Knowledge



Base

Exaquantum Bulk Tag Deletion

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Products Affected	Exaquantum/PIMS	
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Summary	Bulk Deletion of Tags within Exaquantum using three different methods	
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Table of Contents

Table of Contents	1
Chapter 1 Introduction	2
1.1 Audience	2
Chapter 2 Tag Deletion	3
2.1 Tag Deletion Methods	3
2.1.1 Method 1 – Selecting Tags / Groups of Tags	3
2.1.2 Method 2 – Deleting Tags In A Folder	5
2.1.3 Method 3 – Deleting Tags Using The Tag Maintenance Tool	6
Chapter 3 Using The Tag Maintenance Tool	7
3.1 Overview	7
3.1.1 Permissions Required	7
3.2 Using The Tag Maintenance Tool	7
3.2.1 The 'Auto Search' Tab	7
3.2.2 The 'File Read' Tab	8
3.3 Tag Maintenance Tool CSV File	10
3.3.1 Using the Tag Maintenance Tool to Delete Selected Tags	11
3.3.2 Using the Tag Maintenance Tool to Delete a Function Block	12
Chapter 4 Further Reading	15
Copyright and Trademark Notices	16
Highlights	17

Chapter 1 Introduction

It may become necessary for a number of different reasons to undertake the deletion of Tags from within an Exaquantum system.

This document will describe three different methods to allow the bulk deletion of tags, More than one tag at a time, Whole folder of tags or by using the Tag Maintenance Tool.

Before using any of the methods described in this user guide, it is essential that a **Full Database Backup** of all databases is undertaken before the deletion of any Tags from the Exaquantum System.

1.1 Audience

This guide is intended for system integrators and administrators.

Chapter 2 Tag Deletion

2.1 Tag Deletion Methods

There may be a requirement to delete Tags from an Exaquantum System and the method used to delete the Tags can vary depending on the location of the tags and/or the number of Tags, with the recommended method being the deletion of Tags that are contained in a folder.

2.1.1 Method 1 – Selecting Tags / Groups of Tags

It is possible to select more than one tag at a time (Contiguous or Non-Contiguous) in the Tag Editor and the **Remove** option will delete all the selected tags in one operation.

Contiguous List Of Tags

Select the **First** tag to be deleted using the Admin Tools / Tag Editor Press the **Shift** key (Keep it pressed) Select the **Last** tag to be deleted Keep the **Shift** key pressed and Right-Click the mouse

The following menu will be displayed allowing you to Remove the selected tags

Tag Editor			
E 🖧 Root			
E CAMSHIS			
CALCU00)1		
	2		
DM Lag	A		
FDM	Add		
FDM	Edit		
FDM	Remove		
FDM	Penamo		
PIDC	Kename		
PIDC	Cut	Ctrl+X	
PPC-			
PPC-	Refresh Nod	le	

Non-Contiguous List Of Tags

Select the **First** tag to be deleted using the Admin Tools / Tag Editor Press the **Control (Ctrl)** key (Keep it pressed) Select the **Next** tag to be deleted and **repeat** for each required tag Keep the **Shift** key pressed and Right-Click the mouse

The following menu will be displayed allowing you to Remove the selected tags

Tag Editor			
Root CAMSHIS CAMSHIS CALCUOOI CALCUOOI CALCUOOI FDM Tag FDM Tag	1		
FDM 1	Add Edit		
PIDOC	Remove Rename		
PPC-C	Cut	Ctrl+X	
	Refresh Node		

When Deleting Tags using the method described, the Confirm Tag Removal dialog box will be displayed.

Remov	e		
Ren	noving elements may	effect referencing) tags.
⚠	🗹 Do not remove if ref	erence exists	
Show	Cross-references	ОК	Cancel

The 'Do not remove if reference exists' check-box (if selected) will not allow deletion of any Tags that are still Referenced within Exaquantum.

If the check box is selected and the Show Cross-References button is pressed, a dialogue box will be displayed showing any referencing Tags or a dialogue box stating that referencing Tags were not found.

If the OK button is pressed then all the selected Tags will be deleted and the following dialogue box will be displayed.

Remove	
Remove Status -	
Remov	ing 'CRBManTAG470'

2.1.2 Method 2 – Deleting Tags In A Folder

It is possible to delete whole folders which will delete all tags in that folder. It is sometimes easier to move tags to be deleted into a single folder and then delete the folder once you are satisfied that only the tags you wish to delete are in that folder.

If the Tags to be deleted are not already in a folder, then create a New Folder by Right-Clicking on the Root Folder and select Add, select the 'Folder' option, enter the folder name and the New folder will be displayed.

Tag Edi	tor			Add Exaquantum Object X
	Add			📄 🧇 🥎
	Edit			Folder Function Block Calculated Tag Manual Tag
	Remove			
	Upgrade to Late	est		OPC Tag
-	Cut	Ctrl+X		l
	Refresh Node			OK Cancel Help
Add Folde	r		×	Tag Editor
Enter the n	ame of the new fo	older		E - A Root
	Tags To B	e Deleted		CAMSHIS
	ame			Tags To Be Deleted
		OK Cancel	Help	CALCU001
		Cance	Пер	CALCU002

Use the standard Windows Drag and Drop method or Cut and Paste method to move/paste the Tags you wish to Delete into the newly created folder and you will then be asked to confirm that you wish to Move/Paste the Tag(s) as shown below.

Tag Editor	Х
Are you sure you want to move this object?	
OK Cancel	

You can select single or multiple tags to move (Using the 'Shift' Key and 'Ctrl' Key Methods).

When all the required tags have been placed in the relevant folder, the folder can be Deleted.

Tag Editor		
CAMSH	IS Re Deleted	
	Add	
	Edit	
CAL	Remove	
FDM	Rename	
FDM	Upgrade to Latest	
FDM	Cut	Ctrl+X
PID	Refresh Node	

When Deleting Tags using the method described, the Confirm Tag Removal dialog box will be displayed.

Remov	e		
Rer	noving elements may	effect referencing	g tags.
⚠	🗹 Do not remove if ref	erence exists	
Show	Cross-references	ОК	Cancel

The 'Do not remove if reference exists' check-box (if selected) will not allow deletion of any Tags that are still Referenced within Exaquantum.

If the check box is selected and the Show Cross-References button is pressed, a dialogue box will be displayed showing any referencing Tags or a dialogue box stating that referencing Tags were not found.

If the OK button is pressed then all the selected Tags will be deleted and the following dialogue box will be displayed.

Remove
Remove Status Removing 'CRBManTAG470'

2.1.3 Method 3 – Deleting Tags Using The Tag Maintenance Tool

The **Tag Maintenance Tool** can be found in the Developer Tools folder of the Exaquantum installation, typically in the location shown below.

'<Exaquantum Install Folder>\Developer Tools\QTagMaintenance.exe'

If a list of the tags required to be deleted can be created then this can be modified to provide a Comma Separated Value (CSV) import file for use with the Tag Maintenance Tool.

Chapter 3 contains a typical example of how to delete Tags using the Tag Maintenance Tool.

Chapter 3 Using The Tag Maintenance Tool

3.1 Overview

It is essential that a **Full Database Backup** of all databases is undertaken before using the Tag Maintenance Tool to delete any Tags.

The Tag Maintenance Tool (QTagMaintenance.exe) can also be used to Bulk Delete tags that are defined by the user and contained within an Imported CSV file.

To launch the Tag Maintenance Tool, double-click on the following file: <Exaquantum Install Folder>\Developer Tools\QTagMaintenance.exe

3.1.1 Permissions Required

The permissions required to run the Tag Maintenance Tool are shown below.

Security Model	Permission Required
Legacy	Member of QAdministratorGroup Group
Standard	Member of QTM_MAINTENANCE Group

3.2 Using The Tag Maintenance Tool

The Tag Maintenance Tool comprises of two 'Tabs' within the Main Screen

3.2.1 The 'Auto Search' Tab

Tag Maintenance Tool [Designated Ser	ver - CRB-315-CON	/]			-		×
Auto Search File Read							
OPC Gateway All OPC Gateways		•	Sea	arch			
Remove Offline Path		Туре	OPC Gatewa	y OPC Item Id	Information		
CSV file]	Save	e	Run	Clo	se
Number of Records : 0	07-Oct-20	9:51 AM	CAPS				/

3.2.2 The 'File Read' Tab

Tag Maintenance Tool [Designated Sen	ver - CRB-315-CON	M]		_		×
Auto Search File Read						
CSV file			Read			
Remove Offline Path		Туре	Information			
CSV file			Save	Run	Clo	se
Number of Records : 0	07-Oct-20	9:55 AM	CAPS			1.

When using the Tag Maintenance Tool to Bulk Delete tags, the 'File Read' tab is used to import a CSV file that has been prepared by the user which contains a list of Tags that the user wishes to delete.

The 'File Read' Tab contains five main areas that are used when deleting tags.

3.2.2.1 The CSV Select File Box

	 - 1	1
CSV file	 	Read
	_	

3.2.2.2 The READ Button

Reads the specified the CSV file by directly entering the file name or selecting the file from the Select File dialog box. If the specified CSV file format is wrong, an error dialog is displayed as shown below. Click OK to close the dialogue box.

T	ag Maint	enance Tool	Х
	<u>^</u>	CSV file format error. Please refer to Instruction Manual, and modify to the correct file format. Exaquantum Engineering Guide Volume 3 Support Tools (IM 36J04A15-03E)	
		ОК	

3.2.2.3 The Information Grid

Remove Offline	Path	Туре	Information

On the File Read tab, the grid contains the list of tag information read from the specified CSV file. The detail for each column on the grid is described below.

Remove

Check box for selecting a tag or function block for removal.

Offline

The Offline column contains Check boxes for the selection of one or more tags, to change the status to online or offline.

Path

Displays a full path name for each tag or function block

Туре

Displays the following tag types

Function block, OPC tag, Manual tag, Calculation tag, Shortcut tag

Information

Displays tag and / or function block status information

3.2.2.4 The RUN Button

Removes all tags and function blocks that have been selected to be removed in the information grid. During removal, the result of each remove action is displayed in the Information column

Upon clicking this button, the Confirm Tag Removal dialog box will be displayed.

Remove				
Removing elements may effect referencing tags.				
Do not remove if reference exists				
Show Cross-references	ОК	Cancel		

The 'Do not remove if reference exists' check-box (if selected) will not allow deletion of any Tags that are still Referenced within Exaquantum.

If the check box is selected and the Show Cross-References button is pressed, a dialogue box will be displayed showing any referencing Tags or a dialogue box stating that referencing Tags were not found.

Click the OK button to continue and the following screen will be displayed.

 Remove 	Offline	Path		Туре	Information
		Root.PPC-Calc-A		CALC	Remove complete.
			Tag Mainte	nance Tool	×
			rug mainte		~
				Processing c	ompleted.
			-		
					ОК

Click the OK button to close the Processing Completed Dialogue Box

3.2.2.5 The CLOSE Button

Closes the Tag Maintenance Tool

3.3 Tag Maintenance Tool CSV File

The Tag Maintenance Tool uses a CSV file which can be edited with common software such as Microsoft Excel or Notepad as an input/output file. The CSV file is formatted as follows:

Line 1 - Header, with individual data column names

Line 2+ - Each line contains tag or function block data.

Lines that begin with the "#" character are treated as a comment.

For a file that is user created, the format required by the Tag Maintenance Tool is shown below.

Column 1 : Name - Remove

Description - Defines the value for the Remove check box. Column Values are shown below.

- 0 = None of check boxes
- 1 = Unchecked; Do not remove the tag.
- 2 = Checked; Remove the tag.

Column 2 : Name – Offline

Description - Defines the value for the Offline check box

Column Values are shown below

- 0 = Offline not applicable (tag is not OPC or CALC)
- 1 = Unchecked; Set as Online tag. (If the tag is already online, do nothing)
- 2 = Checked; Set as Offline tag. (If the tag is already offline, do nothing)

Column 3 : Name – Path

Description - Full pathname of tag or function block to be removed. Column Value Full Pathname (Maximum length 256 characters)

The "Remove, Offline, Path" columns are mandatory for the CSV file (Examples Below)

Example of user-defined file containing 1 manual tag <CR> Denotes a 'Carriage Return' #Remove, Offline, Path <CR> 2,0,Root.A02.M001.120SWITCH0101 <CR>

Column 1 = 2 (Checked - Remove the tag) Column 2 = 0 (Offline not applicable) Column 3 = Full Path (Root.A02.M001.120SWITCH0101)

Example of user-defined file containing function block data <CR> Denotes a 'Carriage Return' #Remove, Offline, Path <CR> 2,0,Root.B03.O001.130TEST0101 <CR> Column 1 = 2 (Checked - Remove the tag) Column 2 = 0 (Offline not applicable) Column 3 = Full Path (Root.B03.O001.130TEST0101) Example of user-defined file containing more than one manual tag <CR> Denotes a 'Carriage Return' #Remove, Offline, Path <CR> 2,0,Root.A02.M001.120SWITCH0101 <CR> 2,0,Root.A02.M001.120SWITCH0102 <CR> 2,0,Root.A02.M001.120SWITCH0103 <CR> 2,0,Root.A02.M001.120SWITCH0104 <CR> 2,0,Root.A02.M001.120SWITCH0105 <CR> 2,0,Root.A02.M001.120SWITCH0106 <CR> 2,0,Root.A02.M001.120SWITCH0107 <CR> 2,0,Root.A02.M001.120SWITCH0108 <CR> 2,0,Root.A02.M001.120SWITCH0108 <CR> 2,0,Root.A02.M001.120SWITCH0108 <CR> 2,0,Root.A02.M001.120SWITCH0108 <CR> 2,0,Root.A02.M001.120SWITCH0108 <CR>

Column 1 = 2 (Checked - Remove the tag) Column 2 = 0 (Offline not applicable) Column 3 = Full Path

Bulk Deletion of tags will require the user to create a CSV file in the format described above.

This process will save the user having to manually delete the Tags individually or placing the Tags to be deleted into a function block which is then deleted.

Use of the Tag Maintenance Tool for Tag deletion will be at the user's discretion, as it may be as quick to delete the Tags Manually/Create Function Block then delete the function block if there are less than 100 Tags to be deleted.

The use of the Tag Maintenance Tool becomes more beneficial when the number of Tags to be deleted ranges from 100 to 1000 or more.

3.3.1 Using the Tag Maintenance Tool to Delete Selected Tags

It has been identified that a Tag 'PPC-Calc-A' needs to be deleted

A CSV File name 'Tag_To_Delete.csv' was created and contained the following information

#Remove,Offline,Path 2,0,Root.PPC-Calc-A

In this case the contents are detailed as below

Column 1 = 2 (Checked - Remove the tag/function block) Column 2 = 0 (Offline not applicable) Column 3 = Full Path (Root.PPC-Calc-A)

The CSV file is imported into the Tag Maintenance Tool by using the following procedure.

1) Select the CSV File using the CSV Selection Box

CSV file	C:\Users\Quantumuser\Downloads\Tag_To_Delete.csv	<u> </u>

2) Click the Read button to Import the CSV File

Exaquantum Bulk Tag Deletion Knowledge Base Article

	CSV file C:\Users\Quantumuser\Downloads\Tag_To_Delete.cs\					Read
L	Remove Offline		Path	Туре	Inform	nation
L			Root.PPC-Calc-A	CALC		

Please Note - The 'Remove' Check Box is already selected (As Per CSV File)

3) Click the Run button to Delete the Tag

The Confirm Tag Removal dialog box will be displayed



The 'Do not remove if reference exists' check-box (if selected) will not allow deletion of any Tags that are still Referenced within Exaquantum.

If the check box is selected and the Show Cross-References button is pressed, a dialogue box will be displayed showing any referencing Tags or a dialogue box stating that referencing Tags were not found.

4) Click the OK button to continue and the following screen will be displayed.



Click the OK button to close the Processing Completed Dialogue Box

5) The Tag 'Root.PPC-Calc-A' has now been deleted

This can be confirmed by clicking the RUN button again and noting the 'Information' column

Remove	Offline	Path	Туре	Information
		Root.PPC-Calc-A		Path does not exist.

6) Click the Close button to close the Tag Maintenance Tool

3.3.2 Using the Tag Maintenance Tool to Delete a Function Block

It has been identified that a Function Block 'DS TEST 5' needs to be deleted

A CSV File name 'FB_To_Delete.csv' was created and contained the following information #Remove,Offline,Path 2.0.Root.DS TEST 5 In this case the contents are detailed as below Column 1 = 2 (Checked - Remove the tag/function block) Column 2 = 0 (Offline not applicable) Column 3 = Full Path (Root.DS TEST 5)

The CSV file is imported into the Tag Maintenance Tool by using the following procedure

1) Select the CSV File using the CSV Selection Box

CSV file	C:\Users\Quantumuser\Downloads\FB_To_Delete.csv	0
----------	---	---

Click the Read button to Import the CSV File

CSV file C:\Users\Quantumuser\Downloads\FB_To_Delete.csv Read							
	Remove	Offline	Path	Туре	Information		
	✓		Root.DS TEST 5	FB			
			Root.DS TEST 5.CALCU001	OPC			
			Root.DS TEST 5.CALCU002a	OPC			

Please Note – The 'Remove' Check Box is already selected (As Per CSV File)

 Click the Run button to Delete the Function Block The Confirm Tag Removal dialog box will be displayed

Remove	
Removing elements may	effect referencing tags.
Do not remove if re	ference exists
Show Cross-references	OK Cancel

The 'Do not remove if reference exists' check-box (if selected) will not allow deletion of any Tags that are still Referenced within Exaquantum.

If the check box is selected and the Show Cross-References button is pressed, a dialogue box will be displayed showing any referenced Tags or a dialogue box stating that referencing Tags were not found.

If the check-box is not selected, then all the selected Tags will be deleted.

3) Click the OK button to continue and the following screen will be displayed.

TEST 5 TEST 5.CALCU001 TEST 5.CALCU002a	FB OPC OPC	Remove complete.
TEST 5.CALCU001 TEST 5.CALCU002a	OPC	
TEST 5.CALCU002a	OPC	
Tag Ma	intenance Tool Processing	×
		Processing

Click the OK button to remove the Processing Completed Dialogue Box

Exaquantum Bulk Tag Deletion Knowledge Base Article

 The Function Block 'Root.DS TEST 5' has now been deleted This can be confirmed by clicking the RUN button again and noting the 'Information' column

Remove	Offline	Path	Туре	Information
		Root.DS TEST 5		Path does not exist.

5) Click the Close button to close the Tag Maintenance Tool

Information Column

The Information column can contain several messages, which are detailed within the document Exaquantum Engineering Guide (IM 36J04A15-03E)

Volume 3 - Chapter 24 - Tag Maintenance Tool - Table 24-4

Messages that are pertinent when deleting Tags/Function Blocks are listed below

Message Description

Remove Complete Succeeded in removing data

Remove Failed Failed to remove data, reasons can include

Tag or function block does not exist

A tag build or delete operation is already in progress

Remove Offline	Path	Туре	Information
	Root.DS TEST 5	FB	Remove complete.
	Root.DS TEST 5.CALCU001	OPC	
	Root.DS TEST 5.CALCU002a	OPC	

Messages that are pertinent when confirming Tag/Function Block deletion are listed below

Message

Description

Path does not exist The specified path does not exist in the Exaquantum server

Remove	Offline	Path	Туре	Information
		Root.DS TEST 5		Path does not exist.

A log of each remove operation performed by the Tag Maintenance Tool can be viewed with the System Event Viewer.

🔊 System Events Viewer [Designated Server - CRB-315-COM] — 🗆			×	
File Options				
🖬 🖦 🖗 🗊				
Start Time	End Time	Maximum Events		
Now - I - Hours	Now V O Hours V	1000 -		
Timestamp User Id Source	e Operation Information			
07-Oct-20 2:03:43 PM Quantumuser Name	space Delete Root.DS TEST 5			
07-Oct-20 2:03:43 PM Quantumuser Tag G	Generation Remove Root.DS TEST 5.CALCU001			
Number of System Events : 2	07-Oct-20 3:03 PM CAPS			1.

Chapter 4 Further Reading

Further Details regarding the use of the Tag Maintenance Tool can also be found in the following document.

Exaquantum Engineering Guide – Volume 3 – Chapter 24 – Tag Maintenance Tool (IM 36J04A15-03E)

If you have any questions regarding the use of the Tag Maintenance Tool then please contact support.ymx@yokogawa.com

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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 2.0 of the document related to Product Library version 8.0.

Detail of Changes

The changes are as follows:

Chapter/Section/Page	Change
Front page	Review Date updated
Page 15	Email address updated