SbC3100 Cimetrics B/SC, B/IP to B/SC and B/IP BNSD



Data Sheet

The Secured by Cimetrics™ SbC3100 BACnet Network Segmentation Device offers a scalable and secure solution for BACnet/SC and BACnet/IP networks. It seamlessly integrates secured BACnet/SC and unsecured BACnet/IP networks while ensuring compliance with evolving BACnet standards.

The SbC3100 BNSD creates a new BACnet/SC segment, enabling the addition of a new hub to expand network device capacity. It also securely segments existing unsecured BACnet/IP networks from BACnet/SC networks, enhancing overall system security while ensuring smooth integration of modern and legacy systems. Its built-in BACnet firewall further strengthens network defenses, making the SbC3100 BNSD a vital component for addressing the challenges of scaling and modernizing Building Automation Systems (BAS).

SbC3100 Functionality

Port Configuration:

• 2 - 10/100/1000 Mbps Ethernet ports for BACnet segmentation.

Segments:

- A BACnet/SC network from BACnet/SC network.
- A BACnet/IP network from BACnet/SC network.
- A BACnet/IP network from BACnet/IP network.

Network Capacity:

- Supports up to 250 BACnet/IP devices on a segmented network.
- Fixed IP address assignments for the segmented network are managed by the integrator not IT.

Network Isolation:

- Creates private network devices not invisible to IT.
- All non-BACnet traffic is blocked for enhanced security.

OpenVPN Remote Connectivity:

• Enables, secure non-BACnet communications to segmented network for configuration and diagnostics.

BACnet Firewall - Advanced Cybersecurity:

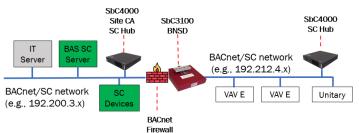
- **Traffic Filtering and Control:** Filters and controls traffic by device ID, object type, service, and direction, providing granular options such as read-only, read/write, or block functionality.
- Rule-Based Configuration: Utilizes a JSON file to define firewall rules, enabling flexible communication policies and logging traffic for enhanced security and compliance.

Monitoring and Diagnostics:

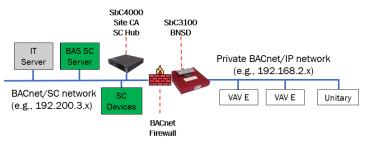
- Syslog integration logs real-time events, including BACnet Firewall actions, for reporting to IT systems and the SbC Appliance.
- Wireshark-compatible packet capture on both network interfaces to quickly diagnose network issues.

SbC3100 BACnet Segmentation Applications

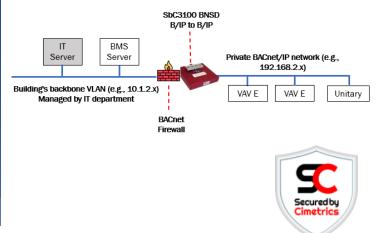
1. Creates a secure new BACnet/SC segment from existing SC network to expand network capacity.



2. Segments existing BACnet/IP network to enable communication with BACnet/SC Networks.



3. Creates a BACnet/IP private network when IT limits fixed IP addresses or device access.

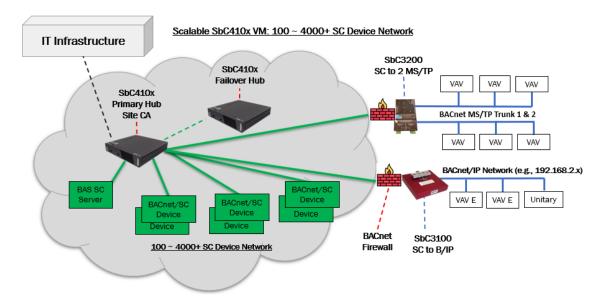




SbC Virtual Machine Large Scale BACnet/SC Deployment

The **Secured by Cimetrics (SbC)** SbC4000 and SbC410x Virtual Machine (VM) Appliance platforms are advanced for securing, monitoring, and optimizing small to large-scale BACnet/SC networks in Building Automation Systems (BAS). These Appliances simplify deployments by addressing critical challenges such as network segmentation, diagnostics, and multi-vendor integration.

Supporting this architecture, BACnet Network Segmentation Devices (BNSDs) like the SbC3100 and SbC3200 securely segments BACnet/SC, BACnet/IP, and BACnet MS/TP networks. These devices enforce advanced firewall policies, monitor traffic, and provide diagnostics, ensuring seamless operation across secured and unsecured network segments. Together, the SbC410x and BNSDs deliver a resilient, efficient solution for managing complex BAS networks.



HARDWARE SPECIFICATIONS

	ONDERING INFORMATION
Approvals	Ordering Part Number:
FCC Class A, CE	SbC3100 - Secured by Cimetrics BNSD
BACnet DETAILS	Other
BACnet/SC, BACnet/IP, 2 BACnet	Web configuration
interfaces	BACnet Firewall
Supports BACnet/SC TLS 1.3	On-Board diagnostics for BACnet/SC and
BBMD with up to 127 devices in BDT	BACnet/IP networks
Foreign Device Registration—Up to 127	DIN Rail included
devices on different subnets	Product Support
BACnet Protocol Revision 23	2 Year warranty on SbC3100 hardware
	Free product technical support

ORDERING INFORMATION







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