

SIEMENS



Climatix™ VVS10
BACnet Protocol Implementation Conformance
Statement (PICS)
Basic documentation

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Table of contents

1	About this document	5
1.1	Revision history.....	5
1.2	Before you start.....	5
2	Climatix PICS.....	6
2.1	Product information	6
2.2	Product model number.....	6
2.3	Product description	6
2.4	BACnet standardized device profile (Annex L)	6
2.5	BACnet interoperability building blocks supported (Annex K)	7
2.6	Standard object types supported	8
2.7	Standard object types description	10
2.8	Segmentation capability	23
2.9	Data Link Layer options	23
2.10	Device address binding.....	23
2.11	Networking options	23
2.12	Character sets supported.....	24
Index	25

1 About this document

1.1 Revision history

Version	Date	Changes	Section	Pages
	2008-11-08	First edition		
VVS8	2009-02-27	Reworked for VVS8		
	2009-07-14	Added data for Trend Log	2.5, 2.6, 2.7	8, 9, 18
	2009-10-22	Removed Unsolicited COVs Limit of Max_Master changed to 127	2.5 2.7	8 15
VVS9	2011-06-22	Reworked for VVS9 and BTL	2.1, 2.4, 2.5, 2.6, 2.7	7, 8, 9, 10-17, 19, 20
VVS10	2012-03-21	First edition based on VVS10 to describe current implementation of BACnet communication module		
	2014-02-18	Added the Accumulator Object		

1.2 Before you start

Trademark

The trademark used in this document is listed together with its legal owner in the following table. The use of this trademark is subject to international and national statutory provisions.

Trademark	Legal owner
BACnet™	American National Standard (ANSI/ASHRAE 135-1995)

Further to the note in this section, and to facilitate the reading of the text, this trademark will not be indicated elsewhere in the text (e.g. by use of symbol ™).

Copyright

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Quality assurance

The document has been prepared with great care.

- The contents is checked at regular intervals.
- Any corrections necessary are included in subsequent versions.

Please ensure that you are aware of the latest revision date of the documentation. If you find any lack of clarity while using this document, or if you have any criticisms or suggestions, please contact the product manager in your nearest branch office, or write directly to the support team at Headquarters in Zug (see below).

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2 Climatix PICS

2.1 Product information

Date	: not product related
Vendor name	: Siemens Building Technologies (Vendor ID 7)
Product name	: Climatix
Product model number	: (see table below)
BACnet protocol version	: 1.10
Application software version	–
Firmware revision	: no versioning in architecture

2.2 Product model number

Product	Description	Data Link Layer
Pol908.00	Communication Module IP	IP
Pol904.00	Communication Module MS/TP	MS/TP

2.3 Product description

The Climatix is a freely configurable process unit with focus on HVAC.

This PICS is project independent. Replace this lines if you make a product dependent PICS.

2.4 BACnet standardized device profile (Annex L)

- | | | |
|-------------------------------------|--|---------|
| <input type="checkbox"/> | BACnet Operator Workstation | (B-OWS) |
| <input checked="" 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) |

2.5 BACnet interoperability building blocks supported (Annex K)

Data sharing	Data Sharing – ReadProperty-A	DS-RP-A
	Data Sharing – ReadProperty-B	DS-RP-B
	Data Sharing – ReadPropertyMultiple-A	DS-RPM-A
	Data Sharing – ReadPropertyMultiple-B	DS-RPM-B
	Data Sharing – WriteProperty-A	DS-WP-A
	Data Sharing – WriteProperty-B	DS-WP-B
	Data Sharing – WritePropertyMultiple-B	DS-WPM-B
	Data Sharing – COV-B	DS-COV-B
	Data Sharing – COV-A	DS-COV-A
Alarm and event management	Alarm and Event – Notification Internal-B	AE-N-I-B
	Alarm and Event – AcknowledgeAlarm-B	AE-ACK-B
	Alarm and Event – Information-B	AE-INFO-B
	Alarm and Event – Alarm Summary-B	AE-ASUM-B
	Alarm and Event – Event-Enrollment Summary-B	AE-ESUM-B
Scheduling	Scheduling – Internal-B	SCHED-I-B
	Scheduling – External-B	SCHED-E-B
Trending	Trending-Viewing and Modifying Trends Internal-B	T-VMT-I-B
	Trending-Automated Trend Retrieval-B	T-ATR-B
Device management	Device Management – Dynamic Device Binding-A	DM-DDB-A
	Device Management – Dynamic Device Binding-B	DM-DDB-B
	Device Management – Dynamic Object Binding-B	DM-DOB-B
	Device Management – DeviceCommunicationControl-B	DM-DCC-B
	Device Management – TimeSynchronization-B	DM-TS-B
	Device Management – UTCTimeSynchronization-B	DM-UTC-B
	Device Management – ReinitializeDevice-B	DM-RD-B
	Device Management – Backup and Restore-B	DM-BR-B
	Device Management – List Manipulation-B	DM-LM-B
Device Management – Object Creation and Deletion-B	DM-OCD-B	
Network management	Network Management – Connection Establishment-A	NM-CE-A

2.6 Standard object types supported

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Accumulator	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>
Averaging	<input 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 type="checkbox"/>	<input type="checkbox"/>
Command	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Life-Safety-Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Loop	<input 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"/>
Multi-State Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulse-Converter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Access Door	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Log	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structured View	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trend Log Multiple	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Point	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access Zone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Access User	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Credential Data Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CharacterString Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DateTime Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Analog Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BitString Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OctedString Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integer Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positive Integer Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DateTime Pattern Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date Pattern Value	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Network Security	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Global Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.7 Standard object types description

Accumulator

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Present_Value	(X)	
Description		
Status_Flags		
Event_State		
Reliability		
Out_Of_Service	X	
Scale	X	
Units		
Prescale		
Max_Pres_Value		
Value_Change_Time		
Value_Before_Change		
Value_Set	X	

Standard object types description, *continued*

Analog Input

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Present_Value	(X)	
Description		
Status_Flags		
Event_State		
Reliability		
Out_Of_Service	X	
Units		
Max_Pres_Value		
Min_Pres_Value		
COV_Increment	X	
Time_Delay		
Notification_Class		
High_Limit	X	Min_Pres_Value <= x <=Max_Pres_Value And High_Limit > Low_Limit
Low_Limit	X	Min_Pres_Value <= x <=Max_Pres_Value And High_Limit > Low_Limit
Deadband	X	0 .. maxReal
Limit_Enable	X	
Event_Enable	X	
Acked_Transitions		
Notify_Type		
Event_Time_Stamps		

Standard object types description, *continued*

Analog Output

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Present_Value	X	
Description		
Status_Flags		
Event_State		
Reliability	(X)	
Out_Of_Service	X	
Units		
Max_Pres_Value		
Min_Pres_Value		
Priority_Array		
Relinquish_Default	X	
COV_Increment	X	
Time_Delay		
Notification_Class		
High_Limit	X	Min_Pres_Value <= x
		<=Max_Pres_Value
		And High_Limit >
		Low_Limit
Low_Limit	X	Min_Pres_Value <= x
		<=Max_Pres_Value
		And High_Limit >
		Low_Limit
Deadband	X	0 .. maxReal
Limit_Enable	X	
Event_Enable	X	
Acked_Transitions		
Notify_Type		
Event_Time_Stamps		

Standard object types description, *continued*

Analog Value

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Present_Value	X	Depends on the Unit
Description		
Status_Flags		
Event_State		
Out_Of_Service	X	
Reliability	(X)	
Units		
Priority_Array		
Relinquish_Default	X	
COV_Increment	X	
Time_Delay		
Notification_Class		
High_Limit	X	Min_Pres_Value <= x <=Max_Pres_Value And High_Limit > Low_Limit
Low_Limit	X	
Deadband	X	0 .. maxReal
Limit_Enable	X	
Event_Enable	X	
Acked_Transitions		
Notify_Type		
Event_Time_Stamps		

Analog Value

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Present_Value	(X)	Depends on the Unit
Units		
Status_Flags		
COV_Increment	X	
Out_Of_Service	(X)	
Event_State		

Standard object types description, *continued*

Binary Input

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Present_Value	(X)	
Status_Flags		
Out_Of_Service	X	
Event_State		
Inactive_Text		
Active_Text		
Polarity	X	
Notification_Class		
Reliability	(X)	
Acked_Transitions		
Event_Enable	X	
Alarm_Value	X	
Notify_Type		
Time_Delay		
Event_Time_Stamps		

Binary Output

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Present_Value	X	
Status_Flags		
Out_Of_Service	X	
Event_State		
Inactive_Text		
Active_Text		
Notification_Class		
Reliability	(X)	
Acked_Transitions		
Event_Enable	X	
Notify_Type		
Time_Delay		
Event_Time_Stamps		
Polarity		
Feedback_Value		
Priority_Array		
Relinquish_Default	X	

Standard object types description, *continued*

Binary Value

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Present_Value	X	
Status_Flags		
Out_Of_Service	X	
Event_State		
Inactive_Text		
Active_Text		
Priority_Array		
Relinquish_Default	X	
Notification_Class		
Reliability	(X)	
Acked_Transitions		
Event_Enable	X	
Alarm_Value	X	
Notify_Type		
Time_Delay		
Event_Time_Stamps		

Standard object types description, *continued*

Event-Enrollment

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name	X	
Object_Type		
Event-type	X	
Notofy-type	X	
Event-parameters	X	
Object-property-reference	X	
Event-state		
Event-enable	X	
Acked-transitions		
Notification-class	X	
Event-time-stamps		

Trend-log

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Enable	X	
Start-time	X	
Stop-time	X	
Log-device-object-property	X	
Log-interval	X	
Client-cov-increment	X	
Stop-when-full	X	
Buffer-size		
Log-buffer		
Record-count	X	
Total-record-count		
Notification-threshold	X	
Records-since-notification		
Last-notify-record		
Event-state		
Notification-class		
Event-enable	X	
Acked-transitions		
Notify-type		
Event-time-stamps		

File

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier Object_Name Object_Type Description File-type File-size Modification-date Archive Read-only File-access-method	X	

Calendar

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier Object_Name Object_Type Description Present_Value Date_List	X	max 10

Device

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier Object_Name Object_Type System_Status Vendor_Name Vendor_Identifier Model_Name Firmware_Revision Application_Software_Version Location Description Protocol_Version Protocol_Revision Protocol_Services_Supported Protocol_Obj_Types_Supported Object_List Max_APDU_Length_Accepted Segmentation_Supported Max_Segments_Accepted Local_Time Local_Date UTC_Offset	X X	1 10 1476>= x >=50 -780 .. 780

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Daylight_Savings_Status		
APDU_Segment_Timeout	X	>100
APDU_Timeout	X	>100
Number_Of_APDU_Retries	X	
Device_Address_Binding		
Database_Revision		
configuration-files		
last-restore-time		
backup-failure-timeout		
Active_COV_Subscriptions		<=50
Only For MS/TP		
Max_Master	X	1 <= x <=127
Max_Info_Frames	X	1 <= x <=32

Standard object types description, *continued*

Multistate Input

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Present_Value	(X)	1 ... Number_Of_States
Number_Of_States		
Status_Flags		
Out_Of_Service	X	
Event_State		
Notification_Class		
Reliability	(X)	
Acked_Transitions		
Event_Enable	X	
Alarm_Values	X	Max. 5
Fault_Values	X	Max. 5
Notify_Type		
Time_Delay		
Event_Time_Stamps		
State_Text		

Multistate Output

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier		
Object_Name		
Object_Type		
Description		
Present_Value	X	1 .. Number_Of_States
Feedback_Value		
Number_Of_States		
Status_Flags		
Out_Of_Service	X	
Event_State		
Priority_Array		
Relinquish_Default	X	1 .. Number_Of_States
Notification_Class		
Reliability	(X)	
Acked_Transitions		
Event_Enable	X	
Notify_Type		
Time_Delay		
Event_Time_Stamps		
State_Text		

Standard object types description, *continued*

Multistate Value	Properties supported	Writable properties	Property range restrictions
		X = Writeable (X) = Writeable if Out_Of_Service=True	
	Object_Identifier		
	Object_Name		
	Object_Type		
	Description		
	Present_Value	X	1 .. Number_Of_States
	Number_Of_States		
	Status_Flags		
	Out_Of_Service	X	
	Event_State		
	Priority_Array		
	Relinquish_Default	X	1 .. Number_Of_States
	Notification_Class		
	Reliability	(X)	
	Acked_Transitions		
	Event_Enable	X	
	Alarm_Values	X	max 5
	Fault_Values	X	max 5
	Notify_Type		
	Time_Delay		
	Event_Time_Stamps		
	State_Text		

Multistate Value	Properties supported	Writable properties	Property range restrictions
		X = Writeable (X) = Writeable if Out_Of_Service=True	
	Object_Identifier		
	Object_Name		
	Object_Type		
	Description		
	Present_Value	X	1 .. Number_Of_States
	Number_Of_States		
	Status_Flags		
	Out_Of_Service	X	
	Event_State		
	State_Text		

Standard object types description, *continued*

Notification Class

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier Object_Name Object_Type Description Notification_Class Priority Ack_Required Recipient_List	X X X	Max. 20

Schedule

Properties supported	Writable properties X = Writeable (X) = Writeable if Out_Of_Service=True	Property range restrictions
Object_Identifier Object_Name Object_Type Description Present_Value Schedule_Default Effective_Period Weekly_Schedule List_Of_Object_Property_References Priority_For_Writing Status_Flags Reliability Out_Of_Service Exception_Schedule	(X) X X X X X X	Multistate, Analog Max. 6 per day 1 ... 16 Only Calendar reference Max. 6 entries for exception day

Standard object types description, *continued*

CharacterString Value	Properties supported	Writable properties	Property range restrictions
		X = Writeable (X) = Writeable if Out_Of_Service=True	
	Object_Identifier Object_Name Object_Type Description Present_Value Status_Flags	X	

Positive Integer Value	Properties supported	Writable properties	Property range restrictions
		X = Writeable (X) = Writeable if Out_Of_Service=True	
	Object_Identifier Object_Name Object_Type Description Present_Value Status_Flags Units	X	

DateTime Pattern Value	Properties supported	Writable properties	Property range restrictions
		X = Writeable (X) = Writeable if Out_Of_Service=True	
	Object_Identifier Object_Name Object_Type Description Present_Value Status_Flags	X	

2.8 Segmentation capability

- | | | |
|---|-------------|--------------------------|
| <input checked="" type="checkbox"/> Able to transmit segmented messages | Window size | 4 for IP and 1 for MS/TP |
| <input checked="" type="checkbox"/> Able to receive segmented messages | Window size | 4 for IP and 1 for MS/TP |

2.9 Data Link Layer options

Only one Data Link Layer supported, see 1.5 Product model number.

- 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) 9600,19200,38400,76800
- MS/TP slave (Clause 9), baud rate(s) 9600,19200,38400,76800
- Point-To-Point, EIA 232 (Clause 10), baud rate(s)
- Point-To-Point, modem, (Clause 10), baud rate(s)
- LonTalk, (Clause 11), medium
- Other :

2.10 Device address binding

Is static device binding supported? Yes No

2.11 Networking options

- Router, Clause 6 (remote management functionality/BACnet PTP)
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD) ¹⁾
Number of BDT entries: 10
Does the BBMD support registrations by foreign devices? Yes No

¹⁾ if product supports IP

2.12 Character sets supported

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

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> ANSI X3.4 | <input type="checkbox"/> IBM / Microsoft DBCS | <input checked="" type="checkbox"/> ISO 8859-1 ¹⁾ |
| <input checked="" type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS C 6226 |

Index

A

Alarm and event management	7
Analog Input.....	10, 11
Analog Output.....	12
Analog Value.....	13

B

Bacnet interoperability building blocks (Annex K) ..	7
BACnet standardized device profile (Annex L).....	6
Before you start	5
Binary Input.....	14
Binary Output.....	14
Binary Value.....	15

C

Calendar	17
Character sets supported	24
CharaterString Value.....	22
Copyright	5

D

Data Link Layer options	23
Data sharing	7
DateTime Pattern Value.....	22
Device	17
Device address binding	23
Device management.....	7

E

Event-Enrollment	16
------------------------	----

F

File	17
------------	----

M

Multistate Input	19
Multistate Output	19
Multistate Value	20

N

Networking options.....	23
Notification Class.....	21

P

Positive Integer Value.....	22
Product description.....	6
Product model number	6

Q

Quality assurance.....	5
------------------------	---

R

Revision history	5
------------------------	---

S

Schedule	21
Scheduling.....	7
Segmentation capability	23
Standard object types description	10
Standard object types supported.....	8

T

Trademark	5
Trending	7
Trend-log	16

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