

SIEMENS

OPC Interface Specifications Version 3.0

STT20/STT11

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STT20/STT11 Fire Panel

This workbook describes the objects provided by the Siemens OPC Data Access Server to represent the STT20 and STT11 fire control unit

Legend

ID	Object Model	Description																																									
<ID>	<Object Model>	<Description>																																									
		<table border="1"> <thead> <tr> <th rowspan="2">OPC Item PresentValue</th> <th colspan="2">States</th> <th colspan="4">Commands on OPC Item Mode</th> </tr> <tr> <th>OPC Item Mode</th> <th>Result State</th> <th>1 - Activate</th> <th>2 -</th> <th>5 -</th> <th>6 -</th> </tr> </thead> <tbody> <tr> <td>0-Quiet</td> <td>1-Normal</td> <td>Normal</td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1-Pre Alarm</td> <td>1-Normal</td> <td>Pre Alarm</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16-Abnormal</td> <td>1-Normal</td> <td>Anomaly</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2-Alarm</td> <td>1-Normal</td> <td>Alarm</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	OPC Item PresentValue	States		Commands on OPC Item Mode				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				
OPC Item PresentValue	States			Commands on OPC Item Mode																																							
	OPC Item Mode	Result State	1 - Activate	2 -	5 -	6 -																																					
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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 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				
STT20-0010	STT20 Standard Functions	Standard Actuation Function.				
			Commands on OPC Item Mode			
States						
OPC Item PresentValue	OPC Item Mode	Result State	283 - Activate	\	\	\
0-Quiet	1-On	Normal	X			
3-Fault	1-On	Fault	X			
260-Safety Position Failed	1-On	Safety Position Failed	X			
261-Fault Safety Position Failed	1-On	Fault Safety Position Failed	X			
262-Safety Position	1-On	Safety Position	X			
263-Fault Safety Position	1-On	Fault Safety Position	X			
264-Wait Position Failed	1-On	Wait Position Failed	X			
265-In Command	1-On	In Command	X			
266-Fault In Command	1-On	Fault In Command	X			
22-Supervisory	284-Locked	Locked	X			
3-Fault	284-Locked	Fault Locked	X			
264-Wait Position Failed	284-Locked	Wait Position Failed Locked	X			

ID	Object Model	Description				
STT20-0020	STT20 Alarm Function	Alarming Actuation Function.				
States			Commands on OPC Item Mode			
	OPC Item PresentValue	OPC Item Mode	Result State	271 - Activate Evac	\	\
0-Quiet	1-On	Normal	X			
2-Alarm	1-On	Alarm	X			
3-Fault	1-On	Fault	X			
5-Fault Alarm	1-On	Fault Alarm	X			
2-Alarm	271-Activated Evacuation	Evacuation Alarm	X			
3-Fault	271-Activated Evacuation	Evacuation Fault	X			
5-Fault Alarm	271-Activated Evacuation	Evacuation Fault Alarm	X			
22-Supervisory	271-Activated Evacuation	Evacuation Supervisory	X			

ID	Object Model	Description																																										
STT20-0030	STT20 BACnet Device	BACnet Device representing the communication characteristics of the STT20 unit.																																										
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3-Fault	1-On	Fault																																										
5-Fault Alarm	1-On	Fault Alarm																																										

ID	Object Model	Description				
STT20-0040	STT20 Binary Input	Binary Input.				
		States		Commands on OPC Item Mode		
		OPC Item PresentValue	OPC Item Mode	Result State		
		0-Quiet	-	Normal		
		7-Active	-	Active		

ID	Object Model	Description				
STT20-0050	STT20 Binary Output	Binary Output.				
<p style="text-align: center;">States</p>		<p style="text-align: center;">Commands on OPC Item Mode</p>				
				OPC Item PresentValue	OPC Item Mode	Result State
0-Quiet	-	Normal				

ID	Object Model	Description																												
STT20-0060	STT20 Evacuation Mode	Evacuation manual/automatic mode.																												
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22-Supervisory	263-On Manual	Manual Mode																												

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STT20-0070	STT20 Standard DAS	Fire Actuation Device (DAS = Dispositifs Actionnés de Sécurité) to control, for example, Fire Doors, Fans, Elevators, Audio.																																																																													
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266-Fault In Command	1-On	Fault In Command																																																																													

ID	Object Model	Description																												
STT20-0080	STT20 Extinguishing DAS	Extinguishing Actuation Device (DAS = Dispositifs Actionnés de Sécurité).																												
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States			Commands on OPC Item Mode																											
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																								
0-Quiet	1-On	Normal																												
259-Extinguishing Released	1-On	Extinguishing Released																												

ID	Object Model	Description				
STT20-0090	STT20 Generic Element	Actuation Element.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Quiet	1-On	Normal				
265-In Command	1-On	In Command				

ID	Object Model	Description																										
STT20-0100	STT20 Horn	Alarming Horn.																										
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States	Commands on OPC Item Mode																											
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																						
0-Quiet	1-On	Normal																										
22-Supervisory	12-Disabled	Disabled																										

ID	Object Model	Description				
STT20-0110	STT20 Lock Element	Lock Element.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	\
			-	-	-	\

ID	Object Model	Description																					
STT20-0120	STT20 Notification Class	Notification Class (internal BACnet communication).																					
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States			Commands on OPC Item Mode																				
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																	
-	-	-																					

ID	Object Model	Description						
STT20-0130	STT20 Cerloop	STT20 Cerloop unit.						
		States			Commands on OPC Item Mode			
		OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\

ID	Object Model	Description				
STT20-0140	STT20 Legacy BOP Function	STT20 functions used to manage alarms in Buildings Open to Public (BOP).				
			Commands on OPC Item Mode			
States						
OPC Item PresentValue	OPC Item Mode	Result State	271-Activate Evac	12-Disable	\	\
0-Quiet	1-On	Normal	X	X		
2-Alarm	7-Prearmed	Alarm	X	X		
5-Fault & Alarm	7-Prearmed	Fault & Alarm	X	X		
3-Fault	1-On	Fault	X	X		
2-Alarm	271-Activated Evac	Evacuation	X	X		
5-Fault & Alarm	271-Activated Evac	Evacuation & Fault	X	X		
265-In Command	271-Activated Evac	Evacuation Activated	X	X		
266-Fault & In Command	271-Activated Evac	Evacuation Activated & Fault	X	X		

ID	Object Model	Description							
STT20-0150	STT20 Legacy BOP Function Evac Mode	The evacuation mode is linked to BOP Alarm functions.							
			States		Commands on OPC Item Mode				
			OPC Item PresentValue	OPC Item Mode	Result State	3-Manned	4-Unmanned	\	\
			0-Quiet	1-On	Normal	X			
			22-Supervisory	1-On	Manual		X		

ID	Object Model	Description				
STT20-0160	STT20 Legacy Function	Standard STT20 functions.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	283-Activate	276-Disabled	\	\
0-Quiet	1-On	Normal	X	X		
264-Wait Position Failed	1-On	Wait Position Failed	X	X		
3-Fault	1-On	Fault	X	X		
265-In Command	1-On	In Command	X	X		
266-Fault & In Command	1-On	Fault & In Command	X	X		
260-Safety Position Failed	1-On	Safety Position Failed	X	X		
261-Fault & Safety Position Failed	1-On	Fault & Safety Position Failed	X	X		
262-Safety Position	1-On	Safety Position	X	X		
263-Fault & Safety Position	1-On	Fault & Safety Position	X	X		
267-Non Default Mode	284-Locked	Locked	X	X		
264-Wait Position Failed	284-Locked	Locked & Wait Position Failed	X	X		
3-Fault	284-Locked	Locked & Fault	X	X		

ID	Object Model	Description												
STT20-0170	STT20 Legacy Rearming	STT20 Rearming functions.												
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States	Commands on OPC Item Mode													
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\								

ID	Object Model	Description				
STT20-0180	STT20 Stop Fan Function	STT20 Stop Fan functions.				
			States			
			Commands on OPC Item Mode			
			\	\	\	\
	OPC Item PresentValue	OPC Item Mode	Result State			
	-	-	-			

ID	Object Model	Description				
STT20-0190	STT20 Technical SDI Function	Technical CMSI STT20 functions.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			\	\	\	\
			-	-	-	

ID	Object Model	Description
STT11-0200	SK11 BACnet Device	SK11 BACnet Device representing the communication characteristics of the SK11 unit.
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; background-color: #ffffcc;"> <p data-bbox="422 337 464 354" style="text-align: center;">States</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="212 407 365 423">OPC Item PresentValue</div> <div data-bbox="447 407 548 423">OPC Item Mode</div> <div data-bbox="678 407 758 423">Result State</div> </div> </div> <div style="width: 50%; background-color: #ccffcc;"> <p data-bbox="1142 337 1346 354" style="text-align: center;">Commands on OPC Item Mode</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="1003 407 1016 423">\</div> <div data-bbox="1157 407 1169 423">\</div> <div data-bbox="1310 407 1323 423">\</div> <div data-bbox="1463 407 1476 423">\</div> </div> </div> </div>		

ID	Object Model	Description						
STT11-0210	SK11 Cerloop	SK11 Cerloop unit.						
		States			Commands on OPC Item Mode			
		OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\

ID	Object Model	Description				
STT11-0220	STT11 Cerloop	STT11 Cerloop unit.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\

ID	Object Model	Description							
STT11-0230	STT11 Input Element	Conditions of a single sensor in a function object (such as, a sensor in a fire door).							
			States		Commands on OPC Item Mode				
			OPC Item PresentValue	OPC Item Mode	Result State	11-Enable	12-Disable	\	\
			0-Quiet	1-On	Normal		X		
			3-Fault	1-On	Fault		X		
			267-Non Default Mode	0-Off	Disabled	X			
			7-Active	1-On	Activated		X		

ID	Object Model	Description	Commands on OPC Item Mode			
STT11-0240	STT11 Output Element	Conditions of a single actuator for a function object (such as, automatic closing of a fire door).				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	11-Enable	12-Disable	269-Activate	276-Deactivate
0-Quiet	1-On	Normal		X	X	X
3-Fault	1-On	Fault		X	X	X
267-Non Default Mode	0-Off	Disabled	X		X	X
7-Active	1-On	Activated		X	X	X

ID	Object Model	Description	Commands on OPC Item Mode								
STT11-0250	STT11 Security Function	STT11 Security functions.	States			11-Enable	12-Disable	257-Off Automatic	256-Manual Off	269-Activate	
			OPC Item PresentValue	OPC Item Mode	Result State						
			0-Quiet	1-On	Normal		X	X			X
			264-Wait Position Failed	1-On	Wait Position Failed		X	X			X
			3-Fault	1-On	Fault		X	X			X
			265-In Command	1-On	In Command		X	X			X
			266-Fault & In Command	1-On	Fault & In Command		X	X			X
			260-Safety Position Failed	1-On	Safety Position Failed		X	X			X
			261-Fault & Safety Position Failed	1-On	Fault & Safety Position Failed		X	X			X
			262-Safety Position	1-On	Safety Position		X	X			X
			263-Fault & Safety Position	1-On	Fault & Safety Position		X	X			X
			267-Non Default Mode	0-Off	Disabled	X		X			
			267-Non Default Mode	257-Off Automatic	Manual		X		X		
			3-Fault	257-Off Automatic	Manual & Fault		X		X		
264-Wait Position Failed	257-Off Automatic	Manual & Wait Position Failed		X		X					

ID	Object Model	Description												
STT11-0260	STT11 System	Possible general conditions related to the STT11 unit.												
<table border="1"> <thead> <tr> <th data-bbox="422 358 464 375">States</th> <th colspan="4" data-bbox="1142 358 1346 375">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="212 431 365 448">OPC Item PresentValue</td> <td data-bbox="447 431 552 448">OPC Item Mode</td> <td data-bbox="678 431 762 448">Result State</td> <td data-bbox="1003 431 1024 448">\</td> <td data-bbox="1157 431 1178 448">\</td> <td data-bbox="1310 431 1331 448">\</td> <td data-bbox="1463 431 1484 448">\</td> </tr> </tbody> </table>			States	Commands on OPC Item Mode				OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
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ID	Object Model	Description																																																								
STT20/STT11-0270	STT20/STT11 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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