

Data Sheet

B3075/B3076 – Cimetrics B/IP to B/IP

The B3075 and B3076 are second-generation BACnet/IP to BACnet/IP Network Segmentation Devices that enable BACnet communication between two physically separate IP networks. It is designed to meet the requirements of demanding customers with a large number of BACnet/IP devices. The Network Segmentation Devices include new management, diagnostics, and remote event logging functionality that can be selectively enabled. Based on the Cimetrics BACstac™, these standalone routers can reliably process a high volume of network traffic.

FEATURES

- Three Ethernet ports: Two for BACnet segmenting and a dedicated port for configuration.
- **1 IP address from IT (Fixed or DHCP) on “Customer” port of the Network Segmentation Device, connects up to 250 BACnet/IP devices on the “Private” network.**
- Network Segmentation Device passes only BACnet UDP traffic. All non BACnet traffic is blocked. IT has no visibility of Private network.
- Support for OpenVPN Community Edition enables non-BACnet communication with devices on the “Private” Ethernet network from the “Customer” Ethernet network.
- Wireshark-compatible packet captures on both BACnet interfaces simultaneously.
- Supports HTTPS communication for secure browser-based configuration.
- U.S. General Services Administration approved.

TYPICAL APPLICATION SCENARIOS

The B3075/B3076 application scenarios:

- ⇒ Customer’s IT department cannot allocate enough IP addresses on the IT network for the BACnet/IP devices.
- ⇒ Certain BACnet/IP devices should not reside on the same IP network with customer’s IT systems for technical or policy reasons.
- ⇒ IT does not let UL864 switches or Ethernet ring networks (daisy chained and ring devices) to directly connect to the IT network.



BACnet DETAILS

- BACnet message forwarding as defined in Clause 6.6 of ANSI/ASHRAE Standard 135, Protocol Revision 16
- BACnet/IP communication on two Ethernet ports
- Optional BBMD with Foreign Device support on customer port

HARDWARE SPECIFICATIONS

Power Adapter Input Voltage	100–240 VAC, 50-60 Hz
Operating Temperature	0 to 40 C
Storage temperature	-30 to 50 C
Power consumption	12 VDC, 10 watts typical
Dimensions	15.8 x 16 x 2.5 cm
Weight	450 g
Ethernet Ports	(3) 10/100/1000 Mbps
Approvals	FCC Class A, CE
Router Enclosure	Metal

ORDERING INFORMATION

B3075/B3076 - Cimetrics B/IP to B/IP BNSD with power adapter and DIN rail mount.

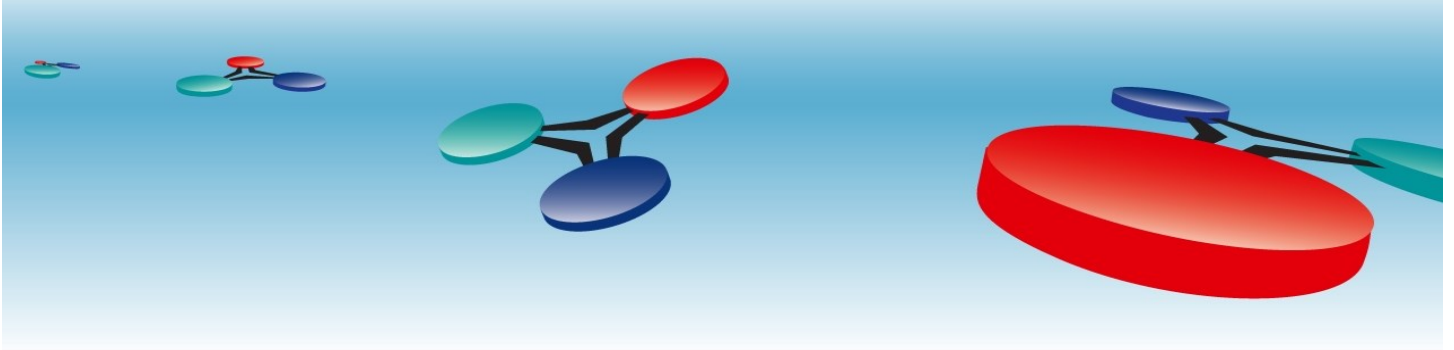
B3076 - Siemens and VAP dealer part number only available through E-Parts.

PRODUCT SUPPORT

Two year warranty on router hardware

Free product technical support

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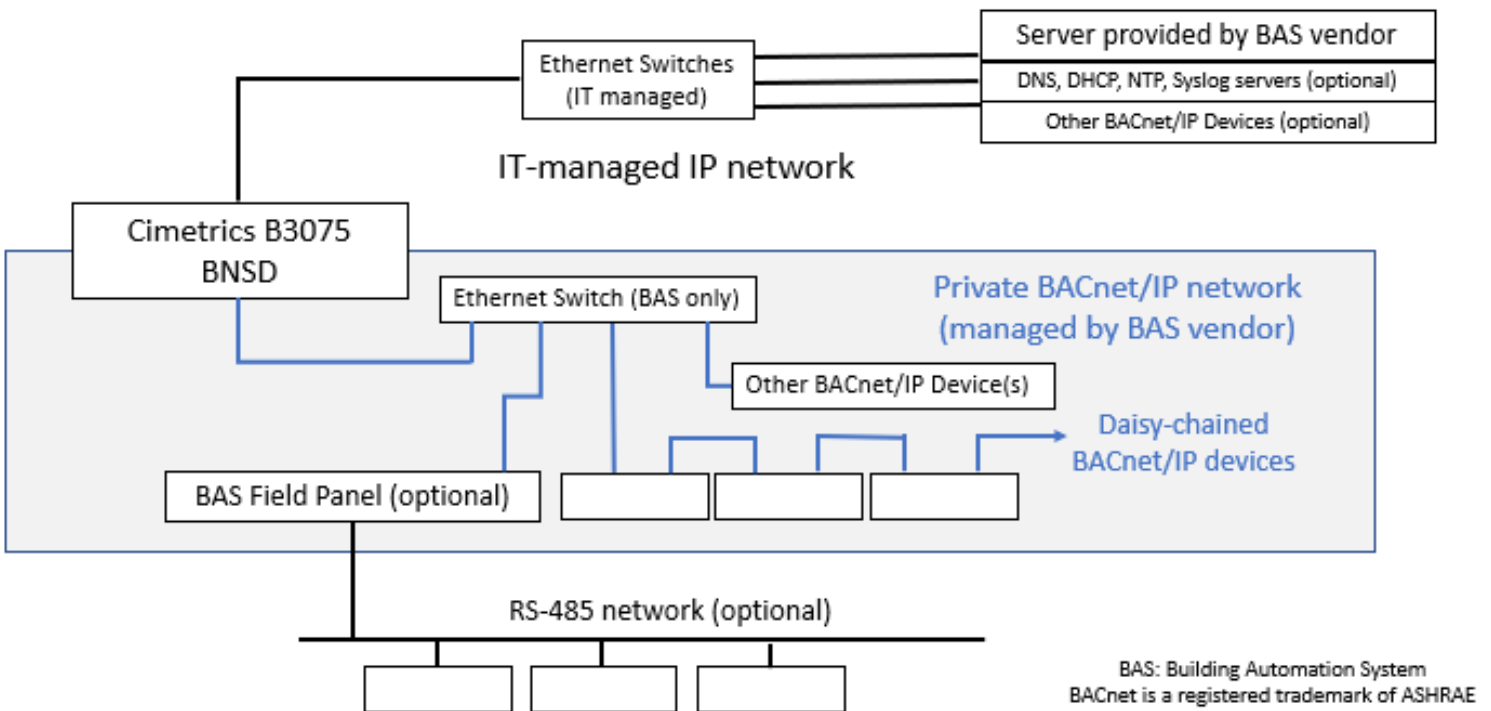
B3075 BNSD BACnet/IP Network Segmentation

The B3075 is a hardware appliance that forwards selected BACnet/IP packets between two directly connected Ethernet networks. It is designed to meet the requirements of ANSI/ASHRAE Standard 135 (specifically Clause 6 and Annex J).

The B3075 is not an IP router, and it does not support IP routing protocols such as BGP. It does not use IPv6.

In a typical installation the B3075's Customer network port is connected to the facility's shared TCP/IP network (often managed by the IT department), and the B3075's Private network port is connected to a local area network installed by the building automation system integrator for the exclusive use of the building automation system. The B3075's Configuration network port is exclusively used for web-based configuration and diagnostics.

The following diagram illustrates a simple BACnet internetwork incorporating a B3075:



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