### Knowledge

### Base



# Shelved Alarms not displaying in Exaquantum

KB-0016-22

	Document Summary
Article Type	User Guide
Products Affected	Exaquantum/ARA
Versions Affected	R3.00 - R3.20
Function Affected	ARA
Available Resolution	N/A
Audience	System Integrator, Administrators, Engineer, Users
Summary	Shelved Alarms on the DCS are not in the Exaquantum\ARA system
Review Date	Document to be reviewed before January 2023



KB-0016-22 Shelved Alarms not displaying in Exaquantum ARA R3.00-R3.20

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# **Table of Contents**

Table of Contents	1
Chapter 1 Introduction	2
1.1 Audience	2
Chapter 2 Setup - Exaopc CAMS	3
2.1 Centum Project Settings	3
2.1.1 Network Settings	3
2.1.2 STN Actual Device	4
2.2 HIS Utility	4
2.3 Exaopc Installation	5
2.3.1 License Code	5
2.3.2 Database Reference	5
2.4 Exaopc Setup	6
2.4.1 General Tab	6
2.4.2 CS Cassettes Tab	6
2.4.3 CAMS for HIS Tab	7
2.5 CAMS Inside Condition Check Tool	8
2.6 Detection Disabled Alarms on OPC	9
2.7 Equalization after changes	9
2.8 Verify IP Address	11
Chapter 3 Further Reading	12
Copyright and Trademark Notices	13
Highlights	14

# **Chapter 1 Introduction**

Shelved Alarms not displaying in the Exaquantum system could be due to the Exaopc CAMS not being correctly configured.

This document will describe what can be done to correctly configure Exaopc CAMS.

#### 1.1 Audience

This guide is intended for System Integrators, Administrators, Engineers and Users.

# **Chapter 2 Setup - Exaopc CAMS**

This document contains items that are needed but often forgotten when setting up Exaopc in CAMS for HIS mode.

The product versions used in this document are as follows (but should still apply to later versions):

Exaopc R3.72

Centum R5.03

### 2.1 Centum Project Settings

When the HIS is not running open the 'System View' application.

Right click on all HISs and STNs that are being used and select properties.

#### 2.1.1 Network Settings

For **each machine** ensure the Host Names and IP addresses are correct. Note that these only accept short names (8 characters or less), so ensure that the test machines follow this pattern or they may not equalise correctly.

Control Bus TCP/I	P Settings		
Host Name	EXA372		
P Address	10.34.70.11		
Subnet Mask	255.255.192.0		
Bhemet TCP/IP S	ettings		
Host Name	EXA372		
P Address	10.34.70.11		
Subnet Mask	255 255 255 0		

#### 2.1.2 STN Actual Device

For each STN that is using CAMS for HIS ensure 'Actual Device' is ticked.

roperties		
Type Network		
Туре		
Station Type		
UHMIS Unified Operation	Montomg Station	<u>_</u>
Station Address		
Domain Number	1 =	
Station Number	63 <del>- 2</del>	
Component		10
Number	2	
Station Comment	EXAOPC	
Alias of Station	EXAOPC	Actual Device
Station Status Display		
Upper Equipment Name	1	3
		OK Cancel

#### 2.2 HIS Utility

On the CAMS for HIS tab select 'Enable CAMS for HIS' and 'Set this HIS as Download Master'.

See below:

su	Itility
-	Action   Security CAMS for HIS   OPC
AN	IS for HIS(The computer should be restarted.)
E	nable/Disable CAMS for HIS(The computer should be restarted.)
5	Enable CAMS for HIS
	(The system configuration must be downloaded before enabling CAMS for HIS)
5	ettings(The computer should be restarted.)
M	aximum size of alarm buffer 2000-si
5	Set this HIS as Download Master
	(Set one Download Master only for each equalization scope.)
0F	Configuration Operation Keyboard
	ACK key acknowledges the selected A&E Message
	C ACK key acknowledges all the displayed A&E Messages
L	Exclude operation guide messages
	OPC A&E Server Connection
	OK Can

#### 2.3 Exaopc Installation

#### 2.3.1 License Code

Insert the licence code that will activate the NTPF100-S6 cassette which is required for CAMS for HIS connection; this will be provided by YHQ.

For further information on the Exaopc License Code refer to the NTPF100 Exaopc OPC Interface Package Installation Manual Chapter B1.4.1 Installing Exaopc.

#### 2.3.2 Database Reference

When asked for the database reference enter the HIS name, e.g. HIS0164, not the HIS machine name or STN name, this can be found in the Exaopc Setup Window on the Exaopc station.

#### 2.4 Exaopc Setup

Open the Exaopc Setup, this is under Start\Exaopc\Exaopc Setup.

#### 2.4.1 General Tab

Ensure the cassette 'NTPF100-S61' is being used.



#### 2.4.2 CS Cassettes Tab

Ensure database reference is using HIS name e.g. HIS0163 not HIS machine name.

If not using a log in for the EXAOPC set it to log on automatically, click 'Change' for 'Select Logon Type' and select Default user of R3.60 and earlier versions.

Exaopc Setup Window	×
General CS Cassettes Quality Code Historical Data	
Equalize Database Reference	
Broadcast Equalize Message      Data Access      Operation Log      Objeck nemissions of Additions      C Exact 2 000      Intervention Log      Data Access      Data Acce	
Alarm Message Summary Reference Tag Name Length 12	
Logon settings Register Logon Users Edt Select Logon Type Change	C Logon transaction is required for connecting OPC server C Automatically logon the designated user for connecting OPC server User name User name
ОК	Password Confirm password Confirm password Confirm password OK Cancel

#### 2.4.3 CAMS for HIS Tab

Ensure Enable CAMS for HIS is selected.

Exaopc Setup Window	×
General CS Cassettes Quality Code Historical Data CAMS for HIS	
Enable/Disable CAMS for HIS(Should set up by Administrator.)	
Enable/Disable CAMS for HIS(The computer should be restarted.)	
Enable CAMS for HIS	
(The system configuration must be downloaded before enabling CAMS for HIS)	
Settings(The computer should be restarted.)	
Maximum size of alarm buffer 2000	
Detailed Setting	

#### 2.5 CAMS Inside Condition Check Tool

To check the equalization ring the following tool can be used:

 $C:\label{eq:condition} C:\label{eq:cambod} C$ 

When run, click update and the following window should be displayed:

HIS Name	IP A	idress	SIN0163	HI30164			
TN0163	10.34	.70.11	R	8			
	10.34		1				
During nu During st During ec It started	nning of lartup. pualizatio	redunds m. state of f	nt %	net	ion. Selone		
During nu During st During et B started Redundanc	anning of lartup, pusicatio in the i	redunda m. state of t	nt fu	tance H	ion. Salone		
During ry During ry During ex B started Redundanc HIIS Name	oreing of gualizatio in the i y ring p OS /OFF	redunda m itate of t ettine Rbt. Cbk	nt he s S T N 0 1 6 3	net tan	ion Salone		
During ry During ex During ex B started ledundanc HIS Same	oneing of gualization gualization y ring o OS /OFF OII	redunda on itate of t ettine Rbt. Chk	he s S I N 0 1 6 3 Y	H I S 0 1 6 4 Y	ion. Salore		

The 'redundancy ring log' tab can be used to display a more detailed log if errors are occurring.

If errors are occurring please contact your local DCS engineer and supply the error log.

#### 2.6 Detection Disabled Alarms on OPC

By default Centum & Exaopc will not provide CAMS disabled alarms over OPC. To enable this the following registry key should be set on the Exaopc machine:

HKEY\_LOCAL\_MACHINE\SOFTWARE\WOW6432Node\YOKOGAWA\Exaopc\COMMON

Key Name: CamsDetection

Value Type: REG\_DWORD

Value : 0 or 1

After adding the registry key restart the machine.

#### 2.7 Equalization after changes

After making any changes to the HIS or Exaopc server, they may need to be checked for equalization. Repeat the following changes **on both HIS and** Exaopc while they are running, until they both don't require restarting (i.e. it may restart after equalising, but after trying again it will ask to equalise again – keep repeating until it states Equalization scope is unchanged **on both systems**).

1, Detailed Setting.

HIS: With the Virtual HIS running, go to HIS Utility -> CAMS for HIS tab -> Detailed Settings.

**Exaopc:** Go to Exaopc setup -> CAMS for HIS tab -> Detailed Setting.

Detailed Setting		×
Check the equalizat checked on first boo	ion target stations. All ot.	stations are
Station Name	Station Number	IP Addres
STN0163	1.63	10.34.70.;
HIS0164	1.64	10.34.70.:
•		
	ОК	Cancel

It will display the HIS and the STN, along with their IP addresses.

2, Click 'OK'. If everything is fine, it will display the following box.



Otherwise, it will display the following:

Detailed Setting	×
Equalization Scope has been changed from the previous setting restart the computer.	s. Please
	OK

3, Click OK and restart the system. If CAMS data is still not appearing on the Exaopc server, verify that the network settings are correct on the HIS (see top of page) - any changes to this may require equalization to occur again.

Note that equalization should not be attempted if the HIS or Exaopc server is not currently running Virtual HIS (or if the set up is in a test environment and the Test Function is configured and running) or can't be seen due to network issues.

### 2.8 Verify IP Address

Verify that the IP Address matches rather matches rather, make sure to update it in the HIS properties and equalise both the machines.

SYSTEM VIEW       Item       Item <th>Folders</th> <th>Opened Folder : HIS0164</th> <th></th>	Folders	Opened Folder : HIS0164	
CAMS   COMMON   FCS0101   STN0102   STN0163     W Net/IP   Control Bus TCP/IP Settings    Host Name   CAMSHIS   IP Address   10.34.70.44   Subnet Mask   255.255.192.0        Revert to initial value     OK	SYSTEM VIEW	ليتفقيها التبعير المنفقين	
COMMON FCS0101 STN0102 STN0163 B S HIS0164	🖮 🦲 CAMS	Properties	
OK Cancel	SYSTEM VIEW CAMS CAMS COMMON B-CS0101 STN0102 STN0163 B-STN0163 B-STN0164	Name       Type       Constant       Network       Detailed Setting         If       Vnet/IP         Control Bus TCP/IP Settings       Host Name       CAMSHIS         IP Address       10.34.70.44       Subnet Mask       255.255.192.0         Ethemet TCP/IP Settings       Host Name       CAMSHIS         IP Address       10.34.70.44       Subnet Mask       255.255.192.0         Ethemet TCP/IP Settings       Host Name       CAMSHIS       II         IP Address       10.34.70.44       Subnet Mask       255.255.192.0	
OK Cancel			1
		OK Cancel	

# **Chapter 3 Further Reading**

For more information on ARA Suppression and Shelving please review the following document:

- IM 36J40A21-01EN ARA User Manual
  - o Chapter 7 Suppression and Shelving

If you require further information, please contact Yokogawa Customer Support:

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# Highlights

The Highlights section gives details of the changes made since the previous issue of this document.

### Summary of Changes

This is Issue 1.0 of the document related to Product Library version 4.0.

### Detail of Changes

The changes are as follows:

Chapter/Section/Page	Change