## Knowledge

## Base

# **Exaquantum** Batch

## **Batch Deleted Status**

KB-0045-22

Document Summary								
Article Type	User Guide							
Products Affected	Exaquantum/Batch							
Versions Affected	All Versions							
Function Affected	Batch Web and Batch Reporting							
Available Resolution	Not Applicable							
Audience	System Integrators and Administrators							
Summary	Some Valid Batches can have an incorrect execution status of 'DELETED' and therefore Exaquantum ignores the results.							
Review Date	Document to be reviewed before End Apr 2023							



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## **Chapter 1 Introduction**

Under certain circumstances which are not fully understood it is possible for Active Batches to be incorrectly assigned an execution status of 'DELETED'.

This causes Exaquantum/Batch to ignore any further status changes for this batch which will result in some data such as the following not being collected.

- Batch-End Timestamp
- Formula Item Updates
- Batch End Reports

An issue with ExaOPC was observed which resulted in this behaviors being exhibited and was fixed in the later releases as detailed in Chapter 2.

There have been other occasions/instances of the problem being observed, for which the root causes have still not been identified.

Further investigations at the time of occurrence with additional 'Logging' will be put in place as and when required.

A work-round has been devised (See Chapter 3 and Chapter 4) that requires the running of an SQL Script when the problem has been observed, which can also be run automatically as required.

The Script and Windows BAT file detailed in this document have undergone testing at Yokogawa Marex, but as is good practice, it is highly advised that a **Full Database Backup** be taken in advance of executing the SQL Script or Windows BAT File for the first time.

### 1.1 Audience

This guide is intended for system integrators and administrators.

## **Chapter 2 Related Known Issue**

Prior to the release Exaopc/Batch R3.74 there was a bug which meant that there were some circumstances when Exaquantum Batch would obtain a partial batch list from the Control System which would then result in this behavior.

An initial patch for this problem was also made for R3.73 (R3.73.03).

All Batches so marked will be ignored by Exaquantum Batch even if at a later time they reappear in the list.

A formal fix for this problem was included in Exaopc R3.74 / Exaquantum/Batch R2.50.40 and also included modifications to better handle such abnormal conditions.

## **Chapter 3 Security Model**

The information shown in this chapter describes the steps needed when implementing the solution at the different Security Levels within Exaquantum.

The procedure detailed in this document was undertaken using the Legacy Model of Security Level and used the Quantumuser account.

### 3.1 Security – Legacy Model

When implementing the solution at Legacy Security, the steps required are as detailed in this document, with reference to the account information detailed below. As required, another user account can be created for the running of the Script. (References to the Quantumuser account in this document will need to be updated as needed).

The user account created will need to be a member of the following security groups.

QAdministratorGroup

QUserGroup

### 3.2 Security – Standard Security Model

When implementing the solution at Standard Security, the steps required are as detailed in this document, with reference to the account information detailed below. A user account in the following groups will be required in order to run this Script. (References to the Quantumuser account in this document will need to be updated as needed).

The user account used needs to be a member of the following security groups:

QTM\_DATA\_READ

QTM\_MAINTENANCE (Standard Standalone Security Model)

QTM\_MAINTENANCE\_LCL (Standard Domain Security Model)

## **Chapter 4 SQL Script**

The SQL Script ClearDeletedStatusRestartAsRequired.sql can be obtained from the Yokogawa Affiliate Portal – <u>Useful Tools and Scripts</u> Section.

In this example it has been downloaded into the following directory C:\CRB

References to C:\CRB within this section of the document should be replaced with the directory into which the file has been downloaded.

### 4.1 SQL Script – Detailed Information

The SQL Script is shown below for informational purposes only with **embedded comments** detailing the steps that the script undertakes.

-- This Script Checks/Updates Exaquantum Batch Status Messages, Correcting Any Entries That Have Been Added In Error -- This procedure uses the xp\_cmdshell extended stored procedure so we temporarily enable it use master EXEC sp\_configure 'show advanced options', 1 GO -- To update the currently configured value for advanced options. RECONFIGURE GO -- To enable the feature. EXEC sp\_configure 'xp\_cmdshell', 1 GO -- To update the currently configured value for this feature. RECONFIGURE GO -- Switch to the QBatch database and define variables use QBatch Declare @BatchUld as integer Declare @BatchId as nvarchar(64) Declare @Period as integer Declare @Message as nvarchar(64) Declare @Count as integer Declare @Waitcount as integer -- Period is the schedule period. It is expected that this will be run once every 7 days so the period is set to 7. set @Period = -7 -- The Waitcount is used to say how long the process should wait before attempt to restart the service or report an error -- The value of 6 will provide a wait of up to 30 seconds. Set @Waitcount = 6 -- We are looking for all the batches which do not have an end time but have a deleted status -- We first get a list of all the batches of the requested period that have no EndTime Declare BatchCursor cursor for Select batchUID,BatchId from BatchReportView where ActualEndTime is Null and ReservedTime >= DATEADD(d,@Period,SYSDATETIME()) **Open BatchCursor** Fetch Next from BatchCursor into @BatchUID, @BatchId set @Count = 0While @@FETCH\_STATUS = 0

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```
Begin
-- We now check to see whether the latest status recorded for each of the batches in turn is DELETED (ExacutionStatusUid of 13)
         if (Select top 1 ExecutionStatusUid from BatchExecStatusHistory where BatchUID = @BatchUID order by Timestamp
Desc) = 13
         Begin
                   -- If we have a deleted status then we increment the count by 1, remove that deleted status and raise an event
in the event log
                   -- This is a warning not an error although we should not have this status clearing it is the reason for the running
of this script
                   Set @Count = @Count + 1
                   Delete from QBatch..BatchExecStatusHistory Where ExecutionStatusUId = 13 and BatchUId = @BatchUId
                   set @Message = 'Unexpected DELETE status removed from batch ' + @BatchId
                   EXEC xp_logevent 60001 , @Message , 'WARNING'
         End
         Fetch Next from BatchCursor into @BatchUID, @BatchId
End
Close BatchCursor
Deallocate BatchCursor
-- Before any changes will take place, the Automatic Batch Data Collection Service needs to be restarted
-- We only do this however if a change has been made
if @Count > 0
Begin
          DECLARE @result as Integer
         DECLARE @StoppedOK as Integer
         Set @StoppedOK = 0
         Exec @Result = xp_cmdshell 'Net Stop QBAutoBDC'
         IF (@result = 0)
         Begin
                   -- Log an informational message to say that we have stopped the Service
                   ---
                   set @Message = 'Automatic Batch Service Stop Requested by Delete Check'
                   EXEC xp_logevent 60002, @Message , 'INFORMATIONAL'
                   Set @StoppedOK = 1
         End
         ELSE
         Begin
                   -- If we are unable to stop the service we need to flag this as an error
                   set @Message = 'Unable to stop Automatic Batch Data Collection Service'
                   EXEC xp_logevent 60002, @Message , 'ERROR'
         End
         -- If the stop request was successful
         if @StoppedOK = 1
         begin
                   -- This section checks to see if the stop was successful
                   -- To do this a temporary table is required to store the service status
                   CREATE TABLE #ServicesStatus
                             Status varchar(50)
                   )
                   -- Get current service status
                   Insert Into #ServicesStatus EXEC xp servicecontrol N'QUERYSTATE', N'QBAutoBDC'
                   Declare @Status varchar(max)
                   Select @Status=status from #ServicesStatus
                   Truncate Table #ServicesStatus
                   Set @count = 0
```

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End

GO

GO

GO

GO

GO

GO

```
While (@Status != 'Stopped.' and @Count <= @Waitcount)
                  Begin
                            WAITFOR DELAY '00:00:05'
                            Insert Into #ServicesStatus Exec xp_servicecontrol N'QUERYSTATE', N'QBAutoBDC'
                            Set @Count = @Count + 1
                  End
                  Drop Table #ServicesStatus
                  -- If the stop was successful we request the service to restart
                  If @Count <= @Waitcount
                  Begin
                            Exec @Result = xp_cmdshell 'Net Start QBAutoBDC'
                            IF (@Result = 0)
                            Begin
                                     -- Log an informational message to say that we have restarted the Service
                                     set @Message = 'Automatic Batch Service Start Requested by Delete Check'
                                     EXEC xp_logevent 60003 , @Message , 'INFORMATIONAL'
                            End
                            ELSE
                            Begin
                                     -- If we are unable to start the service we need to flag this as an error
                                     set @Message = 'Unable to start Automatic Batch Service'
                                     EXEC xp_logevent 60003 , @Message , 'ERROR'
                            End
                  End
         End
-- Finally switch off the xp_cmdshell once more
Use Master
-- show advanced options
EXEC sp_configure 'show advanced options', 1
RECONFIGURE
-- disable xp_cmdshell
EXEC sp_configure 'xp_cmdshell', 0
RECONFIGURE
-- hide advanced options
EXEC sp_configure 'show advanced options', 0
RECONFIGURE
```

### 4.2 Running the SQL Script as an SQL Server Agent Job

To Run the SQL Script as an SQL Server Agent Job use the steps below.

- 1) Open SQL Server Management Studio.
- Navigate and open the SQL Server Agent/Jobs tree. (In the example below a New Job has already been created).



3) Select and Right-Click on the Jobs section of the Tree (As Below).



4) Select **New Job** and enter details as shown in the example screen below.

#### **General Section**

📑 Job Properties - CheckForD	eletedStatus		-		×
Select a page General	🔄 Script 👻 📑 Help				
Steps Schedules	Name:	CheckForDeletedStatus			
Alerts Notifications	Owner:	CRB-310-CBX\Quantumuser			
argets	Category:	[Uncategorized (Local)]		~	
	Description:	Check and Amend Deleted Status From BatchExecutionStatusHistory (Table			
Connection					
Server: CRB-310-CBX	Enabled				
Connection: CRB-310-CBX\Quantumuser	Source:				
View connection properties	Created:	24/09/2021 13:26:53			
Program	Last modified:	24/09/2021 13:46:36			
Ready	Last executed:	24/09/2021 15:20:00			
Veg p	View Job History				
	1	ОК		Canc	el

5) Select the **Steps** Option / **New** Button from the screen displayed below.

Calanta anna						
Select a page General	Script 🔻 🚺 H	łelp				
Schedules	Job step list:					
Alerts Notifications Targets	Step Name		Туре	On Success	On Failure	
Connection						
Server: CRB-310-CBX						
Connection: CRB-310-CBX\Quantumuser						
Wew connection properties						
Progress	Move step:	Start step:				
	<b>★ ₩</b>					
Ready						

### **Steps Section**

6) Enter the details as shown in the screen below.

**New Job Step - General Section** 

Select a page       Script ~ D Help         General       Step name:         Advanced       Step name:         Run SQL Script       Type:         Transact-SQL script (T-SQL)          Run as:          Database:       QBatch         Open       - This Script Checks/Updates Exaqauntum Batch Status Messages, Co          - This procedure uses the xp_cmdshell extended stored procedure so with a master         Select All       Open         Server:       Command:         Server:       Select All         CRB-310-CBX       Copy         Connection:       Paste         Progress       To update the currently configured value for this feature.         RECONFIGURE       GO         Go       - To update the currently configured value for this feature.         RECONFIGURE       GO         Go       - To update the currently configured value for this feature.         RECONFIGURE       GO         Go       - To update the currently configured value for this feature.         RECONFIGURE       GO         Go       - To update the currently configured value for this feature.         RECONFIGURE       -         GO       -         Freques	💽 New Job Step		- 0	×
Connection     Copy       Server: CRB-310-CBX Connection properties     Parse       Image: Progress     Parse	Select a page General Advanced	Scipt - Is Help Step name: Run SQL Script Type: Transact-SQL script (T- Run as:	SQL)	~
Server: CRB-310-CBX     GO       Consection: CRB-310-CBX/Quantumuser     Paste       Parse     - To enable the feature: EXEC sp_configure %p_cmdshell", 1 GO       Wew connection properties     Parse       Wew connection properties     - To update the currently configured value for this feature. RECONFIGURE GO       Progress     - Switch to the QBatch database and define variables       Next     Previous	Connection	Database: Command: Open Select All	QBatch       This Script Checks/Updates Exaqauntum Batch Status Messages, C                   use master       EXEC sp_configure 'show advanced options', 1       GO                ECONFIGURE	× .0 • w
Progress      >       Ready     Next     Previous	Server: CRB-310-CBX Connection: CRB-310-CBX\Quantumuser IView connection properties	Paste Parse	GO - To enable the feature. EXECs p_configure \p_cmdshell', 1 GO - To update the currently configured value for this feature. RECONFIGURE GO - Switch to the QBatch database and define variables	~
	Progress Ready		< Next Previou	IS

To Enter the Command Text, Select Open and navigate to the saved SQL Script, which then be pasted into the command window automatically after selecting the Script file.

To ensure that the Commands have been pasted correctly, select the Parse option which should display the following dialogue box.



If the dialogue box is not as shown above, then please contact Yokogawa Marex Support at <u>customer.services@ymx.yokogawa.com</u>.

Click **OK** to close the dialogue box.

7) Enter the details and select any options as shown in the screen below.

Job Step Properties - 1		-		×
Select a page	Script      ✓      Script	Retry ir	nterval (min 0 View View	vutes):
Connection Server: CRB-310-CBX Connection: CRB-310-CBX\Quantumuser Wew connection properties Progress Ready Ready	Run as user			
		ОК	Cance	#

#### New Job Step - Advanced Section

Click **OK** to close the Section and the following screen should be displayed.

Coloret a page	_						
Selecta page	Script	🔻 [ Help					
Schedules	Job step	o list:					
Alerts Notifications	Step	Name			Туре	On Success	On Failure
Targets	1	Run SQL Script			Transact-SQ	Quit the job r	Quit the job re
Connection Server:							
CRB-310-CBX Connection:							
CRB-310-CBX\Quantumuser							
Progress	Move st	ep:	Start step:				
Ready	* *	•	1:1				
A A A A A A A A A A A A A A A A A A A		New	Insert	E	dit	Delete	

8) Select the **Schedules** Option / **New** Button shown in the screen below.

#### **Schedules Section**

📑 Job Properties - NEW - Che	kForDeletedStatus		-		×
Select a page	Script 👻 🚺 Help				
Schedules	Schedule list:				
Aiers	ID Name Enabled Description				J
Connection					
Server: CRB-310-CBX Connection: CRB-310-CBX-Quantumuser					
Progress Ready	New Pick Edit Remov	/e			
		ОК		Cano	el

9) Enter the details as shown in the screen below.

#### **Schedules Section**

🛄 Job Schedule Prope	rties - Batch Deleted Error Schedule	-		×
Name:	Batch Deleted Error Schedule	Jobs in So	chedule	
Schedule type:	Recurring	Enabled		
One-time occurrence Date:	27/09/2021 V Time: 15:02:00 🗘			
Frequency				-
Occurs:	Weekly ~			
Recurs every:	1 week(s) on			
	Monday Wednesday Friday	Saturday		
	Tuesday Thursday	🗸 Sunday		
Daily frequency				- !
Occurs once at:	03:00:00			
Occurs every:	1 lour(s) Starting at: 15:20:00	* *		
	Ending at: 23:59:59			
Duration				-
Start date:	03/10/2021 🗐 🗸 🔿 End date: 24/09/	/2021 🔲 🔻		
	No end date:			
Summary				_
Description:	Occurs every week on Sunday at 03:00:00. Schedule will be used star	ting on 03/10/202	1.	0
	ОК	Cancel	Help	]

It is envisaged that the script would be run **weekly** on a day and at a time that is conducive with the operation of the Exaquantum Batch system.

Click **OK** to close the Section and the screen shown below should be displayed.

🛃 Job Properties - CheckFor	DeletedStatus						-		×
Select a page	Script 💌	🚹 Help							
Schedules	Schedule list:								
Alerts	ID Nam	ne .	Enabled	Description			Jobs	in Sched	dle
Targets	4078 Bate	ch Deleted Error Sched	lule No	Occurs every day	at 15:20:00. Schedule will be	e used between	New	L .	
Connection Server:									
CRB-310-CBX Connection: CRB-310-CBX/Counterpart									
View connection properties									
Progress									
Ready									
4 <sup>4</sup> <sup>10</sup> 2	New.	Pic	*	Edit	Remove				
						OK		Cance	

10) Click OK to return to the SQL Server Management Studio Main Screen.



The New SQL Server Agent Job created above will now be shown in the list and will be executed in accordance with the schedule that was selected.

### 4.3 Running the SQL Script from a Windows Batch (BAT) File

The SQL Script ClearDeletedStatusRestartAsRequired.sql and Windows Batch file ClearDeletedStatusRestartAsRequired.bat can be obtained from the Yokogawa Affiliate Portal – <u>Useful Tools and Scripts</u> Section

In this example they have been downloaded into the following directory C:\CRB

References to C:\CRB within this section of the document should be replaced with the directory into which the file has been downloaded.

The Windows Batch (BAT) file is shown below for informational purposes only.

#### @echo off

sqlcmd -i C:\CRB\ClearDeletedStatusRestartAsRequired.sql

exit

If the files are downloaded into another directory, the **C:\CRB** text above should be updated with the directory into which the file was downloaded.

Also, references to C:\CRB within this section of the document should be replaced with the correct directory.

The SQL Script can be run using the Windows Batch (BAT) file with the Windows Task Scheduler by following the steps below.

1) Open the Windows Task Scheduler Application

Select Task Scheduler Library from the tree and a new screen will be displayed (In the example below a New Task has already been created).

								-	
I Task Scheduler							-	U	×
Hie Action View Help									_
			_			_			_
Task Scheduler (Local)	Name		Status	Triggers	Next Run Tir	Ac	tions		
7 The seneadler clonary	Adobe Acro	bat Update Task	Ready	Multiple triggers defined	28/09/2021 0	Ta	sk Scheduler Library		•
	CheckForQ	BatchDeletedStatus	Ready	At 15:30 on 24/09/2021	20/20/2021 0		Create Basic Task		
	EOPerfmon	es StartOnLogin	Ready	At system startup	20/09/20210	•	Create Task		
	() User_Feed_S	Synchronization-(B45	Ready	At 17:44 every day - Trigger expires at 03/07/2030 17:44:50.	27/09/2021 1		Import Task		
	Oser_Feed_S	Synchronization-(F56B	Ready	At 17:52 every day - Trigger expires at 27/09/2031 17:52:13.	27/09/2021 1	-0	Display All Running Tasks		
							Enable All Tasks History		
							New Folder		
							View		
						Q	Refresh		
						?	Help		
	<i>(</i>					Se	lected Item		•
			-		,		Run		
	General Trigg	ers Actions Conditio	ns Sett	ttings History (disabled)		1.0	End		
	Name:	CheckForQBatchDelete	dStatus			4	Disable		
	Location:	N Contraction					Export		
	Author:	CRB-310-CBX\Quantum	nuser				Properties		
	Description:	CheckForQBatchDelete	dStatus	5		×	Delete		
						2	Help		
	Security opti	ions							
	When runni	ng the task, use the follo	wing us	ser account:					
	CRB-310-CE	8X\Quantumuser							
	O Run only	when user is logged on							
	Run whe	ther user is logged on o	rnot	I with the end of the second					
		iot store password. The	task will	i only have access to local resources					
	Kun with	nignést privileges							
	Hidden	Configure for: V	/indows	s Vista™, Windows Server™ 2008	~				
	P					1			

2) Select and Right-Click Task Scheduler Library and select Create Task.

Task Scheduler										
File Action View	Help									
🗢 🔿 🖄 🗖 🛛	🔶 🙍 📰 🛛 🖬									
🕒 Task Scheduler (Le	ocal)	Name	Status							
> 🔀 Task Schedule	- 1 : I	este Pasic Task	Status							
	C	eate basic Task								
	Cr	eate Task								

- 3) Enter the details and select any options as shown in the screen below.
  - **General Tab**

CheckForQE	latchDeletedStatus Properties (Local Computer)	×				
General Trigg	ers Actions Conditions Settings History (disabled)					
Name:	ame: CheckForQBatchDeletedStatus					
Location:	١					
Author:	CRB-310-CBX\Quantumuser					
Description:	CheckForQBatchDeletedStatus					
Security opt	ons					
When runni	ng the task, use the following user account:					
CRB-310-CBX\Quantumuser Change User or Group						
O Run only when user is logged on						
Run whee	Run whether user is logged on or not					
Do not store password. The task will only have access to local computer resources.						
Run with highest privileges						
🗌 Hidden	Configure for: Windows Vista™, Windows Server™ 2008	~				
	OK Cancel	Ļ				

4) Select the Triggers tab and click the **New** button.

### **Triggers Tab**

Create Task		
General Trigger	5 Actions Conditions Settings	
When you crea	e a task, you can specify the conditions that will	trigger the task.
Trigger	Details	Status
New	Edit Delete	
		OK Cancel

- 5) Enter the details and select any options as shown in the screen below.
  - New Trigger

New Trigger		×			
Begin the task: On Settings	a schedule				
<ul> <li>One time</li> <li>Daily</li> <li>Weekly</li> <li>Monthly</li> </ul>	Start:       03/10/2021       03:00:00       Synchronize across time zones         Recur every:       1       weeks on:         Sunday       Monday       Tuesday       Wednesday         Thursday       Friday       Saturday				
Advanced settings  Delay task for up to (random delay): 1 hour  Repeat task every: 1 hour  for a duration of: 1 day  Stop all running tasks at end of repetition duration					
Stop task if it ru Expire: 28/09/2 Enabled	ns longer than: 3 days ✓ 2022				
	OK Cancel				

6) Click **OK** to return to the following screen.

) Check	<sup>-</sup> orQBatch	DeletedSt	atus Properti	es (Local C	omputer)				
General	Triggers	Actions	Conditions	Settings	History (dis	abled)			
When y	ou create	a task, you	u can specify	the condi	ions that wil	l trigger th	e task.		
Trigge	r	Det	ails					Status	
Weekl	у	At	03:00 every S	unday of e	very week, st	arting 03/1	0/2021	Enabled	
				_					
			D 1 1						
Nev	v	Edit	Delet	le					

It is envisaged that the script would be run **weekly** on a day and at a time that is conducive with the operation of the Exaquantum Batch system.

7) Select the Actions tab and click the **New** button.

#### **Actions Tab**

🕒 Create Task		×
General Trigger	rs Actions Conditions Settings	
When you crea	ate a task, you must specify the action that will occur when your task starts.	
Action	Details	
	-	
New	Edit Delete	
	OK Car	ncel

Enter the details and select any options as shown in the screen below.
 New Trigger

specify what action this task will per	form.	
Start a program		~
m/script:		
\ClearDeletedStatusRestartAsRequire	d.BAT	Browse
guments (optional):		
(optional):		
	ОК	Cancel
	Start a program m/script: \ClearDeletedStatusRestartAsRequire guments (optional): (optional):	Start a program  n/script: \ClearDeletedStatusRestartAsRequired.BAT guments (optional): (optional): OK

The SQL Script can be selected by the use of the **Browse** Button.

9) Click **OK** to return to the following screen.

#### **Actions Screen**

ieneral	Triggers	Actions	Conditions	Settings	History (disabled)			
When	you create	a task, yo	ou must speci	fy the action	on that will occur when	your task starts.		
Actio	n	De	tails					
Start	a program	C:\	CRB\ClearDe	letedStatus	sRestartAsRequired.BAT			
							*	
<							>	

10) Click **OK** to close the screen and then the screen shown below will be displayed.

Task Scheduler	? ×
	GR
Enter user account in	formation for running this task.
User name:	🔮 R-310-CBX\Quantumuser 🗸
Password:	•••••
	OK Cancel

Enter the Password that is appropriate for the user that will be running the Task.

**Please Note** – If the Password is changed at any point, then the Actions screen will need to be edited and the New Password entered as described above.

11) Click **OK** to close the screen and return to the Main Task Scheduler Screen which can then also be closed.

## **Chapter 5 Logging in the Script**

Within the SQL Script there are sections that will Log various details regarding the steps that are being undertaken by the Script and these are written to the Windows Event Log.

#### 5.1 Information Logged when an Incorrect Status is present

If any Incorrect Status messages are discovered by the script, then the following details are added to the Windows Event Log.

#### Information Message

Configuration option 'xp\_cmdshell' changed from 0 to 1. Run the RECONFIGURE statement to install. (*This configuration option is required for the running of the script*)

#### Warning Message

Error: 60001 Severity: 15 State: 1 Unexpected DELETE status removed from batch XX-XXX (*This message may repeat several times, depending upon how many Batches are affected*)

#### Information Message

Error: 60002 Severity: 10 State: 1 Automatic Batch Service Stop Requested by Delete Check (*This message denotes the Stop of the ABDC Service, to update Exaquantum Batch*)

#### Information Message

Error: 60003 Severity: 10 State: 1 Automatic Batch Service Start Requested by Delete Check (*This message denotes the Start of the ABDC Service, to update Exaquantum Batch*)

#### Information Message

Configuration option 'xp\_cmdshell' changed from 1 to 0. Run the RECONFIGURE statement to install. (*This configuration option is required for the running of the script*)

#### 5.2 Information Logged when an Incorrect Status is not present

If there are no Incorrect Status messages discovered by the script, then the following details are added to the Windows Event Log.

#### Information Message

Configuration option 'xp\_cmdshell' changed from 0 to 1. Run the RECONFIGURE statement to install. (*This configuration option is required for the running of the script*)

#### Information Message

Configuration option 'xp\_cmdshell' changed from 1 to 0. Run the RECONFIGURE statement to install. (*This configuration option is required for the running of the script*)

# **Chapter 6 Further Details**

If you have any questions or queries about the information contained in this document, then please contact Yokogawa Marex at <a href="mailto:customer.services@ymx.yokogawa.com">customer.services@ymx.yokogawa.com</a>

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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 5.0.

### Detail of Changes

The changes are as follows:

Chapter/Section/Page	Change