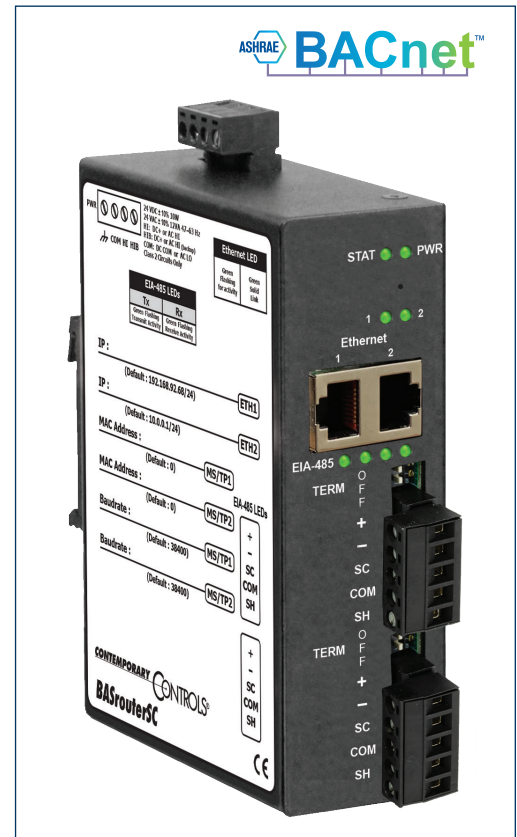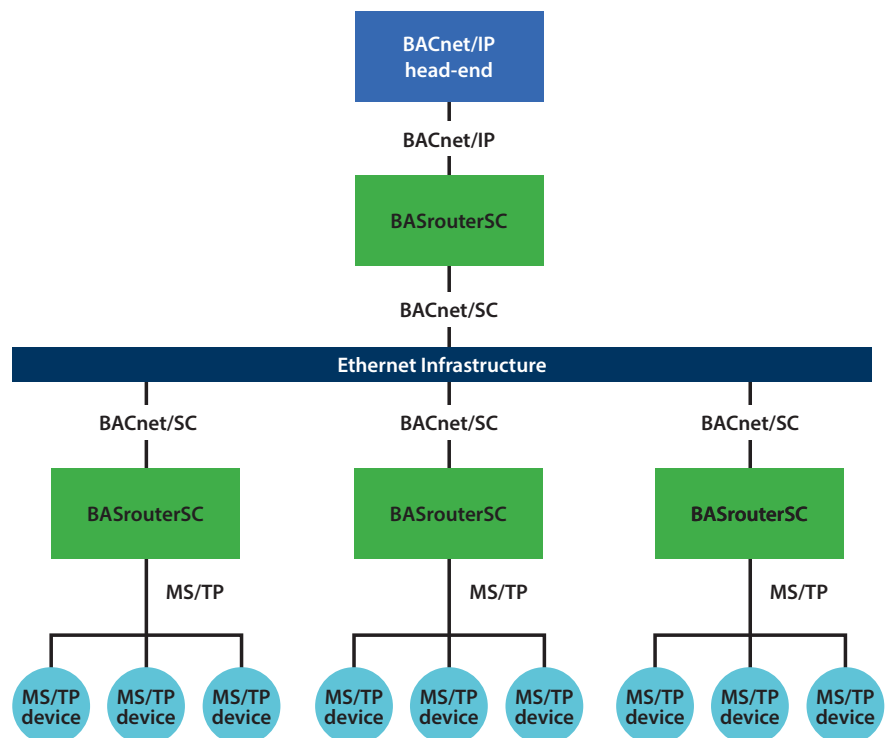# BASrouterSC – BACnet/SC router

The BASrouterSC is a BACnet/SC router that also supports BACnet/SC communicating to MS/TP, BACnet/Ethernet and BACnet/IP devices. It can be used to improve the security within a BACnet system by utilizing BACnet/SC at the Ethernet level and allowing MS/TP at the device level. The BASrouterSC can take a BACnet/IP-only device to the BACnet/SC network. The BASrouterSC also supports BACnet/Ethernet communications.

By having a built-in certificate authority (CA) the BASrouterSC can be used to generate the certificates needed by all other BASrouterSC devices (or third-party BACnet/SC devices). It can also accept certificates from other certificate authorities. Also, by having built-in BACnet/SC hubs, the BASrouterSC can provide a full BACnet/SC solution for smaller systems where you want to have BACnet/SC security at the Ethernet level. One BASrouterSC can act as a primary BACnet/SC hub and another BASrouterSC can act as a failover BACnet/SC hub. It can also be used as a small piece of a larger BACnet/SC system where you need to take a BACnet/IP-only device to BACnet/SC or a MS/TP devices to a BACnet/SC network.

- Simple to use BACnet/SC router
- Can provide full BACnet/SC infrastructure for smaller systems
- Built-in Certificate Authority
- Built-in BACnet/SC Hub
- Dual Ethernet ports to allow one port for non-SC communications
- Supports MS/TP, BACnet/IP and BACnet/Ethernet (ISO 8802-3) routing
- BACnet/IP to BACnet/SC routing
- BACnet/SC to MS/TP communications
- Dual optically isolated MS/TP ports
- Switchable termination/bias
- MS/TP baud rates from 9600 to 115200 bps
- 24VAC/VDC power

CONTEMPORARY CONTROLS

Setup	Administration	Advanced	Status	Save & Reboot

System
Network Configuration
Time
Config Upload/Download
Firmware Upload
Certificate Upload

BASrouterSC

About This Page

Use the setup page to perform basic settings for Device Parameters, BACnet Ethernet, BACnet/IP and MS/TP.

Device Parameters

Device Name (Default Value = BASRTCX-xxxxxx): This is used to configure a unique device object name for the device on the network. It can be up to 80 characters and defaults to a unique name of the form BASRTCX-XXXXXX - where the Xs are replaced with the final six characters of the router's Ethernet MAC address.

Device Instance (Default Value = 0): The router's device instance is a 22-bit value (0-4,194,302). Do not use 4,194,303 which is reserved by BACnet. Each BACnet device within the same BACnet internetwork must have a unique device instance. One must be assigned to the BASrouterSC.

Device Description and *Device Location* can be used to configure additional identifiable information for the router. They are blank by default

More Information...

Need Support?

Field	Value	Note
Device Name:	MAC-00-50-DB-01-F8-5C	
Device Instance:	0	(0 - 4194302)
Device Description:		
Device Location:		
Ethernet Network:	0	(0 - 65534) Normally leave at 0. More Information
BACnet/IP UDP Port 1:	BAC0	(Hexadecimal value e.g. BAC0)
BACnet/IP Network 1:	1	(0 - 65533)
BACnet/IP UDP Port 2:	0	(Hexadecimal value e.g. BAC1)
BACnet/IP Network 2:	0	(0 - 65533)
BACnet/SC Network:	5503	(0 - 65533)
Connecting BACnet/SC Network:	0	(0 -
MS/TP MAC:	0	(0 -
MS/TP Network:	2001	(1 -
Max Masters:	127	(1 -
Max Info Frames:	100	(1 -
MS/TP Baudrate:	38400 ▼	
MS/TP Tolerance:	○ Strict ● Lenient	

CONTEMPORARY CONTROLS

Setup	Administration	Advanced	Status	Save & Reboot

BASrouterSC

About This Page

Use the setup page to perform basic IP settings for the BACnet/SC and local interface - such as IP address, subnet mask, etc.

Local Interface can be BACnet/IP or BACnet/SC. **Port** number is the TCP port number used by BACnet/SC

Need Support?

Our staff of engineers is available to address any issues you may be having.

Please visit our **website** for more information.

BACnet/SC Interface Setup

Connection Type   Static IP ▼

IP Address: 10 . 0 . 0 . 100   Port: 8
Subnet Mask: 255.0.0.0 ▼
Default Gateway: 10 . 0 . 0 . 1
Static DNS 1: 0 . 0 . 0 . 0
Static DNS 2: 0 . 0 . 0 . 0
Static DNS 3: 0 . 0 . 0 . 0

Local Interface Setup

IP Address: 192 . 168 . 1 . 99   Port: 0
Subnet Mask: 255.255.255.0 ▼

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MSTP Device Status

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127

Green=Online   Blue=Router MAC   Gray=Offline

Network Errors: 0

Statistics

B/IP 1 In Packets	B/IP 1 Out Packets	B/IP 2 In Packets	B/IP 2 Out Packets
0	0	0	0

B/Eth In Packets	B/Eth Out Packets	MSTP In Packets	MSTP Out Packets
0	0	0	3

TX PFM Count	RX PFM Count	TX Token Count	RX Token Count
16570	0	0	0

Invalid Long Frames	Next Station	SoloMaster	
0	0	TRUE	

www.ccontrols.com

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