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 6. It was designed for development of managed code applications, and has ready examples of projects for 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 2.0 features:

> **New!** Designed for Microsoft .NET 6 (Visual Studio 2022 or later)
> **New!** Support for BACstac/SC — BACstac Secure Connect
> **New!** Routing functionality in the BACstac service
> Supports all required functionality of BACnet 2016 (revision 19). It also supports most optional functionality except Virtual Terminal services (Clause 17) and Network Security (Clause 24)
> Support of all standard profiles defined in BACnet 2016: B-OWS, B-XAWS, B-AWS, B-OWS, B-OD, B-ALSWS, B-LSWS, B-LSAP, B-AACWS, B-ACWS, B-ACSD, B-BC, B-AAC, B-ASC, B-SA, B-SS, B-ALSC, B-LSC, B-AACC, B-ACC, B-BBMD, B-ACDC, and B-ACCR
> Operating systems supported: Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019. both 32-bit and 64-bit are supported on the x86 architecture
> 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: ReadProperty, ReadPropertyMultiple, WriteProperty, WritePropertyMultiple, ReadRange, Device Communication Control, Time Synchronization, UTC Time Synchronization, ReinitializeDevice, AddListElement, RemoveListElement, CreateObject, DeleteObject, SubscribeCOV, SubscribeCOVProperty, ConfirmedCOVNotification, ConfirmedCOVNotificationMultiple, ConfirmedEventNotification, UnconfirmedCOVNotification, UnconfirmedCOVNotificationMultiple, SubscribeCOVPropertyMultiple, I-Am, I-Have, Who-Has, Who-Is, AcknowledgeAlarm, GetAlarmSummary, GetEnrollmentSummary, GetEventInformation, LifeSafetyOperation, ConfirmedPrivateTransfer, UnconfirmedEventNotification. UnconfirmedPrivateTransfer, ConfirmedTextMessage, UnconfirmedTextMessage, WriteGroup

BACnet objects types supported: AccessCredential, AccessDoor, AccessPoint, AccessRights, AccessUser, AccessZone, Accumulator, AlertEnrollment, AnalogInput, AnalogOutput, AnalogValue, Averaging, BinaryInput, BinaryLightingOutput, BinaryOutput, BinaryValue, BitStringValue, Calendar, Channel, CharacterstringValue, Command, CredentialDataInput, DatePatternValue, DateTimePatternValue, DateTimeValue, DateValue, Device, ElevatorGroup, Escalator, EventEnrollment, EventLog, File, GlobalGroup, Group, IntegerValue, LargeAnalogValue, LifeSafetyPoint, LifeSafetyZone, Lift, LightingOutput, LoadControl, Loop, MultiStateInput, MultiStateOutput, MultiStateValue, NetworkPort, NetworkSecurity, NotificationClass, NotificationForwarder, OctetStringValue, PositiveIntegerValue, Program, PulseConverter, Schedule, StructuredView, TimePatternValue, Timer, TimeValue, TrendLog, TrendLogMultiple