Knowledge Base

Exaquantum/ARA

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

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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.
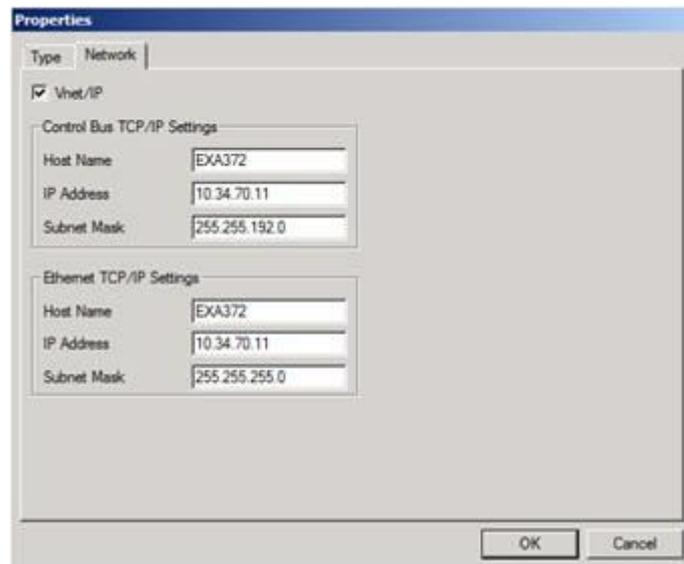
2.1.2 STN Actual Device

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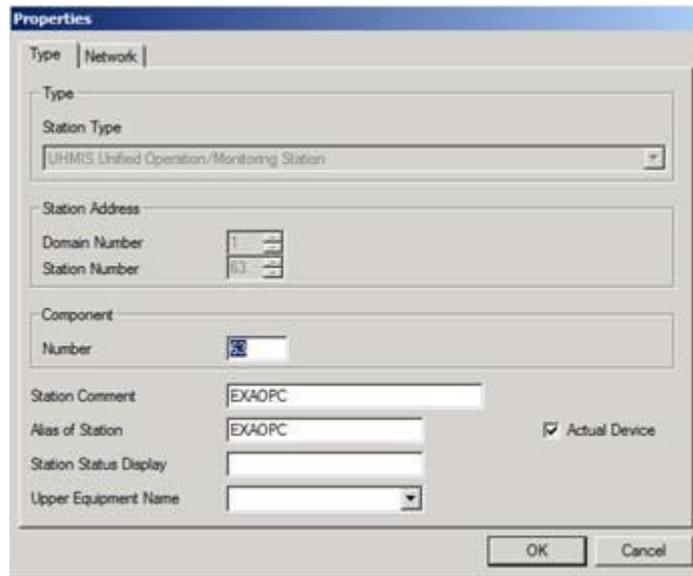
2.2 HIS Utility

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

See below:

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.
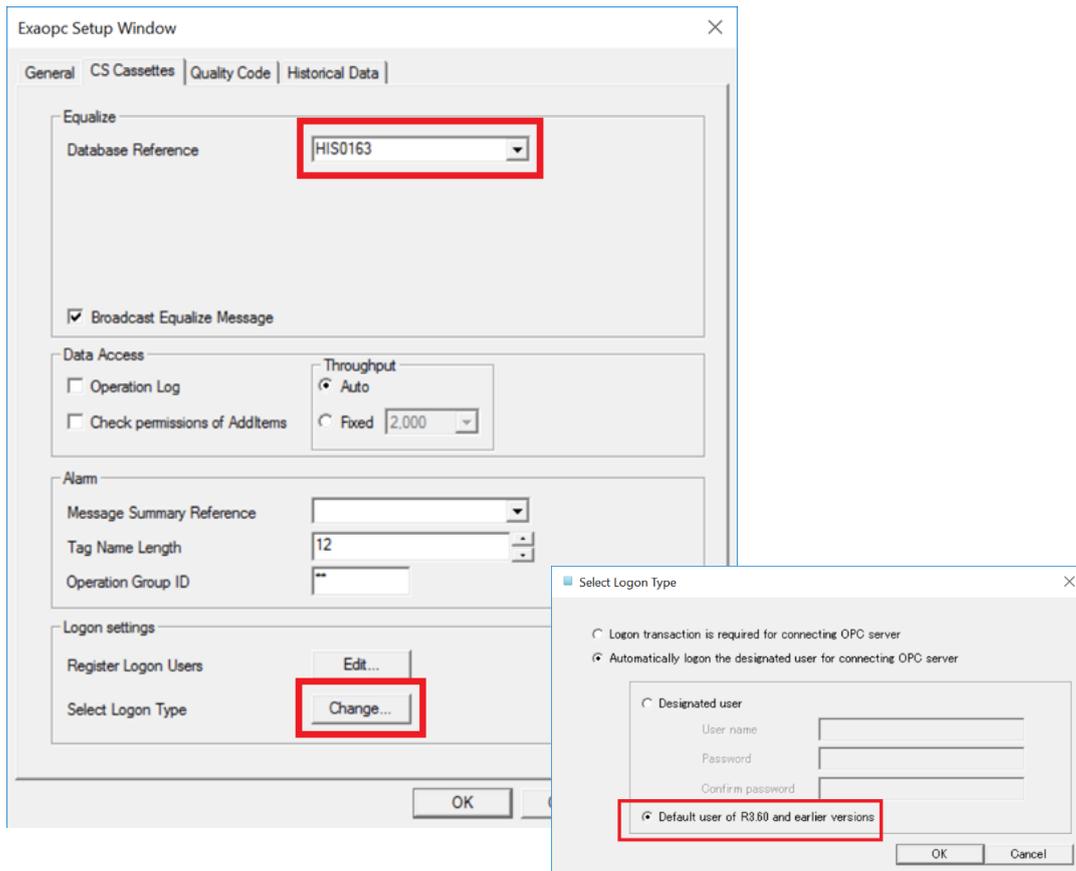
2.4.3 CAMS for HIS Tab

Ensure Enable CAMS for HIS is selected.
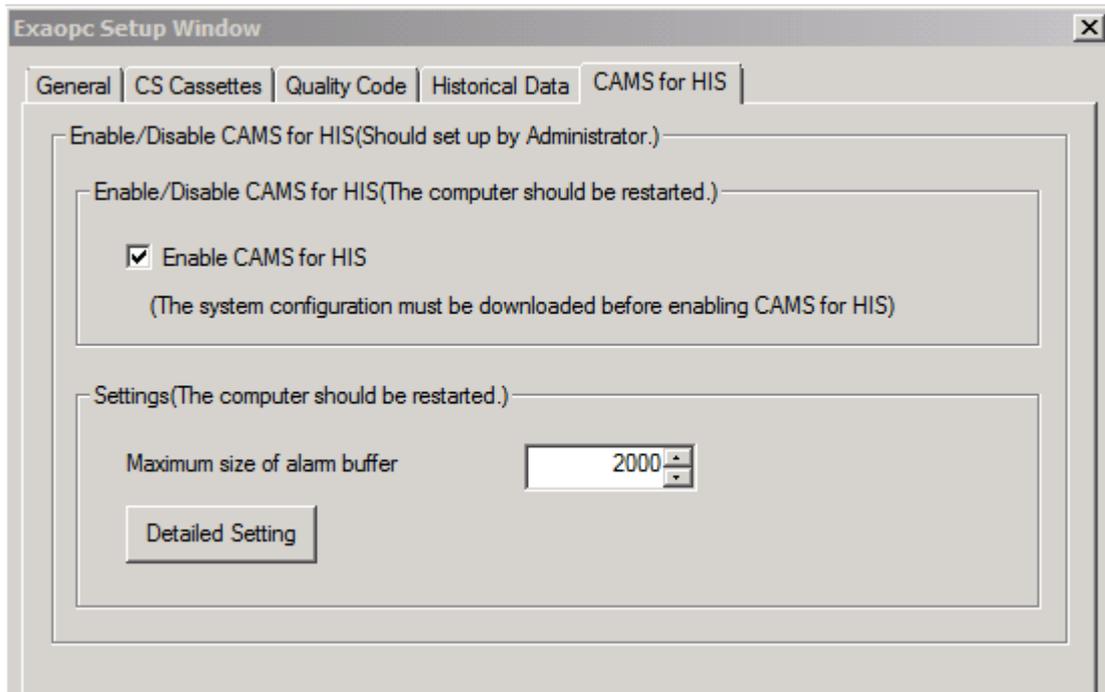
2.5 CAMS Inside Condition Check Tool

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

C:\EXA\CENTUM\CAMS\tool\CAMSInsideConditionCheckTool.exe

When run, click update and the following window should be displayed:
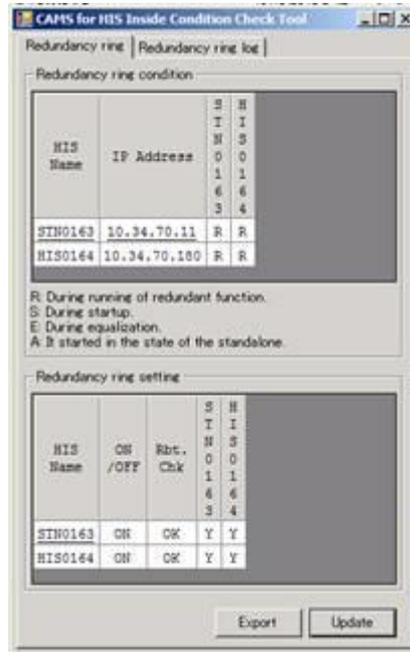
The 'redundancy ring log' tab can be used to display a more detailed log if errors are occurring.

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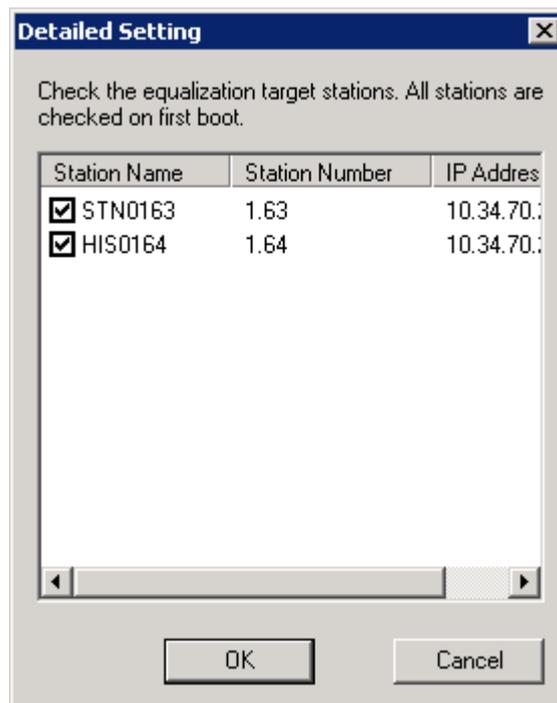
It will display the HIS and the STN, along with their IP addresses.

2, Click 'OK'. If everything is fine, it will display the following box.
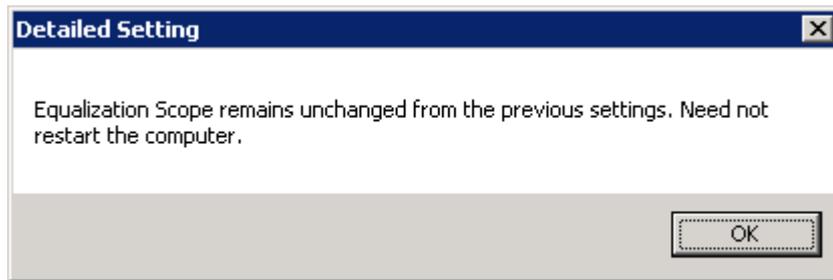
Otherwise, it will display the following:
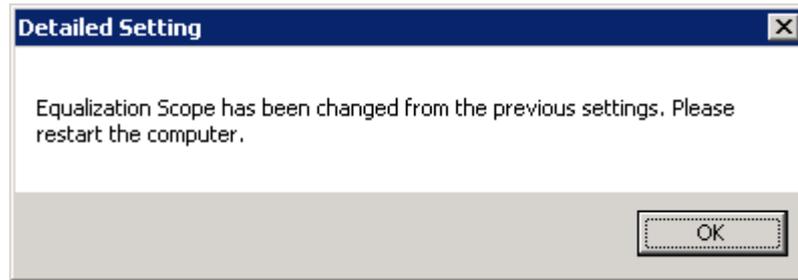
3, Click OK and restart the system. If CAMS data is still not appearing on the Exaopc server, verify that the network settings are correct on the HIS (see top of page) - any changes to this may require equalization to occur again.

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.
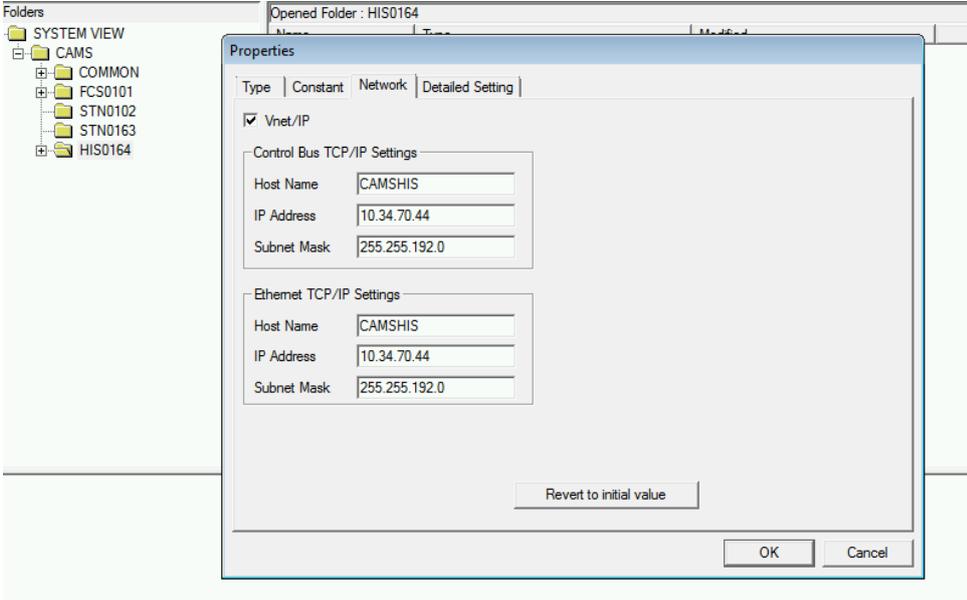
Chapter 3 Further Reading

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