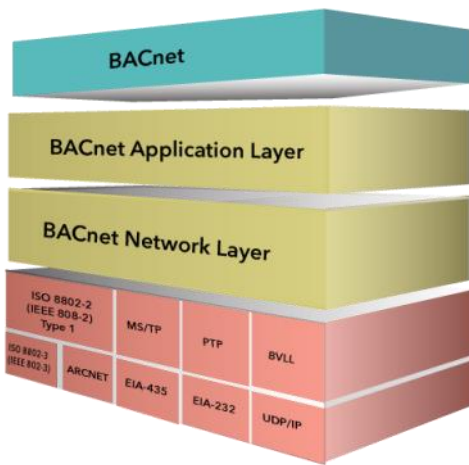




## **BACstac/DN™** **BACnet Protocol Stack for the** **Microsoft .NET framework** **on Microsoft Windows**



**The Cimetrics BACstac/DN saves man-years of development when your company needs to create a BACnet-compliant solution for the Microsoft .NET framework!**

BACstac/DN is a BACnet protocol stack designed for the development of BACnet-compliant Windows applications that run on the Microsoft .NET framework, including 32-bit and native 64-bit applications. It features a new API designed specifically for the development of managed code applications in Microsoft Visual Studio.

Our software team has created a BACnet library for the Microsoft .NET framework that greatly simplifies the task of developing BACnet-compliant applications. 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 all of the latest Microsoft operating systems and implementing the new Addenda approved by the BACnet Committee in a timely fashion.

### **BACstac/DN features:**

- > Designed for Microsoft .NET Framework 3.5 (Visual Studio 2008 or later)
- > Compliant with the BACnet standard (2012 version) except Virtual Terminal services (Clause 17) and Network Security (Clause 24). In addition, it supports BinaryLightingOutput and NetworkPort object types from BACnet revision 17, and Elevator related objects from BACnet revision 18.
- > Support of all standard profiles defined in BACnet 2012: B-OWS, B-OD, B-BC, B-AAC, B-ASC, B-SA, B-SS, B-AWS
- > Operating systems supported: Microsoft Windows XP, Windows Vista, Windows 7, Windows 8/8.1, Windows Server 2003, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows 10; 32 bit and 64 bit
- > Support for user defined BACnet types in addition to the standard types
- > Code provided: Dynamic-link library (DLL), the BACstac service (a Windows service), and example programs (provided as source code written in C#)
- > BACstac/DN applications coexist with other BACstac applications running on the same PC
- > Documentation provided: User's Guide and Programmers Reference
- > Complete source code is available as an option

**BACnet services supported (BACstac/DN version 1.7):** ReadProperty, ReadPropertyMultiple, WriteProperty, WritePropertyMultiple, ReadRange, Device Communication Control, Time Synchronization, UTC Time Synchronization, ReinitializeDevice, AddListElement, RemoveListElement, CreateObject, DeleteObject, SubscribeCOV, SubscribeCOVProperty, ConfirmedCOVNotification, ConfirmedCOVNotificationMultiple, UnconfirmedCOVNotification, SubscribeCOVPropertyMultiple, I-Am, I-Have, Who-Has, Who-Is, AcknowledgeAlarm, GetAlarmSummary, GetEnrollmentSummary, GetEventInformation, LifeSafetyOperation, ConfirmedPrivateTransfer, UnconfirmedPrivateTransfer, ConfirmedTextMessage, UnconfirmedTextMessage, WriteGroup.

**BACnet objects types supported (BACstac/DN version 1.7):** AccessCredential, AccessDoor, AccessPoint, AccessRights, AccessUser, AccessZone, Accumulator, AlertEnrollment, AnalogInput, AnalogOutput, AnalogValue, Averaging, BinaryInput, BinaryOutput, BinaryValue, BinaryLightingOutput, BitStringValue, Calendar, Channel, CharStringValue, Command, CredentialDataInput, DatePatternValue, DateValue, DatetimePatternValue, Datalator, Device, ElevatorGroup, Escalator, EventEnrollment, EventLog, File, GlobalGroup, Group, IntegerValue, LargeAnalogValue, LifeSafetyPoint, LifeSafetyZone, LightingOutput, LoadControl, Loop, MultiStateInput, MultiStateOutput, MultiStateValue, NetworkPort, NetworkSecurity, NotificationClass, NotificationForwarder, OctetStringValue, PositiveIntegerValue, Program, PulseConverter, Schedule, StructuredView, TimePatternValue, TimeValue, TrendLog, TrendLogMultiple.

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