

SIEMENS

***MK8000 OPC Server Interface
Specification for Simatrix CCTV***

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Simatrix CCTV

The Simatrix is a CCTV crossbar, capable of connecting CCTV cameras and video monitor for local and distributed video surveillance systems. It also provides support for security alarm handling, and camera fault detection.

Depending on the hardware configuration - specifically the models 16-4, 64-8, and SYS - the matrix can connect 16, 64, or 256 cameras, and 4, 8, or 64 monitors. The connection to DMS host is based on a RS2323 serial line, and on the CDDL/CDSF protocol.

The alarm states in Simatrix can be triggered by digital inputs on hardware contacts, or via alarm messages from DMS host. Simatrix foresees up to three types of alarm modes, and they are different depending on the way the alarm reset is handled:

- Manual alarms: Reset action is required from the operator;
- Automatic alarms: Reset action is not required;
- Stack alarms: Alarms are associated to cameras and stacked on the monitors - they get reset when the corresponding monitor is switched to another camera.

Note: If there is no Properties description, it is due to the fact that no properties exist for this item.

Simatrix CCTV - (ACCOAPMN)

The 'Symatrix Application' object represents the entire Symatrix and the geographical area it covers.

Multistate	Commands										
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man

1000 Quiet



No abnormal conditions present.

1369 Not Aligned

The control unit is not aligned to the field.

1999 Fault Ack

The communication is down. The event has been acknowledged.

Video In - (CCCOVIUD)

This object represents the status for the Video Input.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet

No abnormal conditions present.

1999 Fault Ack

The video camera is in fault. The event has been acknowledged.

Video Out - (CCCOVOUD)

These objects correspond to the monitors configured in Simatrix.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

1000 Quiet



No abnormal conditions present.

Stack Alarm Input - (CCCOAIGE)

This object represents the status for the Stack alarms that are accumulated on the CCTV monitors with a shifting technique (the cameras associated to the alarm are shown on the monitor according to a programmed priority), and then reset by switching the monitor to another camera.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

501 Alarm Ack

✓

✓

The stack alarm is in alarm. The event has been acknowledged.

1000 Quiet

✓

No abnormal conditions present.

1351 Anomaly Ack

✓

The event has been acknowledged.

1400 Disconnected

✓

The Stack alarm is disconnected.

Automatic Alarm Input - (CCCOIAIU)

This object represents the status of the Automatic Alarms.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

501 Alarm Ack

✓

The Automatic Alarm is in alarm. The event has been acknowledged.

1000 Quiet

✓

No abnormal conditions present.

1351 Anomaly Ack

✓

The event has been acknowledged.

1400 Disconnected

✓

The Automatic Alarm is disconnected.

Manual Alarm Input - (CCCOAIMA)

This object represents the status of the Manual Alarms.

Multistate	Commands											
	1-Ack	2-Reset	4-Arm	8-Disarm	16-Test	32-Active	64-Quiet	128-Disc	256-Conn	512-Block	1024-Man	2048-Status

502 Alarm Unreset

✓

✓

The manual alarm is active. The event should now be reset by the operator.

1000 Quiet

✓

No abnormal conditions present.

1351 Anomaly Ack

✓

The event has been acknowledged.

1400 Disconnected

✓

The Manual Alarm is disconnected.