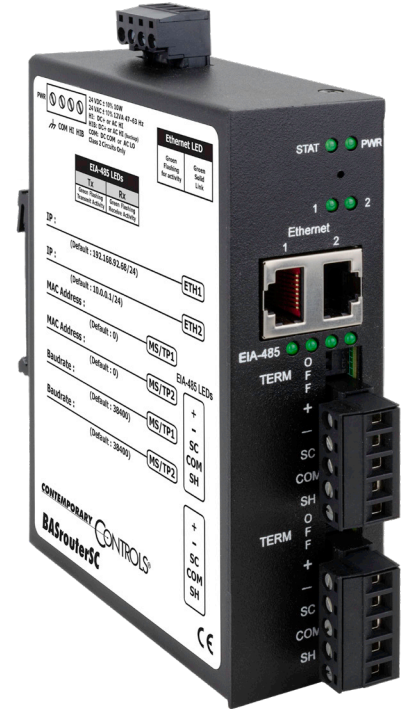


## BASrouterSC – BACnet/SC router

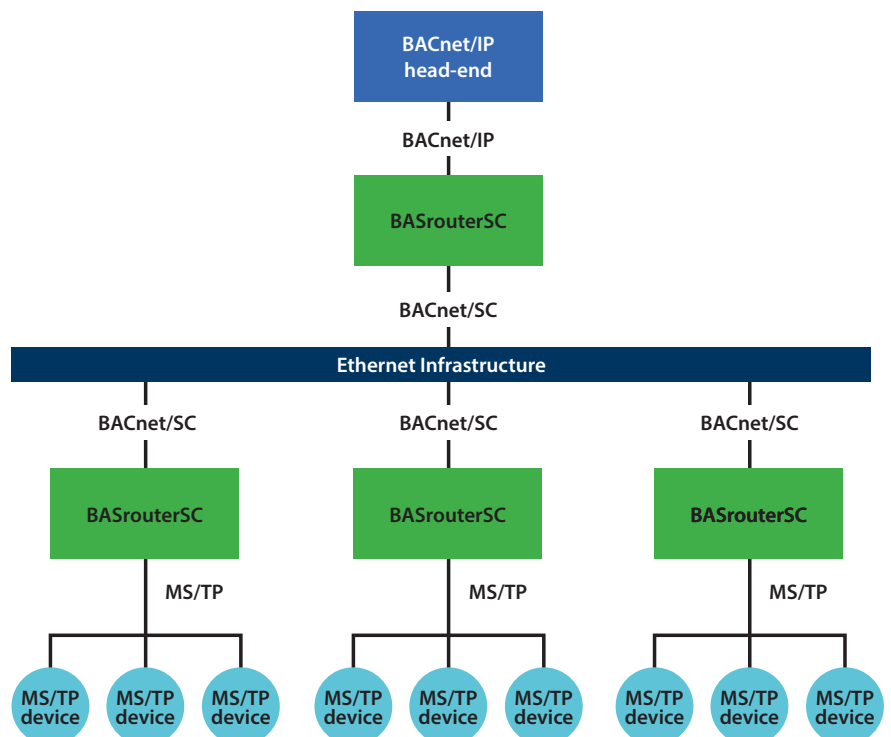


The BASrouterSC is a BACnet/SC router that also supports BACnet/SC communicating to MS/TP, BACnet/Ethernet and BACnet/IP devices. It can be used to improve the security within a BACnet system by utilizing BACnet/SC at the Ethernet level and allowing MS/TP at the device level. The BASrouterSC can take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



Setup Administration Advanced Status Save & Reboot

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

**BSrouterSC**

Device Name:   
 Device Instance:  (0 - 4194302)  
 Device Description:   
 Device Location:   
 Ethernet Network:  (0 - 65534) Normally leave at 0. [More Information](#)  
 BACnet/IP UDP Port 1:  (Hexadecimal value e.g. BAC0)  
 BACnet/IP Network 1:  (0 - 65533)  
 BACnet/IP UDP Port 2:  (Hexadecimal value e.g. BAC1)  
 BACnet/IP Network 2:  (0 - 65533)  
 BACnet/SC Network:   
 Connecting BACnet/SC Network:   
 MS/TP MAC:   
 MS/TP Network:   
 Max Masters:   
 Max Info Frames:   
 MS/TP Baudrate:   
 MS/TP Tolerance:  Strict  Lenient

**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...](#)

CONTEMPORARY CONTROLS

Setup Administration Advanced Status Save & Reboot

**BASrouterSC**

**BACnet/SC Interface Setup**

Connection Type:

IP Address:     Port:   
 Subnet Mask:   
 Default Gateway:      
 Static DNS 1:      
 Static DNS 2:      
 Static DNS 3:

**Local Interface Setup**

IP Address:     Port:   
 Subnet Mask:

**MSTP Device Status**

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
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
B/Eth In Packets	B/Eth Out Packets	MSTP In Packets	MSTP Out Packets
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="3"/>
TX PFM Count	RX PFM Count	TX Token Count	RX Token Count
<input type="text" value="16570"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Invalid Long Frames	Next Station	SoloMaster	
<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="TRUE"/>	

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