

SIEMENS

OPC Interface Specifications Version 4.0

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>
	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 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.															
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #ffffcc;">States</th> <th colspan="3" style="background-color: #c1e1c1;">Commands on OPC Item Mode</th> </tr> <tr> <th style="background-color: #ffffcc;">OPC Item PresentValue</th> <th style="background-color: #ffffcc;">OPC Item Mode</th> <th style="background-color: #ffffcc;">Result State</th> <th style="background-color: #c1e1c1;">283 - Activate</th> <th style="background-color: #c1e1c1;">\</th> <th style="background-color: #c1e1c1;">\</th> <th style="background-color: #c1e1c1;">\</th> </tr> </thead> </table>				States	Commands on OPC Item Mode			OPC Item PresentValue	OPC Item Mode	Result State	283 - Activate	\	\	\
States	Commands on OPC Item Mode																
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.					
			Commands on OPC Item Mode				
States							
	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 data-bbox="219 288 1016 319">States</th> <th colspan="4" data-bbox="1016 288 1686 319">Commands on OPC Item Mode</th> </tr> <tr> <th data-bbox="219 368 479 392">OPC Item PresentValue</th> <th data-bbox="479 368 730 392">OPC Item Mode</th> <th data-bbox="730 368 1016 392">Result State</th> <th data-bbox="1016 368 1189 392">\</th> <th data-bbox="1189 368 1361 392">\</th> <th data-bbox="1361 368 1534 392">\</th> <th data-bbox="1534 368 1686 392">\</th> </tr> </thead> <tbody> <tr> <td data-bbox="219 448 479 472">0-Quiet</td> <td data-bbox="479 448 730 472">1-On</td> <td data-bbox="730 448 1016 472">Normal</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="219 480 479 504">2-Alarm</td> <td data-bbox="479 480 730 504">1-On</td> <td data-bbox="730 480 1016 504">Alarm</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="219 512 479 536">3-Fault</td> <td data-bbox="479 512 730 536">1-On</td> <td data-bbox="730 512 1016 536">Fault</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="219 544 479 568">5-Fault Alarm</td> <td data-bbox="479 544 730 568">1-On</td> <td data-bbox="730 544 1016 568">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				
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																																								

ID	Object Model	Description																										
STT20-0040	STT20 Binary Input	Binary Input.																										
<table border="1"> <thead> <tr> <th data-bbox="226 292 1016 308">States</th> <th colspan="4" data-bbox="1249 292 1469 308">Commands on OPC Item Mode</th> </tr> <tr> <th data-bbox="226 371 443 387">OPC Item PresentValue</th> <th data-bbox="483 371 667 387">OPC Item Mode</th> <th data-bbox="734 371 891 387">Result State</th> <th data-bbox="1093 371 1115 387">\</th> <th data-bbox="1272 371 1294 387">\</th> <th data-bbox="1451 371 1473 387">\</th> <th data-bbox="1630 371 1653 387">\</th> </tr> </thead> <tbody> <tr> <td data-bbox="226 451 443 467">0-Quiet</td> <td data-bbox="483 451 667 467">-</td> <td data-bbox="734 451 891 467">Normal</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="226 483 443 499">7-Active</td> <td data-bbox="483 483 667 499">-</td> <td data-bbox="734 483 891 499">Active</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	-	Normal					7-Active	-	Active				
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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.			
		States		Commands on OPC Item Mode	
	OPC Item PresentValue	OPC Item Mode	Result State	263 - Manual On	256 - Automatic On
	0-Quiet	1-On	Normal	X	
	22-Supervisory	263-On Manual	Manual Mode		X

ID	Object Model	Description														
STT20-0070	STT20 Standard DAS	Fire Actuation Device (DAS = Dispositifs Actionnés de Sécurité) to control, for example, Fire Doors, Fans, Elevators, Audio.														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" data-bbox="219 288 1016 319">States</th> <th colspan="4" data-bbox="1016 288 1686 319">Commands on OPC Item Mode</th> </tr> <tr> <th data-bbox="219 368 479 391">OPC Item PresentValue</th> <th data-bbox="479 368 734 391">OPC Item Mode</th> <th data-bbox="734 368 1016 391">Result State</th> <th data-bbox="1016 368 1189 391">\</th> <th data-bbox="1189 368 1361 391">\</th> <th data-bbox="1361 368 1534 391">\</th> <th data-bbox="1534 368 1686 391">\</th> </tr> </thead> </table>			States			Commands on OPC Item Mode				OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
States			Commands on OPC Item Mode													
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\										
0-Quiet	1-On	Normal														
3-Fault	1-On	Fault														
260-Safety Position Failed	1-On	Safety Position Failed														
261-Fault Safety Position Failed	1-On	Fault Safety Position Failed														
262-Safety Position	1-On	Safety Position														
263-Fault Safety Position	1-On	Fault Safety Position														
264-Wait Position Failed	1-On	Wait Position Failed														
265-In Command	1-On	In Command														
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).
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.																									
<table border="1"> <thead> <tr> <th data-bbox="219 288 1016 320">States</th> <th colspan="3" data-bbox="1016 288 1686 320">Commands on OPC Item Silenced</th> </tr> <tr> <th data-bbox="219 368 479 392">OPC Item Operation Expected</th> <th data-bbox="479 368 730 392">OPC Item Mode</th> <th data-bbox="730 368 1016 392">Result State</th> <th data-bbox="1016 368 1189 392">600 -Silence</th> <th data-bbox="1189 368 1361 392">\</th> <th data-bbox="1361 368 1534 392">\</th> <th data-bbox="1534 368 1686 392">\</th> </tr> </thead> <tbody> <tr> <td data-bbox="219 448 479 472">0 - None</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="219 472 479 496">1 - Silence</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>			States	Commands on OPC Item Silenced			OPC Item Operation Expected	OPC Item Mode	Result State	600 -Silence	\	\	\	0 - None							1 - Silence				X		
States	Commands on OPC Item Silenced																										
OPC Item Operation Expected	OPC Item Mode	Result State	600 -Silence	\	\	\																					
0 - None																											
1 - Silence				X																							

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		
OPC Item PresentValue	OPC Item Mode	Result State
-	-	-

Commands on OPC Item Mode			
\	\	\	\

ID	Object Model	Description																			
STT20-0120	STT20 Notification Class	Notification Class (internal BACnet communication).																			
<table border="1"> <thead> <tr> <th data-bbox="454 293 501 309">States</th> <th colspan="4" data-bbox="1249 293 1469 309">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="226 373 394 389">OPC Item PresentValue</td> <td data-bbox="483 373 595 389">OPC Item Mode</td> <td data-bbox="734 373 824 389">Result State</td> <td data-bbox="1093 373 1106 389">\</td> <td data-bbox="1263 373 1276 389">\</td> <td data-bbox="1433 373 1447 389">\</td> <td data-bbox="1603 373 1617 389">\</td> </tr> <tr> <td data-bbox="226 453 226 469">-</td> <td data-bbox="483 453 483 469">-</td> <td data-bbox="734 453 734 469">-</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	\	\	\	\	-	-	-				
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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	276 - Reset Alarm	\	\
	0-Quiet	1-On	Normal	X			
	2-Alarm	7-Prearmed	Alarm	X			
	5-Fault & Alarm	7-Prearmed	Fault & Alarm	X			
	3-Fault	1-On	Fault	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 - Manual On
						4 - Automatic On
						\
						\
			0-Quiet	1-On	Normal	X
			22-Supervisory	1-On	Manual	X

ID	Object Model	Description				
STT20-0160	STT20 Legacy Function	Standard STT20 functions.				
			Commands on OPC Item Mode			
States						
OPC Item PresentValue	OPC Item Mode	Result State	283-Activate	276-Deactivate	\	\
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.																					
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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.																					
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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.												
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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.												
<table border="1"> <thead> <tr> <th data-bbox="454 296 1016 316">States</th> <th colspan="4" data-bbox="1249 296 1686 316">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="226 371 465 391">OPC Item PresentValue</td> <td data-bbox="472 371 734 391">OPC Item Mode</td> <td data-bbox="741 371 1016 391">Result State</td> <td data-bbox="1023 371 1189 391">\</td> <td data-bbox="1196 371 1361 391">\</td> <td data-bbox="1368 371 1534 391">\</td> <td data-bbox="1541 371 1686 391">\</td> </tr> </tbody> </table>			States	Commands on OPC Item Mode				OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
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							
STT11-0240	STT11 Ouput 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 - Automatic On	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.														
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