

UDS ATOM

Dedicated software
for OT/IT convergence



Reference Manual

Sourcer OPC DA Client

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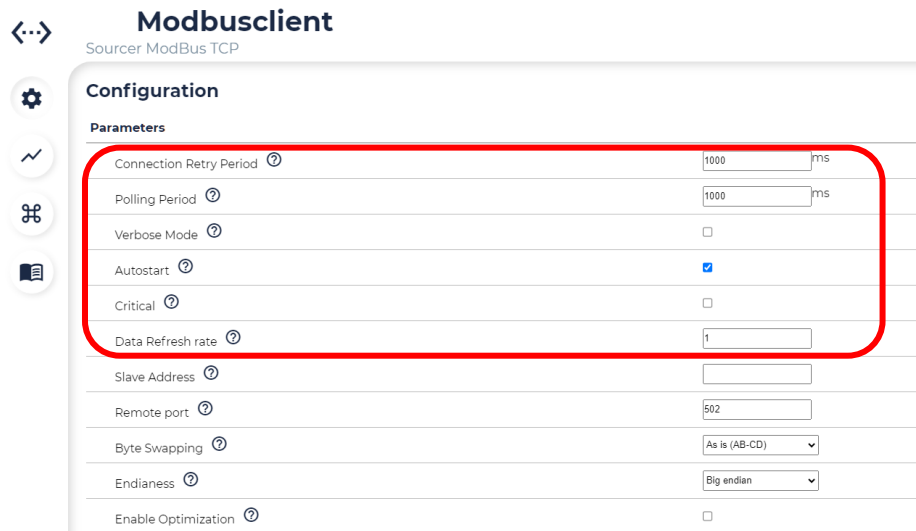


1 Introduction

With the sourcer for OPC DA, you can quickly and easily integrate UDS Atom into your existing OPC DA-based systems. Supports OPC DA 2 & 3, for Windows only. It connects to local and remote OPC servers so that you can connect to your devices no matter where they are.



2 General configuration



Modbusclient
Sourcer ModBus TCP

Configuration

Parameters

Connection Retry Period	1000	ms
Polling Period	1000	ms
Verbose Mode	<input type="checkbox"/>	
Autostart	<input checked="" type="checkbox"/>	
Critical	<input type="checkbox"/>	
Data Refresh rate	1	
Slave Address		
Remote port	502	
Byte Swapping	As is (AB-CD)	
Endianness	Big endian	
Enable Optimization	<input type="checkbox"/>	

Every sourcer have a common set of parameters (highlighted in red on the above figure)

- **Connection Retry Period:** Time before trying to re-open the connection after a failed attempt, displayed in milliseconds.
- **Polling Period:** The polling period (in milliseconds) is the amount of time that passes before the sourcer communicates updated values to UDS Atom.
- **Verbose Mode:** When this option is set to true, the sourcer provides additional information as to what the sourcer is doing in the logbook.
- **Autostart:** When **Autostart** is set to true, the sourcer will start automatically after UDS Atom startup. If set to false, the sourcer will be in **Stand-by** state.
- **Critical:** When this option is set to true, the sourcer will send a notification when it's down.
- **Data Refresh rate:** This parameter determines the rate which data is sent to the hub. This parameter is tied to **Poll Period**. For example, setting a **Data Refresh Rate** to 10 with a **Poll Period** to 2000 means that a bunch of 10 samples will be sent every 20 seconds.



3 OPC DA Client configuration

3.1 Specific configuration

OPCDAclient
Sourcer OPC DA

Parameters

Connection Retry Period ?	1000 ms
Polling Period ?	1000 ms
Verbose Mode ?	<input type="checkbox"/>
Autostart ?	<input checked="" type="checkbox"/>
Critical ?	<input type="checkbox"/>
Data Refresh rate ?	1
Nodes List ?	[]
OPC DA Server Host IP ?	
OPC Specifications ?	Data Access 2.XX
OPC DA Server Name ?	

Alarms

OPC DA client have some specific parameters among the followings:

- Server Host IP: Name of the computer to connect with
- Server Name: Name of the OPC DA hosted by the host to connect with
- OPC Specifications: information about if the OPC server is 2.XX or 3.0 compatible
- Nodes List: Item list to retrieve from the OPC DA Server.

3.1 Tags configuration

3.1.1 Input tags

Input tags are defined in a JSON array of objects like the following:

```
[
  {
    "SysLabel": " 222-AA165/TOTAL_H.IN",
    "UserLabel": " 222-AA165 hours total time",
    "Node ID": " 222-AA165/Motor_Total.TimeHours",
    "Unit": "°C",
    "HighPrio": true
  }
]
```



Each tag is defined by:

Parameter	Type	Required	Description
SysLabel	string	NO	Unique Id of the channel (optionnal). if this field is missiing, Channel = "Location.Address" fields value such as "DB5.5"
UserLabel	string	NO	Caption of the channel. A more human readable name for the channel. If empty, field is like Channel field
Node ID	string	YES	ID of the item in the OPC DA tree
Unit	string	NO	Unit of the read value
HighPrio	boolean	NO	If true result of the virtual channel will be computed at high priority by pushers



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