



**BACstac/Linux V 7.8**

**B1100**

## **BACnet Protocol Stack for Linux**

**BACnet protocol stack for Linux with source code and routing**

**The Cimetrics BACstac/Linux saves man-years of development when your company needs to develop BACnet-compliant applications that run on Linux Operating System. BACstac with a source code will give you an opportunity to develop a wide range of BACnet devices on a vast variety of hardware platforms, from supercomputers to embedded and single-board systems. It supports BACnet routing functionality and the creation of multi-device gateways.**

Many Building Automation and Controls manufacturers use a Cimetrics BACstac protocol stack because of our reputation for delivering high-quality software and excellent technical support. Cimetrics does the heavy lifting of testing the BACstac with the latest Debian and Ubuntu operating systems and implementing the new Addenda approved by the BACnet Committee in a timely fashion. We keep our customers UP-TO-DATE with the latest BACnet features and make sure that the code with compatible with the ENDLESS Linux versions and changes.

### **BACstac/Linux features:**

- > Support Linux 2.6.28 with GCC 4.1 or later. MS/TP data link requires Linux 2.6.28 or later.
- > **New! Added support for Addendum br, bt, bu, bz, bj. New Who-Am-I and You-Are Services.**
- > Support Extended MS/TP Frames, which is mandatory for all BACnet MS/TP routers that support protocol revision 16 or later
- > Support of IPv6 (ANNEX U) and MS/TP. BACnet/SC, BACnet/IP, BACnet Ethernet, PTP
- > BACstac 7.8 supports all required functionality of BACnet Protocol Revision 22 for all BACnet profiles for all BACnet profiles: B-AAC, B-AACC, B-AACWS, B-ACC, B-ACCR, B-ACDC, B-ACSD, B-ACWS, B-AEC, B-AEWS, B-ALCS, B-ALSC, B-ALSWs, B-ALWS, B-ASC, B-AWS, B-BBMD, B-BC, B-EC, B-ED, B-EM, B-EWS, B-GW, B-LCS, B-LD, B-LOD, B-LS, B-LSAP, B-LSC, B-LSWS, B-OD, B-OWS, B-RTR, B-SA, B-SCHUB, B-SS, B-XAWS.
- > Most optional functionality supported with the following exceptions: Virtual Terminal services (Chapter 17), Slave Proxy functionality (DM-SP-B), BACnet Web Services
- > Ready packages: Debian 10, 11 (x86 32 and 64 bits) and Ubuntu 20.04, 22.04 (x86 64 bits), for the other systems you can build from the source package
- > Documentation provided: User's Guide and Programmers Reference
- > Code Provided: Example programs, unit tests, makefiles for both, and complete C-language source code.

**BACnet services supported:** supports all required functionality of BACnet Protocol Revision 22 for all BACnet profiles.

**BACnet objects types supported:** Analog Input, Analog Output, Analog Value, Averaging, Audit Log, Audit Reporting, Binary Input, Binary Output, Binary Value, Calendar, Command, Device, Escalator Group, Elevator-Group, Event Enrollment, File, Group, Life Safety Point, Life Safety Zone, Lift, Loop, Multi-state Input, Multi-state Output, Multi-state Value, Notification Class, Program, Pulse Converter, Schedule, Trend Log, Access Door, Event Log, Load Control, Structured View, Trend Log Multiple, Access Point, Access Zone, Access User, Access Rights, Access Credential, Credential Data Input, CharacterString Value, DateTime Value, Large Analog Value, BitString Value, OctetString Value, Time Value, Integer Value, Positive Integer Value, Date Value, DateTime Pattern Value, Time Pattern Value, Date Pattern Value, Network Security, Global Group, Notification Forwarder, Alert Enrollment, Channel, Lighting Output, Binary Lighting Output, Network Port, Elevator Group, Lift, Escalator, Accumulator, Network Security, Timer, Staging.

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