

# **SIEMENS**

**OPC Interface Specifications Version 3.0**

**AlgoRex CS11 and FC700A**

Document No. A6V11194388  
Edition 07-2017

## CS11/FC700A Fire Panel

This workbook describes the objects provided by the Siemens OPC Data Access Server to represent the CS11 and FC700A 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											
CS11-0010	CS11 Unit	The CS11 system object, which holds all the device panels of the system.											
<table border="1"> <thead> <tr> <th data-bbox="411 358 453 375">States</th> <th colspan="3" data-bbox="1100 358 1297 375">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="205 431 359 448">OPC Item PresentValue</td> <td data-bbox="432 431 537 448">OPC Item Mode</td> <td data-bbox="663 431 747 448">Result State</td> <td data-bbox="957 431 978 448">\</td> <td data-bbox="1104 431 1125 448">\</td> <td data-bbox="1272 431 1293 448">\</td> <td data-bbox="1419 431 1440 448">\</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
CS11-0020	CK11 Unit	The Application object represents the events related to the entire CK11 system.
States		
OPC Item PresentValue	OPC Item Mode	Result State
Commands on OPC Item Mode		

ID	Object Model	Description
CS11-0030	CC11 Unit	The Application object represents the events related to the entire CC11 system.
States		
OPC Item PresentValue	OPC Item Mode	Result State
Commands on OPC Item Mode		

ID	Object Model	Description												
CS11-0040	CK11/CC11 BACnet Device	BACnet Device representing the communication characteristics of the CK11 and CC11 unit.												
<table border="1"> <thead> <tr> <th data-bbox="411 358 453 375">States</th> <th colspan="4" data-bbox="1100 358 1297 375">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="205 431 359 448">OPC Item PresentValue</td> <td data-bbox="432 431 537 448">OPC Item Mode</td> <td data-bbox="663 431 747 448">Result State</td> <td data-bbox="957 431 978 448">\</td> <td data-bbox="1104 431 1125 448">\</td> <td data-bbox="1272 431 1293 448">\</td> <td data-bbox="1419 431 1440 448">\</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
CS11-0050	CC11 Base Object	Generic elements used mainly to handle various information about peripherals, IO devices and controllers.
States		
OPC Item PresentValue	OPC Item Mode	Result State
Commands on OPC Item Mode		

ID	Object Model	Description				
CS11-0060	CC11 Building Service Section	Type of section made up of zones (and in turn elements) that monitor or control devices for general services in the supervised building.				
			<b>States</b>			
			<b>Commands on OPC Item Mode</b>			
			0-Disable	1-Enable	\	\
OPC Item PresentValue	OPC Item Mode	Result State				
0-Quiet	1-Normal	Normal	X			
267-Non Default Mode	0-Disabled	Disabled			X	
2-Alarm	1-Normal	Alarm	X			
3-Fault	1-Normal	Fault	X			
7-Active	1-Normal	Activated	X			



ID	Object Model	Description				
CS11-0070	CC11 Building Service Zone	Type of zone, made up of elements, that monitors or controls devices for general services in the supervised building				
			<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>0-Disable</b>
						<b>1-Enable</b>
						<b>269-Activate</b>
						<b>276-Deactivate</b>
	<b>0-Quiet</b>	<b>1-Normal</b>	<b>Normal</b>			X
	<b>267-Non Default Mode</b>	<b>0-Disabled</b>	<b>Disabled</b>		X	
	<b>3-Fault</b>	<b>1-Normal</b>	<b>Fault</b>	X		
	<b>7-Active</b>	<b>1-Normal</b>	<b>Activated</b>	X		X

ID	Object Model	Description				
CS11-0080	CC11 Digital Input	Specific sensors which handle different information from the detection devices.				
<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>0-Disable</b>	<b>1-Enable</b>	<b>\</b>	<b>\</b>
0-Quiet	1-Normal	Normal	X			
267-Non Default Mode	0-Disabled	Disabled		X		
3-Fault	1-Normal	Fault	X			
7-Active	1-Normal	Activated	X			
16-Abnormal	1-Normal	Abnormal	X			
10-Test Active	2-Test	Test	X			

ID	Object Model	Description				
CS11-0090	CC11 Digital Output	Specific channels used to activate different external IO devices.				
<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>0-Disable</b>	<b>1-Enable</b>	<b>269-Activate</b>	<b>276-Deactivate</b>
0-Quiet	1-Normal	Normal	X		X	
267-Non Default Mode	0-Disabled	Disabled		X		
3-Fault	1-Normal	Fault	X			
7-Active	1-Normal	Activated	X			X

ID	Object Model	Description				
CS11-0100	CC11 Ext. Release Disable	Logical unit used to enable/disable different extinguishing releaser modes.				
			<b>Commands on OPC Item Mode</b>			
<b>States</b>						
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>	<b>11-Enable</b>	<b>12-Disable</b>	<b>13-Disable Automatic</b>	<b>277-Disable Manual</b>
0-Quiet	1-Normal	Normal		X	X	X
267-Non Default Mode	12-Disabled	Disabled	X		X	X
267-Non Default Mode	13-Automatic Release Disabled	Disabled Automatic	X	X		X
267-Non Default Mode	277-Manual Release Disabled	Disabled Manual	X	X	X	
259-Extinguishing Released	1-Normal	Released		X	X	X
259-Extinguishing Released	13-Automatic Release Disabled	Released Manual	X	X		X
259-Extinguishing Released	277-Manual Release Disabled	Released Automatic	X	X	X	

ID	Object Model	Description				
CS11-0110	CC11 Ext. Release Fault	Logical unit used to monitor fault events for the extinguishing releaser device.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			\	\	\	\

ID	Object Model	Description	Commands on OPC Item Mode								
CS11-0120	CC11 Extinguishing Section	Type of section made up of zones (and in turn elements) that provides and controls the extinguishing release in the supervised building.	States			0-Disable	1-Enable	1-Normal	2-Test	9-Fast	
			OPC Item PresentValue	OPC Item Mode	Result State						
			0-Quiet	1-Normal	Normal	X				X	X
			267-Non Default Mode	0-Disabled	Disabled		X			X	X
			258-Extinguishing Warning	1-Normal	Extinguishing Alarm	X				X	X
			2-Alarm	1-Normal	Alarm	X				X	X
			20-Local Alarm	1-Normal	Automatic Extinguishing Alarm	X				X	X
			21-General Alarm	1-Normal	Manual Extinguishing Alarm	X				X	X
			1-Pre Alarm	1-Normal	Warning	X				X	X
			267-Non Default Mode	9-Fast	Fast	X		X		X	
10-Test Active	2-Test	Test	X		X			X			

ID	Object Model	Description	Commands on OPC Item Mode								
CS11-0130	CC11 Ext. Sprinkler Zone	Type of zone, made up of elements, mainly sprinklers, that monitors and controls the extinguishing release via sprinkler in the supervised building.	States			0-Disable	1-Enable	1-Normal	2-Test	9-Fast	
			OPC Item PresentValue	OPC Item Mode	Result State						
			0-Quiet	1-Normal	Normal	X				X	X
			258-Extinguishing Warning	1-Normal	Extinguishing Warning	X			X	X	
			267-Non Default Mode	0-Disabled	Disabled		X		X	X	
			6-Not Ready	0-Disabled	Not Ready		X		X	X	
			267-Non Default Mode	2-Test	Test	X		X		X	
			267-Non Default Mode	9-Fast	Fast	X		X	X		
			2-Alarm	1-Normal	Alarm	X			X	X	
			1-Pre Alarm	1-Normal	Warning	X			X	X	
			20-Local Alarm	1-Normal	Extinguishing Alarm	X			X	X	
			3-Fault	1-Normal	Fault	X			X	X	

ID	Object Model	Description												
FC700A-0140	FC700A Unit	The Application object represents the events related to the entire FC700A system.												
<table border="1"> <thead> <tr> <th data-bbox="415 358 520 375">States</th> <th colspan="4" data-bbox="1108 358 1360 375">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="205 431 394 448">OPC Item PresentValue</td> <td data-bbox="436 431 604 448">OPC Item Mode</td> <td data-bbox="667 431 814 448">Result State</td> <td data-bbox="961 431 1045 448">\</td> <td data-bbox="1108 431 1192 448">\</td> <td data-bbox="1255 431 1339 448">\</td> <td data-bbox="1423 431 1495 448">\</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												
FC700A-0150	FC700A System	The FC700A system object which holds all the device panels of the system.												
<table border="1"> <thead> <tr> <th data-bbox="415 358 457 375">States</th> <th colspan="4" data-bbox="1100 358 1304 375">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="205 431 359 448">OPC Item PresentValue</td> <td data-bbox="436 431 541 448">OPC Item Mode</td> <td data-bbox="663 431 747 448">Result State</td> <td data-bbox="961 431 982 448">\</td> <td data-bbox="1115 431 1136 448">\</td> <td data-bbox="1268 431 1289 448">\</td> <td data-bbox="1421 431 1442 448">\</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												
FC700A-0180	FG700A	The Application object represents the events related to the entire FG700A system.												
<table border="1"> <thead> <tr> <th data-bbox="415 358 457 375">States</th> <th colspan="4" data-bbox="1100 358 1310 375">Commands on OPC Item Mode</th> </tr> </thead> <tbody> <tr> <td data-bbox="205 431 373 448">OPC Item PresentValue</td> <td data-bbox="436 431 541 448">OPC Item Mode</td> <td data-bbox="667 431 751 448">Result State</td> <td data-bbox="961 431 982 448">\</td> <td data-bbox="1119 431 1140 448">\</td> <td data-bbox="1276 431 1297 448">\</td> <td data-bbox="1434 431 1455 448">\</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				
CS11-0170	CC11 Fire Area	The main logical unit which collects all the events coming from its sections and manages the operational mode (day/night).				
			<b>States</b>			
			<b>Commands on OPC Item Mode</b>			
			3-Manned	4-Unmanned	\	\
<b>OPC Item PresentValue</b>			<b>OPC Item Mode</b>			<b>Result State</b>
0-Quiet			4-Unmanned			Normal
20-Local Alarm			4-Unmanned			Local Alarm
21-General Alarm			4-Unmanned			General Alarm
267-Non Default Mode			3-Manned			Manned
20-Local Alarm			3-Manned			Manned and Local Alarm
21-General Alarm			3-Manned			Manned and General Alarm

ID	Object Model	Description				
CS11-0180	CC11 Fire Detector	Logical channels used in the detection domain for fire detection.				
			<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>0-Disable</b>	<b>1-Enable</b>	<b>\</b>
<b>0-Quiet</b>	<b>1-Normal</b>	<b>Normal</b>		X		
<b>3-Fault</b>	<b>1-Normal</b>	<b>Fault</b>		X		
<b>10-Test Active</b>	<b>2-Test</b>	<b>Test</b>		X		
<b>16-Abnormal</b>	<b>1-Normal</b>	<b>Abnormal</b>		X		
<b>267-Non Default Mode</b>	<b>0-Disabled</b>	<b>Disabled</b>			X	
<b>6-Not Ready</b>	<b>0-Disabled</b>	<b>Not Ready</b>			X	
<b>7-Active</b>	<b>1-Normal</b>	<b>Activated</b>		X		

ID	Object Model	Description				
CS11-0190	CC11 Fire Manual Zone	The Manual Zone handles the raw alarm information coming from manual call point.				
			<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>0-Disable</b>	<b>1-Enable</b>	<b>1-Normal</b>	<b>2-Test</b>
0-Quiet	1-Normal	Normal	X			X
267-Non Default Mode	0-Disabled	Disabled		X		X
6-Not Ready	0-Disabled	Not Ready		X		X
267-Non Default Mode	2-Test	Test	X		X	
20-Local Alarm	1-Normal	Local Alarm	X			X
3-Fault	1-Normal	Fault	X			X
2-Alarm	1-Normal	Alarm	X			X

ID	Object Model	Description	Commands on OPC Item Mode										
CS11-0200	CC11 Fire Section	Type of section made up of zones (and in turn elements) that provides and controls fire detection in the supervised building.	States			0-Disable	1-Enable	2-Test	9-Fast	1-Normal	256-Manual Off	257-Automatic Off	
			OPC Item PresentValue	OPC Item Mode	Result State								
			0-Quiet	1-Normal	Normal	X			X	X		X	X
			267-Non Default Mode	0-Disabled	Disabled		X		X	X		X	
			267-Non Default Mode	2-Test	Test	X				X	X	X	X
267-Non Default Mode	9-Fast	Fast	X			X		X	X	X			

ID	Object Model	Description	Commands on OPC Item Mode								
CS11-0210	CC11 Flow Switch Hong Kong	Country-specific zone.	States			0-Disable	1-Enable	1-Normal	2-Test	9-Fast	
			OPC Item PresentValue	OPC Item Mode	Result State						
			0-Quiet	1-Normal	Normal	X				X	X
			7-Active	1-Normal	Activated	X			X	X	
			267-Non Default Mode	0-Disabled	Disabled		X		X	X	
			6-Not Ready	0-Disabled	Not Ready		X		X	X	
			267-Non Default Mode	2-Test	Test	X		X		X	
			267-Non Default Mode	9-Fast	Fast	X		X	X		
			1-Pre Alarm	1-Normal	Warning	X			X	X	

ID	Object Model	Description	Commands on OPC Item Mode					
CS11-0220	CC11 Legacy Ext. Sprinkler Zone	Type of zone, made up of elements, mainly sprinklers, that monitors and controls the extinguishing release via sprinkler in the supervised building.						
		<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>0-Disable</b>	<b>1-Enable</b>	<b>1-Normal</b>	<b>2-Test</b>
		0-Quiet	1-Normal	Normal	X			X
		267-Non Default Mode	0-Disabled	Disabled		X		X
		258-Extinguishing Warning	1-Normal	Extinguishing Alarm	X			X
		2-Alarm	1-Normal	Alarm	X			X
		8-Not Ready	0-Disabled	Not Ready		X		X
		267-Non Default Mode	2-Test	Test	X		X	
		1-Pre Alarm	1-Normal	Warning	X			X
		3-Fault	1-Normal	Fault	X			X
267-Non Default Mode	9-Fast	Fast	X		X	X		
20-Local Alarm	1-Normal	Local Alarm	X			X		



ID	Object Model	Description				
CS11-0230	CC11 Line Module	Line Modules used to monitor, control, and trigger various internal and external devices.				
<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>0-Disable</b>	<b>1-Enable</b>	<b>\</b>	<b>\</b>
0-Quiet	1-Normal	Normal	X			
267-Non Default Mode	0-Disabled	Disabled		X		
2-Alarm	1-Normal	Alarm				
3-Fault	1-Normal	Fault	X			

ID	Object Model	Description	Commands on OPC Item Mode									
CS11-0240	CC11 Multi Fire Zone	The Multi Fire Zone handles the raw alarm information coming from various fire/smoke detectors.	States			0-Disable	1-Enable	1-Normal	2-Test	9-Fast	8-Slow	
			OPC Item PresentValue	OPC Item Mode	Result State							
			0-Quiet	1-Normal	Normal	X			X	X	X	
			267-Non Default Mode	0-Disabled	Disabled		X		X	X	X	X
			267-Non Default Mode	2-Test	Test	X		X		X	X	
			267-Non Default Mode	9-Fast	Fast	X		X	X		X	
			267-Non Default Mode	8-Slow	Slow	X		X	X	X		
			1-Pre Alarm	1-Normal	Warning	X			X	X	X	
			2-Alarm	1-Normal	Alarm	X			X	X	X	
			6-Not Ready	0-Disabled	Not Ready		X		X	X	X	X
			258-Extinguishing Warning	1-Normal	Extinguishing Warning	X			X	X	X	
			21-General Alarm	1-Normal	Extinguishing Alarm	X			X	X	X	
			20-Local Alarm	1-Normal	Isolated Alarm	X			X	X	X	

ID	Object Model	Description				
CS11-0250	CC11 RT Controller Alarm	Logical channel exclusively used in the control domain to enable/disable controls.				
			<b>States</b>			
			<b>Commands on OPC Item Mode</b>			
			269-Activate	\	\	\
			X			
			0-Quiet	1-Normal	Normal	
			267-Non Default Mode	0-Disabled	Disabled	

ID	Object Model	Description				
CS11-0260	CC11 Switching Zone	The Switching Zone handles the raw alarm information coming from its elements/detectors.				
<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>0-Disable</b>	<b>1-Enable</b>	<b>\</b>	<b>\</b>
0-Quiet	1-Normal	Normal	X			
267-Non Default Mode	0-Disabled	Disabled		X		
3-Fault	1-Normal	Fault	X			
7-Active	1-Normal	Activated	X			

ID	Object Model	Description				
CS11-0270	CC11 VDS Key Cabinet	Logical unit which holds information and alarms related to the VDS key cabinet.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			\	\	\	\

ID	Object Model	Description						
CS11-0280	CS11/FC700A 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	Commands on OPC Item Operation Expected			
			OPC Item Acked Transitions	OPC Item Operation Expected	Result State	1-Ack to offnormal	2-Ack to fault	4-Reset
			7 - Normal	0 - None	Normal			
			6 - Ack to offnormal	1 - Silence	Alarm	X		
			5 - Ack to fault	0 - None	Fault		X	
			7 - Normal	4 - Reset	To reset			X

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

© Siemens Switzerland Ltd 2017  
Technical specifications and availability subject to change without notice.