

**SIEMENS**

***MK8000 OPC Server Interface  
Specification for CC11 EP7***

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## CC11 EP7

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The AlgoRex CS11 fire detection system represents the current generation of the SIEMENS fire detection technology.

CS11 AlgoRex Objects represent parts of the central control unit(s) as well as external distributed devices devoted to fire detection.

The central control units include the general conditions of the fire supervision system, whereas the distributed device objects are organised in a 4-level hierarchical structure:

- Areas: groups of sections, which can be controlled and managed as a whole.
- Sections: groups of zones that belong to the same building, floor or room, etc. The Section contains collective information about the affiliated detection zones and reflects the states of those zones.
- Zones: each zone represents one or more detector(s) (elements) that generate a unique latched alarm, that is, "acknowledge" and "reset" commands are required to clear the alarm; the Zone evaluates the alarm to verify whether the alarm is real or false based on the information supplied by the associated elements.
- Elements: elements are individual detectors that can report a dynamic state but don't generate a latched alarm. The detection elements evaluate the information supplied by physical sensors and digital inputs, and transmit the results to the higher-ranking zones.

Type 5 Object: There is one additional category that is outside of this 4-level structure. This category is made up of hardware components and controllers.

## CC11 - ( FINOAPMN )

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The Application object represents the events related to the entire CC11 detection system and the terminal that controls it.

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.

---

1351 Anomaly Ack

The Control Unit is partialy Reachable. The event has been acknowledged.

---

1369 Not Aligned

The control unit is not aligned with the field.

---

1370 Alignment In Progress

The control unit is not aligned with the field.

---

1999 Fault Ack

The Comunication with the control unit is down.

---

2051 Vitality Fault

Missing vitality message (heartbeat): trouble in the communication link.

---

## Fire Area - ( FINOARRO )

Fire Area represents the highest logical level in the CS11 logical structure

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

500 Alarm Unack                    ✓                                    ✓                                    ✓

The event should now be acknowledged by the operator.

502 Alarm Unreset                                    ✓                                    ✓                                    ✓

The system is in General Alarm state. The event should now be reset by the operator.

510 Alarm & Fault Unack                    ✓                                    ✓                                    ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack                                    ✓                                    ✓

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset                                    ✓                                    ✓                                    ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

800 Prealarm Unack                    ✓                                    ✓                                    ✓

The system is in local alarm state and the imminent general alarm. The event should now be acknowledged by the operator.

802 Prealarm Unreset                                    ✓                                    ✓                                    ✓

The event should now be reset by the operator.

810 Prealarm & Fault Unack                    ✓                                    ✓                                    ✓

This event is the combination of the Prealarm and Fault state. The event should now be acknowledged by the operator.

811 Prealarm & Fault Ack                                    ✓                                    ✓

This event is the combination of the Prealarm and Fault state. The event has been acknowledged.

812 Prealarm & Fault Unreset ✓ ✓ ✓

This event is the combination of the Prealarm and Fault state. The event should now be reset by the operator.

---

1000 Quiet ✓

The system is in Unmanned (Night) mode. No abnormal conditions present.

---

1300 Disarmed ✓

The system is in Manned (Day) mode.

---

1351 Anomaly Ack ✓ ✓

The system is partially Off. The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The system is partially Off. The event should now be acknowledged by the operator.

---

1999 Fault Ack ✓ ✓

The event has been acknowledged.

---

### RtController Alarm - ( FICORCAL )

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The RtController Alarm (RT = Remote Transmission) object represents the state of the `Alarm Remote Transmission Delay` within the Area. If the Alarm Remote Transmission Delay is switched off (disarmed) while an alarm event with RT requirements is pending,

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.

---

1300 Disarmed ✓

The time delay is off. The event has been acknowledged.

---

**rtDevice - ( FINORDGE )**

The Rt Device (RT = Remote Transmission) object represents the state of the 'Remote Transmission Device' associated to the Area.

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.

1329 Blocked Ack

The event has been acknowledged.

1330 Blocked Unack ✓

The remote transmission device is blocked. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The remote transmission device is in faulty condition. The event should now be acknowledged by the operator.



### Fire Section - ( FINOSEGE )

---

The Fire Section represents the logical level below the Area in the CS11 structure and reports the conditions of the affiliated detection zones.

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

500	Alarm Unack	✓			✓	✓						
-----	-------------	---	--	--	---	---	--	--	--	--	--	--

Some zone are in allarm. The event should now be acknowledged by the operator.

---

502	Alarm Unreset		✓		✓	✓						
-----	---------------	--	---	--	---	---	--	--	--	--	--	--

Some zone are in allarm. The event should now be reset by the operator.

---

1000	Quiet				✓	✓						
------	-------	--	--	--	---	---	--	--	--	--	--	--

No abnormal conditions present.

---

1100	Test				✓			✓				
------	------	--	--	--	---	--	--	---	--	--	--	--

The entire section is switched in test mode

---

1300	Disarmed		✓			✓						
------	----------	--	---	--	--	---	--	--	--	--	--	--

The entire section is switched off.

---

1351	Anomaly Ack				✓	✓						
------	-------------	--	--	--	---	---	--	--	--	--	--	--

The detector are in Fast reaction mode.

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Extinguishing Section - ( FIEXSEGE )

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
500	Alarm Unack	✓			✓			✓			✓	✓	
The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓		✓			✓			✓	✓	
The event should now be reset by the operator.													
510	Alarm & Fault Unack	✓			✓			✓			✓	✓	
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator													
511	Alarm & Fault Ack				✓			✓			✓	✓	
This event is the combination of the Alarm and Fault state. The event has been acknowledged.													
512	Alarm & Fault Unreset		✓		✓			✓			✓	✓	
This event is the combination of the Alarm and Fault state.The event should now be reset by the operator.													
800	Prealarm Unack	✓			✓			✓			✓	✓	
The event should now be acknowledged by the operator.													
802	Prealarm Unreset		✓		✓			✓			✓	✓	
The event should now be reset by the operator.													
810	Prealarm & Fault Unack	✓			✓			✓			✓	✓	
This event is the combination of the Prealarm and Fault state.The event should now be acknowledged by the operator.													
811	Prealarm & Fault Ack				✓			✓			✓	✓	
This event is the combination of the Prealarm and Fault state.The event has been acknowledged.													

812	Prealarm & Fault Unreset	✓	✓	✓	✓	✓
-----	--------------------------	---	---	---	---	---

This event is the combination of the Prealarm and Fault state. The event should now be reset by the operator.

946	Active Unack	✓	✓	✓	✓	✓
-----	--------------	---	---	---	---	---

The event should now be acknowledged by the operator.

948	Active Unreset	✓	✓	✓	✓	✓
-----	----------------	---	---	---	---	---

The event should now be reset by the operator.

1000	Quiet		✓	✓	✓	✓
------	-------	--	---	---	---	---

No abnormal conditions present.

1100	Test		✓		✓	✓
------	------	--	---	--	---	---

1300	Disarmed		✓		✓	✓
------	----------	--	---	--	---	---

1319	Manual Ack		✓	✓	✓	
------	------------	--	---	---	---	--

The event has been acknowledged.

1320	Manual Unack	✓	✓	✓	✓	
------	--------------	---	---	---	---	--

The event should now be acknowledged by the operator.

1329	Blocked Ack		✓	✓		✓
------	-------------	--	---	---	--	---

The event has been acknowledged.

1330	Blocked Unack	✓	✓	✓		✓
------	---------------	---	---	---	--	---

The event should now be acknowledged by the operator.

1351	Anomaly Ack		✓	✓	✓	✓
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The event has been acknowledged.

1999 Fault Ack



The event has been acknowledged.

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**Build. Serv. Section - ( BSCOSEGE )**

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The Building Services Section is a type of section made up of zones (and in turn elements) that monitor or control devices for general services in the supervised building.

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.

---

1300 Disarmed ✓

The entire section is switched off.

---

## Single Zone - ( FIDEZOSI )

The Single-Logic Fire Zone object represents a zone made up of a single detection element.

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

500 Alarm Unack ✓ ✓

The zone is in Alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The event should now be reset by the operator.

800 Prealarm Unack ✓ ✓

The zone is in pre alarmThe event should now be acknowledged by the operator.

802 Prealarm Unreset ✓ ✓

The event should now be reset by the operator.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓

The zone is switched in test mode. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The zone is switched off. The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The zone is in not ready or it is switched in fast/low reaction mode. The event should now be acknowledged by the operator.

---

## Multi Zone - ( FIDEZOMU )

In a Multi-Logic Fire Zone the alarm decision is based on the response of multiple detection elements affiliated with the zone. The conditions can be parameterised within the CC11.

	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
500	Alarm Unack	✓			✓								
The zone is in Alarm. The event should now be acknowledged by the operator.													
502	Alarm Unreset		✓		✓								
The event should now be reset by the operator.													
800	Prealarm Unack	✓			✓								
The zone is in pre alarmThe event should now be acknowledged by the operator.													
802	Prealarm Unreset		✓		✓								
The event should now be reset by the operator.													
1000	Quiet				✓	✓							
No abnormal conditions present.													
1105	Test Ack				✓					✓			
The event has been acknowledged.													
1106	Test Unack	✓			✓					✓			
The zone is switched in test mode. The event should now be acknowledged by the operator.													
1305	Disarmed Ack			✓		✓							
The event has been acknowledged.													
1306	Disarmed Unack	✓		✓		✓							
The zone is switched off. The event should now be acknowledged by the operator.													



1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The zone is in not ready or it is switched in fast/low reaction mode. The event should now be acknowledged by the operator.

---

## Extinguishing Zone Multi - ( FIEXZOMU )

In a Multi-Logic Extinguishing Zone, the alarm decision is based on the response of multiple detection elements affiliated with the zone. The basis upon which these decisions are made can be customised through the CC11.

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				
500	Alarm Unack	✓			✓												
The zone is in alarm. The event should now be acknowledged by the operator.																	
502	Alarm Unreset		✓		✓												
The event should now be reset by the operator.																	
800	Prealarm Unack	✓			✓												
The zone is in pre alarm state. The event should now be acknowledged by the operator.																	
802	Prealarm Unreset		✓		✓												
The event should now be reset by the operator.																	
1000	Quiet				✓	✓											
No abnormal conditions present.																	
1105	Test Ack				✓					✓							
The event has been acknowledged.																	
1106	Test Unack	✓			✓					✓							
The zone is switched in test mode. The event should now be acknowledged by the operator.																	
1305	Disarmed Ack			✓		✓											
The event has been acknowledged.																	
1306	Disarmed Unack	✓		✓		✓											
The zone is switched off. The event should now be acknowledged by the operator.																	

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The zone is switched in fast reaction mode or the zone is not ready. The event should now be acknowledged by the operator.

---

## Manual Zone - ( FIDEZOMA )

The Fire Zone Manual object represents a zone made up of manual call-points (emergency alarm buttons).

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

500 Alarm Unack ✓ ✓

The zone is in alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The event should now be reset by the operator.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓ ✓

The zone is switched in test mode. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The zone is switched off. The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓ ✓

The zone is not ready. The event should now be acknowledged by the operator.

## Extinguishing Sprinkler - ( FIEXZOSP )

The Extinguishing Sprinkler Zone object represents a zone that processes binary information. Associated extinguisher activators are set in alarm state with a YES/NO binary alarm signal.

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

500 Alarm Unack ✓ ✓

The zone is in alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The event should now be reset by the operator.

800 Prealarm Unack ✓ ✓

The zone is pre alarm state. The event should now be acknowledged by the operator.

802 Prealarm Unreset ✓ ✓

The event should now be reset by the operator.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓ ✓

The zone is switched in test mode. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The zone is switched off. The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The zone is not ready or it's switched in fast reaction mode. The event should now be acknowledged by the operator.

---

### Build. Serv. Binary Zone - ( BSDEZOBI )

The Building Services Binary Zone uses a binary trigger rather than danger threshold level triggers. A YES signal (element active) from an affiliated detector is enough to cause the alarm state.

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

500 Alarm Unack ✓ ✓

The zone is in alarm. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The event should now be reset by the operator.

800 Prealarm Unack ✓ ✓

The zone is pre alarm state. The event should now be acknowledged by the operator.

802 Prealarm Unreset ✓ ✓

The event should now be reset by the operator.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓ ✓

The zone is switched in test mode. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The zone is switched off. The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The zone is not ready or it's switched in fast reaction mode. The event should now be acknowledged by the operator.

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## Build. Serv. Zone Auto - ( BSCOZOAU )

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The Building Services Control Zone object represents a zone that can activate output control reactions based on a pre-programmed evaluation logic of the states of affiliated digital detection elements. It is similar to a programmable control zone but has

		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
946	Active Unack	✓		✓	✓								
The zone is active. The event should now be acknowledged by the operator.													
947	Active Ack			✓	✓								
The event has been acknowledged.													
1000	Quiet				✓								
No abnormal conditions present.													
1305	Disarmed Ack			✓									
The event has been acknowledged.													
1306	Disarmed Unack	✓		✓									
The zone is switched off. The event should now be acknowledged by the operator.													
1999	Fault Ack			✓	✓								
The event has been acknowledged.													
2000	Fault Unack	✓		✓	✓								
The fault is detected. The event should now be acknowledged by the operator.													

### Build. Serv. Zone Progr. - ( BSCOZOPG )

The Building Services Control Zone object represents a zone that generates (activates) a signal when it detects a state of danger. It evaluates whether a situation should be considered dangerous based on parameters that were configured into the zone. With

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

946 Active Unack ✓ ✓ ✓

The zone is active. The event should now be acknowledged by the operator.

947 Active Ack ✓ ✓

The event has been acknowledged.

1000 Quiet ✓ ✓

No abnormal conditions present.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The zone is switched off. The event should now be acknowledged by the operator.

1999 Fault Ack ✓ ✓ ✓

The event has been acknowledged.

2000 Fault Unack ✓ ✓ ✓ ✓

The fault conditions was detected. The event should now be acknowledged by the operator.

## Fire Detector Addr - ( FIDEDEAD )

The 'Fire Detector Addressable' element represents a fire detector for automatic alarm detection and individual identification

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

946 Active Unack ✓ ✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The detector is in test active state. The event has been acknowledged.

1146 Test-Active Unack ✓ ✓

The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The element is disconnected. The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓

An anomaly (drift) condition is generated when the detector requires maintenance (e.g. for being cleaned).The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓

The detector is in fault. The event should now be acknowledged by the operator.

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## Manual CallPoint - ( FIDECPGE )

The Fire Detector Call-point element represents an alarm pushbutton for manual alarm activation.

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

946 Active Unack ✓ ✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The event has been acknowledged.

1146 Test-Active Unack ✓ ✓

The detector is in test active state. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓

The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓

The event should now be acknowledged by the operator.

---

## Fire Detector Generic - ( FIDEDEGE )

The Fire Detector Generic element represents a fire detector for automatic alarm detection

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

946 Active Unack ✓ ✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The event has been acknowledged.

1146 Test-Active Unack ✓ ✓

The detector is in test active state. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓

The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓

The event should now be acknowledged by the operator.

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## Fire Detector Collective - ( FIDEDECO )

The Fire Detector collective element represents a detector of the series DS11-C for collective lines. This family of objects includes various detectors with different internal characteristics (pulse memory, delays), however, these do not appear on OPC ser

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

950 Active

✓

1000 Quiet

✓

No abnormal conditions present.

1140 Test-Active

1305 Disarmed Ack

✓

The event has been acknowledged.

1306 Disarmed Unack

✓

✓

The event should now be acknowledged by the operator.

1351 Anomaly Ack

The event has been acknowledged.

1998 Fault Unreset

✓

The event should now be reset by the operator.

2000 Fault Unack

✓

The event should now be acknowledged by the operator.

## Fire Detector Binary - ( FIDEDEBI )

The Fire Detector Binary element represents a fire detector that uses a simple on/off alarm logic.

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

946 Active Unack ✓ ✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The event has been acknowledged.

1146 Test-Active Unack ✓ ✓

The detector is in test active state. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓

The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓

The event should now be acknowledged by the operator.

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## Exting. Digital Input - ( FIEXDIGE )

Digital input objects represent generic digital input (e.g. contacts) elements, activated by sensors that signal alarm states to the CC11.

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

946 Active Unack ✓ ✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The event has been acknowledged.

1146 Test-Active Unack ✓ ✓

The detector is in test active state. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The detector is disarmed. The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

2000 Fault Unack ✓ ✓

The detector is in fault. The event should now be acknowledged by the operator.

### Build. Serv. Digital Input - ( BSDEDIGE )

Digital input elements represent generic digital inputs (e.g. contacts), activated by sensors for signalling alarm states to CC11

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

946 Active Unack ✓ ✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The event has been acknowledged.

1146 Test-Active Unack ✓ ✓

The detector is in test active state. The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓

The detector is disarmed. The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

2000 Fault Unack ✓ ✓

The detector is in fault. The event should now be acknowledged by the operator.

## Digital Output - ( BSDEDOGE )

Digital output objects represent output elements without feedback, activated to control simple external devices such as lamps etc. These elements do not have a feedback input, but can detect an internal fault.

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		
946	Active Unack	✓			✓			✓							
The detector is active. The event should now be acknowledged by the operator.															
947	Active Ack				✓			✓							
The event has been acknowledged.															
1000	Quiet				✓			✓							
No abnormal conditions present.															
1305	Disarmed Ack			✓				✓							
The event has been acknowledged.															
1306	Disarmed Unack	✓		✓				✓							
The digital Output is disarmed. The event should now be acknowledged by the operator.															
1999	Fault Ack				✓			✓							
The event has been acknowledged.															
2000	Fault Unack	✓			✓			✓							
The fault condition was detected. The event should now be acknowledged by the operator.															

## Supervised Output - ( BSDEDOSV )

Digital output represents output elements with feedback. They are activated to control complex external devices such as horns, door locks, etc. These elements have a feedback input, which is used to detect an unsuccessful activation.

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

946 Active Unack

✓

✓

✓

The detector is active. The event should now be acknowledged by the operator.

947 Active Ack

✓

✓

The event has been acknowledged.

1000 Quiet

✓

✓

No abnormal conditions present.

1305 Disarmed Ack

✓

✓

The event has been acknowledged.

1306 Disarmed Unack

✓

✓

✓

The output is off. The event should now be acknowledged by the operator.

1351 Anomaly Ack

✓

✓

The event has been acknowledged.

1352 Anomaly Unack

✓

✓

✓

The detector does not receive the feedback. The event should now be acknowledged by the operator.

1999 Fault Ack

✓

✓

The event has been acknowledged.

2000 Fault Unack

✓

✓

✓

The fault condition was detected. The event should now be acknowledged by the operator.

## Internal Horn - ( FICOHOIT )

The Internal Horn element represents an internal audio output that receives its control activation commands directly from the higher-ranking area. Typically, the internal horn is activated simultaneously with the buzzer on the CT11.

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

946 Active Unack ✓

The horn is sounding. The event should now be acknowledged by the operator.

947 Active Ack

The event has been acknowledged.

1000 Quiet

No abnormal conditions present.

1305 Disarmed Ack

The event has been acknowledged.

1306 Disarmed Unack ✓

The horn is disarmed. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The horn is in fault. The event should now be acknowledged by the operator.



## External Horn - ( FICOHOET )

The External Horn object represents the output to external devices that receives its control activation commands directly from the higher-ranking area. Typically, the external horn is activated in accordance with the Cerberus Alarm Concept (CAC) after exp

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

946 Active Unack ✓ ✓ ✓

The horn is sounding. The event should now be acknowledged by the operator.

947 Active Ack ✓ ✓

The event has been acknowledged.

1000 Quiet ✓ ✓

No abnormal conditions present.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The horn is disabled. The event should now be acknowledged by the operator.

1999 Fault Ack ✓ ✓

The event has been acknowledged.

2000 Fault Unack ✓ ✓ ✓

The horn is in fault. The event should now be acknowledged by the operator.

## RtChannel alarm - ( FICORHAL )

The RtChannel alarm object represents a remote transmission output for alarms. Remote transmission channels receive their control commands directly from the higher-ranking area. Typically they are activated in accordance with the Cerberus Alarm Concept (C)

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

946 Active Unack ✓

The RtChannel is active. The event should now be acknowledged by the operator.

947 Active Ack

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓

The RtChannel is disabled. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The RtChannel is in fault. The event should now be acknowledged by the operator.

## RtChannel Fault - ( FICORHFL )

The RtChannel fault object represents a remote transmission output for faults. Remote transmission channels receive their control commands directly from the higher-ranking area. Typically they are activated in accordance with the Cerberus Alarm Concept (C)

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

946 Active Unack ✓

The RtChannel is active. The event should now be acknowledged by the operator.

947 Active Ack

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓

The RtChannel is disabled. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The RtChannel is in fault. The event should now be acknowledged by the operator.

## RtChannel Other - ( FICORHOT )

The RtChannel Other object represents a remote transmission output for other events. Remote transmission channels receive their control commands directly from the higher-ranking area. Typically it is activated in accordance with the Cerberus Alarm Concept

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

946 Active Unack ✓

The RtChannel is active. The event should now be acknowledged by the operator.

947 Active Ack

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1305 Disarmed Ack ✓

The event has been acknowledged.

1306 Disarmed Unack ✓

The RtChannel is disabled. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The RtChannel is in fault. The event should now be acknowledged by the operator.

## Addressable Detection Line - ( HWNODCAD )

The Addressable Detection Line object reports alarms and faults that, for some technical reasons, cannot be addressed on the detection zones

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

500 Alarm Unack ✓

The collective Alarm was detected. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

1305 Disarmed Ack

The event has been acknowledged.

1306 Disarmed Unack ✓

The detection line is disarmed. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack



The detection line is in fault. The event should now be acknowledged by the operator.

---

### Collective Detection Line - ( HWNODCCO )

The Collective Detection Line object reports faults on a collective line.

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

500 Alarm Unack ✓

The collective Alarm was detected. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

**Controller Binary I/O - ( HWNOICBI )**

---

Representation of a digital I/O module.

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 event has been acknowledged.

---

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

---



**Power Supply - ( HWNOPSGE )**

---

The Power Supply object reports the conditions determined by power supply monitoring logic

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 event has been acknowledged.

---

2000 Fault Unack ✓

The power supply is in fault. The event should now be acknowledged by the operator.

---

## Vds I/O Controller - ( HWVDICRO )

---

The VDS I/O controller object covers the fault states of the interface and Fire Brigade panel approved by VDS norms

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 event has been acknowledged.

---

2000 Fault Unack



The event should now be acknowledged by the operator.

---

## Vds Remote Trasmission - ( HWVDRCGE )

The VDS Remote Transmission object covers the states of the remote transmission device approved by VDS norms.

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

946 Active Unack ✓

The Remote trasmission is active. The event should now be acknowledged by the operator.

947 Active Ack

The event has been acknowledged.

1000 Quiet

No abnormal conditions present.

1105 Test Ack

The event has been acknowledged.

1106 Test Unack ✓

The object is in test active. The event should now be acknowledged by the operator.

1305 Disarmed Ack

The event has been acknowledged.

1306 Disarmed Unack ✓

The object is disarmed. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack ✓

The fault conditions was detect. The event should now be acknowledged by the operator.

## Vds External Controller - ( HWVDECGE )

The VDS Remote Transmission object covers the states of the extinguishing interface approved by VDS norms.

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

500 Alarm Unack ✓

The Extinguishing was manually activated. The event should now be acknowledged by the operator.

502 Alarm Unreset ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

1305 Disarmed Ack

The event has been acknowledged.

1306 Disarmed Unack ✓

The object is disarmed. The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack



The fault condition was detected. The event should now be acknowledged by the operator.

---

## Vds Key Cabinet - ( HWVDICKC )

The VDS Remote Transmission object reports the conditions of a Fire Brigade key box (a protected cabinet reserved for the Fire Brigade, which is a hardware interface required for VDS approval).

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

900 Tamper Unack ✓

The key Cabinet was tampered. The event should now be acknowledged by the operator.

902 Tamper Unreset ✓

The event should now be reset by the operator.

946 Active Unack ✓

The door is open. The event should now be acknowledged by the operator.

947 Active Ack

The event has been acknowledged.

1000 Quiet

No abnormal conditions present.

1351 Anomaly Ack

The event has been acknowledged.

1352 Anomaly Unack ✓

One of this case is pending:

- No key
- Door Unlocked
- Manual Unlocked

The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack



The Key Cabinet is in fault. The event should now be acknowledged by the operator.

---

## Extinguishing Controller - ( HWEXICRO )

---

The Extinguishing Controller object represents an extinguishing control module

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 event has been acknowledged.

---

2000 Fault Unack



The fault condition was detected. The event should now be acknowledged by the operator.

---



## Lon Interface - ( HWLNICRO )

---

Representation of a LON network module

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 event has been acknowledged.

---

2000 Fault Unack

✓

The fault condition was detected. The event should now be acknowledged by the operator.

---

## Control Panel - ( HWNOCCRO )

The Control Panel object reports alarms and faults that, for some technical reasons, cannot be addressed on the detection zones nor on detection lines.

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

500 Alarm Unack ✓

The Control Pannel is in Emergency Alarm.The event should now be acknowledged by the operator.

502 Alarm Unreset ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset ✓

This event is the combination of the Alarm and Fault state.The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

1351 Anomaly Ack

The event has been acknowledged.

1352 Anomaly Unack ✓

The configuration is in progress.The event should now be acknowledged by the operator.

1999 Fault Ack

The event has been acknowledged.

2000 Fault Unack



The Control Pannel is in fault. The event should now be acknowledged by the operator.

---

**Printer - ( HWNOPRGE )**

---

The Printer object reports non-normal conditions with the serial printer connected to the CC11

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.

---

1305 Disarmed Ack

The printer is off. The event has been acknowledged.

---

1306 Disarmed Unack ✓

The printer is off. The event should now be acknowledged by the operator.

---

## Unidentified event - ( SYNOUDGE )

The 'unidentified event' indicates the conditions, which could not be associated with any known object in the current structure. This typically happens when the logical tree imported into the system configuration does not exactly match the local CS11 set

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

401 Alarm & Tamper Ack

This event is the combination of the Alarm and Tamper state. The event has been acknowledged.

501 Alarm Ack

The event has been acknowledged.

511 Alarm & Fault Ack

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

901 Tamper Ack

The event has been acknowledged.

911 Tamper & Fault Ack

This event is the combination of the Tamper and Fault state. The event has been acknowledged.

1000 Quiet

No abnormal conditions present.

1300 Disarmed

1351 Anomaly Ack

The event has been acknowledged.

1999 Fault Ack

The event has been acknowledged.

## Australian single detector zone - ( FIDEZOSI )

The Single-Logic Fire Zone object represents a zone made up of a single detection element.

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

500 Alarm Unack ✓ ✓

The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack ✓

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

800 Prealarm Unack ✓ ✓

The event should now be acknowledged by the operator.

802 Prealarm Unreset ✓ ✓

The event should now be reset by the operator.

810 Prealarm & Fault Unack ✓ ✓

This event is the combination of the Prealarm and Fault state. The event should now be acknowledged by the operator.

811 Prealarm & Fault Ack ✓

This event is the combination of the Prealarm and Fault state. The event has been acknowledged.

812 Prealarm & Fault Unreset ✓ ✓

This event is the combination of the Prealarm and Fault state. The event should now be reset by the operator.

---

1000 Quiet ✓ ✓

No abnormal conditions present.

---

1105 Test Ack ✓ ✓

The event has been acknowledged.

---

1106 Test Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

---

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1999 Fault Ack ✓ ✓

The event has been acknowledged.

---

## Australian multi detector zone - ( FIDEZOMU )

In a Multi-Logic Fire Zone the alarm decision is based on the response of multiple detection elements affiliated with the zone. The conditions can be parameterised within the CC11.

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

500 Alarm Unack ✓ ✓

The event should now be acknowledged by the operator.

502 Alarm Unreset ✓ ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack ✓

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512 Alarm & Fault Unreset ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

800 Prealarm Unack ✓ ✓

The event should now be acknowledged by the operator.

802 Prealarm Unreset ✓ ✓

The event should now be reset by the operator.

810 Prealarm & Fault Unack ✓ ✓

This event is the combination of the Prealarm and Fault state. The event should now be acknowledged by the operator.

811 Prealarm & Fault Ack ✓

This event is the combination of the Prealarm and Fault state. The event has been acknowledged.



812 Prealarm & Fault Unreset ✓ ✓

This event is the combination of the Prealarm and Fault state. The event should now be reset by the operator.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

1999 Fault Ack ✓ ✓

The event has been acknowledged.

## Australian manual detector - ( FIDEZOMA )

The Fire Zone Manual object represents a zone made up of manual call-points (emergency alarm buttons).

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	
500	Alarm Unack	✓			✓									
The event should now be acknowledged by the operator.														
502	Alarm Unreset		✓		✓									
The event should now be reset by the operator.														
510	Alarm & Fault Unack	✓			✓									
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator														
511	Alarm & Fault Ack				✓									
This event is the combination of the Alarm and Fault state. The event has been acknowledged.														
512	Alarm & Fault Unreset		✓		✓									
This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.														
1000	Quiet				✓	✓								
No abnormal conditions present.														
1105	Test Ack				✓					✓				
The event has been acknowledged.														
1106	Test Unack	✓			✓					✓				
The event should now be acknowledged by the operator.														
1305	Disarmed Ack			✓		✓								
The event has been acknowledged.														

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1999 Fault Ack ✓ ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

## Australian flowswitch zone - ( BSCOZOFS )

This object represents a digital zones that processes binary information rather than danger levels. A logical TRUE signal of an individual detection device affiliated with the one suffices to reach the ALARM state.

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				
500	Alarm Unack	✓			✓												
The event should now be acknowledged by the operator.																	
502	Alarm Unreset		✓		✓												
The event should now be reset by the operator.																	
510	Alarm & Fault Unack	✓			✓												
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator																	
511	Alarm & Fault Ack				✓												
This event is the combination of the Alarm and Fault state. The event has been acknowledged.																	
512	Alarm & Fault Unreset		✓		✓												
This event is the combination of the Alarm and Fault state.The event should now be reset by the operator.																	
1000	Quiet				✓	✓											
No abnormal conditions present.																	
1105	Test Ack				✓					✓							
The event has been acknowledged.																	
1106	Test Unack	✓			✓					✓							
The event should now be acknowledged by the operator.																	
1305	Disarmed Ack			✓		✓											
The event has been acknowledged.																	

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1999 Fault Ack ✓ ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

## Australian sprinkler zone - ( FIEXZOSP )

The Extinguishing Sprinkler Zone object represents a zone that processes binary information. Associated extinguisher activators are set in alarm state with a YES/NO binary alarm signal.

	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	
500	Alarm Unack	✓			✓									
The event should now be acknowledged by the operator.														
502	Alarm Unreset		✓		✓									
The event should now be reset by the operator.														
510	Alarm & Fault Unack	✓			✓									
This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator														
511	Alarm & Fault Ack				✓									
This event is the combination of the Alarm and Fault state. The event has been acknowledged.														
512	Alarm & Fault Unreset		✓		✓									
This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.														
1000	Quiet				✓	✓								
No abnormal conditions present.														
1105	Test Ack				✓				✓					
The event has been acknowledged.														
1106	Test Unack	✓			✓				✓					
The event should now be acknowledged by the operator.														
1305	Disarmed Ack			✓		✓								
The event has been acknowledged.														

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

1999 Fault Ack ✓ ✓

The event has been acknowledged.

---

2000 Fault Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

### Hong Kong flowswitch zone - ( BSCOZOFS )

This object represents a digital zones that processes binary information rather than danger levels. A logical TRUE signal of an individual detection device affiliated with the one suffices to reach the ALARM state.

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

800 Prealarm Unack ✓ ✓

The event should now be acknowledged by the operator.

801 Prealarm Ack ✓

The event has been acknowledged.

946 Active Unack ✓ ✓

The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.



1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

### Hong Kong sprinkler zone - ( FIEXZOSP )

The Extinguishing Sprinkler Zone object represents a zone that processes binary information. Associated extinguisher activators are set in alarm state with a YES/NO binary alarm signal

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

800 Prealarm Unack ✓ ✓

The event should now be acknowledged by the operator.

801 Prealarm Ack ✓

The event has been acknowledged.

946 Active Unack ✓ ✓

The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓ ✓

No abnormal conditions present.

1105 Test Ack ✓ ✓

The event has been acknowledged.

1106 Test Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

1305 Disarmed Ack ✓ ✓

The event has been acknowledged.

1306 Disarmed Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

## Singapore flowswitch zone - ( BSCOZOFS )

This object represents a digital zones that processes binary information rather than danger levels. A logical TRUE signal of an individual detection device affiliated with the one suffices to reach the ALARM state.

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				
800	Prealarm Unack	✓			✓												
The event should now be acknowledged by the operator.																	
802	Prealarm Unreset		✓		✓												
The event should now be reset by the operator.																	
946	Active Unack	✓			✓												
The event should now be acknowledged by the operator.																	
947	Active Ack				✓												
The event has been acknowledged.																	
1000	Quiet				✓	✓											
No abnormal conditions present.																	
1105	Test Ack				✓					✓							
The event has been acknowledged.																	
1106	Test Unack	✓			✓					✓							
The event should now be acknowledged by the operator.																	
1305	Disarmed Ack			✓		✓											
The event has been acknowledged.																	
1306	Disarmed Unack	✓		✓		✓											
The event should now be acknowledged by the operator.																	

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

## Singapore sprinkler zone - ( FIEXZOSP )

The Extinguishing Sprinkler Zone object represents a zone that processes binary information. Associated extinguisher activators are set in alarm state with a YES/NO binary alarm signal

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
800	Prealarm Unack	✓			✓								
The event should now be acknowledged by the operator.													
802	Prealarm Unreset		✓		✓								
The event should now be reset by the operator.													
946	Active Unack	✓			✓								
The event should now be acknowledged by the operator.													
947	Active Ack				✓								
The event has been acknowledged.													
1000	Quiet				✓	✓							
No abnormal conditions present.													
1105	Test Ack				✓			✓					
The event has been acknowledged.													
1106	Test Unack	✓			✓			✓					
The event should now be acknowledged by the operator.													
1305	Disarmed Ack			✓		✓							
The event has been acknowledged.													
1306	Disarmed Unack	✓		✓		✓							
The event should now be acknowledged by the operator.													

1351 Anomaly Ack ✓ ✓

The event has been acknowledged.

---

1352 Anomaly Unack ✓ ✓ ✓

The event should now be acknowledged by the operator.

---

**Transfer record - ( HWCMLIGE )**

---

Representation of a CT11/CK11 connection to the local CK11

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 event has been acknowledged.

---

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

---



## Analog plus module - ( HWDADCRO )

---

Representation of the DS11-A (AnalogPlus) module hardware

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 event has been acknowledged.

---

2000 Fault Unack

✓

The fault condition was detected. The event should now be acknowledged by the operator.

---

## Analog plus line - ( HWDADCAD )

Representation of a DS11-A (AnalogPlus) detector line.

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

500	Alarm Unack	✓		✓	✓								
-----	-------------	---	--	---	---	--	--	--	--	--	--	--	--

The event should now be acknowledged by the operator.

502	Alarm Unreset		✓	✓	✓								
-----	---------------	--	---	---	---	--	--	--	--	--	--	--	--

The object is in Alarm state. The event should now be reset by the operator.

510	Alarm & Fault Unack	✓		✓	✓								
-----	---------------------	---	--	---	---	--	--	--	--	--	--	--	--

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511	Alarm & Fault Ack			✓	✓								
-----	-------------------	--	--	---	---	--	--	--	--	--	--	--	--

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

512	Alarm & Fault Unreset		✓	✓	✓								
-----	-----------------------	--	---	---	---	--	--	--	--	--	--	--	--

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000	Quiet				✓								
------	-------	--	--	--	---	--	--	--	--	--	--	--	--

No abnormal conditions present.

1305	Disarmed Ack			✓									
------	--------------	--	--	---	--	--	--	--	--	--	--	--	--

The event has been acknowledged.

1306	Disarmed Unack	✓		✓									
------	----------------	---	--	---	--	--	--	--	--	--	--	--	--

The line is disarmed. The event should now be acknowledged by the operator.

1999	Fault Ack				✓								
------	-----------	--	--	--	---	--	--	--	--	--	--	--	--

The event has been acknowledged.

2000 Fault Unack



The fault conditions was detected. The event should now be acknowledged by the operator.

---

**Digital collective I/O module - ( HWNOICCO )**

Representation of a digital I/O module,

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.

1351 Anomaly Ack

The object is impaired. The event has been acknowledged.

1352 Anomaly Unack ✓

The object is impaired. The event should now be acknowledged by the operator.

1999 Fault Ack

The fault condition was detected. The event has been acknowledged.

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

## Analog plus multiDevice - ( HWDAICGE )

Representation of an AnalogPlus digital I/O module, horn output module, collective input module or one part of a T-Tap device.

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.

1351 Anomaly Ack

The object is impaired. The event has been acknowledged.

1352 Anomaly Unack ✓

The object is impaired. The event should now be acknowledged by the operator.

1999 Fault Ack

The fault condition was detected. The event has been acknowledged.

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

**Lon device type 2 - ( HWLNCTGE )**

Representation of a LON connected fire brigade terminal B3Q590.

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.

1351 Anomaly Ack

The object is impaired. The event has been acknowledged.

1352 Anomaly Unack ✓

The object is impaired. The event should now be acknowledged by the operator.

1999 Fault Ack

The fault condition was detected. The event has been acknowledged.

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

**Lon device type 3 - ( HWLNCCGE )**

Representation of a LON connected floor panel B3Q580.

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.

1351 Anomaly Ack

The object is impaired. The event has been acknowledged.

1352 Anomaly Unack ✓

The object is impaired. The event should now be acknowledged by the operator.

1999 Fault Ack

The fault condition was detected. The event has been acknowledged.

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

**Lon device type 1&4 - ( HWLNSYGE )**

Representation of a LON connected synoptic module K3I110 or K3I050.

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.

1351 Anomaly Ack

The object is impaired. The event has been acknowledged.

1352 Anomaly Unack ✓

The object is impaired. The event should now be acknowledged by the operator.

1999 Fault Ack

The fault condition was detected. The event has been acknowledged.

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.



**Lon device type 5 - ( HWLNICGE )**

---

Representation of a LON connected I/O module.

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.

---

1351 Anomaly Ack

The object is impaired. The event has been acknowledged.

---

1352 Anomaly Unack ✓

The object is impaired. The event should now be acknowledged by the operator.

---

1999 Fault Ack

The fault condition was detected. The event has been acknowledged.

---

2000 Fault Unack ✓

The fault condition was detected. The event should now be acknowledged by the operator.

---

**Lon output table - ( HWLNOMGE )**

---

Representation of a block of 16 LON indicators / outputs.

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 event has been acknowledged.

---

2000 Fault Unack

✓

The fault condition was detected. The event should now be acknowledged by the operator.

---

**FD20 Line - ( HWDADCAD )**

Representation of a FD-20 detector line.

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

500 Alarm Unack ✓ ✓

The event should now be acknowledged by the operator.

501 Alarm Ack ✓

The event has been acknowledged.

510 Alarm & Fault Unack ✓ ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

511 Alarm & Fault Ack ✓

This event is the combination of the Alarm and Fault state. The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1305 Disarmed Ack ✓

The event has been acknowledged.

1999 Fault Ack ✓

The event has been acknowledged.

2000 Fault Unack ✓ ✓

The event should now be acknowledged by the operator.

**FD20 I/O module - ( HWNODCCO )**

Representation of a digital I/O module.

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

500 Alarm Unack ✓

The event should now be acknowledged by the operator.

502 Alarm Unreset ✓

The event should now be reset by the operator.

510 Alarm & Fault Unack ✓

This event is the combination of the Alarm and Fault state. The event should now be acknowledged by the operator

512 Alarm & Fault Unreset ✓

This event is the combination of the Alarm and Fault state. The event should now be reset by the operator.

1000 Quiet

No abnormal conditions present.

1998 Fault Unreset ✓

The event should now be reset by the operator.

2000 Fault Unack ✓

The event should now be acknowledged by the operator.

**FD20 MultiDevice - ( HWDAICGE )**

---

This object represent the FD20 MultiDevice element .

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.

---

1351 Anomaly Ack

The event has been acknowledged.

---

1352 Anomaly Unack ✓

The event should now be acknowledged by the operator.

---

1999 Fault Ack

The event has been acknowledged.

---

2000 Fault Unack ✓

The event should now be acknowledged by the operator.

---

## FD20 Element - ( FIDEDEAD )

The FD20 element represents a fire detector for automatic alarm detection

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

946 Active Unack ✓ ✓

The event should now be acknowledged by the operator.

947 Active Ack ✓

The event has been acknowledged.

1000 Quiet ✓

No abnormal conditions present.

1145 Test-Active Ack ✓

The event has been acknowledged.

1305 Disarmed Ack ✓

The event has been acknowledged.

1351 Anomaly Ack ✓

The event has been acknowledged.

1352 Anomaly Unack ✓ ✓

The event should now be acknowledged by the operator.

1999 Fault Ack ✓

The event has been acknowledged.

2000 Fault Unack ✓ ✓

The event should now be acknowledged by the operator.

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