

QuantityWare Working Paper

QuantityWare Integration into SAP CCMS Alert-Monitor

Version History

Version	Date	Description
00	2021-07-21	Initial Version
01	2021-07-28	Modern QW document style applied
02	2023-11-01	Editorial revision and confirmation

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1. Introduction & Summary

The SAP Computing Center Management System provides a special alert monitor for SAP NetWeaver Process Integration (PI). This alert monitor can be used to centrally monitor the PI components running on AS ABAP and AS Java (including the Business Process Engine). You can also use it to identify different categories of system errors and application errors in various interfaces and interface namespaces of the components involved.

Besides providing information on monitored components, the alert monitor also provides information about PI-relevant qRFC queues. These queues ensure that PI messages are processed once only and in chronological order.

The CCMS Alert Monitor provides the following features:

Automated, central monitoring that does not require any administration tasks, except where alerts occur.

- Proactive monitoring by means of alerts that are triggered as soon as a particular threshold value is not reached or is exceeded.
- Support for problem solving through predefined analysis functions, which you can use to identify and remove the cause of an alert in a specific component.

For more information, see <u>Monitoring Using CCMS - SAP Documentation - SAP Help Portal</u>.

With this configuration, QuantityWare (QW) offers a collection of SAP CMMS Alert-Monitor (transaction RZ20) monitor sets allowing observation, notification, and analysis of critical business events such as:

- Expiring QW Usage Keys
- Failing QW Installation Tests
- Failing QW Test Scenarios
- Business Document Analysis

This configuration set is shipped with QuantityWare 3.0A CSP02 / 3.0B CSP01.

In this working paper, we provide technical and practical implementation guidelines.

2. Prerequisites

Software components

This configuration set may be applied on SAP Oil, Gas, & Energy platforms where the QuantityWare Software has been installed. For all currently supported combinations see <u>Note 000086 "Support and</u> <u>Release (Lifecycle) details"</u> page 2, "Release Lifecycle" on our internet portal.



This software has not been released for a Solution Manager-based central CCMS Monitor.

According to <u>SAP note 176492 'Automatic email when an alert occurs (RZ20)'</u> dispatchers for collector & auto-reaction methods run only in client '000', consequently ensure you perform the **Installation** and **E-Mail Alerting Configuration** in client '000'.

3. Installation

3.1. The CCMS Monitor

The CCMS monitor is reached using transaction RZ20 -> CCMS monitor sets ->SAP CCMS Technical Expert Monitors -> All Monitoring Contexts where you find the QuantityWare specific tree, once the selfregistration program /QTYW/CCMS_MONITOR has been successfully executed using transaction SA38.

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		Client At least one material document (4900000109 2008) with error(s), check log: 010MKPF4900000109200 client Client () client)8(
		Inventory Document Analysis # # Delivery Document Analysis # #	



3.2. Explanation of Node Types of the Monitor Tree Elements (MTE)

We use "object" and "status" nodes – we will be referring to these throughout this working paper.

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Nodes which have no assigned node type e.g., "Installation Test" or "My Test Scenarios", we will refer to as "topic" nodes.



3.3. Activate the CCMS Monitor "maintenance function"

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					Help >	Legend (Shift+F1)					
	Installation Test My Test Scenarios Discuss Cocument Analysis				SAP GUI settings and actions						

3.4. Initial Registration and Manual Collector Start

The initial registration of the monitor tree is performed by executing report /QTYW/CCMS_MONITOR. After this has completed successfully, we can see that functionalities behind an alert (tree element), such as the analysis methods, are not executable.

To complete the tree elements configuration, you must run the collectors manually.

3.5. CCMS Monitor "Start data collection method".

Select the first status node and run the collection method manually via the menu for each topic.

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4 Node display off	Goto >	Selections >
Quantityware Monitor	Properties (Shift+F7)	Nodes (MTE) >
-Co Usage Key Validity	Assign workgroup	Alerts >
- Do Bulk Calculations - Gas # 24	Display details (Shift+F6)	Show node (MTE) for alert
	Display MTE description (F1)	Eind (Ctrl+F)
	Log on to SAP System (Ctrl+Shift+F1)	Find next (Ctrl+G)
D Bulk Calculations - Gas # B Bulk Calculations - Petroleum # B	Analyze SAP System (Ctrl+Shift+F2)	Cancel (F12)
Gient(10) © Last installation test execution without error :-) . Green 21.04.2021 . 11:49:10	Assign methods >	
client() [2] At least one installation test with error(s), check log: 20191007 144216 BCP, Red 21.04.2021, 11:49:10	Start methods >	Start analysis method (Ctrl+F10)
client() = Last installation test execution without error :-)	Delete (Shift+F2)	Start data collection method
Green 21.04.2021 , 11:49:10	Reset	Start auto-reaction method
- CO Wy Test Scenarios	Activate	

A successful run results in a new time stamp.

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	client() 🖾 Last installa	ation test execution without error :-) , Green 21.04.2021 , 11:49:10 ation test execution without error :-) , Green 21.04.2021 , 11:49:10
	Client (Last install	ation test execution without error :-) , Green 21.04.2021 , 11:49:10

Manually run the collector method for each topic node:

- Usage Key Validity
- Installation Test
- My Test Scenarios
- Material Document Analysis
- Phys. Inventory Document Analysis
- Phys. Inventory Document Analysis
- Delivery Document Analysis

... and verify the time stamp has been changed for all status nodes run.



3.6. Recommended Monitor Settings:

The self-registration program must be used to register the alert tree however, an automatic refresh is recommended. Again, be sure to CCMS Monitor "Start data collection method".

Mark the first status node of the first object node and call 'Properties (Shift + F7)'. The value for the attribute 'Start the data collection method every' on the 'Method' tab strip should be set to 300 seconds.

Save your changes and select the standard SAP variant "*" as well as all relevant customer variants.

For each topic node, proceed as described above.

Verify your settings by changing to the 'Status Data Collector' view, where the actual runtime configurations are displayed.



'Usage Key Validity' - exception!

Customers using our Compliance & Transparency products for Petroleum and/or Gas (CTP / CTG), should skip this step as these products may be used without a valid usage key.

Previously, we recommended that the data collection method interval value 'Start the data collection method every' on the 'Status attribute' is set to '300'; for the "Usage Key Validity" topic node, a value of '86400' seconds (once a day) is more appropriate.

On the 'Status attribute' tab, if the attribute 'When should a message cause an alert?' has been set to 'Always (at every message)', for all status attribute nodes of the topic node 'Usage Key Validity' the value should be changed to 'Message value (color) has changed'.

Save your changes and select the standard SAP variant "*" as well as all relevant customer variants.

Perform this procedure for each of the status attribute node found under the node objects:

- 'Bulk Calculations Gas'
- 'Bulk Calculations Petroleum'.

3.7. User Maintenance – Roles

Add the following roles as described in chapter Authorizations and Roles.

Background reports to schedule:

The agents are programs scheduled as background jobs in the observed clients.

3.8. The Agents

The agents are programs listed in same order as in the CCMS monitor tree:

The usage key does not require an agent, as this information is a runtime variable and therefore available to the collector.

• /QTYW/INSTALLATION_TEST

Measurement Cockpit: Run QuantityWare Installation Test.

• /QTYW/MY_TEST_R

Measurement Cockpit: Run My Scenarios.

• /QTYW/CCMS_CREATE_LOG_MATDOC

Alert Monitor: Persist the appl.log of the material document analysis.

• /QTYW/CCMS_CREATE_LOG_INVDOC

Alert Monitor: Persist the appl.log of the inventory document analysis.

• /QTYW/CCMS_CREATE_LOG_DELDOC

Alert Monitor: Persist the appl. log of the delivery document analysis.

Depending on the level of customer-perceived criticality, background schedule timeframes should be configured based on use- and business-cases.

Example: If your transport release cycle is weekly, it would be sensible to schedule the "Run My Scenarios" report /QTYW/MY_TEST_R after such imports into landscape systems (e.g., the Quality system(s)) as you will then receive an alert if development has impacted your customer defined QW Test Scenarios.

The report /QTYW/INSTALLATION_TEST 'Measurement Cockpit: Run QuantityWare Installation Test' is a part of the QuantityWare installation procedure. It is designed only to be executed in client 045 (which should not be modified or changed in any manner by the customer). It is usually only run to confirm that the installation has completed successfully and is not intended to be scheduled periodically.

If intensive gatekeeper alerting is configured to prevent an extensive manual correction effort for inconsistent business documents, the execution runtimes and the schedule times must be considered, as parallel job executions for agent programs are not possible and runtimes depend on the number and complexity of documents posted.

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Only documents from the last job execution date will be processed – with a maximum period of 7 days. i.e., the last job run was on April 1st, the next job run is scheduled on April 10th, only documents from April 04th to April 10th will be processed.

If the agent program is scheduled for the first time in a system, only business documents from the last seven days are taken into consideration. Thus, the first job run may run longer than following jobs.

It is strongly recommended to align the agents and their execution schedule with your companies' business experts or your Governance, Risk & Compliance group.



3.9. Auto-Reaction Similar to Function SALO_EMAIL_IN_CASE_OF_ALERT_V2

For configuration, refer to:

SAP note 176492 'Automatic email when an alert occurs (RZ20)' and

SAP note 939616 'CCMS auto-reactions: Help with troubleshooting'



The standard functionality according to SAP note 176492, Example 2, dynamic, is as follows:

Parameter name Parameter value

- 1. SENDER <ADMINUSER> (in client 000)
- 2. RECIPIENT ABC:007:OPERATOR1
- 3. RECIPIENT-TYPEID R
- 4. TIME_ZONE <Time zone> (optional)

Explanation: For System (ABC), Client (007) and Recipient (OPERATOR1) for the recipient type "R", which is a Remote Mail (RML) address.

In this case (SAP standard functionality), for each status node consumer, the SID and client information is concatenated and client-specifically, statically maintained in the status node.

When using the QuantityWare extension, the self-registration program registers the 'Auto-reaction method' /QTYW/MonitorAnalyzer4Usgkey, for all status nodes.

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eneral Sta	tus attribute	Methods Addnl info
Method executio	'n	
Start the data co	ellection method	every 86,400 seconds
In the absence o	f values deactiva	ate after 0 seconds
Methods effect	ive for MTE no	des
Data collection	method	/QTYW/MonitorCollector4Usgkey
		Collector for expiring usage keys
Auto-reaction n	nethod	/QTYW/MonitorOnAlertEMail4Usgkey
		Send E-Mail on alert
Analysis metho	d	/QTYW/MonitorAnalyzer4Usgkey
		Analyze expiring usage keys
6ð Metho	od assignment	

You can navigate from the status node in the Monitoring Tree via 'Properties (Shift + F7)' and then double-click on the 'Auto-reaction method' details (previous screen shot), to reach the (alerting) Monitoring: Methods screen.

Here, all information relating to the new QuantityWare extension (function module) is listed...

lethod definition		_		
lame	/QTYW/MonitorOnAlertEMail4Usgkey			
Description	Send E-Mail on alert	(Language	EN)	
	or Parameters Release Addnt info			
To be executed				
To be executed Type of call				
To be executed Type of call Report	O URL			
To be executed Type of call Report Function module	 URL Logical command 			
To be executed Type of call Report Function module Transaction	 URL Logical command 			

... as well as the parameters passed by / for the module.

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lethod definition	_					_	
Name	QTYW/MonitorOn/	AlertEMail4U	lsgkey				
Description	Send E-Mail on ale	ert				(Language	EN)
Execution Contro	l Parameters	Release	ē)	Addnl	info		
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Execution Contro Transfer parameters Parameter Nar 1. SENDER	l Parameters for method execu me Pa	Release	e /	Addnl	info		

You will find cross client - Client (All) - or client dependent client 045 status nodes in the monitor tree.

When calling function module /QTYW/EMAIL_IN_CASE_OF_ALERT with the RECIPIENT-TYPEID = Y we derive the symbolic destination, the client and the logical name of the auto-reaction method from the alert and determine the Remote Mail (RML) or E-Mail recipient from the view /QTYW/V_CCMSRCPT. The monitor tree description client (ALL) indicates a cross-client status node. Here you have the possibility either to use the SAP standard configuration and consequently function module SALO_EMAIL_IN_CASE_OF_ALERT_V2, or the QuantityWare version, which can send RML / E-Mails in a client configured node context of view /QTYW/V_CCMSRCPT.

In case you decide to use function module /QTYW/EMAIL_IN_CASE_OF_ALERT, please configure view /QTYW/V_CCMSRCPT using transaction SM30 accordingly.

The symbolic destination allows the customization of alerting rules in a central system to be distributed through the system landscape by the Transport Management System (TMS).

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CCMS Alerts: Client	dependent RML / E-Mai	l recipie	nts							0	
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	045 Z_EMAIL_IN_CAS	E_OF_AL	ERT_UKVG	GASE	XPER	T@M	усом	ANY.C	MOC		
	045 Z_EMAIL_IN_CAS	E_OF_AL	ERT_UKVP	PETR	OEXP	ERT@	MYCO	OMAN	Y.CON	1	

Field "Alert: Logical Name of Tool", purpose:

If you differentiate between oil & gas business experts as "alert recipients", you must customize different 'Auto-reaction methods' e.g.:

- <...><EMAIL_IN_CASE_OF_ALERT_><UKV><G> (usage key validity Gas)
- <...><EMAIL_IN_CASE_OF_ALERT_><UKV><P> (usage key validity Petroleum)

The "Alert: Logical Name of Tool" of table /QTYW/CCMS_RCPT can be found in the auto-reaction method definition:

< SAP		Monitoring: Properties and Method
✓	∽ 6 Cancel More ∽	
Properties of tityWare Mon	tor\Usage Key Validity\Bulk Calculations - Gas	#Client
MTE class /QTYW/	G(045)	
General Status attribute Met	nods Addnl info	
Method execution		
Start the data collection method every	0 se	econds
In the absence of values deactivate afte	0 se	econds
Methods effective for MTE nodes		
Data collection method	/QTYW/MonitorCollector4Usgkey	
	Collector for expiring usage keys	
Auto-reaction method	Z_EMAIL_IN_CASE_OF_ALERT_UKVG	•
	Send Remote Mail on alert	
Analysis method	/QTYW/MonitorAnalyzer4Usgkey	
	Analyze expiring usage keys	
6∂ Method assignment		

See chapter: E-Mail Alerting Configuration for a detailed description as to how E-Mail Alerting can be configured.

4. Architecture

4.1. Preamble:

We deliver the following predefined methods which can be viewed via transaction RZ21 -> Methods -> Definitions

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E	/	QTYW/MonitorCollector4Instchk		Col	lecto	or fo	r fa	ilin	g ins	tall	ation	test	s /	/QTYW/	CCMS_	MONI	TOR_IN	ISTCH	<	Report	Loca	MTE
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4.2. Monitor Methods:

- Agent the local ABAP agent is a program which creates the alerting event.
- Collector a program which searches for the alerting event of the agent and triggers an alert in the CCMS alert monitor.
- Analysis a report or function used to analyze the alerting event.
- Auto reaction a function module used to inform the responsible recipient e.g., a business expert or GRC group, via a communications method outside of the standard CCMS transactions, e.g., e-mail.

4.3. The Agents

These are programs scheduled as background jobs in the clients to be monitored.

The agents are programs listed in the same order as in the CCMS monitor tree:

- The usage key does not require an agent, as this information is a runtime variable and therefore available to the collector.
- /QTYW/INSTALLATION_TEST

Measurement Cockpit: Run QuantityWare Installation Test.

• /QTYW/MY_TEST_R

Measurement Cockpit: Run My Scenarios.

• /QTYW/CCMS_CREATE_LOG_MATDOC

Alert Monitor: Persist the appl.log of the material document analysis.

• /QTYW/CCMS_CREATE_LOG_INVDOC

Alert Monitor: Persist the appl.log of the inventory document analysis.

• /QTYW/CCMS_CREATE_LOG_DELDOC

Alert Monitor: Persist the appl. log of the delivery document analysis.



The QuantityWare Usage Key expiry alert is a run-time object which requires no Agent. This is the most critical of all QuantityWare Alerts. Usage key expiry (formerly known as License Key) in a productive system will lead to serious business disruption!

4.4. Collector Methods

These are programs which are gathered within the self-registration program /QTYW/CCMS_MONITOR.

Each Monitor Tree Element (MTE) status node implements a topic-specific collector method executing the program listed in the same order as in the CCMS monitor tree:

• /QTYW/CCMS_MONITOR_USGKEY

Expiring usage keys in the SAP CCMS Monitor

- /QTYW/CCMS_MONITOR_INSTCHK
 Failing installation tests in the SAP CCMS Monitor
- /QTYW/CCMS_MONITOR_MYTEST
 Failing scenarios in the SAP CCMS Monitor
- /QTYW/CCMS_MONITOR_MATDOC

Failing material document analysis in the SAP CCMS

- /QTYW/CCMS_MONITOR_INVDOC
 Failing invoice document analysis in the SAP CCMS
- /QTYW/CCMS_MONITOR_DELDOC

Failing delivery document in the SAP CCMS Monitor

4.5. Analysis Methods

The analysis methods display in RZ20 enables the administrator to select the alert in the MTE tree (with "F2"), receive detailed alert information and react (e.g.) by providing such information to the responsible person.

The analysis methods in corresponding order to the CCMS monitor tree are:

- Program /QTYW/CP_CTL_LPG
- Function /QTYW/CCMS_ANALYS_INST_LOG_BCG
- Function /QTYW/CCMS_ANALYS_INST_LOG_BCP
- Function /QTYW/CCMS_ANALYS_SCEN_LOG_BCG
- Function /QTYW/CCMS_ANALYS_SCEN_LOG_BCP
- Function /QTYW/CCMS_ANALYSE_MATDOC_LOG
- Function /QTYW/CCMS_ANALYSE_INVDOC_LOG
- Function /QTYW/CCMS_ANALYSE_DELDOC_LOG

4.6. Auto-Reaction Methods

Function /QTYW/EMAIL_IN_CASE_OF_ALERT is implemented allowing an RML recipient to be triggered **client specifically** (e.g., in a system in which differing business areas are assigned to individual clients). This function module is based on the SAP standard SALO_EMAIL_IN_CASE_OF_ALERT_V2, extended with a recipient type 'Y'. Using this recipient type, the system can derive the client from the MTE status node description.

To allow a configuration whereby specific RML / E-Mail addresses can be assigned to company roles for (e.g.) client-specific Gatekeepers or Governance Risk and Compliance monitoring users, recipient type 'Y' determines the client-specific recipient from the configuration view /QTYW/V_CCMSRCPT 'CCMS Alerts: Client dependent RML / E-Mail recipients.

If a cross-client alert is triggered (indicated by "<SID> client '(ALL)") (e.g., for the expiring usage key validity alert), only recipients in client '000' may be addressed.

4.7. Authorizations and Roles

i	Granting the authorizations below allows access to all QuantityWare monitors. In case an access subset is required, you may use the following grouping
	 Usage Key Validity (UKV) Installation Test (IT) My Test Scenarios (MTS) Business Document Analysis (BDA)
Authorization	abiects.

Authorization objects:

•	(UKV)	AUTHORITY-CHECK	OBJECT 'Y	_QWLICENS' I	D 'ACTVT'	FIELD '03'.
---	-------	-----------------	-----------	--------------	-----------	-------------

- (MTS);(IT) AUTHORITY-CHECK OBJECT 'Y_/QTYW/CO' ID 'ACTVT' FIELD '16'.
- (MTS);(IT) AUTHORITY-CHECK OBJECT 'Y_/QTYW/T' ID 'ACTVT' FIELD '16'.
- (MTS) AUTHORITY-CHECK OBJECT 'Y_QWTSTLG' ID 'ACTVT' FIELD '03'.
- AUTHORITY-CHECK OBJECT 'Y_QWBUSOBJ' ID 'ACTVT' FIELD '03'. (BDA)

We define three principal user "roles", differentiating user responsibilities, requiring the above Authorization objects to be assigned respectively. We refer to QuantityWare and SAP-Standard roles in this text – these may have been replaced by customer-defined roles in your environment.

- System Administrator authorized to analyze system monitor alerts via transaction RZ20/RZ21 (authorization object S_RZL_ADM), use role SAP_BC_BASIS_MONITORING. The system administrator should generally have authorizations for technical and business analysis tools, as well as the ability to resolve QuantityWare alerts (e.g.) by applying a new usage key. To do so, use role Y_QTYW_CERTIFIED_CONSULTANT.
- Gatekeeper / Business Expert authorized to start business document analysis, use role Y_QTYW_EXPERT_BUSINESS_USER. As described in the example and to be able to receive remote mails via an MTE auto-reaction method, the Business Workplace transaction SWBP (authorization object S_OC_ROLE) along with the profile S_OC_ADMI 'SAPoffice: Profile for Office administrator' has to be considered.
- QuantityWare Consultant authorized to set up QuantityWare products, the composite role Y_QTYW_CERTIFIED_CONSULTANT is appropriate. In addition, to set up CCMS using transaction RZ20/RZ21 (authorization object S_RZL_ADM), the role SAP_BC_BASIS_MONITORING must be considered.

Additional authorizations that may be necessary should be considered for the following transactions:

- SA38 'ABAP Reporting' to start self-registration report '/QTYW/CCMS_MONITOR'
- SE37 'ABAP Function Modules' to be in a position to add (e.g.) auto-reaction methods
- SE01 'Transport Organizer' to record changes into transports
- SICF 'HTTP Service Hierarchy Maintenance'
- SOST 'SAPconnect Send Requests'
- SCOT 'SAPconnect Administration'

5. Tips and Tricks

5.1. IMPORTANT: No Configuration Responsibility

QuantityWare provides its customers with the possibility to leverage the benefits of SAP CCMS. We do not provide support for issues stemming from SAP CCMS or the standard SAP functionality which is used in such scenarios. Specifically, we do not provide any form of consulting support via our service offerings for this area. If your organization encounters issues in the CCMS environment and its configuration, we request that you carefully analyze and consider which organization is responsible for, and should be contacted, in case of a perceived error.

5.2. E-Mail Alerting Configuration

Call transaction RZ21 🛛 Methods -> Methods assigned to MTE classes to determine the monitor node for which you intend to send an alert, e.g., an RML alert.

The class name reflects the node on the QuantityWare monitor you wish to select.

Example:

We would like to implement an RML alert for the 'Usage Key Validity'(UKV) verification of 'Bulk Calculations Gas'(BCG) and 'Bulk Calculations Petroleum' (BCP).

We use the suffix UKVG for 'Usage Key Validity' Gas; UKVP for 'Usage Key Validity' Petroleum as we have different business experts for Gas and Petroleum who require the alert. In our example we only implement BCG alerting, the same steps should be followed for BCP alerting.

The RML alert is raised by an express document to the Inbox of the Business Workplace (transaction SBWP).

< SAP		Bu	siness Workplace of	
✓	✓ ☑ New message	a Find folder $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	ent 🗰 Appointment calenda	r 🖉 Distribution lists
✓ ♣ Workplace: ✓ ৬ Inbox	Documents 105 ◯ ◯ ∨ ⊠ ∨ ⊇ ≌ ∨	i 68 ∥ P. [∨ ∂ ∨	Q. ₩~ = 7~ Q	
 Unread Documents 73 Documents 105 	Me Type Title	Att Author	Date received Copy F 11.05.2020	Re Recipi
> 🕞 Workflow 0	QuantityWare Alert: Usage Key ex	pires		
 Deadline Messages 0 Incorrect entries 0 	ALERT for () QuantityWare Monitor YELLOW CCMS alert for monitored o	or \ Bulk Calculations - Gas \	client() at 20200511 095739	(Time in UTC)
> 🗘 Outbox	Alert Text:Your QuantityWare BCG lic System: Segment:SAP_CCMS_	cense expires on 29.07.2020		
> 🖎 Private folders	MTE: QuantityWare Monitor\Bulk Client: User:	Calculations - Gas		
🔍 💊 🖝 a tata ang ang tata ang tang tang tang				

Copy the pre-delivered method definition /QTYW/MonitorOnAlertEMail4Usgkey to a new name e.g. Z_EMAIL_IN_CASE_OF_ALERT_UKVG using transaction RZ21 -> Methods -> Definitions

< SAP			•	Monit	oring: Prope	ties and I	lethods			
✓	~ / [1 1 2 9	≜ ₹			Cancel (1	្រ ្	More 🗸	
]/QTYW/MonitorOnAlert	EMail4Usgkey	Send E-Ma	Shift+F8)		/QTYW/EI	MAIL_IN_	CASE_OF_	ALERT	Function	m Any
< SAP										
✓		~ 6		bo Cancel	More 🗸	,				
Nethod definition			0.0							
Jame	Z_EMAIL_IN_CASE	OF_ALERT_UP	KVG							
Execution Contro	ol Parameters	Release	Addnl in	fo						
To be executed Type of call Report Function module Transaction	ol Parameters	Release URL Logical com	Addnl in	fo						
To be executed Type of call Performance Report Function module Transaction Call To be executed Type of call Call	ol Parameters	QURL OF_ALERT	Addnl in	fo						
To be executed Type of call Report Function module Transaction Call Call Torry Call	ol Parameters	QURL QURL OF_ALERT	Addnl in	fo						
Execution Control To be executed Type of call Type of call Report Function module Transaction Call /OTY Execute method on Any server 	ol Parameters	OURL Logical com OF_ALERT	Addnl in	fo						
Execution Control To be executed Type of call Type of call Report Image: Second Call Function module Transaction Call Call /QTY Execute method on Image: Any server The local server Image: Call server	ol Parameters	Release URL Logical com OF_ALERT essed	Addnl in	fo						
Control To be executed Type of call Report • Function module Transaction Call /OTY Execute method on • Any server The local server of Specified RFC de	ol Parameters	OURL Logical com OF_ALERT	Addnl in	fo						
Execution Control To be executed Type of call Type of call Report • Function module Transaction Call /QTY Execute method on • Any server The local server of Specified RFC dee Execute method for • Call Server of the local server of	ol Parameters	OF_ALERT	Addnl in	fo						

On the 'Parameters' tab strip, verify the recipient type-id (TYPEID) and choose a representative alert subject.

< SAP			Monitoring: Methods
 Image: A second s		✓ ☐ ⅔ ➡ ☐ Cancel More ✓	
Method definition			
Name	Z_EMAIL_I	_CASE_OF_ALERT_UKVG	
Description	Send Remo	e Mail on alert (Language E	N)
Execution Con Transfer paramete	trol Paran	eters Release Addnl info execution	
Parameter	Name	Parameter value	
1. SENDER			
2. RECIPIEN	T-TYPEID	Y	
3. SUBJECT_	ALERT	QuantityWare Alert: Usage Key expires	
26 1			

On the 'Release' tab strip release your method definition as Auto-Reaction Method.

< SAP					Monitoring: Methods
 ✓ 		~ 5 % 5	e 63 Cancel M	1ore ∽	
Method definition					
Name Description	2_EMAIL_IN_CASE_C	alert	(Langua	ge EN)	
Execution Contro	l Parameters	Release Add	Inl info		
Execute method as					
Data Collection M	ethod				
analysis method					

...and save your settings.

Configure the recipients using transaction SM30 for view /QTYW/V_CCMSRCPT.

< SAP					Disp	lay Vi	ew "CCN	IS Ale	rts: C	lient d	lepen	dent
✓		\sim	63		00.5		Cancel	Ĺî	C 1	1	[₽	Мо
CCMS Alerts: Client of	lepend	lent RML / E-Mail	recip	pients								0
Symbolic dest.	Clt	Alert: Logical Nam	e of T	ool		R	ML/E-Mail	Addre	SS			
SID	010					R	ILUSER					0
SID	045	Z_EMAIL_IN_CAS	E_OF	_ALER	т_ик\	G G	ASEXPERT	@MY	COMP	ANY.	COM	
SID	045	Z_EMAIL_IN_CAS	E_OF	_ALER	T_UK	VP PE	TROEXPE	RT@I	иусо	MPAN	Y.COM	N

(In case you have a client information '(ALL)' in the monitor tree description of the 'Status attribute' node, client '000' should be used.)

Replace RMLUSER by the user who should be informed by remote mail, or if an E-Mail should be sent, by an appropriate company E-Mail address.

Add the alert method definition Z_EMAIL_IN_CASE_OF_ALERT_UKVG to the Monitor Tree Element.

Call transaction RZ20 and navigate to the 'Usage Key Validity' topic node. Activate the Maintenance Function from the menu via Extras -> Activate Maintenance Function.

Change the Auto-reaction method assignment of status nodes '<SID> client(<client>)' by navigating to their properties using the toolbar button 'Properties' (Shift+ F7).

In the properties choose the 'Methods' tab stip to navigate to the 'Method assignments':

	~	6 Cancel More	~		
roperties of	antityWare Mo	onitor/Usage Key Validity/	Bulk Calculations	s - Gas	#/ Sclie
ITE class /QTYW	/ BCG(000)				
ieneral Status attribute	Methods	Addnl info			
Method execution					
Start the data collection method e	every		86,400	seconds	
In the absence of values deactiva	te after		0	seconds	
In the absence of values deactivation Methods effective for MTE noc	te after des		0	seconds	
In the absence of values deactiva Methods effective for MTE noc Data collection method	te after des /QT	YW/MonitorCollector4Usg	0 gkey	seconds	
In the absence of values deactiva Methods effective for MTE noc Data collection method	te after des /QT Col	YW/MonitorCollector4Usg lector for expiring usage b	0 gkey keys	seconds	
In the absence of values deactiva Methods effective for MTE noc Data collection method	te after des /QT Col	YW/MonitorCollector4Usg lector for expiring usage b	0 gkey xeys	seconds	
In the absence of values deactiva Methods effective for MTE noc Data collection method Auto-reaction method	te after des /QT Col	YW/MonitorCollector4Usg lector for expiring usage k YW/MonitorOnAlertEMail	0 gkey keys 4Usgkey	seconds	
In the absence of values deactival Methods effective for MTE noc Data collection method Auto-reaction method	te after des /QT Col /QT Sen	YW/MonitorCollector4Usg lector for expiring usage k YW/MonitorOnAlertEMaik Id E-Mail on alert	0 gkey keys 4Usgkey	seconds	
In the absence of values deactiva Methods effective for MTE noc Data collection method Auto-reaction method Analysis method	te after des /QT Col /QT Sen /QT	YW/MonitorCollector4Usg lector for expiring usage k YW/MonitorOnAlertEMail d E-Mail on alert YW/MonitorAnalyzer4Usg	0 gkey keys 4Usgkey	seconds	

In the Auto-reaction method assignment, toggle the 'Method allocation' from 'Use MTE class method assignment' to Method name' and enter your new alert method definition in our example Z_EMAIL_IN_CASE_OF_ALERT_UKVG.

< SAP	*								
✓			~ 6	63	Cancel	More \sim	,		
lethod assignment	for								
SOI/QuantityWare N	lonitor//Bul	k Calculatio	ons - Gas		#/ Clie	nt 🍘			
1TE class	/QT	W/BCG							
ata collection	Auto-react	ion Ar	nalvsis	Additi	onal Info				
Auto-reaction meth	od		inty of o						
Auto-reaction meth Effectively assign	^{od} ed method								
Auto-reaction meth Effectively assign Method name	od ed method /QT ^v	/W/Monitor	OnAlertEM	lail4Usgl	(ey				
Auto-reaction meth Effectively assign Method name assigned by	od ed method /QT ^v	/W/Monitor	OnAlertEM	lail4Usgl	key				
Auto-reaction meth Effectively assign Method name assigned by MTE	od ed method /QT	/W/Monitor	OnAlertEM	lail4Usgl	key				
Auto-reaction meth Effectively assign Method name assigned by MTE MTE class	od ed method /QT	/W/Monitor	OnAlertEM	lail4Usgl	(ey				
Auto-reaction meth Effectively assign Method name assigned by MTE MTE class Method is dir	od ed method /QT ectly ass	/W/Monitor	OnAlertEM	lail4Usgl	æy				
Auto-reaction meth Effectively assign Method name assigned by MTE MTE class Method is dir Method allocation	od ed method /QT ectly ass	/W/Monitor	OnAlertEM	lail4Usgl	(ey				

Save your changes to all variants as necessary.

=	Monitori	ng: Properties and Methods	:
Save Properties Individua	lly for MTE		
To which property variant d Select one or more variants	o you want to co	py the data?	
Name	Status	Description	٥
✓ <u>*</u>	Active	*-Variante (Kundendefault)	0

QuantityWare

✓ /QTYW/

5.3. Define SAP Connect

We recommend the following third-party documentation. We are not responsible for implementation and the content of such documentation:

• RLM recipient:

Read the following SAP Note carefully.

SAP note 176492 'Automatic email when an alert occurs (RZ20)'

• E-Mail recipient:

This source proved to be very useful during our internal configuration and testing.

http://solidforms.de/en/create-an-smtp-connection-from-sap-to-office-365

5.4. How to manually (re)start auto-reaction or analysis methods

From the alert detail in RZ20 use:

- Extras -> Activate maintenance function from the Alert Monitor menu first and
- Edit -> Nodes (MTE) -> Start methods subsequently:





5.5. How to restart the QTYW CCMS installation from scratch

You would like to remove all alerts and nodes related to the QuantityWare Monitors by choosing the "ALL Contexts on Local Application" monitor.

Complete all alerts by "Complete alerts (Ctrl+F11)

	<	SAP							S/	AP CCMS Techni	cal Exp	ert Mo	onitors	5 (
	~		~ 6	4	₿	C		Current status	Display alerts	Complete alerts	H Ş	5	7	Pr
										Comp	lete aler	rts (Ct	rl+F11))
		View: Open alerts (22.	04.2021,	12:2	29:29)								
4	Node	e display off QuantityWare Monitor	2		, 2	\Quar	ntity	Ware Monitor\	\Bulk Calc	ulations - Ga	5			#

Confirm the tree node alert auto selection via "Complete alerts" from the alert details

	<	SA	P										Alert	Display fo	or SAP C	CMS T	echnic	cal Exp	oert Mo	nitors	(All C
	~					~ <) c	omplete alert	s 🙀	7	Properties	s Show	v alert histo	ry Time	Interval	^	v	a (ચ ≞	Ŧ	
				a .			011			01		0 1.1									
	Date	е	lime	System	Context		Obje	ect name		Shor	t name	Status	Alert text								
\checkmark	21.0	04.2021	11:13:55		QuantityV	/are Monit	or Bulk	Calculations	- Gas		client) ACTIVE	At least on	e scenario	with error	(s), che	eck log:	: Q000	20131		
\checkmark	21.0	04.2021	11:13:55	5	QuantityW	/are Monit	or Bulk	Calculations	- Gas		client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	CTG1	20210		
✓	21.0	04.2021	11:04:10		QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n	client(ACTIVE	At least on	e installatio	on test wit	h error(s), che	ck log:	20191.		
v	21.0	04.2021	10:44:23	5	QuantityW	/are Monit	or Mate	erial Documer	nt Analysis.		client(ACTIO.	At least on	e material	document	(4900	000109	9 2008) with e		
v	19.0	04.2021	00:04:23	5	QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	T856	202007		
v	18.0	04.2021	00:04:18		QuantityW	/are Monit	or Bulk	Calculations	- Petroleum	n	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	QE08	20140		
~	18.0	04.2021	00:04:18		QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	L007	201609		
v	18.0	04.2021	00:04:18		QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	Q94Q	20190		
~	18.0	04.2021	00:04:18		QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	Q94Q	20150		
\checkmark	18.0	04.2021	00:04:02	2	QuantityW	/are Monit	or Bulk	Calculations	- Gas		client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	Q76B	20190		
v	07.0	04.2021	00:05:31		QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	Q24B	20200		
~	24.0	03.2021	00:05:11		QuantityW	/are Monit	or Bulk	Calculations	- Petroleun	n I	client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	: T301 :	202006		
✓	24.0	03.2021	00:04:46	5	QuantityW	/are Monit	or Bulk	Calculations	- Gas		client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	: T864 :	202006		
~	23.0	03.2021	00:05:24		QuantityW	/are Monit	or Bulk	Calculations	- Petroleum		client(ACTIVE	At least on	e scenario	with error	(s), che	ck log:	: L001 2	202102		

Remove the QuantityWare tree from the Alert Monitor if necessary, or at a more granular level (e.g.) to delete a client node as the client itself has been deleted from the system.

From the alert detail in RZ20 use:

Extras -> Activate maintenance function from the Alert Monitor menu first, Mark the node and choose Edit -> Nodes (MTS) -> delete subsequently:

<	SAP .	SAP CCMS Technical Expert Monitors (All Contexts on Local Application		
~	図 引 凸 C 階 Current status	Display alerts Complete alerts 🖪 📢 🔁 🍕 Properties 🛢 🕼 🍡 🛢	田田県文画園 10	[More∼] Q, Q* @ [
				Cancel (F12)
	View: Open alerts (22.04.2021 , 12:37:52)			First Page (Ctrl+Page up)
4 NO	de display off			Previous Page (Page up)
	Co Quantityware Monitor			Next page (Page down)
	Usage Key Validity			Last Page (Ctrl+Page down)
	My Test Scenarios			Monitoring >
	D Business Document Analysis		Ter	The N
	RCCF Applications ()		litee	Edit
	RCCF Applications ()		Selections >	Goto >
	RCCF Applications ()		Nodes (MTE) >	Properties (Shift+F7)
	RCCF Applications ()		Alarte	Assian workarnun
	RCCF Applications ()		Agents	
	RCCF Applications ()		Show node (MTE) for alert (Ctrl+F8)	Display details (Shift+F6)
	RCCF Applications ()		Find (Ctrl+F)	Display MTE description (F1)
	RCCF Applications ()		Find and the second	Log on to SAD System (Crid+Shift+51)
	RCCF Applications ()		Find next (Ctri+G)	Log on to sze system (convolution)
	RCCF Applications ()		Cancel (F12)	Analyze SAP System (Ctrl+Shift+F2)
	RCCF Applications ()			Assign methods >
	RCCF Applications ()			
	RCCF Collectors & Internals			Start methods >
	RCCF Destinations			Delete (Shift+F2)
	BCCE Enginehosts			

Choose an option, preferably option 2

(Consider all implications of a deletion, as this may affect other customer configuration)

≡		Note for "Delete Node" Oeration	×
			¢
	You ha	we the following options for the Delete Nodes operation:	
	1. Yo yo in	ou want to remove the selected nodes from the display. To do this, ou must change the node definitions appropriately. The nodes remain n the runtime environment.	l
	2. Yo bu de ot	ou want to remove the selected nodes from the runtime environment, It keep the associated class properties for later use. The system Pletes the nodes only if there are no more alerts for them, Cherwise it marks the nodes for deletion.	l
	3. Yo re st	ou want to delete all nodes with their class properties in the espective systems. The system deletes the nodes even if alerts cill exist.	l
	4. In no wh be	n addition to the action in the last point, you want to delete all odes with their class properties in the respective systems for wich the MTE classes match one of the MTE classes in the subtrees elow the selected nodes.	l
	With e	each of these options, when you delete a node, you delete the	0
		Option 1 Option 2 Option 3 Option 4	×



Result – the QuantityWare node has been deleted from the Alert Monitor



(Re)run program /QTYW/CCMS_MONITOR to register the QuantityWare Alert Tree - Allowing the monitoring of QuantityWare alerts.

Please note, that all QW alerts (according to their properties [Shift+F7]) are only sent if "The message sent has changed" *.

<	SAP					Monitor	ng: Prop	erties and Met
~		~	69 C	Cancel	More ∽			
Properties of		uantityWare Mo	nitor/Insta	Illation 1	est/Bulk C	Calculations - G	ias	#/ clien
MTE class	/QTY	W/BCG(045)						
General	Status attribute	Methods	Addnl i	nfo				
Status attr	ibute properties ass	igned from gro	up			/QTYW/Monit	orInstch	KBCG
When sho	uld a message cau	se an alert?						
When sho	uld a message cau s (at every message)	se an alert?						

*Exception: Usage Key Monitor, where the configuration 'Message value (color) has changed' is valid.

You may check the status on the data collector (or the auto-reaction) from the Alert Monitor menu via Views -> Status Data Collector.



5.6. How to find a data collector's log / How to trace

Executing the self-registration program (or a single data supplier program) does not return a successful execution message to the user per design as this information is written to the CCMS self-monitoring log.



As no information is displayed, we used a workaround as described in <u>SAP note 2259145: "CCMS:</u> <u>Extended selfmonitoring log (Startup-Methods, Callstack of tools)"</u> - setting the value of parameter SAPMSSY8_TRACE to '1' in customizing table ALCCMCUST, using transaction SM30.

When executing the self-registration program (or a single data supplier program) manually, the execution log is written to the application log.

To display, use transaction SLG1 'Analyze Application Log':

< SAP	Display logs
 ✓ [✓] < ⑦ 	δ δ Technical Information i Cancel More \checkmark
Date/Time/User	Number External ID Object text Sub
	✓ 頃 ✓ 職 ✓ €0 ●0 ▲0 ■1
Type Message Text	
/QTYW/CCMS_MONITOR_USGKEY_F01 started	
/QTYW/CCMS_MONITOR_USGKEY_F01 successfully	/ completed
/QTYW/CCMS_MONITOR_INSTCHK_F01 started	
/QTYW/CCMS_MONITOR_INSTCHK_F01 successfully	y completed
/QTYW/CCMS_MONITOR_MYTEST_F01 started	
/QTYW/CCMS_MONITOR_MYTEST_F01 successfully	completed
/QTYW/CCMS_MONITOR_MATDOC_F01 started	
/QTYW/CCMS_MONITOR_MATDOC_F01 successfully	y completed

Legal Notices

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