

SIEMENS

OPC Interface Specifications Version 3.0

SPC

Document No. A6V10429336
Edition 07-2017

SPC intrusion detection panel

This workbook describes the objects provided by the Siemens OPC Data Access Server to represent the SPC control unit

Legend

ID	Object Model	Description																							
<ID>	<Object Model>	<Description>																							
	States	Commands on OPC Item Mode																							
	<table border="1"> <thead> <tr> <th>OPC Item PresentValue</th> <th>OPC Item Mode</th> <th>Result State</th> </tr> </thead> <tbody> <tr> <td>0-Quiet</td> <td>1-Normal</td> <td>Normal</td> </tr> <tr> <td>1-Pre Alarm</td> <td>1-Normal</td> <td>Pre Alarm</td> </tr> <tr> <td>16-Abnormal</td> <td>1-Normal</td> <td>Anomaly</td> </tr> <tr> <td>2-Alarm</td> <td>1-Normal</td> <td>Alarm</td> </tr> </tbody> </table>	OPC Item PresentValue	OPC Item Mode	Result State	0-Quiet	1-Normal	Normal	1-Pre Alarm	1-Normal	Pre Alarm	16-Abnormal	1-Normal	Anomaly	2-Alarm	1-Normal	Alarm	<table border="1"> <thead> <tr> <th>1 - Activate</th> <th>2 -</th> <th>5 -</th> <th>6 -</th> </tr> </thead> <tbody> <tr> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	1 - Activate	2 -	5 -	6 -	X			
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X																									

Notes

The Object Model defines the states and commands of all instances of that type. In particular, an Object Model virtualizes a class of physical objects (devices and points in the system) by means of specific properties.

In the OPC interface, the physical object is represented by an instance of an Object Model that contains *PresentValue* and *Mode* properties represented by two VT_UI4 OPC Items. An appropriate combination of these two values defines the real state of the instance (result state). When a command is issued, it acts on the Mode property only. This results in changing the state of the instance.

To identify the Object Model of each object instance, open the CSV export file with a spreadsheet program and refer to the Object Model column (See also *Example of Exported CSV File* in section *OPC Server* of the online help).

ID	Object Model	Description	Commands on OPC Item Mode						
SPC-0010	SPC Area	Intrusion Area - The area controls alarm mode (Set, Unset, PartSet) and associated zones (Inhibit, Deinhbit, Isolate, Deisolate, Test).	States	8-Fullset	6-Partset A	7-Partset B	9-Unset	18-Get Status	19-Ready to Arm
OPC Item PresentValue	OPC Item Mode	Result State							
0-Normal	1-Normal	System ON (Fullset)			X	X	X		
6-Not Ready	1-Normal	Not Ready			X	X	X		
267-Non Default Mode	6-Unset	System OFF (Unset)	X	X	X			X	X
267-Non Default Mode	7-Part Set	System Partially OFF	X		X		X	X	X
267-Non Default Mode	7-Part Set	System Partially OFF	X	X			X	X	X

ID	Object Model	Description	Commands on OPC Item Mode						
SPC-0020	SPC Door	Monitored Door - Access control door.	States			12-Lock	10-Unlock	11-Normal	17-Mom.Unlock
			OPC Item PresentValue	OPC Item Mode	Result State				
			0-Normal	1-Normal	Normal	X	X		X
			267-Non Default Mode	284-Locked	Locked		X	X	
			267-Non Default Mode	258-Off Controls	Unlocked	X		X	
			267-Non Default Mode	10-Disconnected	Offline	X	X		
			15-Forced	1-Normal	Forced	X	X		
			21-Left Open	1-Normal	Open	X	X		
20-Open Too Long	1-Normal	Open Too Long	X	X					

ID	Object Model	Description																																																															
SPC-0030	SPC Enet Node	Node of ENETNODE - Expanders.																																																															
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14-Duress	1-Normal	Duress																																																															

ID	Object Model	Description																				
SPC-0040	SPC Mapping Gate	Alarming outputs - Intrusion alarming and control outputs mapped on physical output lines.																				
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ID	Object Model	Description				
SPC-0050	SPC Modem	Modem.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Normal	1-Normal	Normal				
3-Fault	1-Normal	Fault				
267-Non Default Mode	0-Isolate	Isolated				
267-Non Default Mode	260-Inhibit	Inhibited				

ID	Object Model	Description				
SPC-0060	SPC PSU	Power Supply Unit.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Normal	1-Normal	Normal				
3-Fault	1-Normal	Fault				
267-Non Default Mode	260-Inhibit	Inhibited				
267-Non Default Mode	0-Isolate	Isolated				

ID	Object Model	Description																																																	
SPC-0070	SPC System	Intrusion System - General conditions related to the SPC intrusion system.																																																	
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SPC-0080	SPC Unidentified	Unidentified event - Event with no corresponding object in the database.																																																								
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ID	Object Model	Description
SPC-0090	SPC User	User - User authorized to operate the intrusion system.
States		
OPC Item PresentValue	OPC Item Mode	Result State
0-Normal	1-Normal	LoggedOut
7-Active	1-Normal	LoggedIn (Norm/Duress)

Commands on OPC Item Mode	
\	\

ID	Object Model	Description
SPC-0100	SPC Xbus	X-BUS - Open/Closed loop X-BUS provides connection to the unit expanders.
States		
OPC Item PresentValue	OPC Item Mode	Result State
0-Normal	1-Normal	Normal
16-Abnormal	1-Normal	Anomaly/Information

Commands on OPC Item Mode	
\	\

ID	Object Model	Description	Commands on OPC Item Mode							
SPC-0110	SPC Zone	Intrusion Zone - Intrusion detector(s) protecting a part of the building.	States			4 - Isolate	5- Deisolate	2 - Inhibit	3 - Deinhibit	
			OPC Item PresentValue	OPC Item Mode	Result State					
			0-Normal	1-Normal	Normal	X		X		
			267-Non Default Mode	260-Inhibit	Inhibited	X			X	
			267-Non Default Mode	0-Isolate	Isolated		X			
			2-Alarm	1-Normal	Alarm	X		X		
			2-Alarm	1-Normal	Post Alarm					
			8-Tamper	1-Normal	Tamper	X		X		
			3-Fault	1-Normal	Fault	X		X		
			3-Fault	1-Normal	Trouble	X		X		
			267-Non Default Mode	2-Soak	Soak (test mode)					
7-Active / 6-Not Ready	1-Normal	Actuated	X		X					

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SPC-0120	SPC Event commands	This is not an Object Model but provides the read-only information about the event states. The event related to the point can require the acknowledge, silence/unsilence, and reset commands.																																																																																																																							
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