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# BACnet Browser



## BACnet Browser

### Topics of this chapter:

- What is BACnet Browser
- Configuring the BACnet Browser
- Viewing BACnet datapoints
- Overriding BACnet datapoints

## Diagnostic Tools BACnet Browser



The BACnet browser is a tool that has been developed as an aid to confirm BACnet/IP communications on a network.

It can be used with 3<sup>rd</sup> Party devices to discover BACnet addresses

It can also be used to adjust BACnet object properties

This tool is free issued. Once this is installed on a PC an Installation code is produced.

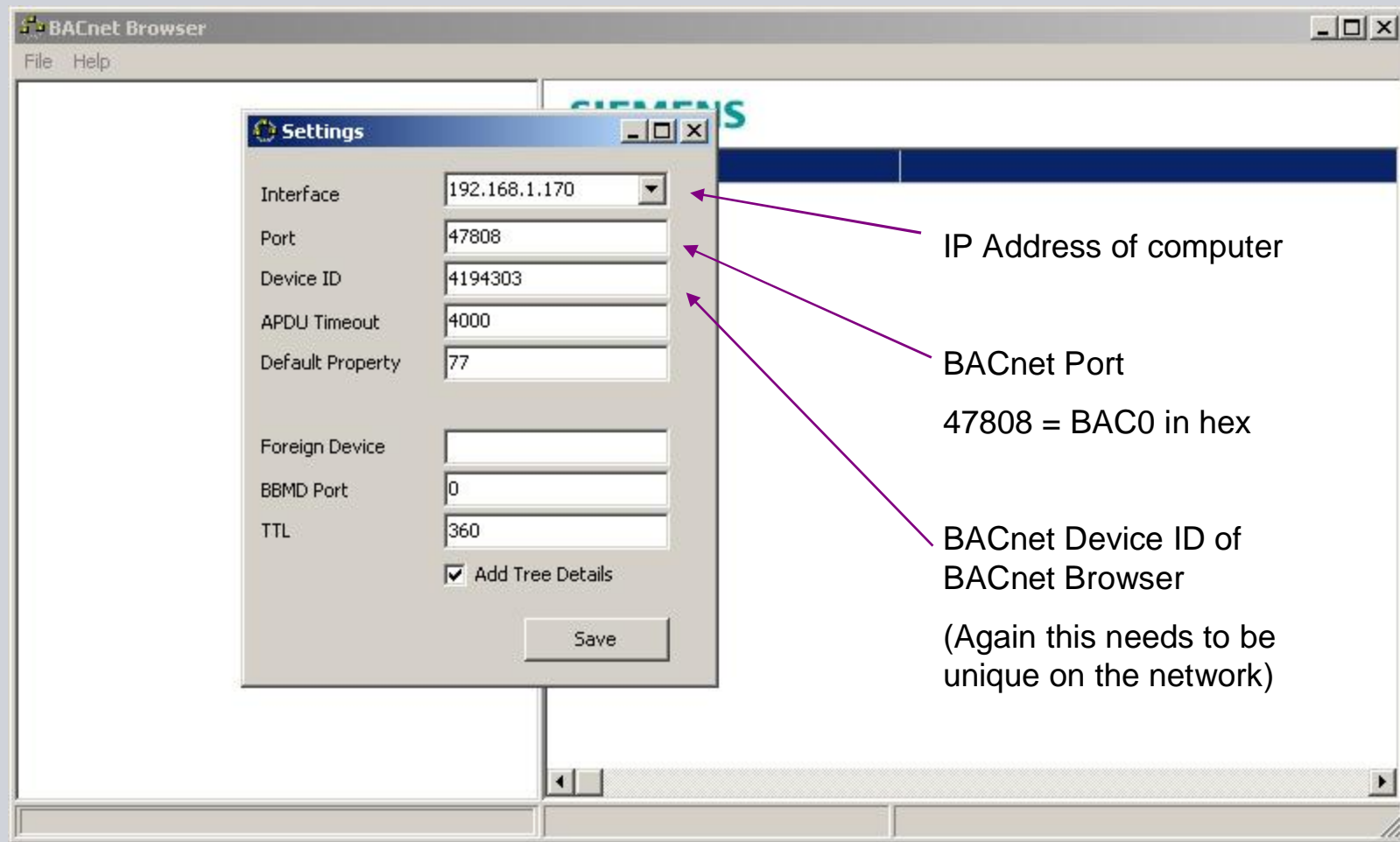
This code must be e-mailed to [cpstechsupport.sbt.uk@siemens.com](mailto:cpstechsupport.sbt.uk@siemens.com) in order for a Registration code to be generated to activate the tool.

# Diagnostic Tools

## Configuring the BACnet Browser



### Single IP Segment Settings



# Diagnostic Tools

## Configuring the BACnet Browser

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### Foreign Device Settings

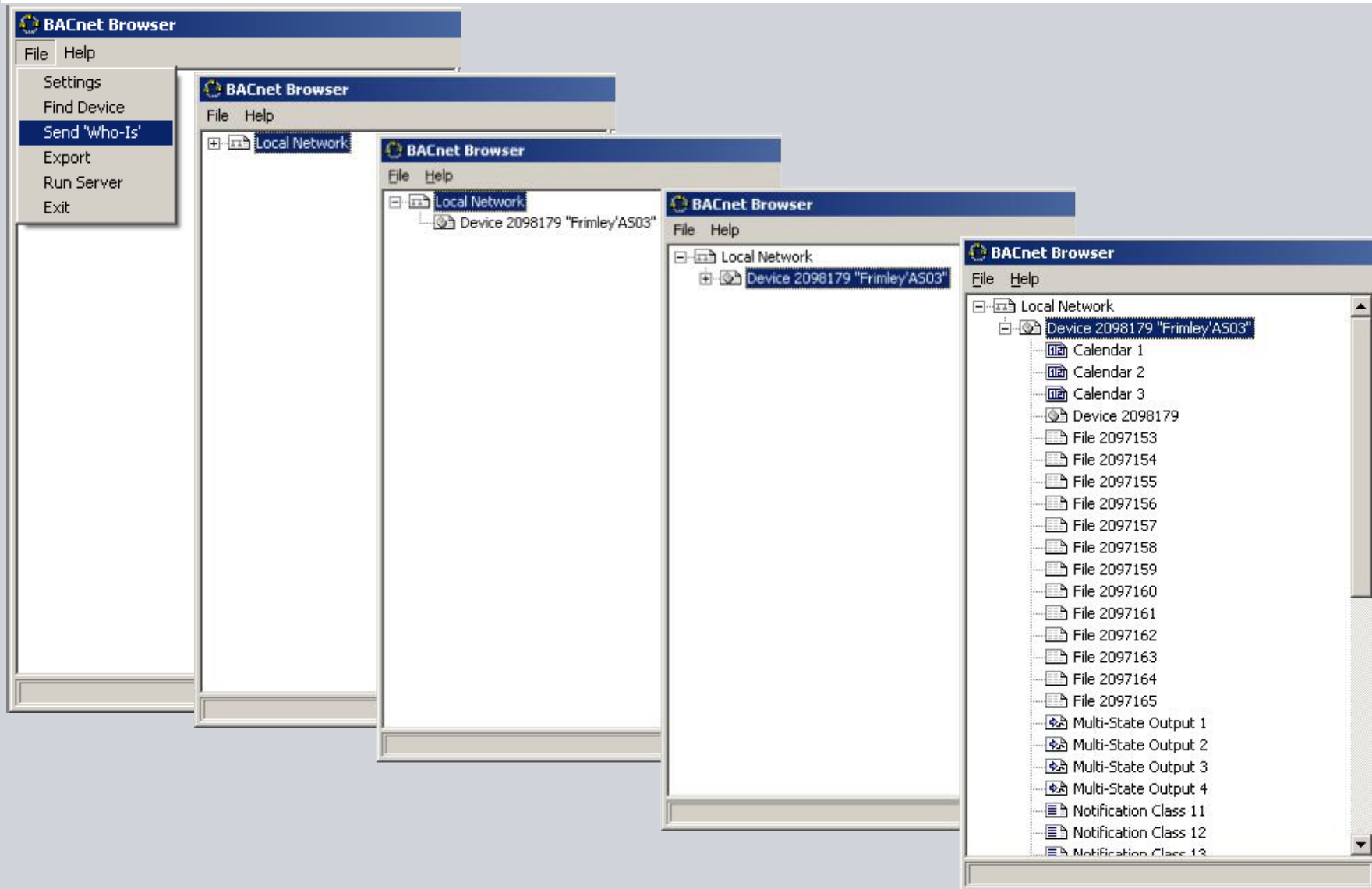
The screenshot shows the 'Settings' dialog box of the BACnet Browser. The dialog box has a title bar with the Siemens logo and standard window controls. It contains several input fields and a checkbox. Annotations with arrows point to specific fields:

- Interface:** 192.168.1.170 (Annotated: IP Address of computer)
- Port:** 0 (Annotated: Port 0 if FDT set-up)
- Device ID:** 4194303
- APDU Timeout:** 4000
- Default Property:** 77
- Foreign Device:** 192.168.0.100 (Annotated: IP Address of controller set-up as FD if used)
- BBMD Port:** 47808 (Annotated: Port of FD 47808 (BAC0))
- TTL:** 360
- ☒ Add Tree Details
- Save** button

# Diagnostic Tools

## BACnet Browser Discovering Devices

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# Diagnostic Tools

## Viewing BACnet datapoints

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Click File then Send "Who-Is" to view BACnet datapoints

**BACnet Browser**

File Help

Local Network

- Device 2098177 "GBM01'AS01"
  - Analog Input 1**
  - Analog Input 2
  - Analog Output 1
  - Analog Output 2
  - Analog Output 3
  - Analog Value 1
  - Analog Value 2
  - Binary Input 1
  - Binary Input 2
  - Binary Output 1
  - Binary Value 1
  - Calendar 1
  - Calendar 2
  - Calendar 3
  - Device 2098177
  - File 2097153
  - File 2097154
  - File 2097155
  - File 2097156
  - File 2097157
  - File 2097158
  - File 2097159
  - File 2097160

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object identifier	Analog Input 1
75	object name
77	object name
79	object type
3006	Object tag
28	description
3001	Reference to higher object
168	profile name
3121	Designation List
85	present value
111	status flags
36	event state
103	reliability
81	out of service
117	units
106	resolution
22	cov increment
113	time delay
17	notification class
45	high limit
59	low limit

**BACnet Address**: B=[2098177][0,1]

**Datapoint TD Name**: Ahu1Inputs'OAT

**Current Value**: 5.900000



# Diagnostic Tools

## Overriding BACnet datapoints (1)

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Click on "present value" to override BACnet datapoint

The screenshot shows the BACnet Browser application window. On the left, a tree view lists various BACnet objects under the device '2098177 "GBM01"AS01"', including Analog Inputs/Outputs, Binary Inputs/Outputs, and Calendar objects. The main pane displays the properties of a selected object, with a Siemens logo at the top. The properties table includes fields like object identifier, name, type, tag, description, and present value. The 'present value' field is highlighted with a red box. A 'BACnet WriteProperty' dialog box is open in the foreground, with the 'present value' property selected. The 'Value' field in the dialog is set to '0.000000' and is also highlighted with a red box. The 'Tag' is set to 'Real' and the 'Priority' is 'Priority 8'. A 'Write' button is visible in the dialog.

Index	Property	Value
75	object identifier	Analog Output 1
77	object name	"Ahu1"Outputs"ClgVlv"
79	object type	Analog Output
3006	Object tag	3
28	description	"Cooling Valve"
3001	Reference to higher object	Vendor Proprietary Value:200 7
168	profile name	"7-BA-PX-AO-SBCv05.10"
3121	Designation List	{"Air Handling Unit 1", "Outputs", "Cooling Valve"}
85	present value	0.000000
111	status flags	{false,false,false,false}

**BACnet WriteProperty**

Property: present value Index: -1

Value: 0.000000

Tag: Real

Priority: Priority 8

Write



## Diagnostic Tools

### Overriding BACnet datapoints (2)

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Click on "present value" then set Tag to "Null" to reset back to automatic

The screenshot shows the BACnet Browser interface with the SIEMENS device tree on the left. The main pane displays the properties of the selected object, 'Cooling Valve'. The 'present value' property is highlighted with a red box. A red arrow points from the 'present value' property to the 'BACnet WriteProperty' dialog box, which is open in the foreground. In the dialog box, the 'Property' field is set to 'present value', the 'Value' field is set to '50.000000', and the 'Tag' field is set to 'Null'. The 'Write' button is highlighted with a red box. The 'BACnet WriteProperty' dialog box also shows a list of properties and their values, with the 'present value' property highlighted. A red arrow points from the 'present value' property in the list to the 'BACnet WriteProperty' dialog box. The 'BACnet WriteProperty' dialog box also shows a list of properties and their values, with the 'present value' property highlighted. A red arrow points from the 'present value' property in the list to the 'BACnet WriteProperty' dialog box.

**BACnet WriteProperty**

Property: present value Index: -1

Value: 50.000000

Tag: Real

Priority: Null

Write

B=[2098177][1,1]

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Property	Value
75 object identifier	Analog Output 1
77 object name	"Ahu1'Outputs'ClgVlv"
79 object type	Analog Output
3006 Object tag	3
28 description	"Cooling Valve"
3001 Reference to higher object	Vendor Proprietary Value:200 7
168 profile name	"7-BA-PX-AO-SBCv05.10"
3121 Designation List	{"Air Handling Unit 1","Outputs","Cooling Valve"}
85 present value	50.000000
	{false,false,false,false}
	normal
	no-fault-detected
	FALSE
	percent
	0.100000
	{Null,Null,Null,Null,Null,Null,Null,50.000000,Null,Null,Null}
	0.000000
	0.200000
1	BACnet Priority 8 indicates
31	Datapoint is manually overridden