Knowledge

Base

Exaquantum Bulk Tag Deletion

KB-0007-22

Document Summary	
Article Type	User Guide
Products Affected	Exaquantum/PIMS
Versions Affected	R3.15 and above
Function Affected	Tag Maintenance Tool
Available Resolution	Not Applicable
Audience	System Integrators and Administrators
Summary	Bulk Deletion of Tags within Exaquantum using three different methods
Review Date	Document to be reviewed before end of November 2024

Table of Contents

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.

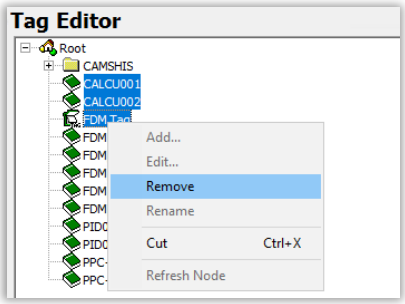
2.1.1 Method 1 – Selecting Tags / Groups of Tags

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

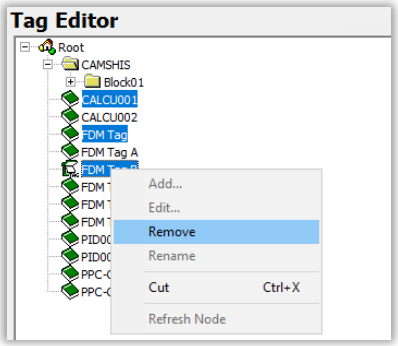
The following menu will be displayed allowing you to **Remove** the selected tags



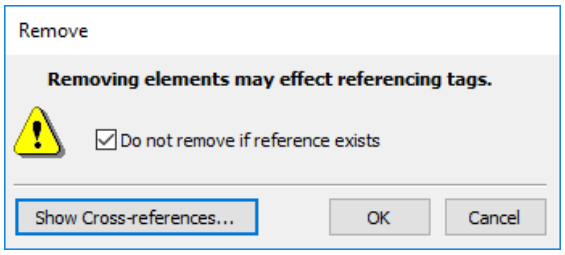
Non-Contiguous List Of Tags

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



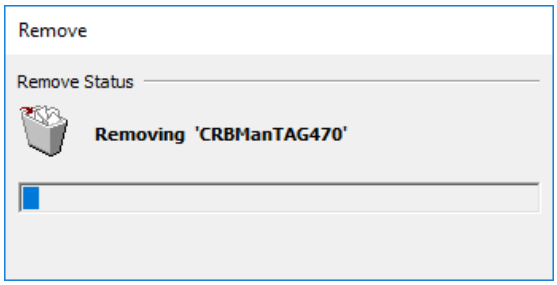
When Deleting Tags using the method described, the Confirm Tag Removal dialog box will be displayed.



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.

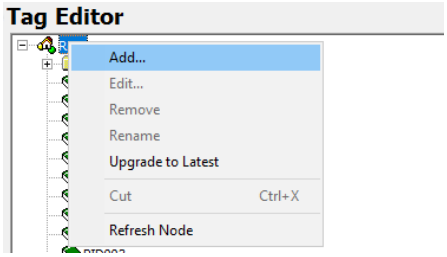
If the OK button is pressed then all the selected Tags will be deleted and the following dialogue box will be displayed.

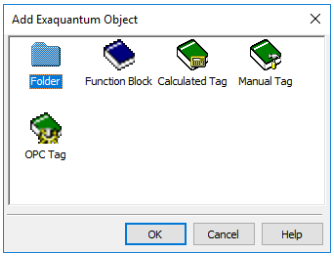


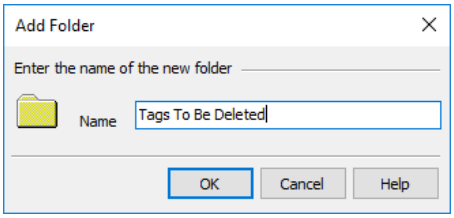
2.1.2 Method 2 – Deleting Tags In A Folder

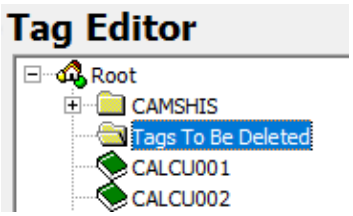
It is possible to delete whole folders which will delete all tags in that folder. It is sometimes easier to move tags to be deleted into a single folder and then delete the folder once you are satisfied that only the tags you wish to delete are in that folder.

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.

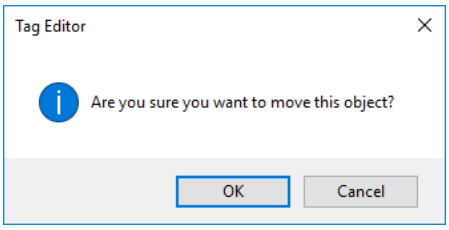






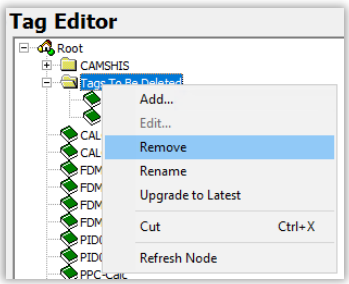


Use the standard Windows Drag and Drop method or Cut and Paste method to move/paste the Tags you wish to Delete into the newly created folder and you will then be asked to confirm that you wish to Move/Paste the Tag(s) as shown below.

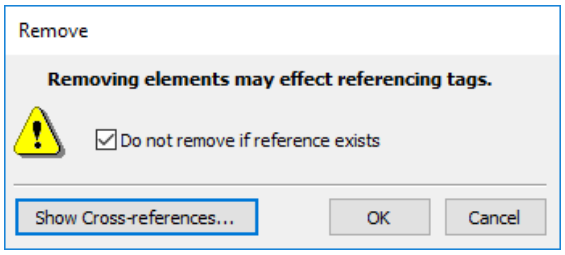


You can select single or multiple tags to move (Using the 'Shift' Key and 'Ctrl' Key Methods).

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



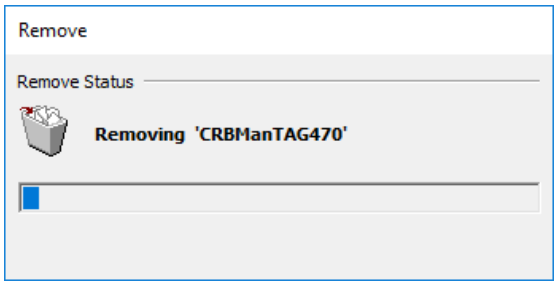
When Deleting Tags using the method described, the Confirm Tag Removal dialog box will be displayed.



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.

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



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

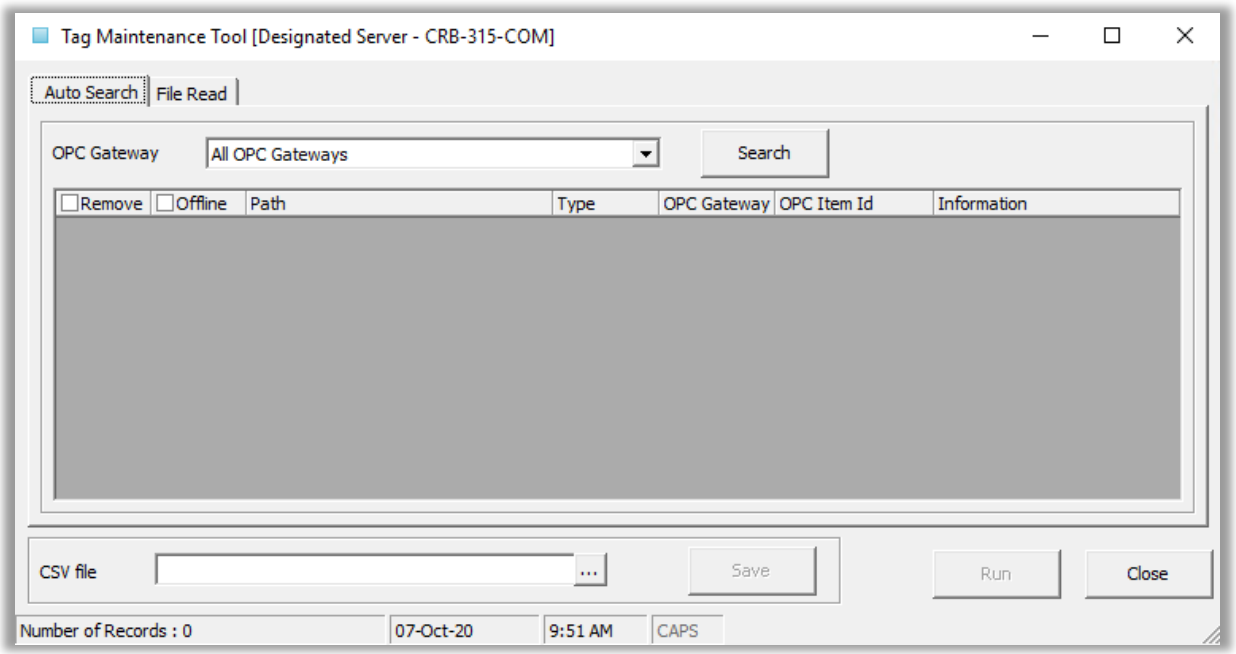
The permissions required to run the Tag Maintenance Tool are shown below.

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

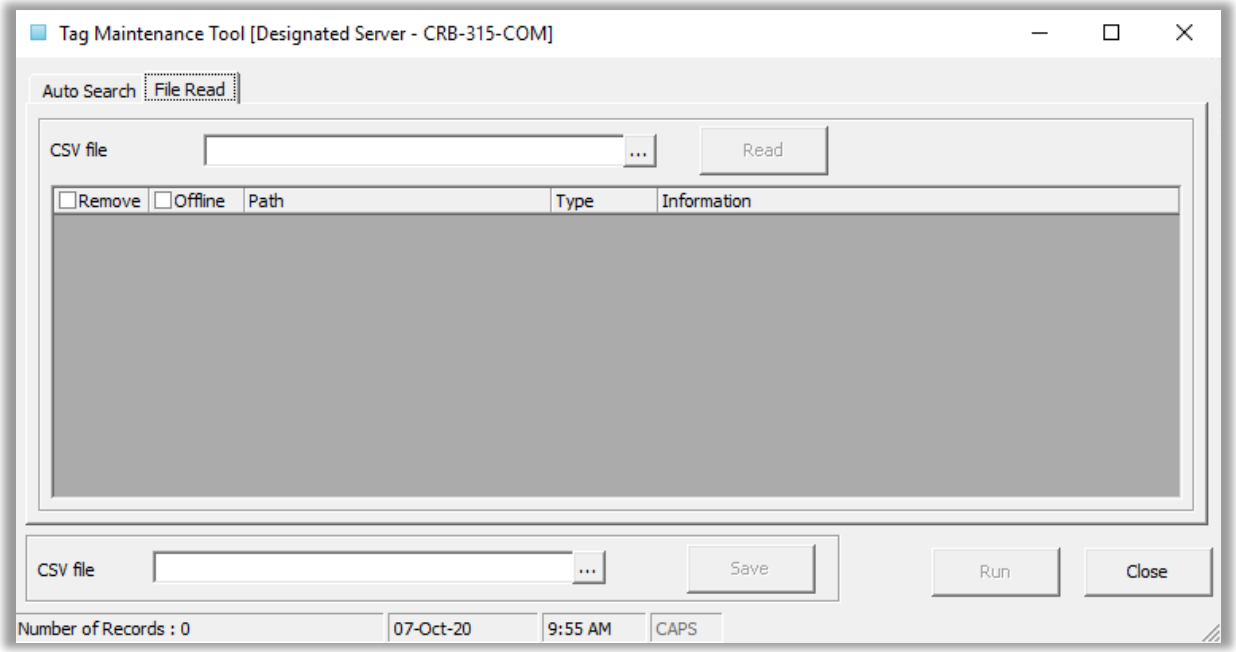
3.2 Using The Tag Maintenance Tool

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

3.2.1 The 'Auto Search' Tab



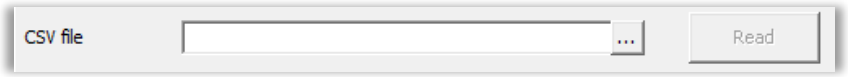
3.2.2 The ‘File Read’ Tab



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.

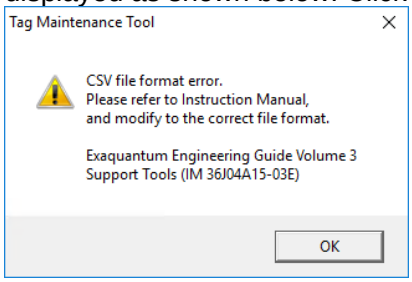
The ‘File Read’ Tab contains five main areas that are used when deleting tags.

3.2.2.1 The CSV Select File Box

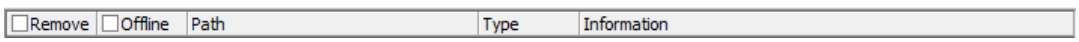


3.2.2.2 The READ Button

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.



3.2.2.3 The Information Grid



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

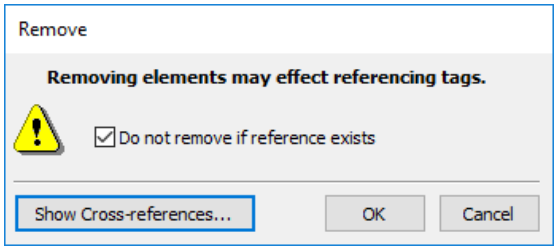
Type
Displays the following tag types
Function block, OPC tag, Manual tag, Calculation tag, Shortcut tag

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

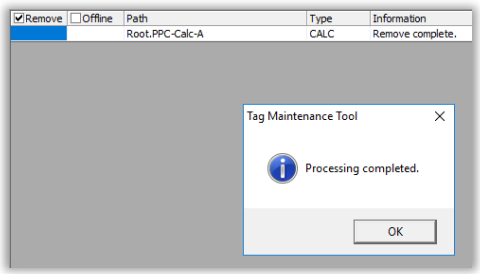
Upon clicking this button, the Confirm Tag Removal dialog box will be displayed.



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.



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.M001.120SWITCH0109 <CR>
2,0,Root.A02.M001.120SWITCH0110 <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

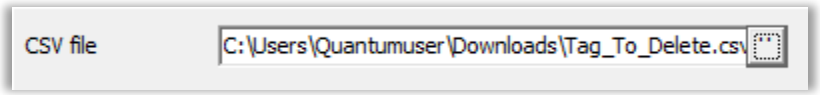
#Remove,Offline,Path
2,0,Root.PPC-Calc-A

In this case the contents are detailed as below

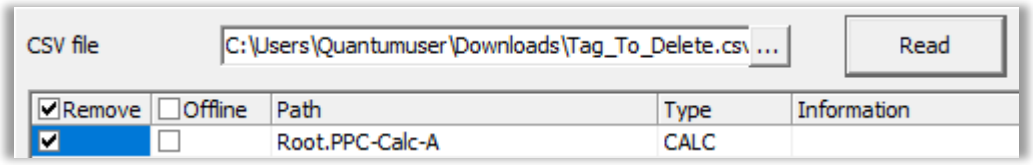
Column 1 = 2 (Checked - Remove the tag/function block)
Column 2 = 0 (Offline not applicable)
Column 3 = Full Path (Root.PPC-Calc-A)

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



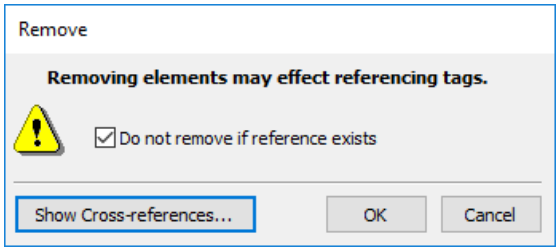
2) Click the Read button to Import the CSV File



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

3) Click the Run button to Delete the Tag

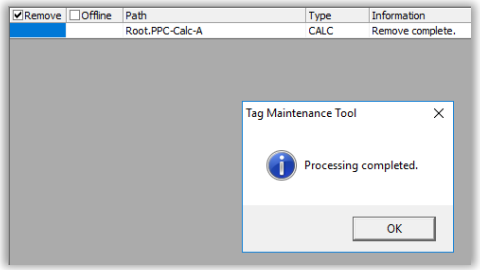
The Confirm Tag Removal dialog box will be displayed



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

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

3.3.2 Using the Tag Maintenance Tool to Delete a Function Block

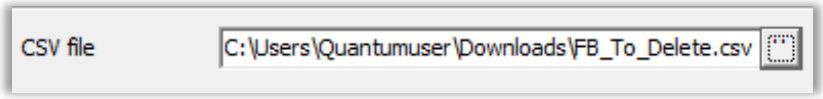
It has been identified that a Function Block 'DS TEST 5' needs to be deleted

A CSV File name 'FB_To_Delete.csv' was created and contained the following information
#Remove,Offline,Path
2,0,Root.DS TEST 5

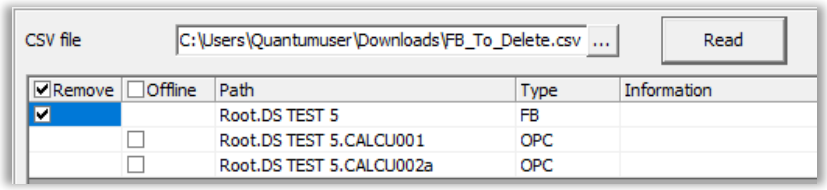
In this case the contents are detailed as below
Column 1 = 2 (Checked - Remove the tag/function block)
Column 2 = 0 (Offline not applicable)
Column 3 = Full Path (Root.DS TEST 5)

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

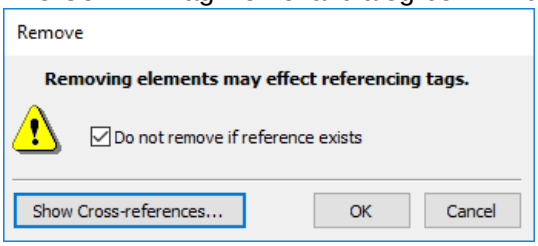


Click the Read button to Import the CSV File



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

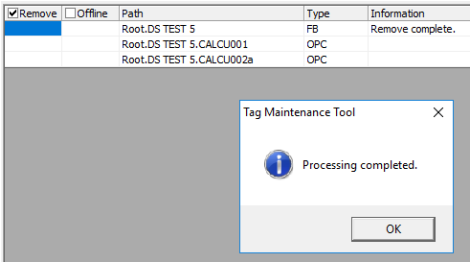
2) Click the Run button to Delete the Function Block
The Confirm Tag Removal dialog box will be displayed



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

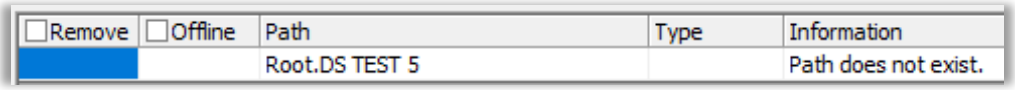
If the check box is selected and the Show Cross-References button is pressed, a dialogue box will be displayed showing any referenced Tags or a dialogue box stating that referencing Tags were not found.
If the check-box is not selected, then all the selected Tags will be deleted.

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



Click the OK button to remove the Processing Completed Dialogue Box

4) 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	Type	Information
		Root.DS TEST 5		Path does not exist.

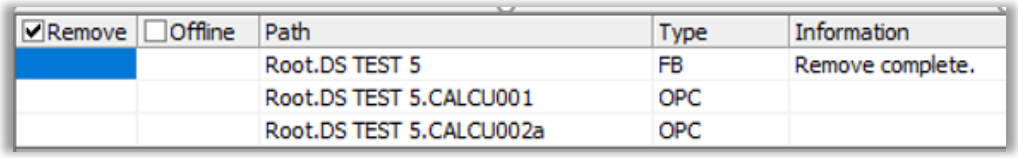
5) Click the Close button to close the Tag Maintenance Tool

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

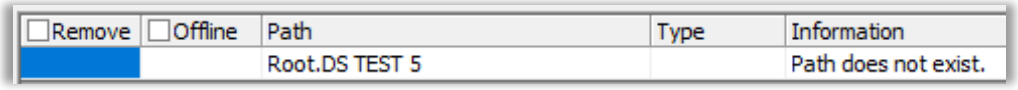
Message	**Description**
Remove Complete	Succeeded in removing data
Remove Failed	Failed to remove data, reasons can include Tag or function block does not exist A tag build or delete operation is already in progress



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

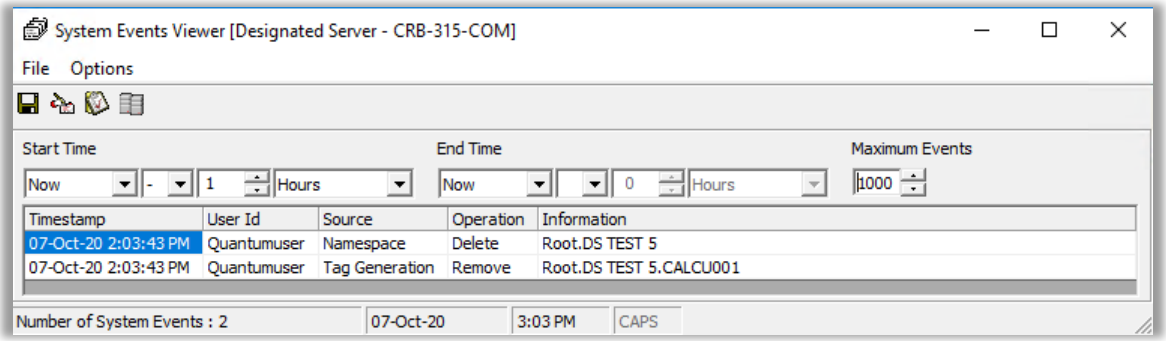
Messages that are pertinent when confirming Tag/Function Block deletion are listed below

Message	**Description**
Path does not exist	The specified path does not exist in the Exaquantum server



Remove	Offline	Path	Type	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.



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