version number can be different in your case

Property	Position	Property Type
LGNUM	2	1 General (Inspection Document, Sample, and Item)
PRODUCTID	3	1 General (Inspection Document, Sample, and Item)

Execute report QIE_INDEX_UPDATE in transaction *SA38* and select the same entries which were maintained before:

Index	Software Component	Object Type	Process
F	SCM_EWM	PROD	INBCT_VERS0001

If message “No Indexes for Deletion” appears ignore it.

3.2.1.4 Define Number Range for IOT (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning → Define Number Ranges for Inspection Documents* (View V_QIE_IDOC_NR)

Choose Assign Number Ranges to Inspection Documents.

Press in toolbar New Entries.

Number Range	No
SIOT2	02

Save your entries.

3.2.1.5 Define Item Types (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning →Samples and Items →Define Item Types* (View cluster VC_QIE_ITEM_TYPE)

Choose in Dialog Structure *Item Type*.

Press in toolbar *New Entries*.

Element Type	Description	Software Component	Object Type	Process	No	Action Profile
SITM02	Item Type Counting	SCM_EWM	PROD	INBCT_VERS0001	02	QIE_ELEMENT

Since there is no explicit search function for element types provided by EWM, the maintenance of the properties on item type level is not needed.

3.2.1.6 Activate IOT for your Warehouse Number (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics → Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Inspection Type	
Warehouse No.	*<W001>*
Insp. Obj. Type	*2*
Activ. InspObj.	*Selected*

Inspection Type	
Follw-UpAct. LF	*Inspection Planning at Goods Receipt*
Number Range	*SIOT2*
Item Type	*SITM02*

3.2.1.7 Define Decision Codes (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Define Decision Codes* (View cluster VC_QIE_DECI_CODES)

Choose in Dialog Structure *Decision Codes*.

Check if the following Codes are maintained:

Decision Code	Description	Valuation	QScore	Follow-Up Action
NONE	No Follow-Up Action	A Accept	100	NONE

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT2	*EWM: Counting*

Press *Save*.

Select Code Group *EWMIOT2* and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Enter new entries for following Codes:

- NONE

Press ok and automatically *Code*, *Description* and *Valuation* for code are taken over.

Set radio button *CodeAuto*.

Press *Save*.

3.2.1.8 Maintain Follow-Up Actions (EWM)

The follow-up action is needed for technical reasons.

IMG: *Extended Warehouse Management →Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Maintain Follow-Up Action* (View cluster /SCWM/VC_QFUCODE)

Choose in Dialog Structure *Follow-Up Actions*.

Press in toolbar *New Entries*.

FollUpActn	Follow-Up Action
NONE	No Follow-Up Action

Select for each row of following table the follow-up action and go in Dialog Structure to *Follow-Up Actions for Quality Results*:

Press in toolbar *New Entries*.

Warehouse No	Follow-Up Action	Insp. Obj. Type	Internal Action	Non-Dep- Stk-Tpe	Whse Proc. Type
W001	NONE	2			

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT2	*EWM: Counting*

Press *Save*.

Select Code Group *EWMIOT2* and choose in Dialog Structure *Assign Follow-Up Actions*.

Press in toolbar *New Entries*.

Enter new entries for following Follow-Up Actions in column *FollUpActn*: NONE

Press *Save*.

3.2.2 Returns Inspection (IOT3)

3.2.2.1 Customer Returns with Quality Inspection

see chapter 2.6 of the Customer Returns with QI Process Description.

3.2.2.2 Advanced Returns Management

Content is still work in progress and will come at a later point in time

3.2.3 Goods Receipt from external procurement (IOT4)

3.2.3.1 Inspection after Goods receipt (IOT4)

Generate IOT Version (EWM)

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Basics and Integration → Generate Inspection Object Types Version* (View /SCWM/V_TQIOT)

CAUTION: When generating a new version of an IOT, all inspection rules of the old version are deactivated and need to be copied to the new version. Therefore, you need to be sure if you really need to create a new version in case a version already exists. This is especially critical in a productive system.

Select IOT4 and press *Generate New Version*.

Maintain IOT Versions (EWM)

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Basics and Integration → Maintain Inspection Object Types Version* (View cluster /SCWM/VC_QIOT)

Activate version for IOT 4. Select version of Inspection objects type 4 Q-Inspection Product/Batch Inbound Del. and flag the checkbox in column *Activ. IOT*.

Maintain the following properties for the active IOT4 version:

Tech. Name Property	Level	Description Property
VERSION	1	Version IOT
LGNUM	2	Warehouse Number
INB_PROC	3	Inbound Inspection Process
DOCTYPE	4	Document Type
ITEMTYPE	5	Item Type
PARTYNO	6	Business Partner
PRODUCTID	7	Product
ENTITLED	8	Party Entitled to Dispose
QGRP	9	Quality Inspection Group
COO	10	Country of Origin
ICATLOCN	11	Non-Dep. Stock Type

Define Indexes for QIE Objects (EWM)

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Quality Management for Decentralized EWM → Basics and Integration → Define Indexes for QIE Objects* (View cluster VC_QIE_IDX)

To search inspection documents by attributes such as product, batch, or reference document number (REFDOCNO), you must define an appropriate search index.

Select in Dialog Structure *Index* and maintain:

Index	Software Component	Object Type	Process	Description	Insp. Docs
A	SCM_EWM[3]	PROD	INBCK_VERS0001[4]	Index for IOT4	Selected

Select for Index A in Dialog Structure *Properties* and maintain:

Property	Position	Property Type
LGNUM	1	1 General (Inspection Document, Sample, and Item)
VERSION	2	1 General (Inspection Document, Sample, and Item)
INB_PROC	3	1 General (Inspection Document, Sample, and Item)
PRODUCTID	4	1 General (Inspection Document, Sample, and Item)
CHARG	5	1 General (Inspection Document, Sample, and Item)
REFDOCCAT	6	1 General (Inspection Document, Sample, and Item)
REFDOCNO	7	1 General (Inspection Document, Sample, and Item)
REFITEMNO[5]	8	1 General (Inspection Document, Sample, and Item)

[3] Select Software Component SCM_EWM using search help and select entry fitting to your process i.e. the current version of your inspection object type, see in section 3.2.3.1 Maintain IOT Versions

[4] Version number can be different in your case

[5] Note that properties REFDOCCAT, REFDOCNO and REFITEMNO are required for inspection document summary. Inspection documents belonging to the same reference documents e.g. purchase order or manufacturing order need to be found.

Execute report QIE_INDEX_UPDATE in transaction *SA38* and select the same entries which were maintained before:

Index	Software Component	Object Type	Process
A	SCM_EWM	PROD	INBCK_VERS0001

If message “No Indexes for Deletion” appears, ignore it.

Defining Number Range for IOT (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning →Define Number Ranges for Inspection Documents* (View V_QIE_IDOC_NR)

Choose *Assign Number Ranges to Inspection Documents*.

Press in toolbar *New Entries*.

Number Range	No
SIOT4	04

Save your entries.

Define Item Types (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning →Samples and Items →Define Item Types* (View cluster VC_QIE_ITEM_TYPE)

Press in toolbar *New Entries*.

Element Type	Description	Software Component	Object Type	Process	No	Action Profile
SITM04	Item Type Inbound Delivery Inspection	SCM_EWM	PROD	INBCK_VERS0001	04	QIE_ELEMENT

Since there is no explicit search function for element types provided, the maintenance of the properties is not needed.

Activate IOT for your warehouse number (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Field	Value
Warehouse No.	*<W001>*
Insp. Obj. Type	*4*
Activ. InspObj.	*Selected*
Follw-UpAct. LF	*Inspection Planning at Goods Receipt*
Number Range	*SIOT4*
External System	*SAP_ERP_QM* [6]

[6] Leave fields External System and Installation empty if you are using QIE standalone in EWM, i.e. if you are not integrating to an external QM system e.g. ERP QM.

Field	Value
Installation	<SID_CLN> e.g *B9V_001*[7]
Item Type	*SITM04*
Change Pr/Batch	*Selected*
Qty Chg. All.	*Selected*
Decis. InspDoc	*Inspection Document Decided with Code of Elements*
Act. Decision	*Selected*
GR Control	*Not selected*
Prod. Presampling	*Not selected*
Acceptance Sampling	*Not selected*

Set up Master Data Synchronization (EWM) (Optional Step)

This setting is only relevant if EWM is integrated with QM in S/4HANA or SAP ERP.
New feature added in S/4HANA 1909 that reduces manual effort for maintaining inspection rules in decentral EWM on S/4HANA. The inspection setup maintained in the material master is distributed to the decentral EWM system and creates or updates in background required inspection rules.

The configuration steps are described in the application help, see
https://help.sap.com/viewer/product/SAP_S4HANA_ON-PREMISE:
select in section **Product Assistance** English
Navigate to Enterprise Business Applications→Supply Chain→Warehousing→Extended Warehouse Management (EWM)→Quality Management→Quality Management for Decentralized EWM→Master Data Synchronization

Make the required settings for IDoc Inbound processing:
You can use the preconfigured settings in the business configuration (BC) set **EWM-QM Material MD Synch. for Inbound Processes** (/SCWM/QM_MASTER_DATA_SYNC_IDOC). To activate BC Sets, on the launchpad choose *Tools→Customizing→Business Configuration Sets→Activation of BC Sets* (Transaction SCPR20).

Maintain a partner profile for the logical system (Partner Type LS) in the Partner Profiles app. On the launchpad, choose *Logistics→Logistics Execution→Internal Whse Processes→Communication with External Systems→ALE Administration→Runtime Settings→Partner Profiles* (Transaction WE20).
Maintain the inbound parameters for message type MATQM and process code /SCWM/MATQM.

IMG: *Extended Warehouse Management --> Cross-Process Settings --> Quality Management --> Quality Management for Decentralized EWM --> Basics and Integration --> Communication with an External QM System --> Define Insp. Rule Settings for Inbound Inspections (IOT 4)* (View /SCWM/TQDEFVAL)

[7] See previous footnote.

Inspection Type	IOT	Insp Proc.	Number Range	Decision Code Group	Decision Code Group Item	Indep. Stk Ty.	Step	Insp. Ctrl
1701	*4*	*0 Inspection After Goods Receipt*	*SIOT4*	*EWMIOT4*	*EWMIOT4*	*QQ*	*QIS*	*Q One Insp. For Prod./Batch and Ref Doc. (PO/Manuf. Order)*

Define Decision Codes (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Define Decision Codes* (View cluster VC_QIE_DECI_CODES)

Choose in Dialog Structure *Decision Codes*.

Press in toolbar *New Entries*.

Decision Code	Description	Valuation	QScore	Follow-Up Action
ACC1	Accepted-unrestricted stock	A Accept	100	ACC1
ACC2	Accepted-putaway	A Accept	100	ACC2
ACC3	Accepted-detailed inspection (IOT5)	A Accept	50	ACC3
ACC4	Accepted-stock transfer to other Whse	A Accept	50	ACC4
REJ1	Rejected-blocked stock	R Reject	5	REJ1
REJ2	Rejected-scrapping	R Reject	1	REJ2
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION	A Accept	50	BADI

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT4	*EWM: InbDlv inspection after GR*

Press *Save*.

Select Code Group EWMIOT4 and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Enter new entries for following Codes:

- ACC1
- ACC2
- ACC3
- ACC4
- BADI
- REJ1
- REJ2

Press ok and automatically, *Code*, *Description* and *Valuation* for code are taken over.

Select code ACC2 as *CodeAuto*.

Decision Code	CodeAuto
ACC1	

Decision Code	CodeAuto
ACC2	*X*
ACC3	
ACC4	
BADI	
REJ1	
REJ2	

Press *Save*.

Maintain Follow-Up Actions (EWM)

IMG: *Extended Warehouse Management →Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Maintain Follow-Up Actions* (View cluster /SCWM/VC_QFUCODE)

Choose in Dialog Structure *Follow-Up Actions*.

Press in toolbar *New Entries*.

FollUpActn	Follow-Up Action
ACC1	Accepted-unrestricted stock
ACC2	Accepted-putaway
ACC3	Accepted-detailed inspection (IOT5)
ACC4	Accepted-stock transfer to other Whse
REJ1	Rejected-blocked stock
REJ2	Rejected-scrapping
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION

Select for each row of following table the follow-up action and go in Dialog Structure to *Follow-Up Actions for Quality Results*:

Press in toolbar *New Entries*.

Warehouse No	Follow-Up Action	Insp. Obj. Type	Internal Action	Non-Dep- Stk-Tpe	Whse Proc. Type
W001	ACC1	4		FF	
W001	ACC2	4	4 Put Away	FF	
W001	ACC3	4	2 Detailed Inspection	BB	
W001	ACC4	4	3 Stock Transfer to Different Warehouse	FF	
W001	REJ1	4	1 Blocked Stock	BB	
W001	REJ2	4	1 Blocked Stock	BB	P425
W001	BADI	4	X BAdI Follow-Up Action	FF	

Save after each step.

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT4	*EWM: InbDlv inspection after GR*

Press *Save*.

Select Code Group *EWMIOT4* and choose in Dialog Structure *Assign Follow-Up Actions*.

Press in toolbar *New Entries*.

Enter new entries for following Follow-Up Actions in column *FollUpActn*:

- ACC1
- ACC2
- ACC3
- ACC4
- REJ1
- REJ2
- BADI

Press *Save*.

Settings in ERP System when integrating with ERP QM

Edit Code Groups and Codes (ERP)

Only required when integrating with ERP QM.

IMG: *Quality Management →Quality Inspection →Inspection Lot Completion →Maintain Catalogs for Usage Decisions* (Transaction *QS41*)

Choose *Edit Code Groups and Codes*.

Choose *Catalog 3 Usage decisions*. Press *Create/Change*.

Choose in Dialog Structure *Code Groups*.

Press in toolbar *New Entries.*

Code group	Short text	Status
EWM	*UD Codes integrated with EWM*	*2 Released*

Select newly created code group *EWM* and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Code	Description
ACC1	Accepted-unrestricted stock
ACC2	Accepted-putaway
ACC3	Accepted-detailed inspection (IOT5)
ACC4	Accepted-stock transfer to other Whse
REJ1	Rejected-blocked stock
REJ2	Rejected-scrapping
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION

Save entries.

Edit Selected Sets (ERP)

IMG: *Quality Management →Quality Inspection → Inspection Lot Completion → Maintain Catalogs for Usage Decisions* (Transaction *QS51*)

Choose *Edit Selected Sets*.

Choose your *plant*.

Choose *Catalog 3 Usage decisions* and your *plant*.

Press *Create/Change*.

Choose in Dialog Structure *Selected Sets*.

Press in toolbar *New Entries*.

Selected Set	Short text	Status
EWMIOT4	*EWM: InbDlv inspection after GR*	*2 Released*

Save and select your new entries.

For *EWMIOT4*, choose in Dialog Structure *Selected Set Codes*.

Press in toolbar *New Entries*.

Use search help (F4-help) for a new data set in column Code group and select from Code group EWM following Codes

- ACC1
- ACC2
- ACC3
- ACC4
- REJ1
- REJ2
- BADI

Press ok and automatically, Code group, Code and Short text for code are taken over

Add following attribute values for *Valuation Code* and *Q-Score* for each data set:

Code group	Code	Valuation Code	QScore
EWM	ACC1	A Accepted (Ok)	100
EWM	ACC2	A Accepted (Ok)	100
EWM	ACC3	A Accepted (Ok)	50
EWM	ACC4	A Accepted (Ok)	50
EWM	REJ1	R Rejected (not OK)	5
EWM	REJ2	R Rejected (not OK)	1
EWM	BADI	A Accepted (Ok)	50

Maintain Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Maintain Inspection Types* (View V_TQ30)

Inspection Type	
1701	*EWM: Goods Receipt Insp. for Pur. Order*
Inspection lot processing	
UD selected set	*EWMIOT4*
Selected Set in Sample Plant	*Selected*
Inspection Results	
Recording view	*Single values and summarized results (default view)*
Notification type	*F2*
Inspection planning	

Inspection Type	
Task list usage	*9*

Maintain Inspection Lot Origins and Assign Inspection Types (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Maintain Inspection Lot Origins and Assign Inspection Types* (View cluster V_TQ33_CL)

Select Inspection Lot Origin 17 and go to *Origin →Inspection types for the Origin*.

Add entry:

Variant 02 InspType 1701

Define Default Values for Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Define Default Values for Inspection Type* (View V_TQ34)

Inspection Type 1701

100% Inspection flagged

Skips allowed flagged

Automatic usage decision flagged

Q score procedure 06 From usage decision code

Avg. insp. duration 2

Activate Business Transaction Event QBEXT (ERP)

IMG: *Quality Management →Environment →Tools →Communication with Quality Inspection Engines →Activation of Events for Transferring QM Data in Procurement →Activation of BTE Application* (Transaction *FIBF*)

In the menu, select *Settings →Identification →SAP Applications.*

Click on message popup “Caution: The table is cross-client” ok.

Verify that the Application ID QBEXT is active.

Additional Settings for Partial Quantity Decision (ERP)

Transaction *BD97.*

When using button *EWM Inspection* in transaction QA11, it might occur that the wrong EWM system is displayed.

According to SAP Note 2254682, add an entry for the EWM RFC Destination:

Choose *New Standard Dialog Destination.*

Receiver/Server	RFC Destination for Dialog Calls
<RFC Destination> e.g. QKXCLNT131	*<RFC Destination> e.g. QKXCLNT131*

3.2.3.2 Acceptance Sampling

Activate Acceptance Sampling for your Warehouse Number (EWM)

To activate Acceptance Sampling, you need to maintain all settings relevant for IOT4 as described above.

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Activate Acceptance Sampling.

Inspection Type	
Warehouse No.	*<W001>*
Insp. Obj. Type	*4*
Acceptance Sampling	*Selected*

You add decision code ACC5 for *Accepted - with reservation* to the codes you already maintained before and activate acceptance sampling.

Set up Master Data Synchronization (EWM) (Optional Step)

See equivalent step in chapter 3.2.3.1. Following setting is specific for process Acceptance Sampling:

IMG: *Extended Warehouse Management --> Cross-Process Settings --> Quality Management --> Quality Management for Decentralized EWM --> Basics and Integration --> Communication with an External QM System --> Define Insp. Rule Settings for Inbound Inspections (IOT 4)* (View /SCWM/TQDEFVAL)

Inspection Type	IOT	Insp Proc.	Number Range	Decision Code Group	Decision Code Group Item	Indep. Stk Ty.	Step	Insp. Ctrl
1701	*4*	*1 Acceptance Sampling*	*SIOT4*	*EWMIOT4*	*EWMIOT4*	*QQ*	*QIS*	*Q One Insp. For Prod./Batch and Ref Doc. (PO/Manuf. Order)*

Define Decision Codes (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Define Decision Codes* (View cluster VC_QIE_DECI_CODES)

Choose in Dialog Structure *Decision Codes*.

Press in toolbar *New Entries*.

Decision Code	Description	Valuation	QScore	Follow-Up Action
ACC5	Accepted - with reservation	A Accept	50	ACC5

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT4	*EWM: InbDlv inspection after GR*

Press *Save*.

Select Code Group EWMIOT4 and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Enter new entries for following Codes:

- ACC5

Press ok and automatically *Code*, *Description* and *Valuation* for code are taken over.

Press *Save*.

Maintain Follow-Up Actions (EWM)

IMG: *Extended Warehouse Management → Extended Warehouse Management → Cross-Process Settings → Quality Management → Quality Management for Decentralized EWM → Inspection Results → Maintain Follow-Up Actions* (View cluster /SCWM/VC_QFUCODE)

Choose in Dialog Structure *Follow-Up Actions*.

Press in toolbar *New Entries*.

FollUpActn	Follow-Up Action
ACC5	Accepted-with reservation

Select for each row of following table the follow-up action and go in Dialog Structure to *Follow-Up Actions for Quality Results*:

Press in toolbar *New Entries*.

Warehouse No	Follow-Up Action	Insp. Obj. Type	Internal Action	Non-Dep-Stk-Tpe	Whse Proc. Type
W001	ACC5	4	7 Allow GR After Early Inspection with Reservation	BB	

Save after each step.

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT4	*EWM: InbDlv inspection after GR*

Press *Save*.

Select Code Group EWMIOT4 and choose in Dialog Structure *Assign Follow-Up Actions*.

Press in toolbar *New Entries*.

Enter new entries for following Follow-Up Actions in column *FollUpActn*:

- ACC5

Press *Save*.

Settings in ERP System when integrating with ERP QM

Edit Code Groups and Codes (ERP)

IMG: *Quality Management → Quality Inspection → Inspection Lot Completion → Maintain Catalogs for Usage Decisions* (Transaction *QS41*)

Choose *Edit Code Groups and Codes*.

Choose Catalog *3 Usage decisions*. Press *Create/Change*.

Choose in Dialog Structure *Code Groups*.

Press in toolbar *New Entries*.

Code group	Short text	Status
EWM	*UD Codes integrated with EWM*	*2 Released*

Select newly created code group *EWM* and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Code	Description
ACC5	Accepted-with reservation

Save entries.

Edit Selected Sets (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Completion →Maintain Catalogs for Usage Decisions* (Transaction *QS51*)

Choose *Edit Selected Sets*.

Choose your *plant.*

Choose Catalog *3 Usage decisions* and your *plant*.

Press *Create/Change*.

Choose in Dialog Structure *Selected Sets*.

Press in toolbar *New Entries*.

Selected Set	Short text	Status
EWMIOT4	*EWM: InbDlv inspection after GR*	*2 Released*

Save and select your new entries.

For EWMIOT4, choose in Dialog Structure *Selected Set Codes*.

Press in toolbar *New Entries*.

Use search help (F4-help) for a new data set in column Code group and select from Code group EWM following Codes

- ACC5

Press ok and automatically Code group, Code and Short text for code are taken over

Add following attribute values for *Valuation Code* and *Q-Score* for each data set

Code group	Code	Valuation Code	QScore
EWM	ACC5	A Accepted (Ok)	50

3.2.3.3 Presampling in Production

Activate Presampling in Production for your Warehouse Number (EWM)

To activate Presampling in Production, you need to maintain all settings relevant for IOT4 as described above.

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Activate Presampling in Production.

Inspection Type	
Warehouse No.	*<W001>*
Insp. Obj. Type	*4*
Prod. Presampling	*Selected*

Set up Master Data Synchronization (EWM) (Optional Step)

See equivalent step in chapter 3.2.3.1. Following setting is specific for process Acceptance Sampling:

IMG: *Extended Warehouse Management --> Cross-Process Settings --> Quality Management --> Quality Management for Decentralized EWM --> Basics and Integration --> Communication with an External QM System --> Define Insp. Rule Settings for Inbound Inspections (IOT 4)* (View /SCWM/TQDEFVAL)

Inspection Type	IOT	Insp Proc.	Number Range	Decision Code Group	Decision Code Group Item	Indep. Stk Ty.	Step	Insp. Ctrl
1704	*4*	*2 Presampling in Production*	*SIOT4*	*EWMIOT4*	*EWMIOT4*	*QQ*	*QIS*	*Q One Insp. For Prod./Batch and Ref Doc. (PO/Manuf. Order)*

Settings in ERP System when integrating with ERP QM

Maintain Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Maintain Inspection Types* (View V_TQ30)

Inspection Type	
1704	*EWM: Goods Receipt Insp. from production*
Inspection lot processing	
UD selected set	*EWMIOT4*
Selected Set in Sample Plant	*Selected*
Inspection Results	
Recording view	*Single values and summarized results (default view)*
Notification type	*F2*
Inspection planning	
Task list usage	*9*

Maintain Inspection Lot Origins and Assign Inspection Types (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Maintain Inspection Lot Origins and Assign Inspection Types* (View cluster V_TQ33_CL)

Select Inspection Lot Origin 17 and go to *Origin →Inspection types for the Origin*.

Add entry:

Variant 03 InspType 1704

Define Default Values for Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Define Default Values for Inspection Type* (View V_TQ34)

Inspection Type 1704

100% Inspection flagged

Skips allowed flagged

Automatic usage decision flagged

Q score procedure 06 From usage decision code

Avg. insp. duration 2

Activate Business Transaction Event QBEXTP (ERP)

IMG: *Quality Management →Environment →Tools →Communication with Quality Inspection Engines → Activation of BTE Application for Transferring Manufacturing Order Data* (Transaction *FIBF*)

In the menu, select *Settings →Identification →SAP Applications*.

Click on message popup “Caution: The table is cross-client” ok.

Verify that the *Application ID* QBEXTP is active.

Report RQBPPEXT: Creation of Inspection Documents in EWM Systems for Orders

You execute the report to provide manufacturing order data for an external quality inspection in an EWM system in conjunction with SAP's Quality Inspection Engine (QIE).

This data can be used in the EWM system, for example, for the following functions:

- Determining if a quality inspection is to take place in the EWM before goods receipt
- Creating a corresponding inspection document in the EWM

The report is only relevant to materials with an active inspection type with the origin 17 (Extended Warehouse Inspection). In the standard system, this is inspection type 1704. If you are using a different inspection type, you can use the Business Add-In (BAdI) BADI_QPLEXT_PROCESS_EXT (external inspection enhancements) to determine the inspection type from production for the early inspection using the GET_INSPTYPE_4_PREPOD method in the IF_EX_QPLEXT_PROCESS_EXT interface.

Please read also the documentation of the report.

3.2.3.4 Goods Receipt Control

Activate Goods Receipt Control for your Warehouse Number (EWM)

To activate Goods Receipt Control, you need to maintain all settings relevant for IOT4 as described above.

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Basics and Integration → Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Activate GR Control.

Inspection Type	
Warehouse No.	*<W001>*
Insp. Obj. Type	*4*
GR Control	*Selected*

Activate Events for Transferring QM Data in Procurement (ERP)

IMG: *Quality Management → Environment → Tools → Communication with Quality Inspection Engine → Activation of Events for Transferring QM Data in Procurement → Event Type Linkage for QM Data in Procurement*

Activate event type linkages for the object type BUS2101 for the following events:

- CREATED
- CHANGED

Activate BTE Application (ERP)

IMG: *Quality Management → Environment → Tools → Communication with Quality Inspection Engine → Activation of Events for Transferring QM Data in Procurement → Activation of BTE Application* (Transaction *FIBF*)

Check that Function Module QBEXT_EVENT_MAT4QINF_CHANGED is registered for event 00001250 (Material Master Data: Post) and application indicator QBEXT:

In the menu, select *Settings → P/S Modules → …of an SAP Application* and check for the following entry:

Event	Appl.	Function Module
00001250	QBEXT	QBEXT_EVENT_MAT4QINF_CHANGED

Define Control Keys (SAP ECC & EWM)

IMG: *Quality Management → QM in Logistics → QM in Procurement → Define Control Keys* (View V_TQ08)

Define the following Control Key Entries in both systems:

QM Control Key	Short Text	Block Inactive	Message Mode
GRB_I	*GR-INFOMESSAGE*	*Not Selected*	*I Information*
GRB_W	*GR-WARNING*	*Not Selected*	*W Warning*

QM Control Key	Short Text	Block Inactive	Message Mode
GRB_E	*GR-DEFECTS*	*Not Selected*	*E Defects*

Define Delivery Block (SAP ECC & EWM)

IMG: *Quality Management →QM in Logistics →QM in Procurement →Define Delivery Block* (View V_TQ04A)

Define the following Delivery Block entry in both systems:

Block Function	
Block Function	*GR*
Short Text	*Goods Receipt Block*
Goods Receipt	*Selected*

3.2.4 Warehouse Internal Inspection (IOT5)

3.2.4.1 Stock Inspection (IOT5)

Generate IOT Version (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Generate Inspection Object Types Version* (View /SCWM/V_TQIOT)

CAUTION: When generating a new version of an IOT, all inspection rules of the old version are deactivated and need to be copied to the new version. Therefore, you need to be sure if you really need to create a new version in case a version already exists. This is especially critical in a productive system.

Select IOT5 and press *Generate New Version*.

Maintain IOT Versions (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Maintain Inspection Object Types Version* (View cluster /SCWM/VC_QIOT)

Activate version for IOT 5. Select version of “Inspection object type 5 Q-Inspection Q-Inspection Product/Batch Whse-Internal” and flag the checkbox in column *Activ. IOT*.

Maintain the following properties for the active IOT5 version:

Define Indexes for QIE Objects (EWM)

Tech. Name Property	Level	Description Property
VERSION	1	Version IOT
LGNUM	2	Warehouse Number
INSP_PROC_WHS	3	Warehouse-Internal Inspection Process
PRODUCTID	4	Product
ENTITLED	5	Party Entitled to Dispose
QGRP	6	Quality Inspection Group
COO	7	Country of Origin
ICATLOCN	8	Non-Dep. Stock Type

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Quality Management for Decentralized EWM → Basics and Integration → Define Indexes for QIE Objects* (View cluster VC_QIE_IDX)

To search inspection documents by attributes such as product, batch, or reference document number (REFDOCNO), you must define an appropriate search index.

Select in Dialog Structure *Index* and maintain:

Index	Software Component	Object Type	Process	Description	Insp. Docs
E	SCM_EWM[8]	PROD	EXTER_VERS0001[9]	Index for IOT5	Selected

Select for Index E in Dialog Structure *Properties* and maintain:

Property	Position	Property Type
VERSION	1	1 General (Inspection Document, Sample, and Item)
LGNUM	2	1 General (Inspection Document, Sample, and Item)
PRODUCTID	3	1 General (Inspection Document, Sample, and Item)
CHARG	4	1 General (Inspection Document, Sample, and Item)
LGPLA	5	1 General (Inspection Document, Sample, and Item)

Execute report QIE_INDEX_UPDATE in transaction *SA38* and select the same entries which were maintained before:

Index	Software Component	Object Type	Process
E	SCM_EWM	PROD	EXTER_VERS0001

If message “No Indexes for Deletion” appears, ignore it.

Defining Number Range for IOT (EWM)

IMG: *Extended Warehouse Management → Cross-Process Settings → Quality Management → Quality Management for Decentralized EWM → Inspection Planning → Define Number Ranges for Inspection Documents* (View V_QIE_IDOC_NR)

Choose *Assign Number Ranges to Inspection Documents*.

[8] Select Software Component SCM_EWM using search help and select entry fitting to your process i.e. the current version of your inspection object type, see in section 3.2.4.2

[9] Version number can be different in your case

Press in toolbar *New Entries*.

Number Range	No
SIOT5	05

Save your entries.

Define Item Types (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning →Samples and Items →Define Item Types* (View cluster VC_QIE_ITEM_TYPE)

Press in toolbar *New Entries*.

Element Type	Description	Software Component	Object Type	Process	No	Action Profile
SITM05	Item Type Warehouse-Internal	SCM_EWM	PROD	EXTER_VERS0001	05	QIE_ELEMENT

Since there is no explicit search function for element types provided, the maintenance of the properties is not needed.

Activate IOT for your warehouse number (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Inspection Type	
Warehouse No.	*<W001>*
Insp. Obj. Type	*5*
Activ. InspObj.	*Selected*
Follw-UpAct. LF	*Inspection Planning at Goods Receipt*
Number Range	*SIOT5*
External System	*SAP_ERP_QM*[10]
Installation	*<SID_CLN>* e.g. *B9V_001*[11]
Item Type	*SITM05*
Change Pr/Batch	*Selected*
Qty CHg. All.	*Selected*
Decis. InspDoc	*Inspection Document Decided with Code of Elements*
Act. Decision	*Selected*
GR Control	*Not selected*

[10] Leave fields External System and Installation empty if you are using QIE standalone in EWM, i.e. if you are not integrating to an external QM system e.g. ERP QM.

[11] See previous footnote.

Set up Master Data Synchronization (EWM) (Optional Step)

See equivalent step in chapter 3.2.3.1. Following setting is specific for process stock inspection:

IMG: *Extended Warehouse Management --> Cross-Process Settings --> Quality Management --> Quality Management for Decentralized EWM --> Basics and Integration --> Communication with an External QM System --> Define Insp. Rule Settings for Whse-Internal Insp. (IOT 5)* (View /SCWM/TQDEFVALWH)

Inspection Type	IOT	Insp Proc.	Number Range	Decision Code Group	Decision Code Group Item	Indep. Stk Ty.
1708	*5*	*0 Stock Inspection*	*SIOT5*	*EWMIOT5*	*EWMIOT5*	*QQ*

Define Decision Codes (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Define Decision Codes* (View cluster VC_QIE_DECI_CODES)

Choose in Dialog Structure *Decision Codes*.

Press in toolbar *New Entries*.

Decision Code	Description	Valuation	QScore	Follow-Up Action
ACC1	Accepted-unrestricted stock	A Accept	100	ACC1
ACC3	Accepted-detailed inspection (IOT5)	A Accept	50	ACC3
REJ1	Rejected-blocked stock	R Reject	5	REJ1
REJ2	Rejected-scrapping	R Reject	1	REJ2
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION	A Accept	50	BADI

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT5	*EWM: Stock Inspection*

Press *Save*.

Select Code Group EWMIOT5 and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Enter new entries for following Codes:

- ACC1
- ACC3
- REJ1
- REJ2
- BADI

Press ok and automatically, *Code*, *Description* and *Valuation* for code are taken over.

Select code ACC1 as *CodeAuto*.

Decision Code	CodeAuto
ACC1	*x*
ACC3	

Decision Code	CodeAuto
BADI	
REJ1	
REJ2	

Press *Save*.

Maintain Follow-Up Actions (EWM)

IMG: *Extended Warehouse Management → Extended Warehouse Management →Cross-Process Settings → Quality Management →Quality Management for Decentralized EWM →Inspection Results →Maintain Follow-Up Actions* (View cluster /SCWM/VC_QFUCODE)

Choose in Dialog Structure *Follow-Up Actions*.

Press in toolbar *New Entries*.

FollUpActn	Follow-Up Action
ACC1	Accepted-unrestricted stock
ACC2	Accepted-putaway
ACC3	Accepted-detailed inspection (IOT5)
REJ1	Rejected-blocked stock
REJ2	Rejected-scrapping
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION
NONE	

Select for each row of the following table the follow-up action and go in Dialog Structure to *Follow-Up Actions for Quality Results*:

Press in toolbar *New Entries*.

Warehouse No	Follow-Up Action	Insp. Obj. Type	Internal Action	Non-Dep-Stk-Tpe	Whse Proc. Type
W001	ACC1	5		FF	
W001	ACC3	5	2 Detailed Inspection	BB	
W001	REJ1	5	1 Blocked Stock	BB	
W001	REJ2	5	1 Blocked Stock	BB	P425
W001	BADI	5	X BAdI Follow-Up Action	FF	

Save after each step.

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT5	*EWM: Stock Inspection*

Press *Save*.

Select Code Group EWMIOT5 and choose in Dialog Structure *Assign Follow-Up Actions*.

Press in toolbar *New Entries*.

Enter new entries for following Follow-Up Actions in column *FollUpActn*:

- ACC1
- ACC3
- REJ1

- REJ2
- BADI

Settings in ERP when integrating with ERP QM

You only need these setting when integrating with ERP QM. You need to maintain code groups and codes and a selected set *EWMIOT5* in ERP (see corresponding section in 3.2.3.1). The codes contained in the selected set should correspond to the ones maintained in EWM.

Maintain Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Maintain Inspection Types* (View V_TQ30)

Inspection Type	
1708	*EWM: Stock transfer inspection*
Inspection lot processing	
UD selected set	*EWMIOT5*
Selected Set in Sample Plant	*Selected*
Inspection Results	
Recording view	*Single values and summarized results (default view)*
Notification type	*F3*
One QM Notification per Lot	*Selected*
Inspection planning	
Task list usage	*9*

Maintain Inspection Lot Origins and Assign Inspection Types (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation → Maintain Inspection Lot Origins and Assign Inspection Types*

Select inspection lot origin 17 and go to *Origin →Inspection types for the Origin*.

Add entry

Variant 04 InspType 1708

Define Default Values for Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Define Default Values for Inspection Type*

Inspection Type 1708

100% Inspection flagged

Skips allowed flagged

Automatic usage decision flagged

Q score procedure 06 From usage decision code

Avg. insp. duration 2

Edit Code Groups and Codes (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Completion →Maintain Catalogs for Usage Decisions* (Transaction *QS41*)

Choose *Edit Code Groups and Codes*.

Choose Catalog *3 Usage decisions*. Press *Create/Change*.

Choose in Dialog Structure *Code Groups*.

Press in toolbar *New Entries*.

Code group	Short text	Status
EWM	*UD Codes integrated with EWM*	*2 Released*

Select newly created code group *EWM* and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Code	Description
ACC1	Accepted-unrestricted stock
ACC3	Accepted-detailed inspection (IOT5)
REJ1	Rejected-blocked stock
REJ2	Rejected-scrapping
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION

Save entries.

Edit Selected Sets (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Completion →Maintain Catalogs for Usage Decisions* (Transaction *QS51*)

Choose *Edit Selected Sets*.

Choose your *plant*.

Choose Catalog *3 Usage decisions* and your *plant*.

Press *Create/Change*.

Choose in Dialog Structure *Selected Sets*.

Press in toolbar *New Entries*.

Selected Set	Short text	Status
EWMIOT5	*EWM: Stock Inspection*	*2 Released*

Save and select your new entries.

For EWMIOT5 choose in Dialog Structure *Selected Set Codes*.

Press in toolbar *New Entries*.

Use search help (F4-help) for a new data set in column Code group and select from Code group EWM following Codes:

- ACC1
- ACC3
- REJ1
- REJ2
- BADI

Press ok and automatically Code group, Code and Short text for code are taken over

Add following attribute values for *Valuation Code* and *Q-Score* for each data set:

Code group	Code	Valuation Code	QScore
EWM	ACC1	A Accepted (Ok)	100
EWM	ACC3	A Accepted (Ok)	50
EWM	REJ1	R Rejected (not OK)	5
EWM	REJ2	R Rejected (not OK)	1
EWM	BADI	A Accepted (Ok)	50

3.2.4.2 Recurring Inspection (IOT5)

The process is described in the application help, see
https://help.sap.com/viewer/product/SAP_S4HANA_ON-PREMISE:
select in section **Product Assistance** English
Navigate to Enterprise Business Applications→Supply Chain→Warehousing→Extended Warehouse Management (EWM)→Quality Management→Quality Management for Decentralized EWM→ Warehouse-Internal Inspections→ Recurring Inspections

The process requires batch managed materials.

The setup is the same as described for stock inspection in chapter 3.2.4.1.

In addition, you have assigned a valuation class containing the standard characteristic LOBM_QNDAT (next inspection date) to your batch using transaction CL02.

You have defined the inspection interval in the product/material master on the *Quality Management* view.

Set up Master Data Synchronization (EWM) (Optional Step)

See equivalent step in chapter 3.2.3.1. Following setting is specific for process stock inspection:

IMG: *Extended Warehouse Management --> Cross-Process Settings --> Quality Management --> Quality Management for Decentralized EWM --> Basics and Integration --> Communication with an External QM System --> Define Insp. Rule Settings for Whse-Internal Insp. (IOT 5)* (View /SCWM/TQDEFVALWH)

Inspection Type	IOT	Insp Proc.	Number Range	Decision Code Group	Decision Code Group Item	Indep. Stk Ty.
1709	*5*	*1 Recurring Inspection*	*SIOT5*	*EWMIOT5*	*EWMIOT5*	*QQ*

Settings in ERP when integrating with ERP QM

You only need these setting when integrating with ERP QM. You need to maintain code groups and codes and a selected set *EWMIOT5* in ERP (see corresponding section in 3.2.3.1). The codes contained in the selected set should correspond to the ones maintained in EWM.

Maintain Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Maintain Inspection Types* (View V_TQ30)

Inspection Type	
1709	*EWM: Recurring inspection of batches*
Inspection lot processing	
UD selected set	*EWMIOT5*
Selected Set in Sample Plant	*Selected*
Inspection Results	
Recording view	*Single values and summarized results (default view)*
Notification type	*F3*
One QM Notification per Lot	*Selected*
Inspection planning	
Task list usage	*9*

Maintain Inspection Lot Origins and Assign Inspection Types (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation → Maintain Inspection Lot Origins and Assign Inspection Types*

Select inspection lot origin 17 and go to *Origin →Inspection types for the Origin*.

Add entry

Variant 05 InspType 1709

Define Default Values for Inspection Type (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Creation →Define Default Values for Inspection Type*

Inspection Type 1709

100% Inspection flagged

Skips allowed flagged

Automatic usage decision flagged

Q score procedure 06 From usage decision code

Avg. insp. duration 2

Edit Code Groups and Codes (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Completion →Maintain Catalogs for Usage Decisions* (Transaction *QS41*)

Choose *Edit Code Groups and Codes*.

Choose Catalog *3 Usage decisions*. Press *Create/Change*.

Choose in Dialog Structure *Code Groups*.

Press in toolbar *New Entries*.

Code group	Short text	Status
EWM	*UD Codes integrated with EWM*	*2 Released*

Select newly created code group *EWM* and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Code	Description
ACC1	Accepted-unrestricted stock
ACC3	Accepted-detailed inspection (IOT5)
REJ1	Rejected-blocked stock
REJ2	Rejected-scrapping
BADI	Call BAdI /SCWM/EX_QFU_STOCK_ACTION

Save entries.

Edit Selected Sets (ERP)

IMG: *Quality Management →Quality Inspection →Inspection Lot Completion →Maintain Catalogs for Usage Decisions* (Transaction *QS51*)

Choose *Edit Selected Sets*.

Choose your *plant*.

Choose Catalog *3 Usage decisions* and your *plant*.

Press *Create/Change*.

Choose in Dialog Structure *Selected Sets*.

Press in toolbar *New Entries*.

Selected Set	Short text	Status
EWMIOT5	*EWM: Stock Inspection*	*2 Released*

Save and select your new entries.

For EWMIOT5 choose in Dialog Structure *Selected Set Codes*.

Press in toolbar *New Entries*.

Use search help (F4-help) for a new data set in column Code group and select from Code group EWM following Codes:

- ACC1
- ACC3
- REJ1
- REJ2
- BADI

Press ok and automatically Code group, Code and Short text for code are taken over

Add following attribute values for *Valuation Code* and *Q-Score* for each data set:

Code group	Code	Valuation Code	QScore
EWM	ACC1	A Accepted (Ok)	100
EWM	ACC3	A Accepted (Ok)	50
EWM	REJ1	R Rejected (not OK)	5
EWM	BADI	A Accepted (Ok)	50

3.2.5 Preliminary HU Inspection (IOT6)

3.2.5.1 Generate IOT Version (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Generate Inspection Object Types Version* (View /SCWM/V_TQIOT)

CAUTION: When generating a new version of an IOT, all inspection rules of the old version are deactivated and need to be copied to the new version. Therefore, you need to be sure if you really need to create a new version in case a version already exists. This is especially critical in a productive system.

Select IOT 6 and press *Generate New Version*.

3.2.5.2 Maintain IOT Versions (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics and Integration →Maintain Inspection Object Types Version* (View cluster /SCWM/VC_QIOT)

Activate version for IOT 6. Select version of Inspection objects type *6 Preliminary HU Inspection* and flag the checkbox select in column *Activ. IOT*.

Maintain the following properties for the active IOT6 version:

Tech. Name Property	Level	Description Property
VERSION	1	Version IOT
LGNUM	2	Warehouse Number

3.2.5.3 Define Indexes for QIE Objects (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Basics and Integration →Define Indexes for QIE Objects* (View cluster VC_QIE_IDX)

To search inspection documents by attributes such as product, batch, or reference document number (REFDOCNO), you must define an appropriate search index.

Select in Dialog Structure *Index* and maintain:

Index	Software Component	Object Type	Process	Description	Insp. Docs
A	SCM_EWM[12]	HU	EXTER_VERS0001	Index for IOT6	Selected

Select in Dialog Structure *Properties* and maintain:

Property	Position	Property Type
LGNUM	1	1 General (Inspection Document, Sample, and Item)
VERSION	2	1 General (Inspection Document, Sample, and Item)
EXCCODE	3	1 General (Inspection Document, Sample, and Item)
HUIDENT	4	1 General (Inspection Document, Sample, and Item)

Execute report QIE_INDEX_UPDATE in transaction SA38 and select

[12] Select Software Component SCM_EWM using search help and select entry fitting to your process i.e. the current version of your inspection object type, see in section 0

Index	Software Component	Object Type	Process
A	SCM_EWM[13]	HU	EXTER_VERS0001

If message “No Indexes for Deletion” appears ignore it.

3.2.5.4 Define Number Range for IOT (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning → Define Number Ranges for Inspection Documents* (view V_QIE_IDOC_NR)

Choose *Assign Number Ranges to Inspection Documents*.

Press in toolbar *New Entries*.

Number Range	No
SIOT6	06

Save your entries.

3.2.5.5 Define Item Types (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Planning →Samples and Items →Define Item Types* (View cluster VC_QIE_ITEM_TYPE)

Choose in Dialog Structure *Item Type*.

Press in toolbar *New Entries*.

Element Type	Description	Software Component	Object Type	Process	No	Action Profile
SITM06	Item Type Preliminary HU Inspection	SCM_EWM[14]	HU	EXTER_VERS0001	06	QIE_ELEMENT

Since there is no explicit search function for element types provided by EWM, the maintenance of the properties on item type level is not needed.

3.2.5.6 Activate IOT for your warehouse number (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Basics →Warehouse-Dependent Activation of Inspection Object Type* (View /SCWM/QIOTWM)

Inspection Type	
Warehouse No.	*<W001>*
Insp. Obj. Type	*6*
Activ. InspObj.	*Selected*

[13] Select Software Component SCM_EWM using search help and select entry fitting to your process i.e. the current version of your inspection object type, see in section 0

[14] Select Software Component SCM_EWM using search help and select entry fitting to your process i.e. the current version of your inspection object type, see in section 0

Inspection Type	
Follw-UpAct. LF	*Inspection Planning at Goods Receipt*
Number Range	*SIOT6*
Item Type	*SITM06*

3.2.5.7 Define Decision Codes (EWM)

IMG: *Extended Warehouse Management →Cross-Process Settings →Quality Management →Quality Management for Decentralized EWM →Inspection Results →Define Decision Codes* (View cluster VC_QIE_DECI_CODES)

Choose in Dialog Structure *Decision Codes*.

Check if following Codes are maintained

Decision Code	Description	Valuation	QScore	Follow-Up Action
NONE	No Follow-Up Action	A Accept	100	NONE

Choose in Dialog Structure *Code Group*.

Press in toolbar *New Entries*.

Code Group	Description
EWMIOT6	*Preliminary Inspection Handling Unit*

Press *Save*.

Select Code Group EWMIOT6 and choose in Dialog Structure *Codes*.

Press in toolbar *New Entries*.

Enter new entries for following Codes:

- NONE

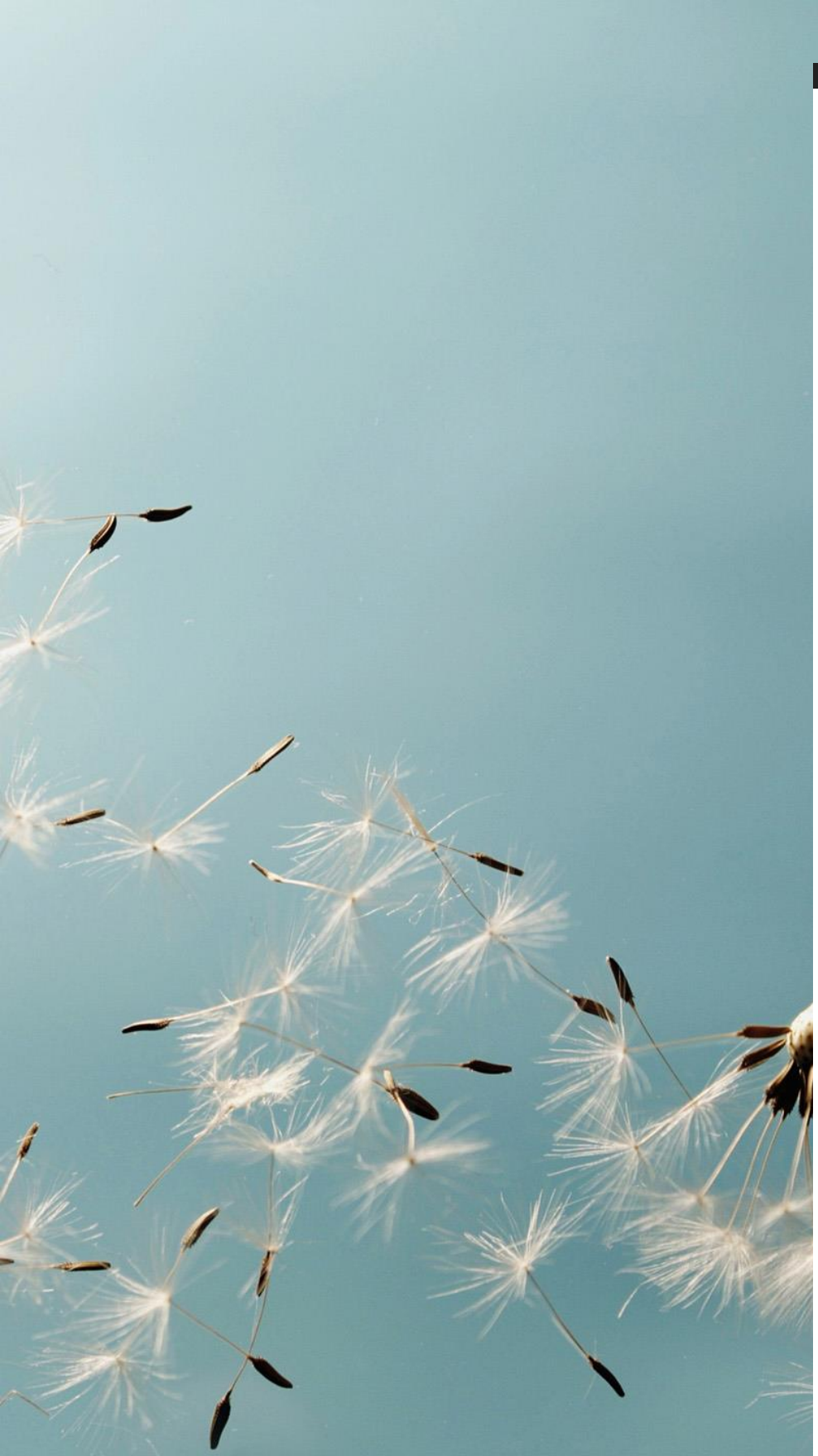
Press ok and automatically *Code*, *Description* and *Valuation* for code are taken over.

Set radio button *CodeAuto*.

Press *Save*.

3.2.5.8 Maintain Follow-up Actions (EWM)

Same follow-up Action NONE as in section 3.2.1.8.



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