Using the ExaquantumExplorer Excel Add-in within Batch Reports

KB-0059-22

Document Summary	
Article Type	User Guide
Products Affected	Exaquantum/Batch
Versions Affected	R3.10 Onwards
Function Affected	Exaquantum Explorer Excel Add-In
Available Resolution	Installing The Explorer Excel Add-In As The Service User
Audience	System Integrators and Administrators
Summary	#Name and #Register messages are displayed in Exaquantum/Batch reports when using the Explorer Add-In
Review Date	Document to be reviewed before October 2023

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Chapter 1 Introduction

When attempting to use the Exaquantum Explorer Excel Add-In within Exaquantum/Batch reports the #Name and #Register status messages can be displayed within a report.

#Name is caused by the fact that the Exaquantum/Explorer Add-In is not loaded automatically.

It is therefore necessary to install the Exaquantum/Explorer Add-In into the Excel Profile for the Service User manually.

#Register is caused by the fact that when the report runs in automation mode, the Start Data update is initially disabled.

It will therefore be necessary to enable the Start Data update option programmatically in the Batch Report Template.

1.1 Audience

This guide is intended for system integrators and administrators.

Chapter 2 Use of Explorer Excel Add-In within Batch Reports (#Name)

If it is required to use the Exaquantum/Explorer Excel Add-in within Exaquantum/Batch reports, there are two things that need to be taken into consideration.

1. The Exaquantum/Batch Report Manager runs as the Exaquantum Service User and this means that the Excel profile for the Service User must include the Exaquantum/Explorer Excel Add-In in order for reports to function correctly.

    This is not the case with the Exaquantum/Batch Add-in or Exaquantum Query Add-in which use SQL Queries rather than Excel formulas.

    The procedure for including the Exaquantum/Explorer Excel Add-in for the Exaquantum Service User is described in **Section 2.1 for Legacy** Model Security and **Section 2.2 for Standard** Model Security.

2. The Exaquantum/Explorer Excel Add-in although simple and easy to use was not designed to be used within Exaquantum/Batch Reports.

    It was designed to be used interactively and completes **asynchronously** and there is no way that the Report Manager can know when all the data has been received.

    If the Report Rendering completes prior to all the data retrieved by the Exaquantum/Explorer Excel Add-in then some cells will not be populated with data and will contain the **#Register** status indicator.

    If this is the case then it may be necessary to increase the time that a report waits for queries to complete and to modify the Report Template as described in Chapter 3.

Note

Although more complex to configure we would recommend using the Trend Data Selector, Exaquantum Query Add-in (Exaquantum/Explorer User's Manual Volume 4 Chapter 6) or the Exaquantum API (see the 3 Batch Trend Data report examples supplied in the Advanced Reports group of the Report Manger and the Exaquantum API Reference Manual) in preference to the Exaquantum/Explorer Excel Add-in.

2.1 Using Legacy Model Security

When using Legacy Model Security follow the steps detailed below.

1) Log-In as the **Service User** (Quantumuser).

2) Start Up Microsoft Excel.

3) Open the Add-Ins dialog by clicking the Options button on the Excel File Menu.
Then selecting Add-Ins from the options list on the left of the Excel Options dialog and finally clicking the Go... button with Excel Add-Ins selected in the Manage drop down that appears on the bottom middle of the Excel Options dialog.

4) Select "Exaquantum Explorer Excel Add-In" from the available "Add-Ins" list.
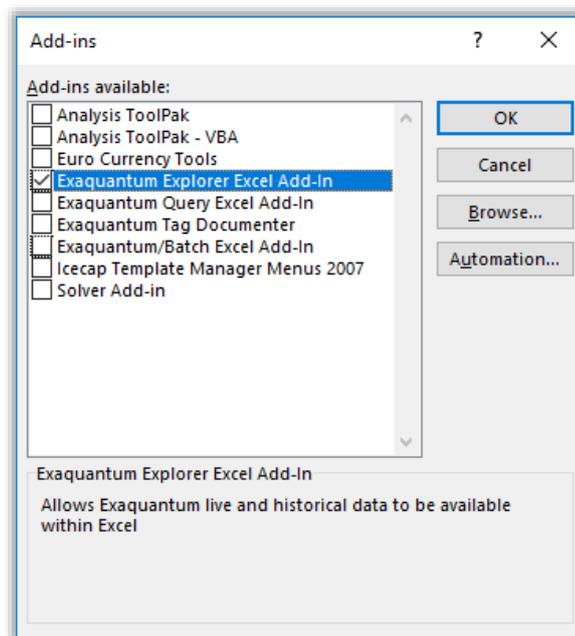
Note : If the add-in does not appear in the list, then exit Excel, and copy the Add-In file into the correct location. All add-ins should reside in the Library subfolder for the version of Microsoft Office being used. For example, if using Excel 2019 (32 Bit) then the correct location will be :- C:\Program Files (x86)\Microsoft Office\root\Office16\Library

Use Window Explorer to search for the Add-in file Exaquantum Explorer Add-In.xlam and then move it to its correct location.

If the file cannot be found or the user does not have the necessary privileges to copy files on the machine then the Systems Administrator will need to be contacted.

5) Click on [**OK**] to save the changes and close the window, Exit from Excel, then Log-Out as the Service User.

Note : If the check box has been selected but the menu does not appear then clear the check box, click the OK button to close the dialog and then repeat the steps once more.

2.2 Using Standard Model Security

Additional Steps are required when Standard Model Security, therefore follow the steps detailed below.

1) Change the password of the **Service User** (QTM_PROCESS) account to something simple using the **CreateQTMProcess** executable with the -p option from the Exaquantum DVD Disk 1.

   For details on the use of the **CreateQTMProcess** executable see the following document. Exaquantum Installation Guide - Chapter 2 - Pre-Installation Preparation - Page 27 (IM 36J04A13-01E)

2) Allow login to the QTM_PROCESS account by removing it from the **Deny log on locally** entry in the User Rights Assignment section of the Local Security Policy.
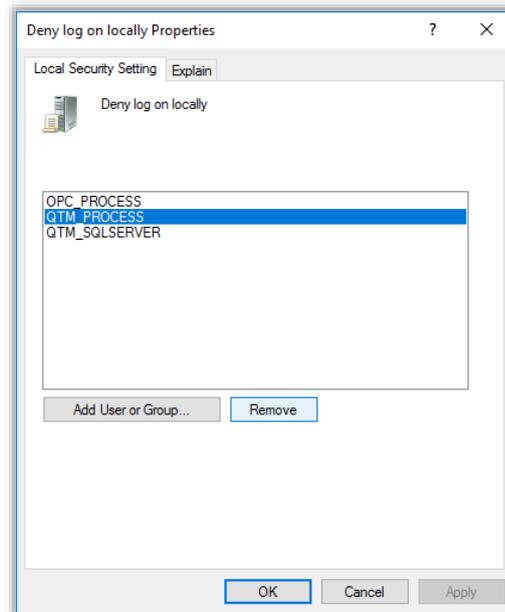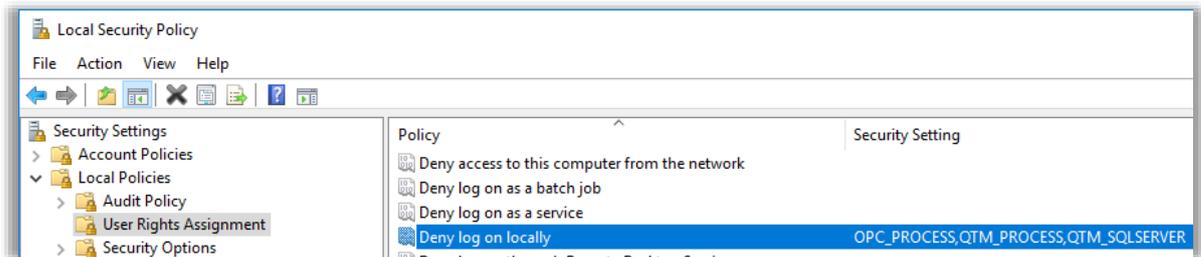
3) Log in as the **Service User** (QTM_PROCESS) using the Password set in Step 1.

4) Follow Steps **2 thru 5** from Section 2.1.

5) Reset the QTM_PROCESS account password by running the **CreateaQTMProcess** executable **without** the -p option.

Chapter 3 Use of Explorer Excel Add-In within Batch Reports (#Register)

3.1 Using Legacy and Standard Model Security

The following Work-Around is Valid for use on both Legacy and Standard Model Security.

#Register is caused by the fact that when the report runs in automation mode, the Start Data update is initially disabled.

It will therefore be necessary to enable the Start Data update option programmatically in the Batch Report Template.

A suitable location would be the Parameter Sheets 'On Change' Event Handler.

An Example of this is shown in the section of code below:

```
Private Sub Worksheet_Change(ByVal Target As Range)

If Target.AddressLocal = "$C$3" Then
  '$C$3 Refers to the First Parameter set for the report, for example the BatchUID'
  On Error GoTo QStart_ERROR
  Application.Run "QStart", Nothing
  Worksheets("Report").Cells(1, 5).Value = "QStart Called successfully"
  End If

Exit Sub

QStart_ERROR:
Worksheets("Report").Cells(1, 5).Value = Err.Description

End Sub
```

We also recommend that code similar to the following is placed in the 'This Workbook' Section of the Report:

```
Private Sub Workbook_BeforeClose(Cancel As Boolean)

    On Error GoTo QStop_ERROR

    Application.Run "QStop", Nothing

Exit Sub

QStop_ERROR:

End Sub
```

Chapter 4 Further Reading

Further Details regarding the use of the Exaquantum Explorer Excel Add-In can be found in the following document.

Exaquantum/Explorer User's Manual - Volume 3
Excel Reports Chapter 2 – Excel Add-In (IM 36J04A12-03E).

Further Details regarding the use of the CreateQTMProcess executable can be found in the following document.

Exaquantum Installation Guide - Chapter 2
Pre-Installation Preparation - Page 27 (IM 36J04A13-01E).

Further Details regarding additional Exaquantum/Batch Information can be found using the On-Line Help that is contained within Exaquantum/Batch which can be accessed by selecting the **Read More…** option on the **Quick Help** section of the Batch-Web Screen and then selecting the **Show** option on the subsequent screen to display the On-Line '**Help**' System.
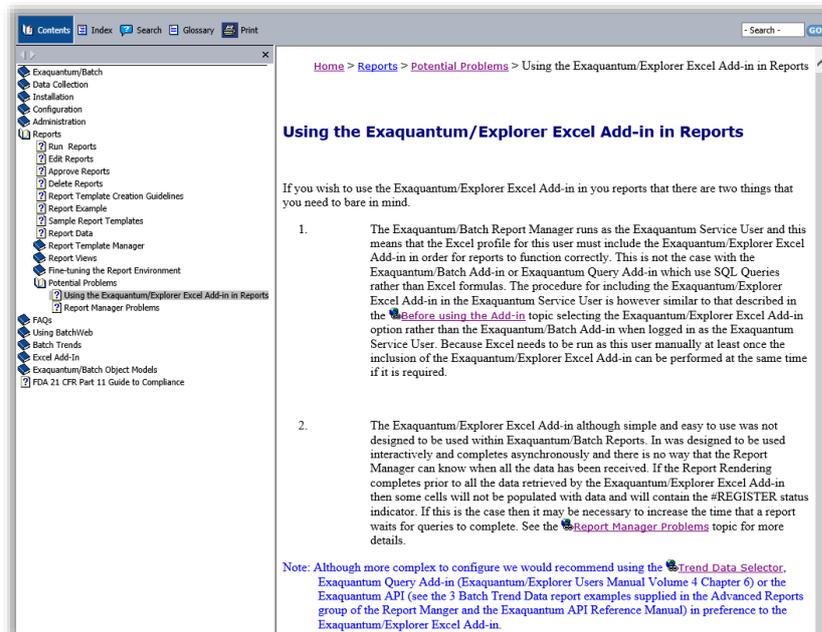
If you have any questions, then please contact support@ymx.yokogawa.com

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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 1.0 of the document related to Product Library version 1.0.

▪ **Detail of Changes**

The changes are as follows:

Chapter/Section/Page	Change