



## Chipkin Announces an Update to the CAS BACnet Stack - Enhanced Virtual Network BIBBs

Chipkin Automation Systems Inc. is proud to announce a much-anticipated update to the CAS BACnet Stack. This update provides added support for these BACnet BIBBs: **GW-VN-B**, **GW-EO-B**, **NM-RC-B**, and **DM-RD-B**.

Vancouver, Canada - May 21st, 2020 – The newest version of CAS BACnet Stack is now available from Chipkin Automation Systems Inc. with enhanced features. Chipkin has added support for the following BACnet BIBBs:

- **GW-VN-B** - Virtual Network-B - Adds support for creating virtual BACnet networks.
- **GW-EO-B** - Gateway-Embedded Objects-B
- **NM-RC-B** - Router Configuration-B
- **DM-RD-B** - ReinitializeDevice-B

The above BIBBs are used in virtual networks of the CAS BACnet Stack. These virtual networks allow the CAS BACnet Stack to support serving multiple BACnet devices from one physical device. Each device is added to a BACnet network, and the CAS BACnet Stack supports unlimited virtual networks and unlimited devices.

**Real-World Example:** Imagine a company that sells and installs wireless hotel room devices. This device detects the room humidity, and temperature, as well as provides an interface for the customer to input a desired temperature setpoint. These wireless devices report back the data to a base station. The hotel wants this data to be available as BACnet for their SCADA system. A gateway device is created using the CAS BACnet stack. The gateway then creates an interface for the BACnet SCADA system to read values of the wireless hotel room devices.

*Prior to this update*, all of the BACnet data in Virtual Network-B (GW-VN-B) would be represented in a single BACnet device. Each room device's sensor would be represented as several BACnet objects. The series of objects for a specific room could be offset from each other to create some order (1x is room 1, 2x is room 2, etc...)

Network 0: (0 = Indicates local network)

- Device (1) - Entire Hotel network
  - Object 11 - Room 1 temperature sensor
  - Object 12 - Room 1 humidity sensor
  
- Object 21 - Room 2 temperature sensor
- Object 22 - Room 2 humidity sensor

*In the latest version of CAS BACnet Stack*, with Virtual Network-B (GW-BN-B), each hotel room device can be represented as an individual BACnet device and each sensor can be represented as a BACnet object of that device. This creates a better analog between the physical devices and the BACnet network

Network 1000:

- Device (1) - Room 1
  - Object 1 - Temperature sensor
  - Object 2 - Humidity sensor
  
- Device (2) - Room 2
  - Object 1 - Temperature sensor
  - Object 2 - Humidity sensor

Visit Chipkin's website for more information regarding CAS BACnet Stack:

<http://store.chipkin.com/services/stacks/bacnet-stack>

A basic BACnet IP server example written in C++ using the CAS BACnet Stack:

<https://github.com/chipkin/BACnetServerExampleCPP>

## About Chipkin

Established in 2000, Chipkin Automation Systems Inc. is a specialized engineering company providing services that are currently focused on system integration, GE Lighting, network protocol conversion, custom firmware and software development.

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