

# **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				
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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.				
<b>States</b>			<b>Commands on OPC Item Mode</b>			
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.																																										
<table border="1"> <thead> <tr> <th colspan="3" data-bbox="422 358 932 375">States</th> <th colspan="4" data-bbox="1142 358 1346 375">Commands on OPC Item Mode</th> </tr> <tr> <th data-bbox="212 431 365 448">OPC Item PresentValue</th> <th data-bbox="447 431 552 448">OPC Item Mode</th> <th data-bbox="678 431 762 448">Result State</th> <th data-bbox="1003 431 1014 448">\</th> <th data-bbox="1157 431 1167 448">\</th> <th data-bbox="1310 431 1320 448">\</th> <th data-bbox="1463 431 1474 448">\</th> </tr> </thead> <tbody> <tr> <td data-bbox="212 505 264 521">0-Quiet</td> <td data-bbox="447 505 485 521">1-On</td> <td data-bbox="678 505 730 521">Normal</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 529 264 545">2-Alarm</td> <td data-bbox="447 529 485 545">1-On</td> <td data-bbox="678 529 730 545">Alarm</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 553 264 570">3-Fault</td> <td data-bbox="447 553 485 570">1-On</td> <td data-bbox="678 553 730 570">Fault</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 578 306 594">5-Fault Alarm</td> <td data-bbox="447 578 485 594">1-On</td> <td data-bbox="678 578 762 594">Fault Alarm</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			States			Commands on OPC Item Mode				OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\	0-Quiet	1-On	Normal					2-Alarm	1-On	Alarm					3-Fault	1-On	Fault					5-Fault Alarm	1-On	Fault Alarm				
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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.				
		States		Commands on OPC Item Mode		
		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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0-Quiet	1-On	Normal																												
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.			
		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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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	<b>STT20 Legacy BOP Function Evac Mode</b>	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.				
<b>States</b>			<b>Commands on OPC Item Mode</b>			
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>	<b>283-Activate</b>	<b>276-Disabled</b>	<b>\</b>	<b>\</b>
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.				
			<b>States</b>			
			<b>Commands on OPC Item Mode</b>			
			\	\	\	\
OPC Item PresentValue	OPC Item Mode	Result State				

ID	Object Model	Description				
STT20-0180	STT20 Stop Fan Function	STT20 Stop Fan functions.				
			<b>States</b>			
			<b>Commands on OPC Item Mode</b>			
			\	\	\	\
			-	-	-	-

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

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.			
		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.																																																								
<table border="1"> <thead> <tr> <th colspan="3" data-bbox="422 358 464 375">States</th> <th colspan="4" data-bbox="1142 358 1346 375">Commands on OPC Item Mode</th> </tr> <tr> <th data-bbox="212 431 401 448">OPC Item Acked Transitions</th> <th data-bbox="449 431 646 448">OPC Item Operation Expected</th> <th data-bbox="674 431 758 448">Result State</th> <th data-bbox="1003 431 1024 448">\</th> <th data-bbox="1157 431 1178 448">\</th> <th data-bbox="1310 431 1331 448">\</th> <th data-bbox="1463 431 1484 448">\</th> </tr> </thead> <tbody> <tr> <td data-bbox="212 505 296 521">7 - Normal</td> <td data-bbox="449 505 506 521">0 - None</td> <td data-bbox="674 505 737 521">Normal</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 529 296 545">7 - Normal</td> <td data-bbox="449 529 506 545">4 - Reset</td> <td data-bbox="674 529 716 545">Reset</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 553 338 570">6 - Ack to offnormal</td> <td data-bbox="449 553 506 570">0 - None</td> <td data-bbox="674 553 779 570">Acknowledge</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 578 338 594">6 - Ack to offnormal</td> <td data-bbox="449 578 506 594">1 - Silence</td> <td data-bbox="674 578 842 594">Acknowledge and Silence</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 602 338 618">6 - Ack to offnormal</td> <td data-bbox="449 602 527 618">7 - Unsilence</td> <td data-bbox="674 602 863 618">Acknowledge and Unsilence</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="212 626 296 643">5 - Ack to fault</td> <td data-bbox="449 626 506 643">0 - None</td> <td data-bbox="674 626 779 643">Acknowledge</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			States			Commands on OPC Item Mode				OPC Item Acked Transitions	OPC Item Operation Expected	Result State	\	\	\	\	7 - Normal	0 - None	Normal					7 - Normal	4 - Reset	Reset					6 - Ack to offnormal	0 - None	Acknowledge					6 - Ack to offnormal	1 - Silence	Acknowledge and Silence					6 - Ack to offnormal	7 - Unsilence	Acknowledge and Unsilence					5 - Ack to fault	0 - None	Acknowledge				
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