

Integration Objects' OPC DA Access for Modbus Devices

OPC Server for Modbus Version 2.0Rev.1

QUICK USER GUIDE



Integration Objects' OPC Server for Modbus Quick User's Guide Version 2.0Rev.1 Published July 2021 Copyright © 2015-2021 Integration Objects



ABOUT THIS USER GUIDE

This document is a quick step by step guide on how to install and use the OPC Server for Modbus.

INSTALLATION PRE-REQUISITES

In order to properly run the OPC Server for Modbus, install these software components on the target system:

- The OPC core components 3.00, which consist of all shared OPC modules including the DCOM proxy/stub libraries, the OPC Server Enumerator, .NET wrappers, etc. You can deploy the OPC core components during the installation by checking the option "Install OPC Core Components" or after installation by using the setup available in the installation folder of the OPC Server for Modbus.
- .NET Framework 4.5 or higher.

INSTALLING THE OPC SERVER FOR MODBUS

To install the OPC Server for Modbus, right-click on the installation executable and select "Run as administrator" from the displayed menu. The prompted wizard will then take you through the different installation steps.

To start the OPC Server for Modbus, you need to follow the below steps:

- 1. Go to Start => Programs => Integration Objects => OPC Server for Modbus => OPC Server for Modbus
- 2. Start the OPC Server for Modbus.

ADDING A NEW DEVICE

To add a new device, right click on the Address Space node, select **New Device** as illustrated below.



Figure 1: Add a New Device

Then, the following dialog screen will appear as shown below:





Figure 2: Add New Device Wizard

• <u>Step 1: Connection Parameters</u>

Click the **Next** button. The following window will be displayed:



🛉 New Device	x
Device Connection	
Connection Parameters Device Type: TCP Port: 502 TCP Name: SERIAL	
IP Address : 127.0.0.1	
Slave Identifier : 1	÷
Connection Timeout (s) : 3	÷
Timeouts Number : 3	-
Request Timeout (ms) : 1000	+
Request Timeouts Number : 10	÷
Disable Diagnostics	ion
Inter Request Delay (ms): 5	÷
< Back Next > Ca	ncel

Figure 3: Select Device Connection Configuration

Depending on the selected features during the installation, you can configure the communication with the following Modbus devices types:

- TCP/IP Modbus Device
- Serial Modbus Device

You will then configure the port with reference to the selected type.

• For the Modbus TCP/IP protocol, enter the listening TCP port reserved for the Modbus device communications. The default value is 502.



🕂 New Device	x
Device Connection	
Connection Parameters	
Name : Device_0	
IP Address : 127.0.0.1	
Slave Identifier : 1	
Connection Timeout (s) : 3	
Timeouts Number : 3	
Request Timeout (ms) : 1000	
Request Timeouts Number : 10	
Disable Diagnostics Test Connection	n
Inter Request Delay (ms): 5	
< Back Next > Cano	el

Figure 4: Select the TCP/IP Listening Modbus Port

For the Modbus serial protocol, click on the **Port Settings** button as shown below:



New Device			x
Device Connec	Device Connection		
Connecti	on Parameters]	
Device Type : SERIAL		Port Settings	
Name : Device	e_2		
COM Port: COM	1		•
Slave Identifier : 1			-
Connection Timeout (s) :	3		÷
Timeouts Number :	3		÷
Request Timeout (ms) :	1000		÷
Request Timeouts Number :	10		÷
Disable Diagnostics		Test Connection	on
Inter Request Delay (ms):	5		÷
Response Delay (ms):	0		÷
Transmission Mode: RTU			-
< Ba	ck Next	t> Can	cel

Figure 5: Select the Serial COM Modbus Port



🛉 Port Settings	x
Port ID :	COM1
Baud Rate:	9600 💌
Data Bit :	8
Parity :	Odd 💌
Stop Bits :	1 🔹
Flow Control :	None
Read Timeout (ms) :	1000 🛓
Write Timeout (ms) :	1000 🛫
Test Port	OK Cancel

Figure 6: Select the COM Port Settings

The table below summarizes the parameters to configure the serial COM port:

Parameter	Description
Port ID	The port ID
Baud Rate	The baud rate to be used to configure the com port
Data Bits	The number of data bits per data word
Parity	The type of parity for the data
Stop Bits	The number of stop bits per data word
Flow Control	Defines how the RTS and DTR control lines are used
Read Timeout	The read timeout
Write Timeout	The write timeout

Table 1: COM Port Settings Parameters

After choosing the device type, enter the connection parameters.



New Device	x
Device Connection	
Connection Parameters	502
Name : Device_TCP	
IP Address : 127.0.0.1	
Slave Identifier : 1	÷
Connection Timeout (s) : 3	÷
Timeouts Number : 3	-
Request Timeout (ms) : 1000	÷
Request Timeouts Number : 10	-
Disable Diagnostics	Connection
Inter Request Delay (ms): 5	-
< Back Next >	Cancel

Figure 7: Select the TCP/IP Device Connection Parameters

Parameter	Description
Name	The device name
IP Address	The Modbus device IP address
Slave Identifier	The Identifier of the slave device



Connection Timeout	The waiting period for an unresponsive server	
Timeout Number	The allowed timeouts number when the server does not respond	
Request Timeout	The amount of seconds that the OPC Server will wait before setting the OPC Tag quality to bad	
Request Timeouts Number	The allowed request timeouts number before starting the reconnection procedure to the device	
Disable Diagnostics	 When unchecked, it means that the diagnostics function will be used to check the device communication status. When checked, it means that the diagnostics function 	
	will not be used to check the device communication status	
Inter Request Delay	Specifies the amount of time between two read requests	

Table 2: TCP/IP Device Connection Parameters



New Device	x
Device Connection	
Connection Parameters Device Type: SERIAL Port Settings	
Name : Device_Serial	
COM Port: COM1	
Slave Identifier : 1	
Connection Timeout (s) : 3	
Timeouts Number : 3	
Request Timeout (ms) : 1000	
Request Timeouts Number : 10	
Disable Diagnostics Test Connection	
Inter Request Delay (ms): 5	
Response Delay (ms): 0	-
Transmission Mode: RTU	
< Back Next > Cance	el

Figure 8: Select the Serial Device Connection Parameters

Parameter	Description
Name	The device name
COM Port	The serial communication port
Slave Identifier	The Identifier of the slave device



Connection Timeout	The waiting period for an unresponsive server	
Timeout Number	The allowed timeouts number when the server does not respond	
Request Timeout	The amount of seconds that the OPC Server will wait before setting the OPC Tag quality to bad	
Request Timeouts Number	The allowed request timeouts number before starting the reconnection procedure to the device	
Transmission Mode	The transmission mode. It can be either the RTU mode or the ASCII mode	
Disable Diagnostics	 When unchecked, it means that the diagnostics function will be used to check the device communication status. 	
	 When checked, it means that the diagnostics function will not be used to check the device communication status 	
Inter Request Delay	Specifies the amount of time between two read requests	
Response Delay	Specifies the amount of time to wait a response from the target device. This delay may be useful in case of devices with slow performance	

Table 3: Serial Device Connection Parameters

You can test the availability of the Modbus Device by clicking on the **Test Connection** button. If the Modbus device is available, a message box will be displayed:

Test Con	nection X
1	Connection to Modbus Device Succeeded.
	<u>0</u> K

Figure 9: Test Connection with Modbus Device



Step 2: Data Access and Swapping Mode Configuration

Once the device connection parameters are configured, click the Next button and the following window will be displayed.

🕂 New Device	x			
Data Access and Swapping Mode				
Data Access Settings	_			
Use zero based bit addressing				
Use zero based bit addressing within registers				
Use holding register bit mask writes				
Use write single register function to write to multiple registers				
Use write single coil function to write to multiple coils				
32 bit registers addressing mode				
Swapping Mode				
DWord Swap Word Swap				
Byte Swap Modicon Bit Ordering				
< Back Next > Cance	; I			

Figure 10: Select Device Data Access & Swapping Mode Parameters

The data access parameters are described in the below table:

Parameter	Description		
Use zero based bit addressing	• False (unchecked):The Modbus device address numbering starts at 1 which makes the starting address sent in the Modbus frames request will have one subtracted.		
	 True (checked): The Modbus device address numbering starts at 0 and the starting address 		



	included in the Modbus frame request will remain the same.		
Use zero based bit addressing within registers	 This option is used with bits within registers referenced as Boolean False (unchecked): The first bit within register begins at one True (checked): The first bit within register begins at zero 		
Use holding register bit mask writes	 This option is used to write in a bit within register using the boolean datatype with holding registers. False (unchecked): The OPC Server will use a read /Write operation to update the bit of interest. True (checked): The OPC Server will use function 22 to update the bit of interest. 		
Use write single register function to write to multiple registers	 This option is related to 32 bits and 64 bits OPC tags. False (unchecked): The OPC Server will use the function 16 to write to multiple registers. True (checked): The OPC Server will use function 06 to write into multiple registers. 		
Use write single coil function to write to multiple coils	 False (unchecked): The OPC Server will use the function 15 to write to multiple coils. True (checked): The OPC Server will use function 05 to write into multiple registers. 		
32 bit Registers Addressing Mode	 This check box determines how floating points and long integer values are handled: When unchecked, it means that the Modbus device allocates two 16 bit registers for containing a floating point or long integer value. When checked, it means that the device allocates one 32 bit register for the value. 		
Enable synchronous communication	When unchecked, it means that the asynchronous communication will be used read/write data from/to Modbus device		



Table 4: Device Data Access Parameters

You can also select the swapping mode with reference to the below description:

Parameter	Description		
DWord Swap	 False (unchecked): Higher dword is sent/received first for double values. True (checked): Lower dword is sent/received first for double values. 		
Word Swap	 False (unchecked): Higher word is sent/received first for long, unsigned long or float values. True (checked): Lower word is sent/received first for long, unsigned long or float values. 		
Byte Swap	 False (unchecked): Higher byte is sent/received first for integer, unsigned integer, long, unsigned long or float values. True (checked): Lower byte is sent/received first for integer, unsigned integer, long, unsigned long or float values. 		
Modicon Bit Ordering	 False (unchecked): Higher bit is sent/received first for Boolean, integer, unsigned integer, long, unsigned long or float values. True (checked): Lower bit is sent/received first for Boolean, integer, unsigned integer, long, unsigned long or float values. 		

Table 5: Device Swapping Mode Parameters

Step 3: Auto-demotion, Block Sizes and Error Handling

After configuring the device data access and swapping mode, click the **Next** button and the following window will be displayed.



🐈 New Device	x		
Communication Failure Handling			
Auto-Demotion			
Enable auto device demotion on communication failures			
Failures Number : 3			
Demotion Period (ms) : 10000			
Discard write requests during the demotion period			
Block Sizes			
Output Coils: 2000 + Holding Registers: 32 + 32 + 32 + 32 + 32 + 32 + 32 + 32 +			
Error Handling Deactivate tags on illegal address exception			
< Back Finish Cancel			

Figure 11: Select Communication Failure Handling Parameters

In addition to the connection parameters, the communication failure is also handled using the Auto-Demotion, the block sizes and the error handling parameters.



Below are the descriptions of each option:

Parameter	Description			
Enable auto device demotion on communication failures	When checked, This option allows to demote a device for a specific period of time when communication failures reaches an already configured limited number.			
Failures Number	The number of successive failures before demoting the device			
Demotion Period During this period ,no read request will be se device				
Discard write requests during the demotion period	When checked, no write request will be sent to the device during the demotion period			

Table 6: Auto-Demotion Parameters

Parameter	Description		
Output Coils	Specifies the number of output coils in the Modbus frame requests		
Input Coils	Specifies the number of input coils in the Modbus frame requests		
Input Registers	Specifies the number of output registers in the Modbus frame requests		
Holding Registers	Specifies the number of input registers in the Modbus frame requests		

Table 7: Device Block Sizes Parameters

After updating the block size properties, you need to restart the service so the changes take effects.



Parameter	Description		
Deactivate tags on	• False (unchecked): When illegal data address error is occurred with a block addresses. The OPC Server remains sending read requests to the Modbus device		
exception	 True (checked): When illegal data address error is occurred with a block addresses. The OPC Server stops sending read requests to the Modbus device 		

Table 8: Device Error Handling Parameters

Step 4: Finish Adding New Device

Click the **Finish** button and the device will be then added to tree view.

ADDING A NEW GROUP

You can add groups under the device node in order to build hierarchal organization of the server address space. A group belongs to a device and contains one or more OPC tags. It can also contain other sub-groups.

Right click on the device node and then select the **New Group** option from the displayed menu.



Figure 12: New Group

Then, the New Group dialog box will be displayed as illustrated below. You can have to specify the group name.



🕂 New Goup	x
Name : Group_0	
ОК	Cancel

Figure 13: New Group Dialog Box

ADDING TAG PER BLOCK

You can add simultaneously multiple tags having the same location type and access right but different addresses. Right click on the group or device node and then select the **Add Tag Block** option.

Addres	ss Spac	e		⊡ 🎯 Address S	pace _0		
🔛		New Group		📴 Gro		New Group	
L 🄛	0	New Tag	Ins	····· 🔛 Gro	\bigcirc	New Tag	Ins
		New Tag Block	Ctrl+Ins			New Tag Block	Ctrl+Ins
		Edit				Edit)
	\odot	Delete			8	Delete	

Figure 14: New Tag Block

The New Tag Block dialog box will be displayed as following:



🕂 New Tag	x
Name :	Tag_0
Location Type :	Coils (bit,read/write)
Address :	1 🚔 Range : 165534
Data Type :	VT_BOOL (Boolean)
Bit Range :	1 🚔 Range:116
Data Length (Bytes) :	1
Access Right:	Read + Write Read Only
🗷 Byte Swap	
Add	OK Cancel

Figure 15: New Tag Block Dialog Box

Parameter	Description						
Base Tag Name	The pattern used to generate the name of the tags						
Location Type	 The Modbus address type, which can be: Coils Discrete Inputs Holding Registers Input Registers Refer to the Location Type table for more details.						
Starting Address	The address of the first tag. Its value should be between 1 and 65534.						
Number of Tags	The number of the tags to be added						
Data Type	 The type of data, which can be: VT_I2: Variable type is 2-byte signed integer VT_I4: Variable type is 4-byte signed integer VT_R4: Variable type is 4-byte real VT_UI2: Variable type is an unsigned integer VT_UI4: Variable type is an unsigned long VT_BSTR: Variable type is binary string 						



	 VT_BOOL: Variable type is Boolean 							
Data Length	The bytes number of the selected data type							
Access Right	The data access right, which can be read only or read/write							
Buto Swan	 False (unchecked): Higher byte is sent/received first for string values. 							
Dyte Swap	 True (checked): Lower byte is sent/received first for string values. 							

Table 9: Tag Block Properties

SAVING THE CONFIGURATION

You can save your configuration using the **Save As** or **Save** button available in the file menu. The Save File As dialog box is then displayed to choose the path where the configuration will be saved.

Save File As					X
Save in:	🌗 Config			🚽 🕲 - 🖄 🔍	🗙 🞬 🎫 🕇 Tools 🕶
Bureau Difference Mes documents Ordinateur	Nom	Modifié le aceMB.csv	Туре	Taille	
	File name:	AddressSpace	MB.csv		Save
	Files of type:	CSV File			Cancel

Figure 16: Save File As Dialog Box

The configuration will be then saved in CSV file format. The configuration is divided into three sections;



- COM port
- Devices
- Tags

The table below describes the fields of the COM port configuration section.

	Field	Description						
1	Port ID	The port ID						
2	Baud Rate	The baud rate to be used to configure the com port						
3	Data Bits	The number of data bits per data word						
4	Parity	The type of parity for the data						
5	Stop Bits	The number of stop bits per data word						
6	Flow Control	Defines how the RTS and DTR control lines are used						
7	Read Timeout	The read timeout						
8	Write Timeout	The write timeout						

Table 10: COM Port Configuration Section Format

The table below describes the fields of the devices configuration section.

	Field	Description										
1	Туре	The device type (SERIAL/TCP)										
2	Serial Port	The serial com port ID										
3	Device Name	The device name										
4	IP Address	The Modbus device IP address										
5	Slave ID	The Identifier of the slave device										
6	Port	The listening TCP port reserved for the Modbus device communications. The default value is 502.										
7	Connection Timeout	The waiting period for an unresponsive server										



8	Timeouts Nbr	The allowed timeouts number when the server does not respond
9	Request Timeout	The amount of seconds that the OPC Server will wait when using the diagnostics function to check the Modbus Device availability.
10	In Coils Blck Size	Specifies the number of input coils in the Modbus frame requests
11	Out Coils Blck Size	Specifies the number of output coils in the Modbus frame requests
12	In Reg Blck Size	Specifies the number of input registers in the Modbus frame requests
13	H Reg Blck Size	Specifies the number of output registers in the Modbus frame requests
14	DWord Swap	 False (unchecked): Higher dword is sent/received first for double values. True (checked): Lower dword is sent/received first for double values.
15	Word Swap	 False (unchecked): Higher word is sent/received first for long, unsigned long or float values. True (checked): Lower word is sent/received first for long, unsigned long or float values.
16	Byte Swap	 False (unchecked): Higher byte is sent/received first for integer, unsigned integer, long, unsigned long or float values. True (checked): Lower byte is sent/received first for integer, unsigned integer, long, unsigned long or float values.
17	Bit Order	 False (unchecked): Higher bit is sent/received first for Boolean, integer, unsigned integer, long, unsigned long or float values. True (checked): Lower bit is sent/received first for Boolean, integer, unsigned integer, long, unsigned long or float values.
18	Base Address	 False (unchecked): The Modbus device address numbering starts at 1 which makes the starting address sent in the Modbus frames request will have one subtracted. True (checked): The Modbus device address numbering starts at 0 and the starting address included in the Modbus frame request will remain the same.
19	Reg Base Address	 This option is used with bits within registers referenced as Boolean False (unchecked): The first bit within register begins at one True (checked): The first bit within register begins at zero
20	H Reg Bit Mask	This option is used to write in a bit within register using the Boolean data type with holding registers.



operation to update the bit of interest.	
True (checked): The OPC Server will use fun	ction 22 to
update the bit of interest.	
21 Only Single Reg This option is related to 32 bits and 64 bits OPC tags	
Write False (unchecked): The OPC Server will use the	function 16
to write to multiple registers.	
True (checked): The OPC Server will use function	n 06 to write
into multiple registers.	
22 Only Single Coil • False (unchecked): The OPC Server will use the	function 15
Write to write to multiple coils.	
True (checked): The OPC Server will use function	n 05 to write
into multiple registers.	
23 Double Register This check box determines how floating points and	long integer
values are handled:	
When unchecked, it means that the Modbus devia	ce allocates
two 16 bit registers for containing a floating pe	oint or long
integer value.	
When checked, it means that the device allocate	s one 32 bit
register for the value.	
Auto Demotion When checked, This option allows to demote a d	evice for a
specific period of time when communication failures	reaches an
already configured limited number.	
25 Failures Nbr The number of successive failures before demoting the number of successive fai	ne device
Demotion Period During this period ,no read request will be sent to the	device
27 Discard Write When checked, no write request will be sent to the de	evice during
the demotion period	
28 Deactivate Tags • False (unchecked): When illegal data address	ss error is
occurred with a block addresses. The OPC Ser	ver remains
sending read requests to the Modbus device	
True (checked): When illegal data address error	is occurred
with a block addresses. The OPC Server stops s	ending read
requests to the Modbus device	
29 I'r Mode The transmission mode (RTU/ASCII)	
30 Synchronous • When unchecked, it means that the as	ynchronous
Enabled communication will be used read/write data from	n/to Modbus
device	



		• When checked, it means that the synchronous communication will be used read/write data from/to Modbus device
31	Diagnostic Enabled	 When unchecked, it means that the diagnostics function will be used to check the device communication status. When checked, it means that the diagnostics function will not be used to check the device communication status
32	Request Timeout Nbr	The allowed request timeouts number before starting the reconnection procedure to the device

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FILE H	IOME INS	ERT PA	AGE LAYOUT	ORMULAS	DATA REVI	EW VIEW DEVEL	OPER Acrobat	TEAM						Imene Khen	niri • 🔍
Paste V Clipboz	t py v rmat Painter ırd s	Calibri B I L	+ 11 + J + ⊞ + 2	A* A* = =	≡ = 8 • • •	Wrap Text	General		al Format as Cell • Table • Styles • Styles	Insert De	elete Format	∑ AutoSum ▼ A ↓ Fill ▼ Sort & Clear ▼ Filter Editing	k Find & Select +		
$\boxed{D11}$ \checkmark : $\boxed{\times}$ \checkmark f_x output_coil									v						
A	В	С	D	E	F	G	н	I	J	к	L	м	N	0	P 🔺
1 Port ID	Baud Rate	Data Bit	Parity	Stop Bits	Flow Control	Read Timeout	Write Timeout								
2 COM1	9600		8 Odd	One	RTU	1000	1000								
3 [Devices	1														
4 Type	Serial Port	Device N	la IP Address	Slave ID	Port	Connection Timeout	Timeouts Nbr	Request Timeout	In Coils Blck Size	Out Coils I	In Reg Blck Siz	ze H Reg Blck Size	DWord Swap	Word Swap	Byte Sv
5 TCP		TCP	127.0.0.1	1	502	5	3	1000	2000	2000		32 32	FALSE	FALSE	FALS
6 SERIAL	COM1	Serial	127.0.0.1	1	502	5	3	1000	2000	2000		32 32	FALSE	FALSE	FALS
7 [Tags]	-														
8 Device	Group	Tag Nam	e Address Type	Access Right	VarType	Address	Bit Range	Data Length	Block Index						
9 TCP	Coils	Tag_1	OUTPUT_COIL	READ_WRITE	VT_BOOL	1	1	1	1						
10 TCP	Coils	Tag 3		READ WRITE	VT_BOOL	2	1	1	1						
12 TCP	Coils	Tag 4	OUTPUT COIL	READ WRITE	VT BOOL	4	1	1	1						
13 TCP	Coils	Tag 5	OUTPUT COIL	READ WRITE	VT BOOL	5	1	1	1						
14 TCP	Coils	Tag 6	OUTPUT COIL	READ WRITE	VT BOOL	6	1	1	1						
15 TCP	Coils	Tag 7	OUTPUT COIL	READ WRITE	VT BOOL	7	1	1	1						
16 TCP	Coils	Tag_8	OUTPUT_COIL	READ_WRITE	VT_BOOL	8	1	1	1						
17 TCP	Coils	Tag_9	OUTPUT_COIL	READ_WRITE	VT_BOOL	9	1	1	1						
18 TCP	Coils	Tag_10	OUTPUT_COIL	READ_WRITE	VT_BOOL	10	1	1	1						
19 Serial	Coils	Tag_1	OUTPUT_COIL	READ_WRITE	VT_BOOL	1	1	1	1						
20 Serial	Coils	Tag_2	OUTPUT_COIL	READ_WRITE	VT_BOOL	2	1	1	1						
21 Serial	Coils	Tag_3	OUTPUT_COIL	READ_WRITE	VT_BOOL	3	1	1	1						
22 Serial	Coils	Tag_4	OUTPUT_COIL	READ_WRITE	VT_BOOL	4	1	1	1						
23 Serial	Coils	Tag_5	OUTPUT_COIL	READ_WRITE	VT_BOOL	5	1	1	1						
24 Serial	Coils	Tag_6	OUTPUT_COIL	READ_WRITE	VT_BOOL	6	1	1	1						
25 Serial	Coils	1ag_7	OUTPUT_COIL	READ_WRITE	VI_BOOL	7	1	1	1						
26 Serial	Colls	1ag_8	COLL	READ_WRITE	VI_BOOL	8	1	1	1						
27 Serial	Coils	Tag_10	OUTPUT_COIL	READ WRITE	VT_BOOL	9	1	1	1						
20 Serial	COIIS	1198_10	COIPOT_COIL	INCAU_WKITE	VI_BOOL	10	1	1	1						
30															——————————————————————————————————————
4	Madhu	- TortConf					1		: GT					-	
	wodbu	stestcon	• 9						: [4]						
RÉADY 🛗													<u> </u>		+ 100 %

Figure 17: Configuration File Example

SETTING THE DEFAULT CONFIGURATION

After saving your configuration, you need to set the default configuration, which will be loaded automatically at the OPC Server for Modbus Service start-up. To define a default configuration, click the Define button available in the Settings Menu.





Figure 18: Set Default Configuration

STARTING THE OPC SERVER FOR MODBUS SERVICE

After setting the default configuration, select the OPC Server menu and click on the start button menu to start the Integration Objects' OPC Server for Modbus service.



Figure 19: Start the OPC Server for Modbus Service

CONNECTING TO THE OPC SERVER FOR MODBUS

Once the OPC Server is configured, the next step will be the connection to the OPC Server and reading/writing data. To do so, you only need to:

Launch your OPC DA Client as administrator.

- 1. Enter the IP address of the machine where the OPC Server is installed
- 2. Connect to the OPC Server with the following ProgID: IntegrationObjects.OPC.ModBus.1"
- 3. Add a group and select the items to be read



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