

# **SIEMENS**

## **OPC Interface Specifications Version 2.1**

### **MXL**

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**Building Technologies**

## MXL Fire Panel

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

### Legend

ID	Object Model	Description																																									
<ID>	<Object Model>	<Description>																																									
		<table border="1"> <thead> <tr> <th colspan="2">States</th> <th colspan="4">Commands on OPC Item Mode</th> </tr> <tr> <th>OPC Item PresentValue</th> <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>	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				
States		Commands on OPC Item Mode																																									
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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 *Appendix C: Example of Exported CSV File* in the *OPC Server Manual*).

ID	Object Model	Description				
MXL-0010	MXL Audio Control Module	Master Control Modules for MXLV audio systems.				
			States		Commands on OPC Item Mode	
OPC Item PresentValue	OPC Item Mode	Result State	4 - Enable	5 - Disable	\	\
0 - Quiet	1 - Normal	Normal		X		
3 - Fault	1 - Normal	Fault		X		
268 - Non Default Mode	12 - Disabled	Disabled	X			

ID	Object Model	Description				
MXL-0020	MXL Audio Supervision Device	Audio Supervision Card for amplifiers outputs supervision.				
			States		Commands on OPC Item Mode	
	OPC Item PresentValue	OPC Item Mode	Result State	4 - Enable	5 - Disable	\
	0 - Quiet	1 - Normal	Normal		X	\
	3 - Fault	1 - Normal	Fault		X	
	268 - Non Default Mode	12 - Disabled	Disabled	X		

ID	Object Model	Description				
MXL-0030	MXL Audio Voice Module	Digital Message Card for MXLV audio systems.				
			States		Commands on OPC Item Mode	
OPC Item PresentValue	OPC Item Mode	Result State	4 - Enable	5 - Disable	\	\
0 - Quiet	1 - Normal	Normal		X		
3 - Fault	1 - Normal	Fault		X		
268 - Non Default Mode	12 - Disabled	Disabled	X			

ID	Object Model	Description							
MXL-0040	MXL Audio Zone Device	Modules for audio amplification supervision and channel audio enhancements.							
			States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	6 - Activate	7 - Deactivate	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output	
0 - Quiet	1 - Normal	Normal	X	X	X	X	X	X	
2 - Alarm	1 - Normal	Alarm	X	X	X	X	X	X	
3 - Fault	1 - Normal	Fault	X	X	X	X	X	X	
268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X	X	X	

ID	Object Model	Description				
MXL-0050	MXL Control Zone Device	Modules for fan, LED, speaker strobe zones control.				
			<b>Commands on OPC Item Mode</b>			
<b>States</b>						
OPC Item PresentValue	OPC Item Mode	Result State	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output
0 - Quiet	1 - Normal	Normal	X	X	X	X
2 - Alarm	1 - Normal	Alarm	X	X	X	X
3 - Fault	1 - Normal	Fault	X	X	X	X
268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X

ID	Object Model	Description
MXL-0080	MXL Conventional Module	Module providing auxiliary control of building functions, such as door holder release, elevator capture, smoke control, lock release, and so on.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
268 - Non Default Mode	12 - Disabled	Disabled
<b>Commands on OPC Item Mode</b>		
4 - Enable		
5 - Disable		
\		
\		
X		
X		
X		



ID	Object Model	Description				
MXL-0070	MXL Conventional Zone Device	Intelligent devices to connect a single zone of conventional devices to an analog loop.				
			States		Commands on OPC Item Mode	
	OPC Item PresentValue	OPC Item Mode	Result State	4 - Enable	5 - Disable	\
	0 - Quiet	1 - Normal	Normal		X	\
	3 - Fault	1 - Normal	Fault		X	
	268 - Non Default Mode	12 - Disabled	Disabled	X		

ID	Object Model	Description				
MXL-0080	MXL Default Module	Modules for output supervision especially for voice applications.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			0 - Quiet	1 - Normal	Normal	4 - Enable
			3 - Fault	1 - Normal	Fault	5 - Disable
			268 - Non Default Mode	12 - Disabled	Disabled	\
						\
						X
						X
						X

ID	Object Model	Description				
MXL-0090	MXL Detector Device	Smoke and fire detectors.				
			States		Commands on OPC Item Mode	
OPC Item PresentValue	OPC Item Mode	Result State	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output
0 - Quiet	1 - Normal	Normal	X	X	X	X
2 - Alarm	1 - Normal	Alarm	X	X	X	X
3 - Fault	1 - Normal	Fault	X	X	X	X
268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X

ID	Object Model	Description				
MXL-0100	MXL Fire Detecor Device	Smoke and fire detectors.				
			States		Commands on OPC Item Mode	
OPC Item PresentValue	OPC Item Mode	Result State	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output
0 - Quiet	1 - Normal	Normal	X	X	X	X
2 - Alarm	1 - Normal	Alarm	X	X	X	X
3 - Fault	1 - Normal	Fault	X	X	X	X
268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X

ID	Object Model	Description	Commands on OPC Item Mode								
MXL-0110	MXL IO Device	Addressable interface modules.	States			6 - Activate	7 - Deactivate	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output
			OPC Item PresentValue	OPC Item Mode	Result State						
			0 - Quiet	1 - Normal	Normal	X	X	X	X	X	X
			2 - Alarm	1 - Normal	Alarm	X	X	X	X	X	X
			3 - Fault	1 - Normal	Fault	X	X	X	X	X	X
			267 - Non Default Mode	1 - Normal	Security	X	X	X	X	X	X
			268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X	X	X

ID	Object Model	Description
MXL-0120	MXL Loop Module	Analog loop driver.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
268 - Non Default Mode	12 - Disabled	Disabled

ID	Object Model	Description					
MXL-0130	MXL Manual Station Device	Manual pull station.					
			<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>33 - Enable Input</b>	<b>34 - Disable Input</b>	<b>35 - Enable Output</b>	<b>36 - Disable Output</b>
	0 - Quiet	1 - Normal	Normal	X	X	X	X
	2 - Manual Fire Alarm	1 - Normal	Alarm	X	X	X	X
	3 - Fault	1 - Normal	Fault	X	X	X	X
	268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X

ID	Object Model	Description
MXL-0140	MXL Network Interface Module	Network interface modem module.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
268 - Non Default Mode	12 - Disabled	Disabled



ID	Object Model	Description							
MXL-0150	MXL Output Device	Output device for remote annunciation.							
			States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	6 - Activate	7 - Deactivate	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output	
0 - Quiet	1 - Normal	Normal	X	X	X	X	X	X	
2 - Alarm	1 - Normal	Alarm	X	X	X	X	X	X	
3 - Fault	1 - Normal	Fault	X	X	X	X	X	X	
268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X	X	X	

ID	Object Model	Description						
MXL-0160	MXL Panel	MXL node.						
		States		Commands on OPC Item Mode				
		OPC Item PresentValue	OPC Item Mode	Result State	4 - Connect	5 - Disconnect	\	\
		0 - Reachable	1 - Normal	Normal	X	X		
		3 - Not Reachable	1 - Normal	Not Reachable	X	X		
		267 - Non Default Mode	1 - Normal	Security	X	X		
268 - Disconnected	12 - Disabled	Disconnected	X	X				

ID	Object Model	Description
MXL-0170	MXL Panel Module	Main control board.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
268 - Non Default Mode	12 - Disabled	Disabled

ID	Object Model	Description
MXL-0180	MXL Power Supply Module	Main, remote, and extender power supply.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
267 - Non Default Mode	1 - Normal	Security
268 - Non Default Mode	12 - Disabled	Disabled

ID	Object Model	Description
MXL-0190	MXL Pseudo Device	Non-existing device used for logic function purposes.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
267 - Non Default Mode	1 - Normal	Security
268 - Non Default Mode	12 - Disabled	Disabled

ID	Object Model	Description
MXL-0200	MXL Pseudo Module	Non-existing module used for logic function purposes.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
3 - Fault	1 - Normal	Fault
268 - Non Default Mode	12 - Disabled	Disabled

ID	Object Model	Description				
MXL-0210	MXL SLT Device	Municipal Tie and Leased Line modules.				
			States		Commands on OPC Item Mode	
OPC Item PresentValue	OPC Item Mode	Result State	4 - Enable	5 - Disable	\	\
0 - Quiet	1 - Normal	Normal		X		
3 - Fault	1 - Normal	Fault		X		
0 - Quiet	12 - Disabled	Disabled	X			

ID	Object Model	Description						
<b>MXL-0220</b>	<b>MXL TRI Device</b>	Addressable interface modules compatible with ALD loop circuit.						
<b>States</b>			<b>Commands on OPC Item Mode</b>					
OPC Item PresentValue	OPC Item Mode	Result State	6 - Activate	7 - Deactivate	33 - Enable Input	34 - Disable Input	35 - Enable Output	36 - Disable Output
0 - Quiet	1 - Normal	Normal	X	X	X	X	X	X
2 - Alarm	1 - Normal	Alarm	X	X	X	X	X	X
3 - Fault	1 - Normal	Fault	X	X	X	X	X	X
267 - Non Default Mode	1 - Normal	Security	X	X	X	X	X	X
268 - Non Default Mode	12 - Disabled	Disabled	X	X	X	X	X	X



ID	Object Model	Description
MXL-0230	MXL Unidentified	Unidentified event objects.
<b>States</b>		
<b>OPC Item PresentValue</b>	<b>OPC Item Mode</b>	<b>Result State</b>
0 - Quiet	1 - Normal	Normal
2 - Alarm	1 - Normal	Alarm
3 - Fault	1 - Normal	Fault
267 - Non Default Mode	1 - Normal	Security
268 - Non Default Mode	12 - Disabled	Disabled

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