

# HOW-TO GUIDE Connecting to an OPC UA/DA server in Canary

This Technical Note contains all the information required to set up a connection between Canary and an OPC UA or OPC DA server.

#### Element8 Tech Note



#### 1. Introduction

Canary can be connected to an OPC UA or OPC DA server to collect data. This technical note describes the principal points to follow for a successful connection.

The Canary System consists out of three components, Data Collection, Data Storage and Data Analytics. The component that will be utilized in this document is the Data Collection component, where it will be shown how to connect to an OPC UA/DA server for data collection. Other data collection options are through MQTT Sparkplug B, SCADA systems, SQL databases, CSV Files and Web & .NET APIs to name a few.

OPC DA stands for Open Platform Communications Data Access, which is a standard that communicates real-time data from PLCs to display devices such as SCADA, HMI and MES systems.

OPC UA stands for Open Platform Communications Unified Architecture, which is a machine-tomachine communication protocol for industrial automation. In essence it's a data exchange standard.

The difference between OPC UA and OPC DA is that DA doesn't support historical events whereas UA does. OPC UA is the most widely used data collection protocol used in Canary.

To set up the connection between Canary and one of these servers, it is expected that you have the Canary Admin application, Canary Logger Administrator and OPC Server installed and running on your computer.

#### There are 4 main steps that you need to follow to connect to an OPC UA or OPC DA server in Canary:

- 1. Setup OPC Collector for OPC UA data collection
- 2. Starting and stopping Logging Sessions
- 3. Setup OPC Collector for OPC DA data collection
- 4. Creating Logging Sessions and Logging data

These steps are described in greater detail in the following sections

# 2. OPC UA Data Collection

OPC UA is used to collect data local to the source. Logging sessions are created by the OPC UA collector, and each session can be configured. Data like the tag names and dead-banding, in conjunction with data transformation can be configured.

The Canary Sender Service encrypts and compresses the logging data end sends it to the Receiver Service. The Receiver can accept data from one or more Senders and can redirect it to the Canary Historian Database.

The first step is to create logging sessions in the data collector:

1. Launch the Canary Admin application that is installed locally on the OPC Server. Navigate to the "OPC Collector" panel

🌲 Canary	y Administrator					localhost 👻 🗧 🗖
Home	OPC Collector					
			Connected	to Localhost		
-		Services	Messages (Let 24 Hours)	Licenses	Admin	
	X	Receiver: Running Sander: Running Logger: Running Veve: Running Foretts: Running Calculation: Running Akiorr: Running CSVCollector: Running	Warn: 14 Error: 33 Fatal: 0	Canwy Historian: 5,000 Tags (55/60) Axiem: 3 Users (55/60) Excel Add-In: 5 Users (0/14) API Connector: 1 Users (55/60)	Remote Fnabled: True Users Allowed: 1 Users Denied: 0 Senice Version: 21.1.0.21075 Client Winslore: 21.1.0.21075	
		Historian	Receiver	Sender	Logger	
	The second	DataSets: 2 Licensed Tags: 51 Handles (RVW): 0 / 34 Updates/Sec: 14.6 Version: 21.1.0.21075	Sessions: 0 Tage 0. Updates: 0 Updates/Sec 0 Errons: 0 Version: 21.1.0.21075	Sension: 0 Tagi: 0 Buffie: 0 Store/Sec: 0 Send/Sec: 0 Emore: 0 Version: 21.1.0.21075	Session:: 0 Bags: 0 Logging: 0 Wenion: 21.1.0.21075	
		OPC Collector	Views	Events	Calculation	
1		Session: 1 Groups: 1 Tags: 51 Logging: 51 Version: 21.1.0.21075	Clients 0 Views: 3 Security: finabled Version: 21.1.021075	Monitoring: 0 Checks in Last Min: 0 In Progress: 0 Last 24 Hours: 0 Total: 0 Vension: 21.1.0.21075	Calculations active: 0 Writing to tags: 0 Calculated this hour: 0 Calculated today: 0 Version: 21.1.0.21075	
~	4.1	Axiom	CSV Collector	SQL Collector	MQTT Collector	
X		Clients: 0 Brower: True Graphics: True Version: 21.1.0.21075	Directorine 0 Qursuet 0 Processet: 0 Iage 0 IVG: 0 Version: 21.1.0.21075	Connection: 0 Tags: 0 TVQa: 0 Version: 21.1.0.21075	Groups: 0 Connections: 0 Tags: 0 TVG/sec 0 Venion: 21.1.0.21075	AR
		canary		5		

2. Firstly, from the menu at the bottom of the page, select the "Configuration" option. Secondly, from the left-side panel choose the "Sessions" option

SSION		
ame:	N/A	
igging:	N/A	
storian:	N/A	
ataset:	N/A	
pe:	N/A	
onnection:	N/A	
ost	N/A	
ort	N/A	
		🌲 Canary Administrator
		Home OPC Collector ×
status	Configuration	Sessions session new session new session
otatus	Configuration	

3. Click on "New Session". This will open a "Session Settings" window

	Name:  Session 1    Historian:  localhost    DataSet:  •    New File:
	Historian: localhost DataSet:  New File:
	DataSet:  New File:
	New File:
	OPC SERVER
	Host Name or URL:
	Host Port: 0
	Use Security:
≵ Canary Administrator	
Home OPC Collector ×	
Sessions SESSIONS NEW SESSION NEW GROUP REMOVE	

- Specify a name for the session
- Specify the historian/s the data should be sent to by entering its names in the Historian text box. You can specify the machine name or IP address. If you have multiple historians, you can separate them with a comma
- Create a dataset manually by entering a name for it or select a dataset from the dropdown to which the data will be logged to
- The "New File" option is there if you wish to create a logging file revision. It lets the Historian release tag licensing for tag names that don't appear in this new session
- Add the OPC server machine name or URL in the "Host name or URL" text box. If you are local to the machine, you can use "localhost"
- And lastly, add the host port

4. You can save these settings by clicking on the "Apply" button at the top of the screen in the red bar



5. Click on "Browse" in the Tags Window

AGS		NEW BROWSE REMOVE COPY PASTE P/	ASTE NEW TAG PROPERTIES
ilter Tags:	itart typing to filter tags		Errors Only
GROUP	CANARY TAG NAME	OPC NODE ID	TYPE

6. This is where you can browse the OPC Server and choose the tags you want to log by using your mouse and the Shift key to highlight them. After selecting the tags, you can choose the properties according to your needs by checking available properties listed in the "Properties" window. Click "Apply" to log the selected tags and "OK" once done.

Jame Prefix:		Prepend Browse Path
xample: _Address		
erver Nodes:	Start typing to filter tags	Properties
Scheduler	Address	
<ul> <li>SecurityPolicies</li> </ul>	_ClientAccess	
SNMP Agent	Description	
System	_Name	
Channel1	_NegateValue	
Data Type Examples	_RawDataType	
Ola	_ScalingClampHigh	
▶ _Statistics	_ScalingClampLow	
▶ _System	_ScalingRawHigh	
<ul> <li>Mainplant PLC</li> </ul>	_ScalingRawLow	
▶ _System	_ScalingScaledDataType	
▶ _Hints	_ScalingScaledHigh	
020-Boiler001-FT-001-PV	_ScalingScaledLow	
020-Boiler001-PT-001-PV	_ScalingType	
020-Boiler001-TT-001-PV	_ScalingUnits	
020-Boiler002-FT-001-PV		
▶ 020-Boiler002-PT-001-PV	▼	

7. You should now see all of your tags in the OPC collector under your new logging session

ne Ol	PC Colle	ctor ×										
ions si		W SESSION	NEW GROUP	REMOVE	TAGS		NEW	BROWSE			PASTE NEW	TAG PROPERTI
Þ	Main Plant - 51 t	ag(s)			Filter Tags: Star	rt typing to filter tags						Errors Or
ings				_	GROUP	CANARY TAG NAME	OPC NOD	E ID				TYPE
					Group 1	020-Boiler001-FT-001-PV	ns=2:s=Ol	a.Mainplant P	LC.020-Boile	r001-FT-001-F	v	ServerDefault
					Group 1	020-Boiler001-PT-001-PV	ns=2:s=Ola	a.Mainplant P	LC.020-Boile	r001-PT-001-F	v	ServerDefault
					Group 1	020-Boiler001-TT-001-PV	ns=2;s=Oli	a.Mainplant P	LC.020-Boile	r001-TT-001-F	v	ServerDefault
					Group 1	020-Boiler002-FT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r002-FT-001-F	v	ServerDefault
					Group 1	020-Boiler002-PT-001-PV	ns=2;s=Oli	a.Mainplant P	LC.020-Boile	r002-PT-001-F	v	ServerDefault
					Group 1	020-Boiler002-TT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r002-TT-001-F	v	ServerDefault
					Group 1	020-Boiler003-FT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r003-FT-001-F	v	ServerDefault
					Group 1	020-Boiler003-PT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r003-PT-001-F	v	ServerDefault
					Group 1	020-Boiler003-TT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r003-TT-001-F	v	ServerDefault
					Group 1	020-Boiler004-FT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r004-FT-001-F	v	ServerDefault
					Group 1	020-Boiler004-PT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r004-PT-001-F	v	ServerDefault
					Group 1	020-Boiler004-TT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Boile	r004-TT-001-F	v	ServerDefault
					Group 1	020-Filler001-JT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	001-JT-001-P\	1	ServerDefault
		CS.			Group 1	020-Filler001-State	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	001-State		ServerDefault
3					Group 1	020-Filler002-JT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	002-JT-001-P\	1	ServerDefault
N	ame:	Main Plant			Group 1	020-Filler002-State	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	002-State		ServerDefault
н	istorian:	localhost			Group 1	020-FillerI001-BottleCount	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	1001-BottleCo	unt	ServerDefault
		0.000 114			Group 1	020-FillerI001-BottleCount-Reject	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	1001-BottleCo	unt-Reject	ServerDefault
Di	ataset:	OPCUA			Group 1	020-FillerI001-Product	ns=2;s=Oli	a.Mainplant P	LC.020-Filler	1001-Product		ServerDefault
N	ew File:				Group 1	020-Filler1002-BottleCount	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	1002-BottleCo	unt	ServerDefault
0	PC SERVER				Group 1	020-FillerI002-BottleCount-Reject	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	1002-BottleCo	unt-Reject	ServerDefault
н	ost Name or URL:	localhost			Group 1	020-Filler1002-Product	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	1002-Product		ServerDefault
		10200			Group 1	020-Filler1003-BottleCount	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	1003-BottleCo	unt	ServerDefault
H	ost Port:	49380			Group 1	020-FillerO001-FT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	0001-FT-001-	PV	ServerDefault
U	se Security:				Group 1	020-FillerO001-FT-002-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	0001-FT-002-	PV	ServerDefault
					Group 1	020-FillerO002-FT-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	0002-FT-001-	PV	ServerDefault
					Group 1	020-FillerO002-FT-002-PV	ns=2;s=Ola	a.Mainplant P	LC.020-Filler	O002-FT-002-	PV	ServerDefault
					Group 1	020-WM001-FQ-001-PV	ns=2;s=Ola	a.Mainplant P	LC.020-WM	001-FQ-001-P	/	ServerDefault
					4		-					

# 3. Starting and Stopping Logging Sessions

To start logging the data, click on the "Select" option from the menu at the bottom of the screen.

Historian:	
	localhost
DataSet:	OPC UA
New File:	
OPC SERVER	
Host Name or URL:	localhost
Host Port:	49380
Use Security:	

There will be a grey tile for every session created. Click on the play icon to start logging the data for that session. The tile will turn blue once it has started. And to stop the logging, click on the stop logo.

OME OPC Collector ×	
SSIONS SSIONS al Session: 1 al Groups: 1 spi Logging: 0 or: 0 Main Plant Groups: 1 Tags: 51	SESSIONS Total Groups: 1 Total Tags: 51 Tags Logging: 51 Errors: 0 Main Plant Groups: 1 Tags: 51 Errors: 1 Tags: 51 Errors: 1

# 4. OPC DA Data Collection

The OPC DA Collector can read data from an OPC DA server and send that data to the Canary Sender Service.

The OPC DA data logger should be configured in the Canary Admin application first, and then the data should be logged in the Logger Administrator application.

1. Open the "Logger" panel

🌲 Canary Administrator					localhost 🔹 ? 😑 📼 🗙
Home					
		Connected	to Localhost		
	Services Hotovian: Running Rocolve: Running Logger: Running View: Running View: Running Calculation: Running Aulons: Running	Messages (Lat 24 Hours) Warts 29 Error: 36 Fatal: 0	Licenses Canary Historian: 5.000 Taga (54409) Anion: 3 Users (54409) Exel Add-In: 3 Users (8/14) Art Connector: 1 Users (54,400)	Admin Remote Enabled: Tose Users Allowed: 1 Users Desired: 0 Service Winslow: 22.11.0.21075 Client Weslier: 23.11.0.21075	
	CSNCORetor Running DataSets 2 Licensed Tage 51 Hundles (RV) 67 A5 Updates/Sec 45.4 Version: 21.1.021075	Receiver Sessions 1 Tagis 51 Updates 91,207 Updates/Sec 29 Fronce 211,0,21075	Sender sesion 1 lag: 31 futte: 0 store/sec 28 sees/sec 29 tense: \$23 Wesion: 211.0.21075	Logger Session: 0 Tage: 0 Logging: 0 Vensior: 21.1.0.21075	
	OPC Collector Sectors 1 lage 51 Legging 51 Errors 1 Wersion 21.1.021075	Views Client: 0 Vene: 3 Security: Enabled Venior: 21.10.21075	Events Monitoring 0 Checks in Lest Mirc 0 In Progress 0 Lest 24 House 0 Koak 0 Versione 21.1.8.21075	Calculation Calculations active: 0 Whiting to tage: 0 Calculated tokinou: 0 Calculated tokinou: 0 Wandor: 211.0.21073	A.S.
	Axiom Cliente: 0 Browser: Itale Graphice Tale: Wension: 21.1.0.21073	CSV Collector Directories 0 Quandt 0 Processed: 0 Tagis 0 TVQis 0 Wession 21.1.0.21075	SQL Collector Connectione 0 Page 0 PrVa: 0 Wesian: 21.1.0.21075	MQTT Collector Groups: 0 Convections: 0 TrQue: 0 Version: 211.021075	
	canary	K		5	

2. There will be only 2 options in the Logger window; Run As and Arguments. Run As is a drop down list of choices on how to run the processes.

Home	Logger ×			
CONFIGURATION				
Run As:	Service	•		
Arguments:	Service			
U U	Interactive User			

- a. Service It registers the CLILogger.exe as a service that is set to automatic and starts it. If any arguments are passed in while this option is chosen, it will be executed on startup.
- b. Interactive User The CLILogger.exe will run and the credentials of the currently logged in user will be used. If any arguments are passed in while this option is chosen, it will be added to a shortcut for the CLIHistStart.exe and placed in the Startup folder to be executed at logon.
- 3. Arguments are the command line parameters that will be executed by the above mentioned service or interactive user.

# 5. Creating Logging Sessions and Logging Data

From your OPC Server, launch the Logger Administrator application. Your computer name will be displayed in the place of the black blocks

	e memory.	TUO MB (Stop (	caching when physical + virtual memory fails	below this amount.)	
Computer	Location	Statue		Longer	
Computer	Local	Connected	0 trends	Lögger	
					_

- 1. You can adjust the value in the "Minimum available memory" field to adjust the memory threshold. Logging sessions automatically cache data to your local memory.
- 2. Click on "File" and select "New Log Session"



3. A new tab named "Untitled" will appear. Rename your logging session in the "Name" field, and the tab name will change accordingly.

File Edit Canaty Admin Help
General • Unitied
Image: Start     Save     Apply     Cancel
Name: Inteled Historian Computer:
Group 1
Group Name: Group 1 Computer
Update Rate: 00.00.01.000 OPC Server
OPC Deadband: 0 Normalization Time: 00.00:00.000
Trigger Item ID:
Name Item ID Type Description Eng. Units Log Rate High Scale Low Scale High Limit Low Limit Dead Band Data Transform

4. In the "Historian Computer" field, enter the machine name or IP address of the Canary Historian you are using. If you want to log data to more than one historian machines, separate the names with commas.

File Edit Cana	ary Admin Help
ieneral Untitled	
dit Start Save	Apply Cancel
Name: Untitled	Historian Computer.
Group 1	
Group Name:	Group 1 Computer:
Update Rate:	00:00:01:000 OPC Server:
OPC Deadband:	0 Normalization Time: 00:00:00:000
Trigger Item ID:	Trigger Expression:
Name Item ID	Tuna Dependention Ence Links Lon Data Mich Scala Law Scala High Law Link Low Link Data Rand Data Transform
Name item ib	Type Description Eng. Onto Dig have high scare high scare high static Low scare high scare hans one manifestion

5. The option to "Create a new file when logging starts" enables you to create a logging file revision. It lets the Historian release tag licensing for tag names that don't appear in this new session

6. The tab with the name "Group 1" shows that Group 1has automatically been created. To create more groups, right click on the Group 1 tab and select "Add new group"



7. Change the group name if required. Enter the machine name or IP address of the OPC Server if not local. If it is, leave the field black

File Edit Canary Admin Help
General Unitiled
Image: Start     Save     Save     Apply     Cancel
Name: Littets Historian Computer: 🗸 Create new file when logging starts
Group 1
Group Name: Group 1 Computer:
Update Rate: 00:00:01.000 OPC Server:
OPC Deadband: 0 Normalization Time: 00:00:00.000
Trioner Fernession
Name Item ID Type Description Eng. Units Log Rate High Scale Low Scale High Limit Low Limit Dead Band Data Transform

8. To select the OPC Server, click on the ellipse ... icon next to the "OPC Server" option. A screen will pop-up which will allow you to browse between your OPC Servers

OPC Servers on			-		×
Name	ProgID				
Canary Labs Simulated Data Server Toolbox OPC Power Server 6.1	CanaryLabs.SimDataServer SWToolbox.TOPServer.V6				
			ОК	Cano	el

9. Once you have selected your OPC Server, right-click on the dark grey window area below the group settings tab and choose the "Browse OPC Server". Alternatively, you can press Ctrl + B

Course Manage	Comment	1			C					
Group Name:	Group 1			Computer:						
Update Rate:	00:00:01.000			0:00:01.000 OPC Server: SWToolbox			box.TOPSer	ver.V6		
OPC Deadband:	0			Ne	Normalization Time: 00:00:00.000		0.000			
Trigger Item ID:				Т	rigger Expressi	on:				
Name Item ID	Туре	Description	Eng. Units	Log Rate	High Scale	Low	Scale	High Limit	Low Limit	Dead Ba
					Сору			Ct	rl+C	
					Copy Paste Paste I	New	Trend(s)	Ct Ct Ctrl+Shi	rl+C :rl+V ft+V	
					Copy Paste Paste Brows	New e OP	Trend(s) C Serve	Ct Ct Ctrl+Shi	rl+C :rl+V ft+V :rl+B	
					Copy Paste Paste I Brows Add B	New e OP lank	Trend(s) C Serve Trend	Ct Ct Ctrl+Shi	rl+C :rl+V ft+V :rl+B	
					Copy Paste Paste I Brows Add B Delete	New e OP lank	Trend(s) C Server Trend cted Tre	Ct Ct Ctrl+Shi Ct nd(s)	rl+C rl+V ft+V rl+B Del	
					Copy Paste Paste I Brows Add B Delete Find	New e OP lank Sele	Trend(s) C Server Trend cted Tre	Ct Ct Ctrl+Shi Ct nd(s) Ct	rl+C rl+V ft+V 	
					Copy Paste Paste I Brows Add B Delete Find Replac	New e OP lank Sele	Trend(s) C Server Trend cted Tre	Ct Ct Ctrl+Shi  Ct Ct	rl+C rl+V ft+V Del trl+F rl+H	

10. A new window will pop up where you can add trends. In the "Name Prefix" dropdown, select the dataset in which to log the data. If there are no datasets available to choose form, you need to exit the window and create a dataset on the Canary Historian Server

Name Profix	
	× .
{Diagnostics}	
OPC UA	

11. In the "Server Nodes" window you can browse the OPC Server structure to find the desired tags. Once you have clicked on the tags, and they are visible in the right hand window, select all individual tags required. Use Shift to multi-select tags

Example:DemandPoll	Prepend browser path
Server Nodes:	Filter:
<ul> <li>SWToolbox.TOPServer.V6</li> <li>AdvancedTags</li> <li>ConnectionSharing</li> <li>CustomAlams</li> <li>DataLogger</li> <li>EFMExporter</li> <li>LocalHistorian</li> <li>Redundancy</li> <li>Scheduler</li> <li>Scheduler</li> <li>Scheduler</li> <li>Steduler</li> <li>System</li> <li>Ola</li> <li>System</li> </ul>	Name         _DemandPoll         _Description         _DeviceId         _Enabled         _Error         _NoError         _ScanMode         _SecondsInError         _Simulated
Create Branch	OK Cancel Apply

12. If you wish to prepend the tag name with its browse path, click on the "Prepend browser path" option. Click on the "Apply" button to select the tags which you want to log. Click "OK" when done

13. A table will appear with all of the tag you selected. To select a tag row, click on the corresponding block for that row in the first column which is empty. To edit a cell, yu can double click on it

Group Name: G	roup 1 Co		nputer:									
Update Rate: 0	ate: 00:00:01.000 OPC			Foolbox.TOPServer.V6								
OPC Deadband: 0	and: 0 Normalizatic			D:00.000								
Trigger Item ID:		Trigger Expre	ession:									
Name	Item ID		Туре	Description	Eng. Units	Log Rate	High Scale	Low Scale	High Limit	Low Limit	Dead Band	Data Transf
OPC UADemandP	Ola.Mainplant PLCSystem	_DemandPoll	BOOL			00:00:00.0100000	True	False	True	False	False	
OPC UADescription	on Ola.Mainplant PLCSystem.	_Description	STRING			00:00:00.0100000	100	0	100	0	0	
OPC UADeviceId	Ola.Mainplant PLCSystem	_Deviceld	STRING	Driver-dependent device ID		00:00:00.0100000	100	0	100	0	0	
OPC UAEnabled	Ola.Mainplant PLCSystem	_Enabled	BOOL			00:00:00.0100000	True	False	True	False	False	
OPC UAError	Ola.Mainplant PLCSystem.	_Error	BOOL			00:00:00.0100000	True	False	True	False	False	
OPC UANoError	Ola.Mainplant PLCSystem	_NoError	BOOL			00:00:00.0100000	True	False	True	False	False	
OPC UAScanMod	e Ola.Mainplant PLCSystem	_ScanMode	STRING			00:00:00.0100000	100	0	100	0	0	
OPC UAScanRate	Ms Ola.Mainplant PLCSystem.	_ScanRateMs	UI4			00:00:00.0100000	100	0	100	0	0	
OPC UASecondsl	nError Ola.Mainplant PLCSystem.	_SecondsinError	UI4			00:00:00.0100000	100	0	100	0	0	
OPC UA. Simulated	Ola.Mainplant PLC. System.	Simulated	BOOL			00:00:00.0100000	True	False	True	False	False	

14. To delete a row, select the row and right-click to select the "Delete Selected Trend(s)" option

Name	Item ID		Туре	Description
OPC UADemandPoll	Ola.Mainplant PLCSystem	а на н Съф	0001	Chilly V
OPC UADescription	Ola.Mainplant PLCSystem	Cut		Ctn+X
OPC UADeviceId	Ola.Mainplant PLCSystem	Сору		Ctrl+C
OPC UAEnabled	Ola.Mainplant PLCSystem	Paste		Ctrl+V
OPC UAError	Ola.Mainplant PLCSystem	Paste Nev	w Trend(s)	Ctrl+Shift+V
OPC UANoError	Ola.Mainplant PLCSystem	Province C	DC Canvar	Chally D
OPC UAScanMode	Ola.Mainplant PLCSystem	BIOWSEC	· - ·	Cui+b
OPC UAScanRateMs	Ola.Mainplant PLCSystem	Add Blan	k Irend	
OPC UASecondsInError	Ola.Mainplant PLCSystem	Delete Se	lected Trend(	(s) Del
OPC UASimulated	Ola.Mainplant PLCSystem	Find		Ctrl+F
		Replace		Ctrl+H
		Hide Col	umns	+

15. Apply and save your changes at the top of the window. Click on the "Start" button to start logging data

File Edit Canary Admin Help	File Edit Canary Admin Help
General Untitled	General Untitled
Image: Start     I	Edit Start Save Apply Cancel
Name: Untitled	Name: Untitled

16. If your data is logging correctly, you will see the following at the bottom of the window, where your computer name will be displayed in place of the black box

Logger:	- 10 trends Session: 10	) trends

#### 6. Summary

To connect to an OPC UA or OPC DA server to collect data in Canary, here is a summary of what you need to do:

- 1. Setup the OPC Collector for OPC UA data collection in the Canary Admin application
- 2. Start the logging sessions
- 3. OR Setup the OPC Collector for OPC DA data collection in the Canary Admin application
- 4. Create logging sessions and log the data in the Logger Administrator application

For additional resourcing, please direct yourself to the Canary user manual: https://help.canarylabs.com/hc/en-us/articles/360051080774-The-Canary-System-Quick-Start-<u>Guide-V20-1-0-</u>



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