

Integration Objects' Solution for retrieving and archiving OPC alarms and events

OPC Alarms & Events Archiver Version 1.5 Rev.2

QUICK USER GUIDE

Integration Objects' OPC Alarms & Events Archiver Quick User Guide Version 1.5 Rev.2 Published May 2018 Copyright © 2004 – 2018 Integration Objects



ABOUT THIS USER GUIDE

This guide is a quick step by step guide on how to install and use the OPC AE Archiver.

INSTALLATION PRE-REQUISITES

In order to properly run the OPC AE Archiver, install the OPC Core Components, which consist of all shared OPC modules including the DCOM proxy/stub libraries, the OPC Server Enumerator, .NET wrappers, etc.

INSTALLING OPC AE ARCHIVER

Execute the « IntegrationObjects'OPCAEArchiver_1.5.2» program on your machine using an administrator account. The installation wizard will take you through the different steps.

- 1. Go to Start => Programs => Integration Objects => OPC Archiver => OPC Alarms & Events Archiver => OPC AE Archiver.
- 2. Start the OPC AE Archiver



Figure 1: OPC AE Archiver Start Menu

CONNECTING TO AN OPC SERVER

To connect to an OPC AE server, select:

- OPC Server, then Connect to server in the Menu Bar
- Or use the **Connect to server** button in the Toolbar.

A dialog screen will appear:



OPC Alarms and Events Servers' list :	x
OEV74 IntegrationObjects.OPCAE.VB.Simulation IntegrationObjects.OPCAE.SimulationCSNET IntegrationObjects.KNet.OPCAE IntegrationObjects.AdvancedSimulator.1 IntegrationObjects.OPCAE.SimulationCSNETTest IntegrationObjects.AdvancedOPCSimulator.2	
Connect to remote server	
OPC server name:	
OPC server IP address \ host name:	
Connect to server Close Help	

Figure 2: Connect to OPC AE Server

There are two options for adding a new OPC AE server connection.

The first option:

1. Double-click the OPC server you wish to connect to.

Second Option:

- 1. Type the server ProgID in the OPC Server Name Text Box.
- 2. Type the IP Address or the name of the host that contains the server in the **Host Name** Text Box.
- 3. Click Connect To Server.

The new connection will be added and the target server will be added to the connected servers list.

ADDING AN EVENT SUBSCRIPTION

To add a new event subscription to a connected OPC server, click on the server and select the **Create Event Subscription** menu item.



	Create Event Subscription	
	Display Available Filters Display Available Categories Display Area and Source Browser Display Server Event Space	
	Display Available Conditions Names : Event Category> Conditions Names Display Available Sub-Conditions Names : Condition Name> Sub-Conditions Names Display Available Source Conditions Names : Source Name> Conditions Names Configure Attributes Mapping	
	Get Condition State	
	Enable Condition By Area Disable Condition By Area Enable Condition By Source Disable Condition By Source	
	Add static info to Historian	
	Server Redundancy Setting	
	Server Status Disconnect Server	
B DEV74	Remove Server	rip
⊡	Objects OPCAE. Simulation CSNET 17/01/2018 14:55:58	[Server]

Figure 3: Create Event Subscription Menu Item

The dialog screen below will then appear:

3-- 💻

(Create Event Subscription
	Active 🔽
	Event Subscription Name EventSubs_Name Buffer Time 1000 (ms) Max Size 0
	OK Cancel Help

Figure 4: Create New Event Subscription



This allows the user to create a new event subscription to the OPC AE server. The user has to fill out the different properties of the subscription:

- Active:
 - Checked if the event subscription is to be created active.
 - Unchecked if the event subscription is to be created as inactive. If the subscription is inactive, then the server will not send event notifications to the client based on the subscription, and has no responsibility to buffer or maintain the event notifications. Thus, event notifications may be lost.
- EventSubscription Name: The name to be associated with the event subscription.
- **Buffer Time:** The requested buffer time. The buffer time is in milliseconds and tells the server how often to send event notifications.
- *Max Size*: The requested maximum number of events that will be sent in a single callback. A value of 0 means that there is no limit to the number of events that will be sent in a single callback.

CREATING AN ADO ARCHIVER

To add a new ADO Historian, select:

- Transfer, Config New Historian, and then ADO in Menu bar.
- Create ADO Historian button in Toolbar.

A dialog screen appears: (OLE DB Data Link)



Tota Link Properties
Provider Connection Advanced All
Select the data you want to connect to:
OLE DB Provider(s)
Microsoft Jet 3.51 OLE DB Provider Microsoft Jet 4.0 OLE DB Provider
Microsoft Office 12.0 Access Database Engine OLE DB Pro Microsoft Office 15.0 Access Database Engine OLE DB Pro Microsoft OLE DB Provider for Analysis Services 11.0
Microsoft OLE DB Provider for Indexing Service
Microsoft OLE DB Provider for ODBC Drivers Microsoft OLE DB Provider for Oracle
Microsoft OLE DB Provider for Search
Microsoft OLE DB Provider for SQL Server
Microsoft OLE DB Simple Provider
MSDataShape
OLE DB Provider for Microsoft Directory Services
Next >>
OK Cancel Help

Figure 5: Add New Historian

To add a new ADO Historian, choose the provider to be used, and then press the **Next** button. A dialog screen appears:



Data Link Properties			
Provider Connection Advanced All			
Specify the following to connect to SQL Server data: 1. Select or enter a server name:			
SQLServerMachineName\SQLServerName - <u>R</u> efresh			
2. Enter information to log on to the server:			
Use a specific user name and password:			
User name: User			
Password:			
3. Microsoft Data Link			
Test connection succeeded.			
			OK Cancel Help

Figure 6: Testing New Historian

After selecting the type of provider to use, configure the connection parameters to be used by entering the necessary information. You can use the **Test Connection** button to test the specified connection parameters. After this, press the **OK** button and a dialog screen will appear:



New ADO Historian		
Historian Connection String : Provider=SQLOLEDB.1;Persist Security Info=		
Default Historian Authorization Login Name : Login_Name Password : *****		
Historian Name: Historian_OLE		
Apply Cancel Help		

Figure 7: New Historian

At this stage, this dialog screen allows users to:

- 1. View the connection string previously configured.
- 2. Type the login name and password to be used with this ADO Historian.
- 3. A name to identify this new ADO Historian. This name must be unique.

When the user presses the **Apply** Button, a dialog screen will appear:



AE Historian Building : Step 1		
O Use separate table for each Event Subscription.		
🔽 Use Primary Key		
O Use default table and fields nam	es.	
• Setting table and filelds names :	• New table. C Existing table.	
Table name	IOOPCEventSubs_1Table	
Machine field name	MachineName	
Server progID field name	ServerProgID	
Server Address field name	ServerNodeName	
Subscription field name	SubscriptionName	
Source field name	SourceName	
Event Time field name (d/h)	EventTime	
(ms)	EventTime_MS	
Severity field name	Severity	
Message field name	Message	
Quality field name	Quality	
Condition field name	Conditions	
Sub-Condition field name	SubCondition	
Event Mask field name	Mask	
New State field name	NewState	
Event Type field name	EventType	
Event Category field name	EventCategory	
ACK required field name	AckReq	
Active Time field name (d/h)	ActiveTime	
(ms)	ActiveTime_MS	
Cookie field name	Cookie	
ActorID field name	ActorID	
Attributes field name	Attributes	
Use separate attributes columns		
Anch		

Figure 8: Configuring New Historian



This dialog screen provides the user with the ability to manage the table and field names for the newly created historian.

At this step, choose the storage mode to be used by the Archiver:

- Use one historian table for each event subscription: To use this option, the user has to select the "Use separate table for each Event Subscription" option. Then, click the Apply button.
- Store all alarms in the same historian table. In this case, you can choose one of the following methods:
 - Configure a new table: To configure the new table to be created, you can:
 - Use the default table and field names. "Use default table and field names" option should be checked.
 - Set its own table and field names. "Setting table and fields names" and "New table" options should be checked.
 - Use an existing table. "Setting table and fields names" and "Existing table" options should be checked.

When mapping your fields, if you check "Use separate attributes columns" check button, the AE Archiver will create separate columns in the designated historian table to store the vendor specific attributes.



When mapping the AE Archiver fields with the existing table fields, you should respect the following table:

Field Name	Required SQL Type
Machine name	Varchar
Server name	Varchar
Server address	Varchar
Event Subscription name	Varchar
Source name	Varchar
EventTime	Date/ time
EventTime millisecond	Integer
Severity	Integer
Message	Varchar
Quality	Varchar





Condition	Varchar
SubCondition	Varchar
Mask	Varchar
New state	Varchar
EventType	Varchar
Event Category	Varchar
Ack required	Varchar
ActiveTime	Date/ time
ActiveTime_MS	Integer
Cookie	Varchar
ActorID	Varchar
Attributes	Varchar

Table 1: Table Fields And Types



AE Historian Building : Step 1			
O Use separate table for each Event Subscription.			
Use Primary Key			
O Use default table and fiel	ds name	38.	
 Setting table and fileIds n 	iames :	O New table.	
Table name		IOOPCEventSubs_1Table	
Machine field name		MaakinaMama	
Server progID field name			
Server Address field name			
Subscription field name		MachineName ServerProdD	
Source field name		ServerNodeName	
Event Time field name	(d/b)	SourceName	
	(ms)	EventTime EventTime_MS	
Severitu field name	(110)	Severity Message	
Message field name		Quality	
Message neiu name		SubCondition	
Quality rield name		Mask NewState	
Condition field name			
Sub-Condition field name		<u> </u>	
Livenic Mask field name			
Event Tupe field name			
Event Category field name			
ACK required field name			
Active Time field name	(d/h)		
	(ms)	,	
Cookie field name	(110)		
ActorID field name			
Attributes field name			
	olumos	· · · ·	
Use separate attributes columns			
Ap	ply	Cancel	

Figure 9: Setting Table and Field Names- Step 1



- If you want to use the primary key when the table is created, check the Use
 Primary Key button. Uncheck this button to deactivate this option.
- If you choose to use the "Use Primary Key" option, you have to select the list of fields that compose the primary key.



If the user checks the "Use Primary Key" option, the list of fields to be used as the primary key must define a unique row for each alarm.

Example: If the user uses just a SourceName as a Primary Key, he will get a database error for a duplicate value in Primary Key.

• Finally, click the **Apply** button.

Once confirmed, the new ADO Historian is created and the storage table will be created.

The second step consists of the setup of the AE Server static information tables:

A	AE Historian Building : Step 2		
	– Server Table ––– Table Name	ServerInfoTable	
	Server ID	ServerID	
	Server Address	ServerNodeName	
	Server ProgID	ServerProgID	
	Cancel	Next ==>	

Figure 10: Setting Up Tables- Step 2

This table will contain all connected AE Servers.



AE Historian Building : S	Step 3	
Server Table		
Server ID	ServerID	
Server Address	ServerNodeName	
Server ProgID	ServerProgID	
Server Structures Tabl	es	
Area Table		
Table Name	AreaTable	
Server ID	ServerID	
Area Name	AreaName	
Table Name	SubAreaTable	
Server ID	ServerID	
Area Name	AreaName	
SubArea Name	SubAreaName	
⊢Event Source Table-		
Table Name	SourceTable	
Server ID	ServerID	
Area Name	AreaName	
Source Name	SourceName	
<== Back	Cancel Next ==>	

Figure 11: Setting Up Tables- Step 3

These tables will contain the server structure (area, sub area and sources) for each connected AE Server.



AE Historian Building : S	Step 4
Server Table	
Server ID	ServerID
Server Address	ServerNodeName
Server ProgID	ServerProgID
C Server Conditions Nan	nes Table
Table Name	CatCondSubCondTable
Server ID	ServerID
Event Type	EventTypeName
Category Name	CategoryName
Condition Name	ConditionName
SubCondition Name	SubConditionName
<== Back	Cancel Next ==>

Figure 12: Setting Up Tables- Step 4

This table will contain the list of available categories, condition names and SubCondition names for each connected AE Server.



AE Historian Building : Step 5				
Server Table				
Server ID	ServerID			
Server Address	ServerNodeName			
Server ProgID	ServerProgID			
,				
Server Conditions Nam				
Table Name	EventAttributeTable			
Server ID	ServerID			
Event Type	EventTypeName			
Category Name	CategoryName			
Event Attribute Name EventAttribute				
<== Back	Cancel Next ==>			

Figure 13: Setting Up Tables- Step 5

This table will contain the list of available event attributes.



AE Historian Building : Step 6		
_ Server Table		
Server ID	ServerID	
Server Address	ServerNodeName	
Server ProgID	ServerProgID	
Event Source Table-		
Server ID	ServerID	
Area Name	AreaName	
Source Name	SourceName	
Event Source Table-		
Table Name	SourceConditionTable	
Server ID	ServerID	
Area Name	AreaName	
Source Name	SourceName	
Condition Name	ConditionName	
<== Back	Cancel Apply	

Figure 14: Setting Up Tables- Step 6

This table will contain the list of available Source condition names for each connected AE Server.

CREATING AN ODBC ARCHIVER

To add a new ODBC Historian, select:

- Transfer, Config New Historian, and then ODBC in the Menu bar.
- Create ODBC Historian button in the Toolbar.

A dialog screen will appear:



Data Source Name aearchiver aefile	Type System System	Description	A
Base de données Xtreme 20 Crate ODBC Driver 32-bit CSVArchiver EAS Demo DB V126 EAS Demo DB V126 Unicode Exasol	System System System System System User	Crate 32-bit DSN	
Final Dia.	II III		•
			<u>N</u> ew
A Machine Data Source is spe "User" data sources are speci sources can be used by all us	ecific to thi fic to a use ers on this	is machine, and cannot b er on this machine. "Syst machine, or by a system-	e shared. em'' data wide service.

Figure 15: Select Data Source

To add a new ODBC Archiver, choose the Data Source Name to use with this new database, and then press the **Next** button. A dialog screen appears:

New ODBC Historian			
Historian Connection String : ODBC;DSN=CSVArchiver;DefaultDir=C:\PRI			
Default Historian Authorization Login Name : Login_Name Password : ************			
Historian Name: ODBC_Historian_1			
Apply Cancel Help			

Figure 16: Logging into New ODBC Historian



This dialog screen allows the user to:

- 4. View the connection string
- 5. Type the login name and password to be used with this ODBC Database.
- 6. Create a name to identify this new ODBC Database. The name must be unique.



The connection to Cassandra DB can be successfully established via ODBC using the "ODBC;DSN=Cassandra;" connection string.

New ODBC Historian
Historian Connection String : DBC;DSN=Cassandra;
Default Historian Authorization Login Name : Password :
Historian Name: Historian_1
Apply Cancel Help

Figure 17: Logging into Cassandra Historian

Click the **Apply** button and the following dialog screen will appear:



AE Historian Building : Step 1				
O Use separate table for each Event Subscription.				
Use Primary Key				
Use default table and fields names.				
O Setting table and fileIds names : C New table, C Existing table.				
Table name		IOOPCE ventUpdate		
Machine field name		MachineName		
Server progID field name		ServerProgID		
Server Address field name		, ServerNodeName		
Subscription field name		SubscriptionName		
Source field name		SourceName		
Event Time field name	(d/h)	EventTime		
	(ms)	EventTime_MS		
Severity field name		Severity		
Message field name		Message		
Quality field name		Quality		
Condition field name		Conditions		
Sub-Condition field name		SubCondition		
Event Mask field name		Mask		
New State field name		NewState		
Event Type field name		EventType		
Event Category field name		EventCategory		
ACK required field name		AckReq		
Active Time field name	(d/h)	ActiveTime		
	(ms)	ActiveTime_MS		
Cookie field name		Cookie		
ActorID field name		ActorID		
Attributes field name		Attributes		
🗖 Use separate attributes o	olumns			
	olv	Cancel		
	PU			

Figure 18: Manage Table and Field Names

This dialog screen provides the user with the ability to manage the table and field names for the newly created ODBC Connection.

In this step, the user has to choose the storage mode to be used by the Archiver:

- Use one historian table for each event subscription: To use this option, the user has to select the "Use separate table for each Event Subscription" option. Then, click the Apply button.
- Store all alarms in the same historian table: To use this option, the user can choose one of the following methods-
 - Configure a new table: the user can-



- Use the default table and field names. "Use default table and fields names" option should be checked.
- Or set its own table and field names. "Setting table and fields names" and "New table" options should be checked.
- Use an existing table. "Setting table and fields names" and "Existing table" options should be checked.



When mapping your fields, if you check "Use separate attributes columns" check button, the AE Archiver will create separate columns in the designated historian table to store the vendor specific attributes.



When mapping the AE Archiver fields with the existing table fields, respect the following table:

Field Name	Required SQL Type
Machine name	Varchar
Server name	Varchar
Server address	Varchar
Event Subscription name	Varchar
Source name	Varchar
EventTime	Date/ time
EventTime millisecond	Integer
Severity	Integer
Message	Varchar
Quality	Varchar
Condition	Varchar
SubCondition	Varchar
Mask	Varchar
New state	Varchar
EventType	Varchar
Event Category	Varchar





Ack required	Varchar
ActiveTime	Date/ time
ActiveTime_MS	Integer
Cookie	Varchar
ActorID	Varchar
Attributes	Varchar

Table 2: Fields Names and Required Types



AE Historian Building : Step 1		-X -			
O Use separate table for each Event Subscription.					
Use Primary Key					
O Use default table and fields names.					
● Setting table and fileIds names : ○ New table. ● Existing table.					
Table name	IOOPCE ventUpdate				
Machine field name	MachineName 💌				
Server progID field name	_				
Server Address field name	·····				
Subscription field name	ServerProgID				
Source field name	ServerNodeName				
Event Time field name (d/)	SourceName ≡				
íms	2 EventTime EventTime_MS				
Soucritu field name	' Severity Message				
Mossage field name	Quality				
Ouslike field name	SubCondition				
Gually field frame	Mask NewState				
Cub Candition field name					
Sub-Condition held name	▼				
E vent Mask field name					
New State field name					
Event Type field name					
Event Category field name					
ACK required field name					
Active Time field name (d/l	n) 🔽 🖌				
(ms					
Cookie field name	-				
ActorID field name	-				
Attributes field name					
Use separate attributes colum	ns				
Apply Cancel					

Figure 19: Setting Table Fields

- If you want to use the primary key when the table is created, check the Use
 Primary Key button. Uncheck this button to deactivate this option.
- If you choose to use the "Use Primary Key" option, select the list of fields that compose the primary key.



If the user chooses to use the Primary Key option, the list of fields to be used as the primary key must define a unique row for each alarm.

Example: If the user uses just a SourceName as the Primary Key, he will get a database error for duplicate value in the Primary Key.

• Finally, click the **Apply** button.



At this stage, the new ODBC Archiver is created and the Storage table will be installed. The second step, like with the Ado Archiver, consists of setting the server static information's tables.

CREATING A CSV ARCHIVER

To add a new CSV Historian, follow the steps below:

Select CSV from Transfer-> Config New Historian Menu.



Figure 20: Select CSV Archiver

 Select Machine Data Source from Select Data Source window and then click the New button.

Data Source Name	Туре	Description	
aearchiver	System		
aefile	System		=
Base de données Xtreme 20	System	0	_
Crate ODBC Driver 32-bit	System	Crate 32-bit DSN	
EAS Demo DB V126	System		
EAS Demo DB V126 Unicode	System		
Exasol Event Elen	User		
EXCELLES	Custom		-
•			- F
			<u>N</u> ew
A Machine Data Source is spe	cific to thi	s machine, and cannot be sh	ared.
"User" data sources are speci	fic to a us	er on this machine. System	data
sources can be used by all use	ers on this	machine, or by a system-wid	e service.

Figure 21: Create New Data Source



 Create a new System Data Source using Microsoft Access Text Driver (*.txt, *.csv).



Figure 22: Select System Data Source

Create New Data Source		×
	Select a driver for which you want to set up a data so Name Microsoft Access dBASE Driver (*.dbf, *.ndx, *.mdx) Microsoft Access Driver (*.mdb) Microsoft Access Driver (*.mdb, *.accdb) Microsoft Access Paradox Driver (*.db) Microsoft Access Text Driver (*.db) Microsoft Access Treiber (*.mdb) Microsoft Access-Treiber (*.dbf) Microsoft dBase VFP Driver (*.dbf) Microsoft dBase-Treiber (*.dbf) Microsoft dBase-Treiber (*.dbf) Microsoft dBase-Treiber (*.dbf) Microsoft dBase-Treiber (*.dbf)	urce. 1 1 1 1 1 1 6 6 6 6 7 ►
	< <u>B</u> ack <u>N</u> ext > Ca	ncel

Figure 23: Select the CSV Data Source



- Click **Next** and then the **Finish** button.
- Enter the Data Source name and uncheck the "User Current Directory" checkbox to specify the CSV file directory in ODBC Text Setup window and click OK to save the changes.

ODBC Text Setup	<u>୧</u> ×
Data Source <u>N</u> ame: CSVArchiver	ОК
Description:	Cancel
Database Directory: C:\r	Help
Select Directory	
Use Current Directory	<u>O</u> ptions>>

Figure 24: Data Source Parameters

• Select the CSV file directory

File <u>n</u> ame: *.asc;*.csv;*tab;*.bt AEArchiver.csv	Eolders: c:\\aearchiver	OK Cancel
▼ Save file as type: Text Files (*.asc;*.csv;*. ▼	Dri <u>v</u> es: ☐ c: ▼	Network

Figure 25: Select the CSV File Directory

• Once the Data Source is configured, select it and click the **OK** button.



aearchiver	- ·		
aefile	System		=
Base de données Xtreme 20) System		
Crate ODBC Driver 32-bit	System	Crate 32-bit DSN	
CSVArchiver	System		
EAS Demo DB V126	System		
EAS Demo DB V126 Unicod	de System		
Exasol	User		-
(Þ.
		New	·
A Machine Data Source is s	specific to this	s machine, and cannot be shared.	
		New	

Figure 26: Select the Data Source

🛃 Open				x
Look <u>i</u> n: 🚺	AEArchiver		📸 🎟 ▼	
Name	^	Date m	nodified	T
AEArchi	ver.csv	27/12/	2017 17:10	M
•	III			Þ
File <u>n</u> ame:	AEArchiver.csv		<u>O</u> pen	
Files of type:	CSV files (*.csv)	-	Cancel	

Select the CSV file from the displayed window

Figure 27: Select the CSV File

After specifying the CSV file, configure the archive process from the displayed **CSV Archiver Configuration** window:



CSV Archiver Config	guration 🗾	
CSV File C:\CS\	/File.csv	
🔲 Archive in sepa	arate files	
C Daily	Each 🔄 days	
C Hourly	Each 🔄 hours	
C Minutely	Each 🗾 minutes	
	OK Cancel]

Figure 28: CSV Archiver Configuration

Parameter	Description	Default Value
CSV File	The CSV file full path	-
Archive in separate files	Checked: Archive OPC alarms in separate CSV files according to the defined periodicity(Daily or Hourly or Minutely)	Unchecked
	Unchecked: the OPC alarms are stored in the specified CSV file.	
	Once the size limit is reached the old CSV file is copied to an intermediate CSV file with incremental extension, before being overwritten.	
Daily	A new CSV file is created for each defined day period.	0 (day)
Hourly	A new CSV file is created for each defined hour period.	0 (Hour)
Minutely	A new CSV file is created for each defined minute period.	0 (Minute)

Table 3: CSV Archiver Configuration Parameters

- Once the CSV Configuration is done, click **OK** to proceed.
- Uncheck Use Primary Key from AE Historian Building: Step 1 window and then click the Apply button and proceed with the configuration steps.





AE Historian Building : Step 1					
O Use separate table for each Event Subscription.					
Use Primary Key					
O Use default table and fields names.					
O Setting table and fileIds name	s: O New table, O Existing table.				
Table name	- IOOPCEventUpdate				
Machine field name					
Server prodD field name	MachineName				
Server progro heid name					
Subscription field name	Servernodename				
Source field name	SourceName				
Event Time field name (d/	b) EventTime				
	a) EventTime MS				
(III)					
Severity field name	Severity				
Message held name	Message				
Quality field name	Quality				
Condition held name	Conditions				
Sub-Londition field name	SubCondition				
Event Mask rield name	Mask				
New State field name	NewState				
Event Type held name	EventType				
E Vent Category rield name	E ventUategory				
	Аскнед				
Active Time held name (d/	h ActiveTime				
(m	s] [ActiveTime_M5				
Cookie field name	Cookie				
ActorID field name	ActorID				
Attributes field name	Attributes				
Use separate attributes columns					
Apply Cancel					

Figure 29: Uncheck the User Primary Key Check Box



The OPC AE Archiver incorporates a configuration file "ConfigCSVFile.ini" which includes several parameters. These parameters have default settings and can be changed by editing the configuration file. To do so:

- 1. Open ConfigCSVFile.ini in a text editor.
- 2. Edit any of the parameters listed in the following tables:

File Setting	Description	Default Value
CSVFileMaxSize	The maximum CSV file size, in bytes. Once this size is reached during run-time, the CSV file is	1048576*2 ~_2 Mb
	overwritten.	
		(MegaByte)
ArchiveLast	TRUE: Old file is copied to an intermediate file with incremental extension, before being overwritten.	FALSE
	FALSE: Any pre-existing CSV file is erased and overwritten at start-up.	
CSVListMaxSize	The maximum number of alarms to be collected before archiving them in the csv file	10

Table 4: INI CSV Configuration File Parameters



The user needs to set the newly created archiver as the default one in order to be able to start it.

RUNNING OPC AE ARCHIVER AS A SERVICE

If you did not already install the OPC AE Archiver service, you can install it by running the OPC AE Archiver Service Management using an administrator account:



Figure 30: Run the OPC AE Archiver Service Management

An icon appears in the tool tray at the right-hand side of the Task Bar.





A
Minimize
Maximize
Exit

Figure 31: the OPC AE Archiver Service Management Tray Icon

To install the "OPC Alarms and Events Archiver service", click on the "Install Integration Objects' OPC Alarms and Events Archiver service" button.



Figure 32: Install the OPC AE Archiver Service

In case the archiver is configured, run the OPC AE Archiver from the OPC AE Archiver start menu, make sure that the **Start Historian** button is started and then close the application.



Figure 33: Start the Archiver

Once the application is closed, the user can start the OPC AE Archiver Service from the Windows Services Manager.



mantegration objecto Mataneed bare
🔍 Integration Objects' Advanced OPC 1 Buffer Service
🔍 Integration Objects' Advanced OPC 1 Simulator Service
🔍 Integration Objects' Advanced OPC 2 Buffer Service
🔍 Integration Objects' Advanced OPC 2 Simulator Service
🔍 Integration Objects' Advanced OPC Buffer Server
🔍 Integration Objects' KNet License Server
🔍 Integration Objects' KNet Performance Watcher
🔍 Integration Objects' KNet PI Bridge imene
🔍 Integration Objects' Log Server
🤹 Integration Objects' OPC AE Archiver
🔍 Integration Objects' OPC DA DX Server Toolkit C# Simulator Service
🥋 Integration Objects' OPC DA DX Server Toolkit C++ Simulator Service
🥋 Integration Objects' OPC DA HDA Archiver
🥋 Integration Objects' OPC DA HDA Archiver Service
🖏 Integration Objects' OPC Data Access Archiver
🖳 Integration Objects' OPC Data Transfer Manager Service
Integration Objects' OPC Data Transfer Manager Service Integration Objects' OPC HDA Server Toolkit C# Simulator Service
Integration Objects' OPC Data Transfer Manager Service Integration Objects' OPC HDA Server Toolkit C# Simulator Service Integration Objects' OPC HDA Server Toolkit C++ Simulator Service
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Figure 34: Start the OPC AE Archiver Service from Windows Services Manager

In case the OPC AE Archiver did not succeed to archive the OPC alarms & events when running as a service, follow the procedure below to change the service log on:

- 1. Open Windows Services panel
- 2. Go to Integration Objects' OPC AE Archiver service and stop it if it is running.
- 3. Right click on the Integration Objects' OPC AE Archiver service and select **Properties** from the displayed menu
- 4. Go to the Log On tab and configure it to use your user account. Make sure that the account that you are using is the same one used to log on to your computer.



Integration Objects' OPC	AE Archiver Properties (Local C	omputer) 🗾 🔀		
General Log On Reco	very Dependencies			
Log on as:				
Local System accour Allow service to in	nt nteract with desktop			
	Administrator	Browse		
Password:	•••••			
Confirm password:	•••••			
Help me configure user a	account log on options.			
	OK Cancel			

- Click **OK** to save your changes
 Restart the OPC AE Archiver service and check if the data are successfully logged in the alarms table



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