Knowledge

Base



Using the AE Configuration Tool to Add An Event Category to an OPC Server Type

KB-1067-22

	Document Summary
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Versions Affected	All
Function Affected	A&E Data Reception
Available Resolution	Detailed in this document
Audience	Users and Administrators
Summary	Using the AE Configuration Tool to Add Event Categories/Attributes to an OPC Server Type
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Issue 2.0 3rd November 2023

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Chapter 1 Introduction

This document provides the necessary steps to add a new OPC Event Category and the related attributes to an existing OPC Server Type.

1.1 Audience

This guide is intended for system integrators, users and administrators.

Chapter 2 The AE Configuration Tool

The A&E Configuration Tool (AEConfig.exe) is located under the "Developer Tools" folder in the Exaquantum installation directory.

	Application Tools Developer Tools	AE Configuration Tool						×
hare	View Manage							
		Category	ttribute					
* Yoko	ogawa > Exaquantum PIMS > Developer Tools							
	Name	Select OPC Server Type		Exaopc	-HIS		<u>•</u>	
*	BulkGraphicsConversionTool	Event Categories						
	EQPerfmon	OPC Server Type		Exaopc-HI	IS			
	📕 ja	No of Event Cate	gories : 8	3				
*	PMCDumpWiz	Name	OPC Id	Event Type	Storage Name			
*		System Alarm	101	Simple	EXAOPCCSSyst	emAlarm		
	CHIstimport	Process Alarm	102	Condition	EXAOPCCSProc	essAlarm		
	QSystemInfo	Mode/Status Change	103	Simple	EXAOPCCSMod	eStatusChange		
nera	AEConfig.exe	Sequence Message	104	Simple	EXAOPCCSSequ	lenceMessage		
	× Ann Switch Config ave	Operation Guidance Message	105	Simple	EXAOPCCSOpG	uidanceMessage		
	AggswitchConfig.exe	Engineering Maintenance	106	Simple	EXAOPCCSEngl	Maintenance		
	AutoAEConfig.exe	Special order message	107	Simple	EXAOPCCSOper	rialOrderMessage		
	AutoAEConfig.exe.config	press of der message		Surpre	Land Copper	salor dell'hessage		
	BlobChecker.exe							
	BlobChecker Err031220110758.log	Associated Attributes						
	BlobChecker Log031220110758 log	Event Category	Name	System A	larm			
	PlobPooder evo	No of Event At	ributes ·	0				
	BIODReader.ini	Name OPC Id Data Type	Sequence	ce Column N	ame			
	DBConfig.rtf							
	DiskUsage.exe						•	
	EQ_PITagDefineSheetsE.xls							
	EQ PITagDefineSheetsJ.xls						+	
	ExaguantumXref.exe							
	107 KD							
ected	197 ND							_
					ОК	Cancel	Apply	
								<i>i</i>

It allows the user to add/remove OPC Event Categories and Attributes to a configured OPC Server Type.

4

2.1 Adding a new OPC Event Category

- 1. Start the AE Configuration Tool
- 2. Select the OPC Server type you wish to Add an Event Category to.

AE Configuration Tool X
Category Attribute
select OPC Server Type
Event Categories
OPC Server Type MyNewAEServer No of Event Categories : 0
Name OPC Id Event Type Storage Name
Associated Attributes
Event Category Name No of Event Categories
Name OPC Id Data Type Sequence Column Name
OK Cancel Apply

3. Right mouse click in the Event Categories list and from the pop up menu select "Add Event Category".

AE Config	juration T	īool		×
Categ	gory	A	ttribute	7
Select OPC	C Server T	ype		MyNewAEServer
Event Ca	tegories	-		
騆	OPC No o	Server Type	gories : 0	MyNewAEServer
Name	OPC Id	Event Type	Storage N	lame
			Add Ev	vent Category
			Modify	/ Event Category
			Delete	r Indexes
			Refresh	n
Associat	ed Attrib	outes		
P	Ev	ent Category	Name	No of Event Categories
Name	OPC Id	Data Type	Sequence	Column Name
				OK Cancol Apply

4. The "Add Event Category" dialog will be displayed.

AE Configuration Tool			×
Category Attri	bute		
Select OPC Server Type	MyNewAEServer		•
Event Colonadia			
OPC Server Type	Add Event Category	×	
No of Event Categ	Event Category Settings		
Name OPC Id Event Type :	Add the details of this Event	Category	
	OPC Server Type		
	MyNewAEServer		
	Name		
	I		
	OPC Id		
Associated Attributes	Event Type		
Event Category	Simple	•	
	Storage Name		
Name OPC Id Data Type			
	0 pply	Cancel	+
	мрргу	Caricer	
	OK	Cancel	Apply
	UK	Cancer	Арріу

the OPC Server's documentation.

 In the "Add Event Category" dialog specify the Name, the OPC ID, the Event Type and the table (storage) you wish to store the Events for this category.
 The Name, OPC ID and Event Type are specific to the OPC Server and can be obtained from

Category	Attribute			
elect OPC Server Typ	0e	MyNewAEServer		•
Vent Categories – OPC S No of E	erver Type	Event Category Category Settings	×	
Name OPC Id E	tes	Add the details of this Event Categ OPC Server Type MyNewAEServer Name ALARM OPC Id 1 Event Type Condition	jory	
Name OPC Id D	Data Type	Storage Name MyNewl\AEServer_ALARM		*

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6. Press "Apply" in the "Add Event Category" dialog to add the Event Category.

AE Configuration Tool			×
Category A	ttribute		
Select OPC Server Type	MyNewAEServer		•
Event Categories			
OPC Server Type No of Event Cate	MyNewAEServer gories : 1		
Name OPC Id Event Type	Storage Name		
ALARM 1 Condition	MyNewAEServer_ALARM		
P			
Associated Attributes			
Event Category	Name ALARM		
No of Event Att	ributes : 0		
Name OPC Id Data Type	Sequence Column Name		
			+
	ОК	Cancel	Apply

- 7. Repeat steps 3-6 for the rest of the A&E Event Categories to be added.
- 8. Press the Apply button to save the changes.

2.2 Assigning an Existing OPC Event Attribute to an OPC Event Category

1. Attributes can be added to an event Category by a right mouse click in the "Associated Categories" list and selecting the "Assign Attribute" option.

	juration i	ĩool			>
Categ	jory	A	ttribute]	
Select OPC	Server T	ype		MyNewAEServer	•
Event Ca	tegories	;			
H	OPC No o	Server Type	gories : 1	MyNewAEServer	
Name	OPC Id	Event Type	Storage N	ime	
ALARM	1	Condition	MyNewAE	Gerver_ALARM	
P					
		1			
Associate	ed Attrib	outes			
Associate	ed Attrit Ev	outes ent Category	Name	ALARM	
Associate	ed Attrit Ev No	outes ent Category of Event Attu	Name ributes : 0	ALARM	
Associate	ed Attrit Ev No	ent Category of Event Att	Name ributes : 0	ALARM Column Name	
Associate	ed Attrit Ev No OPC Id	ent Category of Event Attr Data Type	Name ributes : 0 Sequence	ALARM Column Name	
Associate	ed Attrit Ev No OPC Id	outes ent Category of Event Atti Data Type	Name ributes : 0 Sequence	ALARM Column Name	
Associate Name	ed Attrit Ev No OPC Id	ent Category of Event Attr Data Type	Name ributes : 0 Sequence	ALARM Column Name Assign Attribute	
Associate Name	ed Attrit Ev No	ent Category of Event Atto Data Type	Name ributes : 0 Sequence	ALARM Column Name Assign Attribute Deassign Attribute	▲
Associate Name	ed Attrit Ev No	ent Category of Event Attr Data Type	Name ributes : 0 Sequence	ALARM Column Name Assign Attribute Deassign Attribute	•
Name	ed Attrit Ev No	outes ent Category of Event Attu Data Type	Name ributes : 0 Sequence	ALARM Column Name Assign Attribute Deassign Attribute	•
Associate Name	ed Attrit Ev No OPC Id	ent Category of Event Attr Data Type	Name ributes : 0 Sequence	ALARM Column Name Assign Attribute Deassign Attribute	•

2. This will produce the "Event Attribute Picker" dialog where a list of the already configured attributes is displayed and the required one can be selected if already configured.



3. Pressing the OK button will assign the selected event attribute to the current event category.

Categ	jory	<u> </u>	ttribute				
elect OPC	Server T	ype		MyNewAE	Server		-
vent Ca	tegories						
	OPC	Server Type	e)	MyNewAESe	rver		
THERE		of Event Cate	gories : 1				
ALARM	1	Condition	MyNewAE	ame Server_ALAF	١M		
ssociate	ed Attrib	outes					
Lessociate	ed Attrib Ev	ent Category	/ Name	ALARM			
ussociate	ed Attrik Ev No	ent Category	/ Name ributes : 1	ALARM			
Alrmse	ed Attrib Ev No	ent Category of Event Att OPC Id um 1	/ Name ributes : 1 Data Type Integer	ALARM Sequence	Column Name ALRMSequenceNu	JM	
Name ALRMSe	ed Attrik Ev No	ont Category of Event Att OPC Id um 1	r Name ributes : 1 Data Type Integer	ALARM Sequence	Column Name ALRMSequenceNu	m	
Associate	ed Attrib Ev No	ent Category o of Event Att OPC Id um 1	r Name ributes : 1 Data Type Integer	ALARM Sequence	Column Name ALRMSequenceNu	Jm	•
Association	ed Attrit Ev No	ent Category of Event Att OPC Id um 1	/ Name ributes : 1 Data Type Integer	ALARM Sequence	Column Name ALRMSequenceNu	m	•
Association	ed Attrit Ev No	ent Category of Event Att OPC Id um 1	/ Name ributes : 1 Data Type Integer	ALARM Sequence	Column Name ALRMSequenceNu	m	•
Association Name	ed Attrib Ev No	o of Event Att OPC Id um 1	/ Name ributes : 1 Data Type Integer	ALARM Sequence	Column Name ALRMSequenceNu	Jm	•

- 4. Repeat steps 1-3 to add existing Attributes to the new Event Category
- 5. Press the Apply button to save the changes.

2.3 Adding a new OPC Event Attribute to an OPC Event Category

1. If the attribute required is not configured it can be added by going to "Attribute" Tab, right mouse click on the "Event Attributes" list and select the "Add Event Attribute" option.

Category	Attribute				
ent Attributes					
-					
No of Ever	nt Attributes : 258				
Name	OPC Id	Data Type		Column Name	^
Ack Comment	-2	String		AckComment	
Old Item Value				OldItemValue	
New Item Value	Add Event At	tribute	ating-Point	NewItemValue	
Old Quality Code (OP	Modify Even	Attribute	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	OldQualityCode	
New Quality Code (OI	would be been	Attribute		NewQualityCode	
Old Item Status	Delete Event	Attribute		OldItemStatus	
New Item Status				NewItemStatus	
Old Alarm State	Refresh			OldAlarmState	
New Alarm State		oung		NewAlarmState	
Item Description	9	String		ItemDescription	
Engineering Units	10	String		EngineeringUnits	
Item-id node	11	Integer		ItemIdNode	
Item-id group	12	Integer		ItemIdGroup	
Item-id sub number	13	Integer		ItemIdSubNumber	
CENTUM Message ID	160	Integer		CENTUMMsgId	
Station Name	161	String		StationName	
Tag name	162	String		TagName	
Item Name	163	String		ItemName	
Data value	164	String		DataValue	
Data Value - float	164	Integer		DataValue_float	
Recipe group number	165	Integer		RecipeGrpNum	
Recipe name	166	String		RecipeName	
Batch ID	167	String		Batchid	
Unit recipe number	168	Integer		UnitRecipeNum	
Engineering unit	169	String		EngUnit	
mode/status name	1/0	String		ModeStativame	
ciement name	1/1	String		Ciementivame	*
Unocon antohodo filo par	1/1	s read		1001373036603066	

2. In the "Add Event Attribute" dialog specify the Name, the OPC ID, the Data Type and the Column name you wish to use to store this Attribute in the Event category table. The Name, OPC ID and Data Type are specific to the OPC Server and can be obtained from the OPC Server's documentation.

🖀 Add Event Attribute	×
Event Attribute Settings	
Add details for this event attribute	
Name	
ALRMSequenceNum	
OPC Id	
1	
Data Type	
Integer 💌	
Column Name	
ALRMSequenceNum	
Apply Cano	el

- 3. Repeat Steps 1-2 for the rest of the Event Attributes to be added.
- 4. Assign the Event Attributes to the Event Category by following the steps in Section 2.2 Assigning an Existing OPC Event Attribute to an OPC Event Category
- 5. Press the Apply button to save the changes.

Chapter 3 Further Reading

More support is available at <u>www.ymx.yokogawa.com\support</u> or from <u>support.ymx@yokogawa.com</u> email address.

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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 2.0.

Detail of Changes

The changes are as follows:

Chapter/Section/Page	Change
Front page	Review Date updated
Page 14	Email address updated