

# PROCENTEC

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# OPC with ProfiTrace

Distribución: ER-SOFT, S.A. Email: [er@er-soft.com](mailto:er@er-soft.com), Tel: +34 916 408 408

# Setting up ProfiTrace

# First install the OPC drivers

The screenshot shows a Windows Explorer window titled "C:\app\ProfiTrace 2.5\OPC\_Redistributables". The left pane shows a tree view with "OPC\_Redistributables" selected. The right pane shows a list of folders: "OPC Core Components Redistributable (x64) 101.2" and "OPC Core Components Redistributable (x86) 101.2". A context menu is open over the "OPC\_Redistributables" folder, showing options like "32 bit drivers" and "64 bit drivers".

**You can install the drivers directly from the file folders.....**

**..... or the ProfiTrace folder in the Start menu (easier!)**

**1) It takes a relatively long time to install the drivers!**

# Select Setup OPC Tag Settings

The screenshot shows the ProfiTrace for ProfiCore Ultra V2.5 software interface. The 'Settings' menu is open, and 'Setup OPC Tag Settings' is highlighted. A yellow callout box points to this menu item with the text 'Select Setup OPC Tag Settings'. The main window displays a data table with columns 0-9 and rows 0-120.

	0	1	2	3	4	5	6	7	8	9
0	0					5	6	7	8	9
10	10	11	12	13	14	15	16	17	18	19
20	20	21	22	23	24	25	26	27	28	29
30	30	31	32	33	34	35	36	37	38	39
40	40	41	42	43	44	45	46	47	48	49
50	50	51	52	53	54	55	56	57	58	59
60	60	61	62	63	64	65	66	67	68	69
70	70	71	72	73	74	75	76	77	78	79
80	80	81	82	83	84	85	86	87	88	89
90	90	91	92	93	94	95	96	97	98	99
100	100	101	102	103	104	105	106	107	108	109
110	110	111	112	113	114	115	116	117	118	119
120	120	121	122	123	124	125	126			

# Adding OPC Tags

**OPC Server Tags**

Buttons: Add Tag, Delete Tag, Edit Tag, Load Tag Data, Save Tag Data, Reset all

Tags List:

- UserDefined
  - DP-V0 Scanned DX inputs
    - Switch
  - DP-V0 Scanned DX outputs
- System
  - General
    - Onlinestatus
    - Baudrate
  - Statistic
    - Syncs
    - Retries
    - RetriesWorst
    - StationLost
    - IllegalResponses
    - DXIntervalLast
    - DXIntervalSlowest
    - DXIntervalFastest
    - DXFrequencyLast
    - DXNumInputs
    - DXRateOfInputChangeLast
    - DXRateOfInputChangeFastest
    - DXNumOutputs
    - DXRateOfOutputChangeLast
    - DXRateOfOutputChangeFastest
    - DiagReqCount
    - DiagResCount
    - DiagResCountWhileInDX
    - DiagSizeLast
    - DiagSizeLargest
  - LiveList
    - Status
      - Addr000
      - Addr001
      - Addr002
      - Addr003

Properties Window:

Property	Value
TagName	Switch
DataType	Unsigned8 (VT_UI1)
AccessRights	Read
Device Address	32
Offset	0

**Edit OPC Tag** Dialog:

Tag name: Switch  
 Datasource: DP-V0 Scanned DX Inputs  
 DataType: Unsigned8 (VT\_UI1)  
 Station Address: 32  
 Offset: 0

Buttons: Ok, Cancel

Buttons: Close, Help

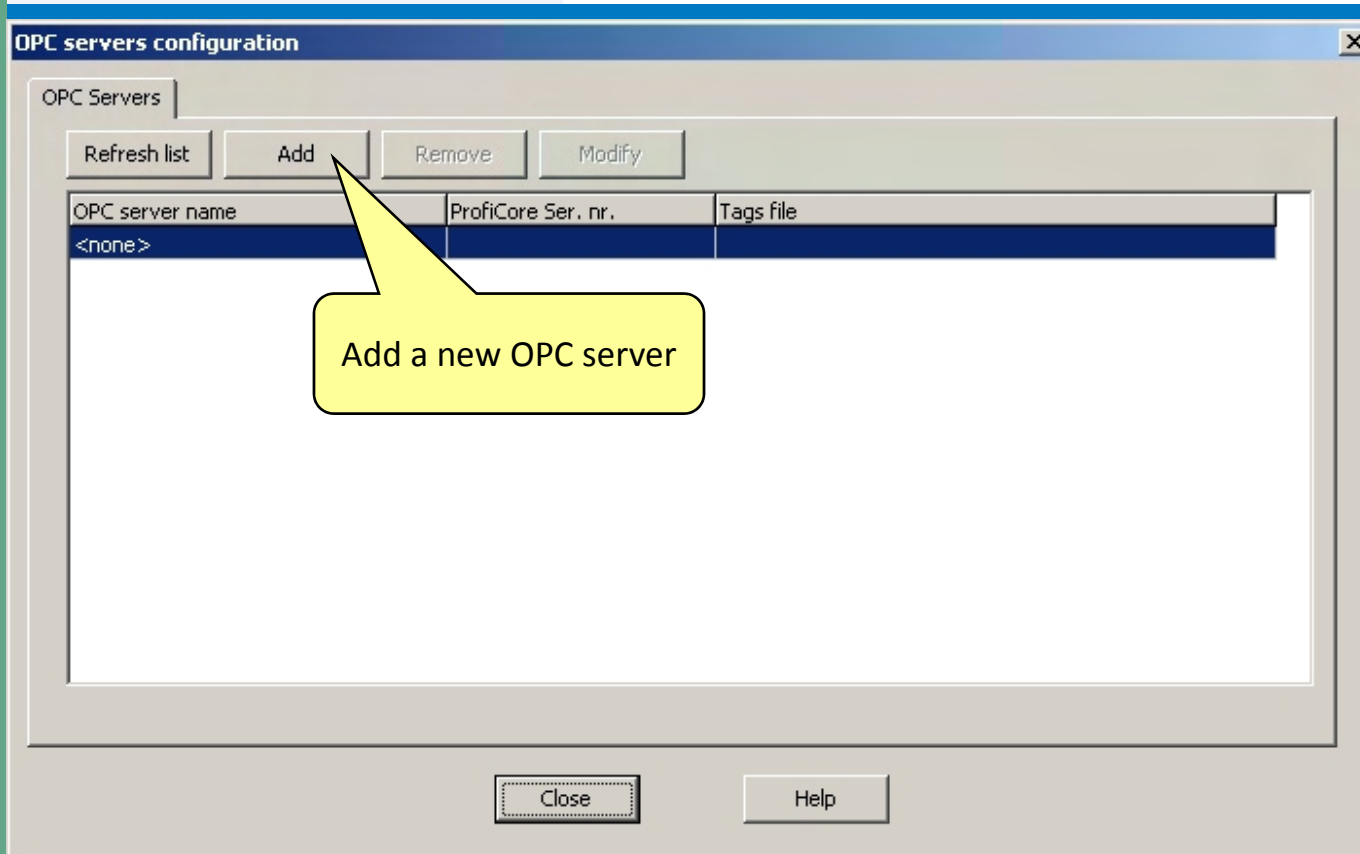
1) Keep in mind that many Tags make the system slow To solve this you can filter Tags in the client you are using.

# Select Setup OPC server

The screenshot shows the ProfiTrace for ProfiCore Ultra V2.5 (c) 2004-2010 PROCENTEC software interface. The 'Settings' menu is open, and the 'Setup OPC Server(s)' option is highlighted. A yellow callout bubble points to this option with the text 'Select Setup OPC Server'. The main window displays a data table with columns 0-9 and rows 0-120.

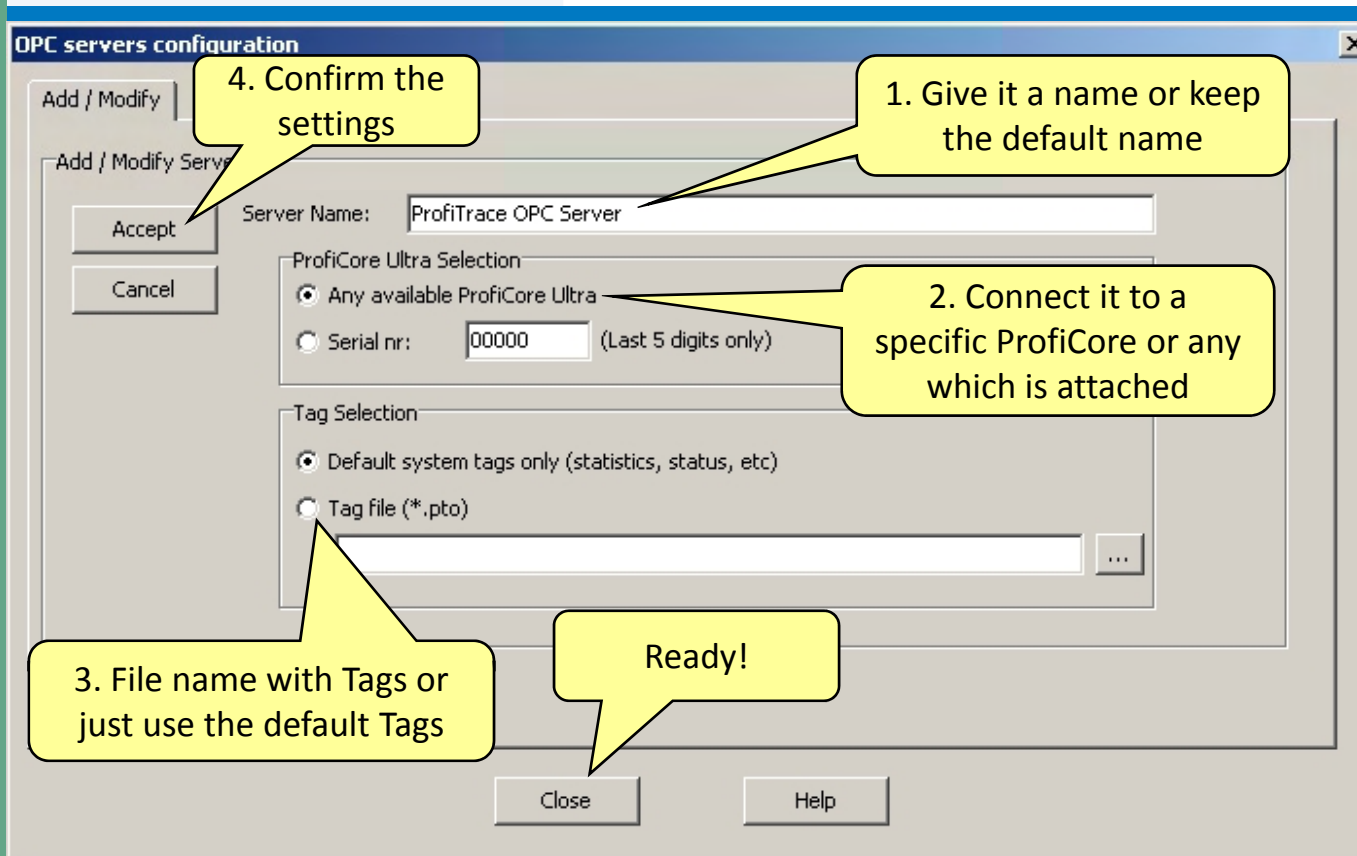
	0	1	2	3	4	5	6	7	8	9	
0	0				4	5	6	7	8	9	
10	10		11	12	13	14	15	16	17	18	19
20	20		21	22	23	24	25	26	27	28	29
30	30		31	32	33	34	35	36	37	38	39
40	40		41	42	43	44	45	46	47	48	49
50	50		51	52	53	54	55	56	57	58	59
60	60		61	62	63	64	65	66	67	68	69
70	70		71	72	73	74	75	76	77	78	79
80	80		81	82	83	84	85	86	87	88	89
90	90		91	92	93	94	95	96	97	98	99
100	100		101	102	103	104	105	106	107	108	109
110	110		111	112	113	114	115	116	117	118	119
120	120		121	122	123	124	125	126			

# Create an OPC Server



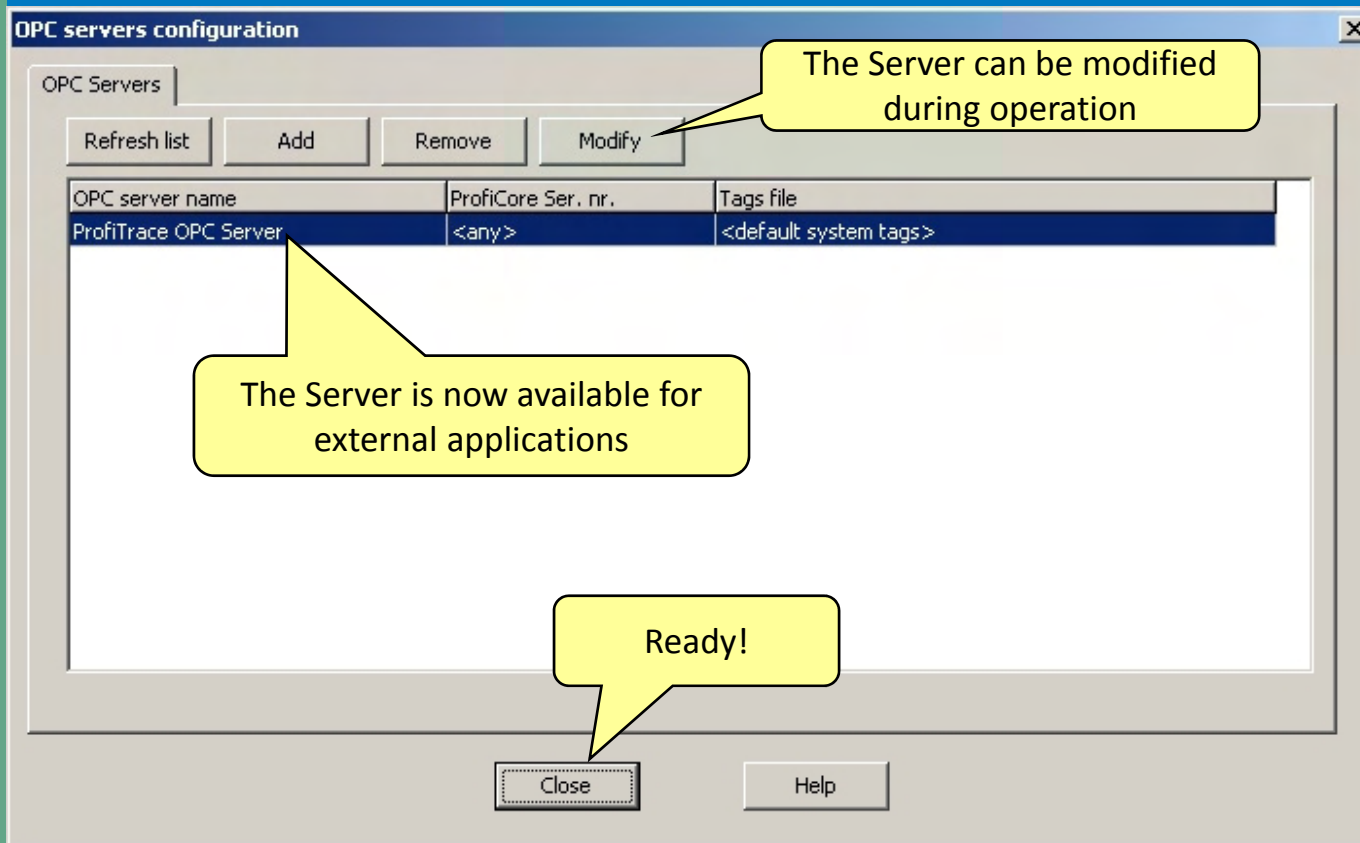
- 1) Maximum 16 Servers can be created each with its own Tag groups.

# Setting up the OPC Server



1) When multiple Servers are created, it is best that you work with Tag files (\*.PTO).

# OPC Server is now available



# Example with Matrikon OPC Explorer

# Connecting to the ProfiTrace OPC Server

**1. Search/Add the OPC server**

**2. Connect with the OPC server**

**3. Adding tags**

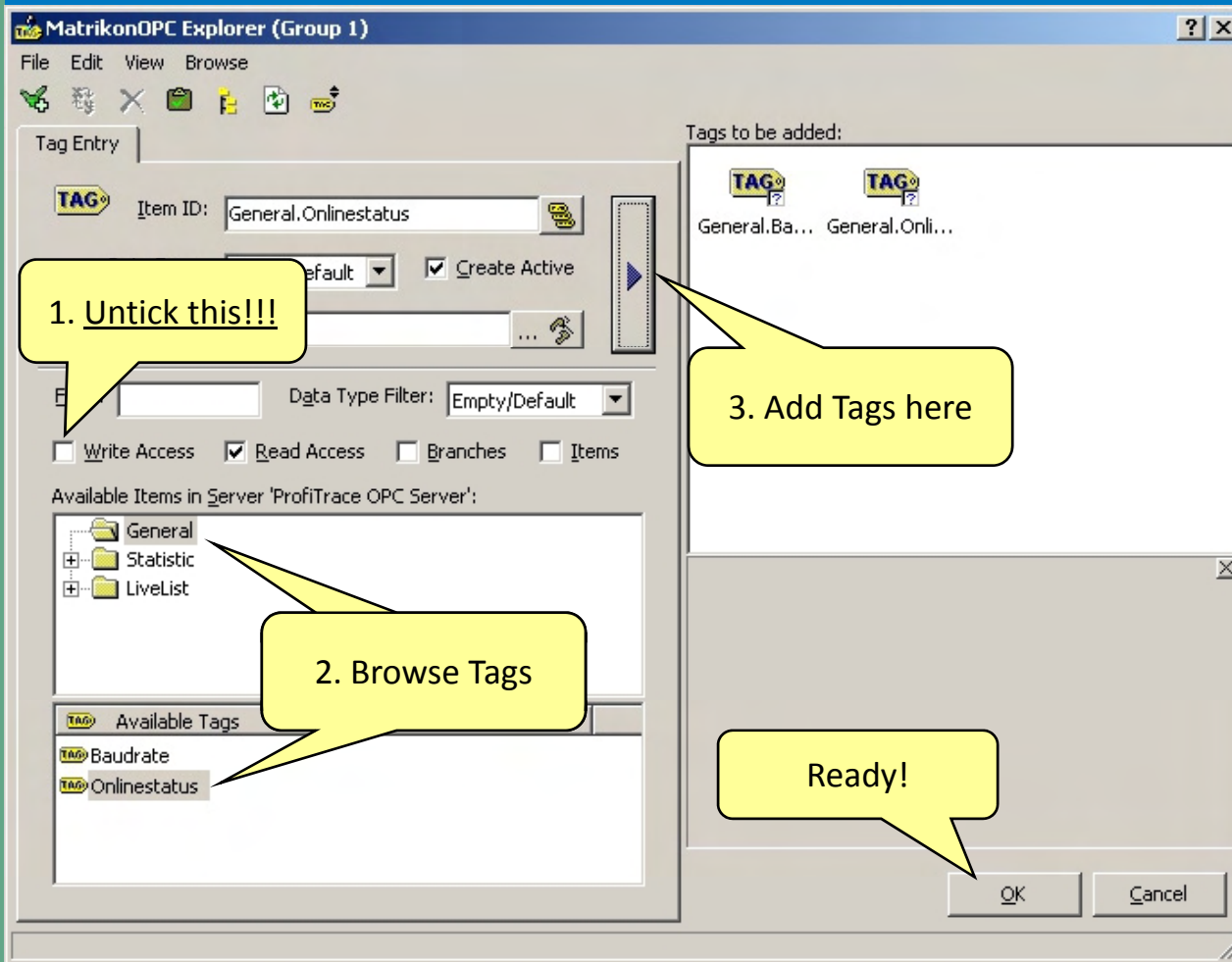
Server Info  
Server: ProfiTrace OPC Server  
Connected: No

Group Info

Did you know?  
Explorer Tip #1  
OPC Explorer can export your current data.  
[Click For Details](#)

MatrikonOPC

# Select ProfiTrace Tags



# Exploring the Tags / Adding more Tags

The screenshot shows the MatrikonOPC Explorer interface. On the left, a tree view shows the hierarchy: Localhost > Matrikon.OPC.Simulation.1 > ProfitTrace OPC Server > Group 1. The main area displays a table titled 'Contents of 'Group 1'' with the following data:

Item ID	Access Path	Value	Quality	Timestamp	Status
General.Baudrate		0	Bad, non-specific	03-17-201...	Active
General.Onlinestatus		0	Good, non-specific	03-17-201...	Active

At the bottom left, the 'Server Info' section shows: Server: ProfitTrace OPC Server, Connected: Yes, State: Running, Groups: 0, Total Items: 2, Current Local Time: 03-17-2010 11:51:32.250 PM, Update Local Time: 03-17-2010 11:42:52.343 PM, Bandwidth Usage: 0. The bottom right 'Group Info' section shows: Group: Group 1, Connected (Async I/O): Yes (2.0), Active: Yes, Items: 2, Current Update Rate: 1000 ms, Percent Deadband: 0,00%, Data Change Rate: 0,02 Items/Sec. A central banner for 'MatrikonOPC Tunneller' is also visible.

# ProfiHub A5

*5 Port Profibus repeater for tough jobs.....*

- 5 Isolated channels
- 31 Devices per channel
- Hot device insertion/removal
- Network diagnostics
- Short circuit protection
- Dirty and humid environments
- IP 65



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