



Desigo™ CC MP 3.0
BACnet Protocol Implementation Conformance
Statement (PICS)
Basic documentation

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1 Desigo CC Workstation

Date	: March 22, 2017
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Desigo CC Workstation
Product model number	: 3.0
BACnet protocol version	: 13
Application software version	: 3.0
Firmware revision	: n/a

1.1 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.

1.2 BACnet standardized device profile (Annex L)

<input checked="" type="checkbox"/>	BACnet Advanced Workstation	(B-AWS)
<input type="checkbox"/>	BACnet Operator Workstation	(B-OWS)
<input type="checkbox"/>	BACnet Operator Display	(B-OD)
<input type="checkbox"/>	BACnet Building Controller	(B-BC)
<input type="checkbox"/>	BACnet Advanced Application Controller	(B-AAC)
<input type="checkbox"/>	BACnet Application Specific Controller	(B-ASC)
<input type="checkbox"/>	BACnet Smart Sensor	(B-SS)
<input type="checkbox"/>	BACnet Smart Actuator	(B-SA)

1.3 BACnet interoperability building blocks supported (Annex K)

Data sharing

<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-A	DS-RP-A
<input checked="" type="checkbox"/>	Data Sharing – ReadProperty-B	DS-RP-B
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
<input checked="" type="checkbox"/>	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-A	DS-WP-A
<input checked="" type="checkbox"/>	Data Sharing – WriteProperty-B	DS-WP-B
<input checked="" type="checkbox"/>	Data Sharing – WritePropertyMultiple-A	DS-WPM-A
<input type="checkbox"/>	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValue -A	DS-COV-A
<input type="checkbox"/>	Data Sharing – ChangeofValue -B	DS-COV-B
<input checked="" type="checkbox"/>	Data Sharing – ChangeofValueProperty -A	DS-COVP-A
<input type="checkbox"/>	Data Sharing – ChangeofValueProperty -B	DS-COVP-B
<input checked="" type="checkbox"/>	Data Sharing – View-A	DS-V-A
<input checked="" type="checkbox"/>	Data Sharing – Advanced View-A	DS-AV-A
<input checked="" type="checkbox"/>	Data Sharing – Modify-A	DS-M-A
<input checked="" type="checkbox"/>	Data Sharing – Advanced Modify-A	DS-AM-A

Alarm and event management

<input checked="" type="checkbox"/>	Alarm and Event – Notification-A	AE-N-A
<input type="checkbox"/>	Alarm and Event – Notification Internal-B	AE-N-I-B
<input type="checkbox"/>	Alarm and Event – Notification External-B	AE-N-E-B
<input checked="" type="checkbox"/>	Alarm and Event – ACK-A	AE-ACK-A
<input type="checkbox"/>	Alarm and Event – ACK-B	AE-ACK-B
<input type="checkbox"/>	Alarm and Event – Alarm Summary-B	AE-ASUM-B
<input type="checkbox"/>	Alarm and Event – Enrollment Summary-B	AE-ESUM-B
<input type="checkbox"/>	Alarm and Event – Information-B	AE-INFO-B
<input checked="" type="checkbox"/>	Alarm and Event – LifeSafety-A	AE-LS-A
<input type="checkbox"/>	Alarm and Event – LifeSafety-B	AE-LS-B
<input checked="" type="checkbox"/>	Alarm and Event – View Notifications-A	AE-VN-A
<input checked="" type="checkbox"/>	Alarm and Event – Advanced View Notifications-A	AE-AVN-A
<input checked="" type="checkbox"/>	Alarm and Event – View and Modify-A	AE-VM-A
<input checked="" type="checkbox"/>	Alarm and Event – Advanced View and Modify-A	AE-AVM-A
<input checked="" type="checkbox"/>	Alarm and Event – Alarm Summary View-A	AE-AS-A
<input checked="" type="checkbox"/>	Alarm and Event – Event Log View-A	AE-ELV-A
<input checked="" type="checkbox"/>	Alarm and Event – Event Log View and Modify-A	AE-ELVM-A
<input type="checkbox"/>	Alarm and Event – Event Log-Internal-B	AE-EL-I-B
<input type="checkbox"/>	Alarm and Event – Event Log-External-B	AE-EL-E-B

Alarm and event management**Historical/Deprecated BIBBs**

<input checked="" type="checkbox"/>	Alarm and Event – Alarm Summary-A	AE-ASUM-A
<input checked="" type="checkbox"/>	Alarm and Event – Enrollment Summary-A	AE-ESUM-A
<input checked="" type="checkbox"/>	Alarm and Event – Information-A	AE-INFO-A

Scheduling

<input type="checkbox"/>	Scheduling – Internal-B	SCHED-I-B
<input type="checkbox"/>	Scheduling – External-B	SCHED-E-B
<input checked="" type="checkbox"/>	Scheduling – View Modify-A	SCHED-VM-A
<input checked="" type="checkbox"/>	Scheduling – Advanced View Modify-A	SCHED-AVM-A
<input checked="" type="checkbox"/>	Scheduling – Weekly Schedule-A	SCHED-WS-A
<input type="checkbox"/>	Scheduling – Weekly Schedule Internal-B	SCHED-WS-I-B
<input type="checkbox"/>	Scheduling – Readable-B	SCHED-R-B

Historical/Deprecated BIBBs

<input checked="" type="checkbox"/>	Scheduling – A	SCHED-A
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Trending

<input type="checkbox"/>	Trending – Viewing and Modifying Trends Internal-B	T-VMT-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Trends External-B	T-VMT-E-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values External-B	T-VMMV-E-B
<input checked="" type="checkbox"/>	Trending – Automated Multiple Value Retrieval-A	T-AMVR-A
<input type="checkbox"/>	Trending – Automated Multiple Value Retrieval-B	T-AMVR-B
<input checked="" type="checkbox"/>	Trending – View-A	T-V-A
<input checked="" type="checkbox"/>	Trending – Advanced View and Modify-A	T-AVM-A
<input checked="" type="checkbox"/>	Trending – Archival-A	T-A-A
<input checked="" type="checkbox"/>	Trending – Automated Trend Retrieval-A	T-ATR-A
<input type="checkbox"/>	Trending – Automated Trend Retrieval-B	T-ATR-B

Historical/Deprecated BIBBs

<input type="checkbox"/>	Trending – Viewing and Modifying Trends-A	T-VMT-A
<input type="checkbox"/>	Trending – Viewing and Modifying Multiple Values-A	T-VMMV-A

Device management

<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-A	DM-DDB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Device Binding-B	DM-DDB-B
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-A	DM-DOB-A
<input checked="" type="checkbox"/>	Device Management – Dynamic Object Binding-B	DM-DOB-B
<input checked="" type="checkbox"/>	Device Management – DeviceCommunicationControl-A	DM-DCC-A
<input type="checkbox"/>	Device Management – DeviceCommunicationControl-B	DM-DCC-B
<input type="checkbox"/>	Device Management – Private Transfer-A	DM-PT-A
<input type="checkbox"/>	Device Management – Private Transfer-B	DM-PT-B
<input checked="" type="checkbox"/>	Device Management – Text Message-A	DM-TM-A
<input type="checkbox"/>	Device Management – Text Message-B	DM-TM-B

Device management

<input checked="" type="checkbox"/>	Device Management – TimeSynchronization-A	DM-TS-A
<input type="checkbox"/>	Device Management – TimeSynchronization-B	DM-TS-B
<input checked="" type="checkbox"/>	Device Management – UTCTimeSynchronization-A	DM-UTC-A
<input type="checkbox"/>	Device Management – UTCTimeSynchronization-B	DM-UTC-B
<input checked="" type="checkbox"/>	Device Management – ReinitializeDevice-A	DM-RD-A
<input type="checkbox"/>	Device Management – ReinitializeDevice-B	DM-RD-B
<input checked="" type="checkbox"/>	Device Management – Backup and Restore-A	DM-BR-A
<input type="checkbox"/>	Device Management – Backup and Restore-B	DM-BR-B
<input type="checkbox"/>	Device Management – Restart-A	DM-R-A
<input type="checkbox"/>	Device Management – Restart-B	DM-R-B
<input checked="" type="checkbox"/>	Device Management – List Manipulation-A	DM-LM-A
<input checked="" type="checkbox"/>	Device Management – List Manipulation-B	DM-LM-B
<input checked="" type="checkbox"/>	Device Management – Object Creation and Deletion-A	DM-OCD-A
<input type="checkbox"/>	Device Management – Object Creation and Deletion-B	DM-OCD-B
<input type="checkbox"/>	Device Management – Virtual Terminal-A	DM-VT-A
<input type="checkbox"/>	Device Management – Virtual Terminal-B	DM-VT-B
<input checked="" type="checkbox"/>	Device Management – Automatic Network Mapping-A	DM-ANM-A
<input checked="" type="checkbox"/>	Device Management – Automatic Device Mapping-A	DM-ADM-A
<input checked="" type="checkbox"/>	Device Management – Automatic Time Synchronization-A	DM-ATS-A
<input checked="" type="checkbox"/>	Device Management – Manual Time Synchronization-A	DM-MTS-A

Network management

<input checked="" type="checkbox"/>	Network Management – Connection Establishment-A	NM-CE-A
<input type="checkbox"/>	Network Management – Connection Establishment-B	NM-CE-B
<input type="checkbox"/>	Network Management – Router Configuration-A	NM-RC-A
<input type="checkbox"/>	Network Management – Router Configuration-B	NM-RC-B

1.4 Standard object types supported

Only the device object is supported.

Device	Properties	monitor	modify
	Object_Identifier	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	System_Status	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Vendor_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Vendor_Identifier	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Model_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Firmware_Revision	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Application_Software_Version	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Protocol_Version	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Protocol_Revision	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Protocol_Services_Supported	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Protocol_Object_Types_Supported	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Object_List	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Structured_Object_List	<input type="checkbox"/>	<input type="checkbox"/>
	Max_APDU_Length_Accepted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Segmentation_Supported	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Max_Segments_Accepted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	VT_Classes_Supported	<input type="checkbox"/>	<input type="checkbox"/>
	Active_VT_Sessions	<input type="checkbox"/>	<input type="checkbox"/>
	Local_Time	<input type="checkbox"/>	<input type="checkbox"/>
	Local_Date	<input type="checkbox"/>	<input type="checkbox"/>
	UTC_Offset	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Daylight_Savings_Status	<input type="checkbox"/>	<input type="checkbox"/>
	APDU_Segment_Timeout	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	APDU_Timeout	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Number_Of_APDU_Retries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	List_Of_Session_Keys	<input type="checkbox"/>	<input type="checkbox"/>
	Time_Synchronization_Recipients	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Max_Master	<input type="checkbox"/>	<input type="checkbox"/>
	Max_Info_Frames	<input type="checkbox"/>	<input type="checkbox"/>
	Device_Address_Binding	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Database_Revision	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Configuration_Files	<input type="checkbox"/>	<input type="checkbox"/>
	Last_Restore_Time	<input type="checkbox"/>	<input type="checkbox"/>
	Backup_Failure_Timeout	<input type="checkbox"/>	<input type="checkbox"/>
	Active_COV_Subscriptions	<input type="checkbox"/>	<input type="checkbox"/>
	Slave_Proxy_Enable	<input type="checkbox"/>	<input type="checkbox"/>
	Manual_Slave_Adress_Binding	<input type="checkbox"/>	<input type="checkbox"/>

Properties	monitor	modify
Auto_Slave_Discovery	<input type="checkbox"/>	<input type="checkbox"/>
Slave_Address_Binding	<input type="checkbox"/>	<input type="checkbox"/>
Last_Restart_Reason	<input type="checkbox"/>	<input type="checkbox"/>
Time_Of_Device_Restart	<input type="checkbox"/>	<input type="checkbox"/>
Restart_Notification_Recipients	<input type="checkbox"/>	<input type="checkbox"/>
UTC_Time_Synchronization_Recipients	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Time_Synchronization_Interval	<input type="checkbox"/>	<input type="checkbox"/>
Align_Intervals	<input type="checkbox"/>	<input type="checkbox"/>
Interval_Offset	<input type="checkbox"/>	<input type="checkbox"/>
Serial_Number	<input type="checkbox"/>	<input type="checkbox"/>
Property_List	<input type="checkbox"/>	<input type="checkbox"/>
Profile_Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>

1.5 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"/>

Object type	Supported	Can be created dynamically	Can be deleted dynamically
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"/>

1.6 Segmentation capability

<input checked="" type="checkbox"/>	Able to transmit segmented messages	Window size	32
<input checked="" type="checkbox"/>	Able to receive segmented messages	Window size	32

1.7 Data Link Layer options

<input checked="" type="checkbox"/>	BACnet IP, (Annex J)		
<input checked="" type="checkbox"/>	BACnet IP, (Annex J), Foreign Device		
<input checked="" type="checkbox"/>	ISO 8802-3, Ethernet (Clause 7)		
<input type="checkbox"/>	ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)		
<input type="checkbox"/>	ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)		
<input type="checkbox"/>	MS/TP master (Clause 9), baud rate(s)		
<input type="checkbox"/>	MS/TP slave (Clause 9), baud rate(s)		
<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10), baud rate(s)		: Max. 38400
<input type="checkbox"/>	Point-To-Point, modem, (Clause 10), baud rate(s)		: Max. 38400
<input type="checkbox"/>	LonTalk, (Clause 11), medium:		: TP/FT-10
<input type="checkbox"/>	Other		

1.8 Device address binding

Is static device binding supported?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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1.9 Networking options

<input type="checkbox"/>	Router, Clause 6		
<input type="checkbox"/>	Annex H, BACnet Tunnelling Router over IP		
<input checked="" type="checkbox"/>	BACnet/IP Broadcast Management Device (BBMD)		
	Does the BBMD support registrations by Foreign Devices?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

1.10 Character sets supported

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

<input checked="" type="checkbox"/> UTF-8	<input type="checkbox"/> IBM / Microsoft DBCS	<input checked="" type="checkbox"/> ISO 8859-1
<input checked="" type="checkbox"/> ISO 10646 (UCS-2)	<input type="checkbox"/> ISO 10646 (UCS-4)	<input type="checkbox"/> JIS C 6226