

## BACnet Protocol Implementation Conformance Statement

### Products

Model Name	Protocol Revision	Software Version	Firmware Version
Desigo CC	13	2.1	2.1

Date Tested: The latest information on BTL listings can be found at [www.bacnetassociation.org/btl](http://www.bacnetassociation.org/btl).

### Vendor Information

**Siemens Industry, Inc.**  
Building Technologies Division  
1000 Deerfield Parkway  
Buffalo Grove, IL 60089  
[www.sbt.siemens.com](http://www.sbt.siemens.com)

### Product Description

Desigo CC™ from Siemens is an integration platform for managing facility systems and enterprise applications. Optimized as an extension of the powerful APOGEE Automation System, Desigo CC allows full building operation as well as complete system configuration from the convenience of a standard Web browser, from a dedicated console for mission-critical applications, or from a Windows Desktop App for optimal mobile performance. Users find the workflow driven interface, designed around role-based profiles and flexible user-defined views, easy to learn and easy to use as it grows with their expertise. Desigo CC is built on building automation, fire safety, security, video, and IT standards, and provides the application support necessary for automating intelligent control and providing actionable information.

### BACnet Standardized Device Profile

Supported	Device Profile
•	BACnet Advanced Operator Workstation (B-AWS)

## Supported BACnet Interoperability Building Blocks

<b>BIBB</b>	<b>Name</b>
<b>Data Sharing</b>	
DS-RP-A	Data Sharing-ReadProperty-A
DS-RP-B	Data Sharing-ReadProperty-B
DS-RPM-A	Data Sharing-ReadPropertyMultiple-A
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
DS-WP-A	Data Sharing-WriteProperty-A
DS-WP-B	Data Sharing-WriteProperty-B
DS-WPM-A	Data Sharing-WritePropertyMultiple-A
DS-COV-A	Data Sharing-ChangeofValue-A
DS-COVP-A	Data Sharing – ChangeofValueProperty-A
DS-V-A	Data Sharing - View - A
DS-AV-A	Data Sharing - Advanced View - A
DS-M-A	Data Sharing - Modify - A
DS-AM-A	Data Sharing - Advanced Modify - A
<b>Scheduling</b>	
SCHED-VM-A	Scheduling-View and Modify-A
SCHED-AVM-A	Scheduling-Advanced View and Modify-A
SCHED-WS-A	Scheduling-Weekly Schedule-A
<b>Alarm and Event Management</b>	
AE-N-A	Alarm and Event-Notification-A
AE-ACK-A	Alarm and Event-ACK-A
AE-LS-A	Alarm and Event-LifeSafety - A
AE-VM-A	Alarm and Event Management - View and Modify - A
AE-AVM-A	Alarm and Event Management - Advanced View and Modify - A
AE-VN-A	Alarm and Event Management - View Notifications - A
AE-AVN-A	Alarm and Event Management - Advanced View Notifications - A
<b>Trending</b>	
T-V-A	Trending-Viewing and Modifying Trends-A
T-ATR-A	Trending-Automated Trend Retrieval-A
T-AVM-A	Trending-Advanced View and Modify -A
<b>Network Management</b>	
NM-CE-A	Network Management-Connection Establishment-A
<b>Device Management</b>	
DM-DDB-A	Device Management-Dynamic Device Binding-A
DM-DDB-B	Device Management-Dynamic Device Binding-B
DM-DOB-A	Device Management-Dynamic Object Binding-A
DM-DOB-B	Device Management-Dynamic Object Binding-B
DM-DCC-A	Device Management-DeviceCommunicationControl-A
DM-TM-A	Device Management-Text Message-A

DM-MTS-A	Device Management-Manual Time Synchronization-A
DM-ATS-A	Device Management-Automatic Time Synchronization-A
DM-TS-A	Device Management-TimeSynchronization-A
DM-UTC-A	Device Management-UTCTimeSynchronization-A
DM-RD-A	Device Management-ReinitializeDevice-A
DM-BR-A	Device Management-Backup and Restore-A
DM-LM-A	Device Management-List Manipulation-A
DM-LM-B	Device Management-List Manipulation-B
DM-OCD-A	Device Management-Object Creation and Deletion-A
DM-ANM-A	Device Management-Automatic Network Mapping-A
DM-ADM-A	Device Management-Automatic Device Mapping-A

### Historical/Deprecated BIBBs:

AE-ASUM-A	Alarm and Event-Alarm Summary-A
AE-INFO-A	Alarm and Event-Information-A
AE-ESUM-A	Alarm and Event – Enrollment Summary-A
T-VMT-A	Trending – Viewing and Modifying Trends - A
T-VMMV-A	Trending – Viewing and Modifying Multiple Values – A
SCHED-A	Scheduling-A

### Standard Object Types Supported

<b>Object Type</b>
Device

### Client supported object types

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calendar	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Command	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Enrollment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
File	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Averaging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Life-Safety-Point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Accumulator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Load Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured-View	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Credential	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Rights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bitstring Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Characterstring Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Pattern Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Pattern Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Datetime Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Octetstring Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Forwarder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alert Enrollment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Output	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Data Link Layer Options

•	BACnet IP, (Annex J)
•	BACnet IP, (Annex J), Foreign Device
•	ISO 8802-3, Ethernet (Clause 7)
	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____
	MS/TP master (Clause 9), baud rate(s): _____
	MS/TP slave (Clause 9), baud rate(s): _____
	Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
	Point-To-Point, modem, (Clause 10), baud rate(s): _____
	LonTalk, (Clause 11), medium: _____
	Other: _____

## Segmentation Capability

Can transmit segmented messages	Yes	Window Size: 32 (Configurable)
Can receive segmented messages	Yes	Window Size: 32 (Configurable)

## Device Address Binding

Is Static Device Binding supported?	Yes
-------------------------------------	-----

## Networking Options

	Router, Clause 6
	Annex H.3, BACnet Tunneling Router over UDP/IP
Yes	BACnet/IP Broadcast Management Device (BBMD)
Yes	Does the BBMD support registrations by Foreign Devices?

## Character Sets

✓	UTF-8
✓	ISO 10646 (UCS-2)
	IBM/Microsoft DBCS
	ISO 10646 (ICS-4)
✓	ISO 8859-1
	JIS C 6226

Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced. APOGEE is a registered trademark of Siemens Industry, Inc. Desigo CC is a trademark of Siemens Industry, Inc. Other product or company names mentioned herein may be the trademarks of their respective owners. © 2015 Siemens Industry, Inc.

**Siemens Industry, Inc.**  
Building Technologies Division  
1000 Deerfield Parkway  
Buffalo Grove, IL 60089-4513  
USA  
+ 1 847-215-1000

Your feedback is important to us.  
If you have comments about this document,  
please send them to  
[sbt\\_technical\\_editor.us.sbt@siemens.com](mailto:sbt_technical_editor.us.sbt@siemens.com).

Document No. S55802-Y150-V2P1  
Page 6 of 6