SIEMENS

OPC Interface Specifications Version 4.0

Sintony SI400

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Building Technologies

SI410 intrusion detection panel

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

Legend

ID	Object Model	Description
<ID>	<Object Model>	<Description>

States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	1 - Activate	2 -	5 -	6 -
0-Quiet	1-Normal	Normal	X			
1-Pre Alarm	1-Normal	Pre Alarm				
16-Abnormal	1-Normal	Anomaly				
2-Alarm	1-Normal	Alarm				

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 inteface, 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 approprate 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
SI400-0010	SI410	The SI410 object represents the entire Sintony unit and the geographical area covered by the intrusion protection.

States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	12-Disable	\	\	\
0-Quiet	1-Normal	Normal	X			
7-Active	269-Activated	Activated	X			

ID	Object Model	Description
SI400-0020	**SI410 BACnet Device**	BACnet Device representing the communication characteristics of the SI410 unit.

States			Commands on OPC Item Mode			
OPC Item PresentValue	**OPC Item Mode**	**Result State**	\	\	\	\

ID	Object Model	Description
SI400-0030	SI410 Partition	The partitions are a logical set of inputs. A Sintony unit supports up to 16 partitions.

States			Commands on OPC Item Mode					
OPC Item PresentValue	OPC Item Mode	Result State	6-Disarm	1-Enable	7-Prearm	12-Disable	2-Test	269-Activate
0-Quiet	1-Normal	Normal	X		X	X	X	X
2-Alarm	6-Disarmed	Unset and Alarm		X	X	X	X	X
267-Non Default Mode	6-Disarmed	Unset		X	X	X		
2-Alarm	7-Prearmed	Part-set and Alarm	X	X		X		
267-Non Default Mode	7-Prearmed	Part-set	X	X		X		
2-Alarm	1-Normal	Alarm	X		X	X		

ID	Object Model	Description
SI400-0040	**SI410 Base Object**	The Base Object gathers I/O transponders, Radio and Ebus gateways, card readers, and power supply.

States			Commands on OPC Item Mode			
OPC Item PresentValue	**OPC Item Mode**	**Result State**	\	\	\	\

ID	Object Model	Description
SI400-0050	SI410 Bypassable Input	The Bypassable Input object represents the conditions related to the Bypassable Inputs.

States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	2-Test	12-Disable	1-Enable	\
0-Quiet	1-Normal	Normal	X	X		
2-Alarm	1-Normal	Alarm		X		
8-Tamper	1-Normal	Tamper		X		
7-Active	1-Normal	Activated		X		
6-Not Ready	1-Normal	Not Ready		X		
3-Fault	1-Normal	Fault		X		
267-Non Default Mode	12-Disabled	Bypassed			X	
267-Non Default Mode	9-Test	Test			X	

ID	Object Model	Description
SI400-0060	SI410 Disarmable	The Disarmable object represents the conditions related to all those objects that can be disarmed.

States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	6-Disarm	1-Enable	\	\
0-Quiet	1-Normal	Normal	X			
267-Non Default Mode	6-Disarmed	Unset		X		

ID	Object Model	Description
SI400-0070	SI410 Input	Generic inputs are general purpose inputs.

States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	2-Test	1-Enable	\	\
0-Quiet	1-Normal	Normal	X			
2-Alarm	1-Normal	Alarm				
8-Tamper	1-Normal	Tamper				
7-Active	1-Normal	Activated				
6-Not Ready	1-Normal	Not Ready				
3-Fault	1-Normal	Fault				
267-Non Default Mode	9-Test	Test		X		

ID	Object Model	Description
SI400-0080	SI410 Output	The Output object represents the status of the output on the Sintony unit.

States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	269-Activate	2-Test	6-Disarm	1-Enable
0-Quiet	1-Normal	Normal		X		
267-Non Default Mode	9-Test	Test	X			X
7-Active	9-Test	Test Active			X	X
7-Active	1-Normal	Activated			X	X

ID	Object Model	Description
SI400-0090	SI410 System	The System object represents the possible general conditions related to the Sintony unit.

States			Commands on OPC Item Mode	
OPC Item PresentValue	OPC Item Mode	Result State	12-Disable	\
0-Quiet	1-Normal	Normal	X	
8-Tamper	1-Normal	Tamper	X	
3-Fault	1-Normal	Fault	X	
6-Not Ready	1-Normal	Not Ready	X	
16-Abnormal	1-Normal	Abnormal	X	
22-Supervisory	1-Normal	Supervisory	X	
267-Non Default Mode	1-Normal	Anomaly	X	
14-Duress	1-Normal	Duress	X	

ID	Object Model	Description
SI400-0100	SI410 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.

States			Commands on OPC Item Acked Transitions	
OPC Item Acked Transitions	OPC Item Operation Expected	Result State	1-Ack to offnormal	2-Ack to fault
7 - Normal	0 - None	Normal		
6 - Ack to offnormal	1 - Silence	Alarm	X	
5 - Ack to fault	0 - None	Fault		X

Siemens Switzerland Ltd
Building Technologies Division
International Headquarters
Gubelstrasse 22
CH-6301 Zug
Tel. +41 41-724 24 24
www.siemens.com/buildingtechnologies