

xGenConnect Installation and Programming Guide

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	SP3, SP4 (IP or cellular); DP2, DP3 (IP and cellular)
	This product was tested and certified to EN 50136-2:2013 for Alarm transmission system performance SP3 and SP4 for reporting over IP(LAN) to the UltraSync and OH NetRec.
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THE EQUIPMENT SHOULD ONLY BE OPERATED WITH AN APPROVED POWER ADAPTER WITH INSULATED LIVE PINS.

DO NOT CONNECT TO A RECEPTACLE CONTROLLED BY A SWITCH.

THIS UNIT INCLUDES AN ALARM VERIFICATION FEATURE THAT WILL RESULT IN A DELAY OF THE SYSTEM ALARM SIGNAL FROM THE INDICATED CIRCUITS. THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 60 SECONDS. NO OTHER SMOKE DETECTOR SHALL BE CONNECTED TO THESE CIRCUITS UNLESS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

WARNING! The equipment should only be operated with an approved power adapter with insulated live pins.

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of batteries according to the instructions. Contact your supplier for replacement batteries.

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The illustrations in this manual are intended as a guide and may differ from your actual unit as xGenConnect is continually being improved.

Intended Use

Use this product only for the purpose it was designed for; refer to the data sheet and user documentation. For the latest product information, contact your local supplier or visit us online at firesecurityproducts.com.

The system should be checked by a qualified technician at least every 3 years and the backup battery replaced as required.

Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING! Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

Introduction

The xGenConnect is an advanced intrusion panel for protecting your home, business, and assets.

With large expansion capabilities, multi-area mode, wireless expansion, advanced user permissions, advanced schedules, and home automation features, the xGenConnect suits most residential and small commercial applications.

The system can be quickly programmed using drop-down menus with commonly used defaults. Advanced customization is possible using the web server or DLX900 desktop software.

All zones, partitions, lists, groups, outputs, schedules, permission profiles, and defaults can be assigned a text name to make it easy to program and maintain.

The advanced user management system can be linked to complex schedules and automation events that dynamically change what users have access to in real-time based on system conditions. Zones can also behave differently based on different conditions.

The xGenConnect intrusion panel is designed to be operated from the NXG-1820 touchscreen keypad with 3.5 inch screen, or from the NXG-183x keypad with graphic display. These keypads allow access to all programming features.

Feature	NXG-4	NXG-8	NXG-9
On-board zones	4	8	8
Max Zones	4 hardwired 16 wireless	48	48
Partitions	4	8	8
Users	40	100	100
Max Keyfobs	8	16	16
Max Tablets	4	4	4
Max keypads	16	24	24
Max Expander Modules incl Keypads and Tablets	24	32	32
On-board outputs	3 OC, BELL	4 OC, BELL, Smoke	4 OC, BELL, Smoke
Event log (Events)	1024	1024	1024

System Capacity

xGenConnect Specifications

Product Codes

Product	Description	EN grade
NXG-4	xGenConnect panel, 4 zones, 4 partitions, max. 16 zones, with IP on-board	2
NXG-4-RF	xGenConnect panel, 4 zones, 4 partitions, max. 16 zones, with IP and LoNa Receiver on-board	2
NXG-4-RF-Z	xGenConnect panel, 4 zones, 4 partitions, max. 16 zones, with IP, Zwave and LoNa Receiver on-board	2
NXG-8	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP on-board	2
NXG-8-CB	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP on-board, large metal housing	2
NXG-8-Z	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP and Zwave on-board	2
NXG-8-Z-CB	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP and Zwave on-board, large metal housing	2
NXG-9-LB	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP on-board, large poly housing	2
NXG-9-RF-LB	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP and LoNa Receiver on-board, large poly housing	2
NXG-9-RF-Z-LB	xGenConnect panel, 8 zones, 8 partitions, max. 48 zones, with IP, Zwave and LoNa Receiver on-board, large poly housing	2
NXG-4-BO	xGenConnect board, 4 zones, 4 partitions, max. 16 zones, with IP on-board	2
NXG-4-RF-BO	xGenConnect board, 4 zones, 4 partitions, max. 16 zones, with IP and LoNa Receiver on-board	2
NXG-4-RF-Z-BO	xGenConnect board, 4 zones, 4 partitions, max. 16 zones, with IP, Zwave and LoNa Receiver on-board	2
NXG-8-BO	xGenConnect board, 8 zones, 8 partitions, max. 48 zones, with IP on-board	2
NXG-8-Z-BO	xGenConnect board, 8 zones, 8 partitions, max. 48 zones, with IP and Zwave on-board	2
NXG-9-BO	xGenConnect board, 8 zones, 8 partitions, max. 48 zones, with IP on-board, for poly housing	2
NXG-9-RF-BO	xGenConnect board, 8 zones, 8 partitions, max. 48 zones, with IP and LoNa Receiver on-board, for poly housing	2
NXG-9-RF-Z-BO	xGenConnect board, 8 zones, 8 partitions, max. 48 zones, with IP, Zwave and LoNa Receiver on-board, for poly housing	2
NXG-1820-EUR	3.5 inch Touchscreen keypad, multilingual	2/3
NXG-183x-EUR	LCD keypad, multilingual	2
NXG-208-G3	8 zone expander	2/3

Product	Description	EN grade
NXG-220-G3	20 zone expander	2/3
NXG-504	4 relay output expander	2/3
NXG-510	10 relay output expander	2/3
NXG-001	Plastic housing /w tamper switch	2
NXG-005	Pry-off tamper switch incl. metal U-bracket	2/3
NXG-003	Housing /w tamper sw – Metal EN Grade 2	2
NXG-003-DIN	DIN-rail mounting kit	2/3
NXG-868	Wireless expander 868 MHz Gen 2	2
NXG-433	Wireless expander 433 MHz	2
NXG-7002(-SIM)	4G/Wi-Fi communication expander (- SIM includes SIM card)	2

Mains Power Specifications

Mains input voltage	230 VAC +10%, -15%, 50 Hz ±10%
Current consumption at 230 VAC	240 mA max.
Transformer output:	
NXG-4	16.3 VAC 35 VA
NXG-8	16.3 VAC 40 VA
NXG-9	20 VAC 40 VA

Installation Instructions for Service Persons

An appropriate disconnect device, to control the mains power to this device, is to be provided as part of building installation according to the local wiring rules.

Power Supply Specifications

Power supply type	EN 50131-6 Type A for indoor use inside the supervised premises
Power supply voltage	13.8 VDC ± 0.4 V
Power supply current	2 A max. at 13.8 VDC ± 0.4 V
Main board consumption:	
NXG-4	130 mA at 13.8 VDC ± 0.4 V
NXG-8	125 mA at 13.8 VDC ± 0.4 V
NXG-9	150 mA at 13.8 VDC ± 0.4 V
Maximum system current available:	2000 mA at 13.8 VDC ± 0.4 V
Auxiliary power output (AUX. POWER):	13.8 VDC ± 0.4 V, 600 mA max.
Auxiliary power output (bus):	13.8 VDC ± 0.4 V, 600 mA max.

Battery power output (BAT):	
NXG-4	13.8 VDC ± 0.2 V, 350 mA max.
NXG-8	13.8 VDC ± 0.2 V, 350 mA max.
NXG-9	13.8 VDC ± 0.2 V, 570 mA max.
Battery type	Lead acid rechargeable
	BS127N: 7.2 Ah 12 V nominal BS130N: 12 Ah 12 V nominal BS131N: 18 Ah 12 V nominal (NXG-8 only)
	Minimum energy level of the battery in its charged state is 100%
Minimum voltage	9.45 VDC
Over-voltage threshold	16.3 VDC ± 5%
Maximum voltage at power supply, auxiliary power output and battery power output	14.5 VDC
Battery low condition	11.3 to 11.8 VDC
Battery disconnect voltage	9.77 VDC
Maximum ripple voltage V, p-p	200 mV typical, 550 mV max.

General Features

Code combinations:	
xGenConnect	From 10,000 (4 digits) to 100,000,000 (8 digits)
Maximum user number:	
NXG-4	40
NXG-8, NXG-9	100
User Permissions:	
NXG-4	32
NXG-8, NXG-9	64
Onboard zones:	
NXG-4	4 (default); 8 if zone doubling enabled.
NXG-8, NXG-9	8 (default); 16 if zone doubling enabled.
Maximum zone number:	
NXG-4	16
NXG-8, NXG-9	48
Additional inputs:	
NXG-4, NXG-8	1: box tamper
NXG-9	2: box tampers
End-of-line resistor	820 Ω (2-wire smoke) 3.3 kΩ, 4.1 kΩ, 4.7 kΩ (alarm) 3.74 kΩ, 6.98 kΩ (zone doubling)

Onboard outputs:		
NXG-4	4: bell, strobe, siren and power outputs	
NXG-8, NXG-9	5: bell, strobe, siren and power outputs	
Maximum output number	32	
Maximum action number	32	
Partitions:		
NXG-4	4	
NXG-8, NXG-9	8	
Maximum keypad:		
NXG-4	16	
NXG-8, NXG-9	24	
Maximum expander modules, incl keypad	s:	
NXG-4	24	
NXG-8, NXG-9	32	
Non-volatile Memory		
Event log capacity	1024	
Data retention (log, program settings)	10 years	
Ethernet Connection (IP only)		
Supported standard	IEEE 802.3u	
Speed	10BASE-T or 100BASE-TX	
Duplex	Half-duplex and full-duplex	
Cabling	FTP (foiled twisted pair) Cat 5e cable or better	
xGenConnect Bus		
Туре	4 wire RS485 bus	
	High common mode tolerance (25V)	
Capacity	Up to 32 devices	
Range	800m	
Recommended Cable	Belden 7201A, 3107A or 9842, 2 pair twisted shielded data cable or exact equivalent (see "Cab Requirements" on page 21)	

Current Consumption

Product	Main description	Current Consumption (non-alarm)	Current Consumption (alarm)
NXG-8	8 zone panel	125 mA typical	125 mA typical
NXG-9	8 zone panel	150 mA typical	150 mA typical
NXG-4	4 zone panel	130 mA typical	130 mA typical

Product	Main description	Current Consumption (non-alarm)	Current Consumption (alarm)
NXG-1820	Touchscreen keypad	100 mA typical, 40 mA in idle mode	175 mA max with sounder and screen on max brightness
NXG-1830-EUR, NXG-1831-EUR	LCD keypad	90 mA typical, 35 mA minimum	160 mA max.
NXG-1832-EUR, NXG-1833-EUR	LCD keypad with integrated Mifare card reader	130 mA typical, 40 mA minimum	200 mA max.
NXG-208-G3	8 zone expander	25 mA	25 mA
NXG-220-G3	20 zone expander	30 mA	30 mA
NXG-504	4 relay output expander	20 mA idle 70 mA 4 relays on	20 mA idle 70 mA 4 relays on
NXG-510	10 relay output expander	20 mA idle 160 mA 10 relays on	20 mA idle 160 mA 10 relays on
NXG-7002	4G Cellular and Wi-Fi Router Module	118 mA minimum, 138 mA average	200 mA

Output Current Rating

Output	35 VA	40 VA	55 VA
	Transformer	Transformer	Transformer
Combined J2 BELL+, J2 AUX+ (Smoke),	500 mA max at	600 mA max at	600 mA max at
and J7 AUX+ (Outputs)	13.8 VDC	13.8 VDC	13.8 VDC
Combined J2 POS (XR Bus), and J3 POS (NX Bus)	500 mA max at	600 mA max at	600 mA max at
	13.8 VDC	13.8 VDC	13.8 VDC

Auxiliary Current and Battery Capacity

xGenConnect (EMEA)

Discharge Time	Charge Time	7.2 Ah Battery	12 Ah Battery	18 Ah Battery	Reference
NXG-8					
12 h	72 h	475 mA	875 mA	1200 mA	EN 50131 Grade 1 and 2
24 h	48 h	175 mA	375 mA	625 mA	INCERT Grade 2
NXG-9					
12 h	72 h	450 mA	850 mA	N/A	EN 50131 Grade 1 and 2
24 h	48 h	150 mA	350 mA	N/A	INCERT Grade 2

Note: Main board quiescent current is included in the table above.

Example for EN Grade 2

When using battery backup as specified for EN Grade 2 using a 7.2 Ah battery, the maximum available auxiliary current is 470 mA.

Environmental

Operating temperature	−10 to +55°C
Humidity	95% non-condensing
IP protection grade	IP30
NXG-4, NXG-8 metal enclosure	EN 50131 Grade 2, Class II
NXG-9 polycarbonate enclosure	EN 50131 Grade 2, Class II
Alarm transmission class EN50136-2/EN 50	131-10:
Onboard IP	SP4 & DP3
Cellular	SP4 & DP3
NXG-1820 ACE classification	Туре А
NXG-183x ACE classification	Туре А

Physical Dimensions and Weight

Product	Main description	Dimensions (HxWxD)	Weight (g)
NXG-4(-RF)(-Z)	xGenConnect /w metal enclosure	214 x 232 x 94 mm (enclosure only)	1435 g
		359 x 232 x 94 mm (with antennas)	
NXG-8(-Z)	NXG-8 /w standard metal enclosure	292 x 291 x 91 mm	2075 g
NXG-8(-Z)-CB	NXG-8 /w large metal enclosure	394 x 256 x 118 mm	7150 g
NXG-9-RF(-Z)	NXG-9 /w standard poly housing	220 x 253 x 112 mm	1800 g
NXG-9(-RF)(-Z)-LB	NXG-9 /w large poly housing	394 x 256 x 118 mm	2800 g
NXG-8(-Z)-BO	NXG-8, board only	273 x 89 x 25 mm	210 g
NXG-4(-RF)(-Z)-BO	NXG-4, board only	192 x 89 x 25 mm	155 g
NXG-9(-RF)(-Z)-BO	NXG-9, board only		210 g
NXG-001	Plastic Enclosure	371 x 371 x 118 mm	1830 g
NXG-003(-G3)	Metal Enclosure	475 x 395 x 130 mm	7150 g
NXG-1820-EUR	Touchscreen keypad	18 x 82 x 125 mm	150 g
NXG-183x-EUR	LCD keypad	133 x 130 x 25 mm	300 g
NXG-208	8 zone expander	135 x 80 x 55 mm	150 g
NXG-220	20 zone expander	135 x 80 x 64 mm	180 g
NXG-504	4 relay output expander	135 x 80 x 55 mm	150 g

Product	Main description	Dimensions (HxWxD)	Weight (g)
NXG-510	10 relay output expander	135 x 80 x 64 mm	180 g

Fuses

Battery	4 A, resettable
12 V aux (combined for J2 BELL+, J2 AUX+, J7 AU	X+)
NXG-8	1.1 A, resettable
NXG-9	2 A, resettable
System LAN (combined for J2 POS, J3 POS)	
NXG-8	1.1 A, resettable
NXG-9	2 A, resettable
Mains, mains fuse	500 mA, fast 20x5
Note: Mains fuse is a part of the mains terminal blo	ck.

Maintenance

No regular maintenance needed. System will report servicing when necessary.

System Monitoring

The system provides monitoring for the following items.

Monitoring function	Message	Cause
AC Mains	Mains fail	Loss of external power supply
Battery	Battery low	Battery low voltage
	Battery test fail	Exhausted battery
		Battery charger fail
	Fuse/power output fail	Output overload
Power outputs	Fuse/power output fail	Exhausted fuse
		Fuse loss
		Short circuit
		Overload
Power supply	Power unit/power output fail	Power unit failure
		Overvoltage
Tampers	Device tamper	Device sabotage

SIA and CID Reporting Code Descriptions

#	SIA code	CID code	Function
0	FA	E110	Fire Alarm

#	SIA code	CID code	Function	
1	FR	R110	Fire Alarm Restore	
2	PA	E120	24 Hour Alarm	
3	PR	R120	24 Hour Alarm Restore	
4	BA	E130	Burg Alarm	
5	BR	R130	Burg Alarm Restore	
6	*В	E570	Bypass	
7	*U	R570	Bypass Restore	
8	ТА	E383	Tamper	
9	TR	R383	Tamper Restore	
10	*T	E380	Trouble	
11	*R	R380	Trouble Restore	
12	XT	E384	Sensor Low Battery	
13	XR	R384	Sensor Low Battery Restore	
14	*S	E381	Wireless Supervision	
15	*R	R381	Wireless Supervision Restore	
16	SS	E200	Fire Supervision	
17	SR	R200	Fire Supervision Restore	
18	NA	E391	Zone Activity Supervision	
19	NS	R391	Zone Activity Supervision Restore	
20	BG	E378	Cross Zone initial trip	
21	BR	R378	Cross Zone initial trip Restore	
22	AS	E389	Fire Maintenance Alarm	
23	AN	R389	Fire Maintenance Alarm Restore	
24	DL	E426	Door Propped	
25	DH	R426	Door Propped	
26	DF	E423	Door Forced	
27	DR	R423	Door Forced	
28	TP	E611	Start Walk test zone	
29	TE	E389	End Zone Test	
30	TP	E611	Walk test zone passed	
31	TE	E389	Walk Test zone failed	
32	ТА	E383	Tamper (Anti-mask)	
33	TR	R383	Tamper Restore (Anti-mask)	
34	BA	E139	Burglary Alarm (Unverified)	
35	BV	E130	Burglary Alarm (Verified)	
36	HA	E129	Hold-up Alarm (Unverified)	
37	HV	E120	Hold-up Alarm (Verified)	
38	PA	E129	Panic Alarm (Unverified)	

#	SIA code	CID code	Function	
39	HV	E120	Panic Alarm (Verified)	
64	FA	E115	Manual Fire	
65	MA	E100	Manual Auxiliary	
66	PA	E123	Manual Audible Panic	
67	HA	E122	Manual Silent Panic	
68	HA	E124	Duress	
69	JA	E461	Keypad Lockout	
70	ТА	E137	Box Tamper	
71	TR	R137	Box Tamper Restore	
72	AT	E301	Mains Fail Event	
73	AR	R301	Mains Fail Event Restore	
74	ΥT	E302	Battery Low Event	
75	YR	R302	Battery Low Event Restore	
76	YI	E312	Over Current	
77	YJ	R312	Over Current Restore	
78	YA	E320	Siren Tamper	
79	YH	R320	Siren Tamper Restore	
80	LT	E351	Telephone Fault	
81	LR	R351	Telephone Fault Restore	
82	YC	E354	Communication Failure	
83	YK	R354	Communication Failure Restore	
84	ET	E333	Device Failure	
85	ER	R333	Device Failure Restore	
86	OP	E401	Open	
87	CL	R401	Close	
88	OP	E401	First Open	
89	CL	R401	Last Close	
90	CG	E451	Partial Close	
91	EE	E374	Exit Error	
92	CR	E459	Recent Close	
93	AB	E406	Abort	
94	OC	E406	Cancel	
95	RP	E602	Automatic Test	
96	RX	E601	Manual Test	
97	JT	E625	Clock Changed	
98	LB	E627	Start Local Program	
99	LX	E628	End Local Program	
100	RB	E627	Start Remote Program	

#	SIA code	CID code	Function
101	RS	E628	End Remote Program
102	TS	E607	Start Walk Test Mode
103	TE	R607	End Walk Test Mode
104		E466	Technician Arrival
105	YZ	R466	Technician Left
106	FT	E310	Ground Fault
107	FR	R310	Ground Fault Restore
108	LF	E606	Start Listen In
109	LE	R606	End Listen In
110	OK	E451	Early Opening (Disarmed before Opening window)
111	CJ	R452	Late Closing (Armed after the Opening Window)
112	OI	E453	Fail to Open
113	CI	E454	Fail To Close
114	XQ	E344	Wireless Jam
115	XH	R344	Wireless Jam Restore
116		E414	System Shut Down
117	RR	R414	System Turn On
118	RC	E323	Output Activated
119	RO	R323	Output Restored
120	SC	E531	Device Enrolled
121	DG	E422	User Activated Output
122	DG	E422	Door Access
123	DV	E421	Door Access Denied
124	YW	E305	Watchdog Reset
125	OP	R451	Partial Open
126	BC	E401	Abort Alarm
127	JK	E102	Guard Tour Fail
128	NA	E641	Activity Monitor Fail
129	DG	E422	Valid Code Entered
130	DP	E421	Valid Code Out Of Schedule
131	DV	E421	Valid Code Void
132	DV	E421	Valid Code Lost
133	DV	E421	Valid Code Expired
134	RU	E628	Remote Program End
135	CL	E102	Man Down
136	RR	E305	Power Up
137	RR	R305	Power Up Restore
138	RX	R601	Manual Test Restore

#	SIA code	CID code	Function
139	OJ	E452	Late Opening
140	СК	R451	Early Closing
141	UB	E532	Device Bypass
142	UU	E531	Device Unbypass
143	YF	E304	Checksum Failure Failure
144	YG	R304	Checksum Failure Restore
145	ΥT	E338	Expander Low Battery
146	YR	R338	Checksum Failure Restore
147	ΥT	E337	DC Fail
148	YR	R337	DC Fail Restore
149		E609	Video Event
150	LT	E351	IP Path Fault
151	LR	R351	IP Path Fault Restore
152		E458	Geofence1 Entered
153		R458	Geofence1 Exited
154		E458	Geofence2 Entered
155		R458	Geofence2 Exited
156	YP	R351	Power Supply Fault
157	YQ	R351	Power Supply Restore

EN 50131-3 and EN 50136-2 Compliancy

In order to be compliant with the technical specification EN 50131-3 (Alarm systems – Control and indicating equipment), the following guidelines must be taken into account:

- The tamper of the warning device should be connected to a 24-hour zone input.
- Overriding is not supported with xGenConnect. In case a zone is faulted, one shall bypass the zone manually before arming or verify the zone and clear the fault. See user instructions.
- Hold-up zones are not allowed to be set for bypass.
- Zone isolation is not supported.
- EN 50136-2 (Alarm transmission systems and equipment Part 2: Requirements for Supervised Premises Transceiver (SPT):

- Upon configuring alarm transmission path and remote connection details, default user/installer keys shall be changed.

Options Affected by EN 50131 Regulations

EN 50131 Grade 2 Required settings

The following options and values are mandatory for EN 50131-1 Grade 2 regulations.

- Period, 24 h for every path to meet ATS Class 2, 4 h for the IP path to meet Class 4.
- View Areas and Control Areas settings are identical
- Buzzer silent, never
- Quick set, off
- Function keys, all set to None
- User group options, 25. No OP/CL reports option set to No
- Inhibit, set to No for all zones with type 5. Panic, 6. 24H
- Swinger shunt, set to Yes for all zones
- ACK on keypad, set to None for all zones with type 9. Keyswitch
- Entry time, 45 s maximum
- Entry alarms, Instant
- Active, set to No for all schedules.
- Activation, internal and external siren 90 to 900 s
- Delay time, external siren 600 s maximum
- Armed display, 30 s maximum
- Mains reporting delay 10 to 70 s
- User code required, enabled
- Armed display, always
- Alarm list, disabled
- Inhibit includes, all allowed except engineer reset, which must be disabled
- Pending alarms, enabled
- Swinger shunt ≥ 3
- Report restore, on ACK
- Line fault, enabled per path used
- Line fault delay, 0 s

Refer to *xGen Reference Guide* for additional features, accessible at level 3.

For EN 50131-3 & T031, it is required to apply the following supervision settings for wireless expanders:

- Short supervision: 20 minutes
- Long supervision: 2 hours
- Smoke supervision: 4 hours

Caution: When any option, any additional function or any additional zone type in this section does not comply with the EN 50131 requirements, the EN 50131 compliance label must be removed from the system.

Optional Functions

- Detection of storage device failure
- Detection of low output voltage

EN 50131 Compliance Precautions

Installation

In order to install an EN 50131 compliant system, please make sure that all system components are EN 50131 compliant.

Programming

Make sure that all system settings are in line with regulatory compliance guidelines.

Size of log / event history

For full EN 50131 Grade 2 compliance, the system must store at least 500 events.

Events are read-only, they cannot be deleted or altered by users of any level. At least 500 mandatory events are stored in a separate memory location. Mandatory events will be preserved and will not be overwritten by non-mandatory events according to the EN 50131 standard. To view only mandatory events, select Event History Filter > Mandatory.

Marking

It is only allowed to mark the system with the EN 50131 compliance label, if the following requirements are met:

- All system components are EN 50131 compliant.
- All settings are done according to EN 50131.

If any of these two items is not valid, the EN 50131 compliance label must be removed from the system.

Alarm Transmission Path and Alarm Transmission System Faults

The alarm panel is able to continually monitor single (IP or cellular) and dual (IP and cellular) paths for communication issues when provisioned with an appropriate service grade. If one or both paths becomes unavailable, the issue will be logged in the event history, communicated by the UltraSync server to the control room, and displayed on a local keypad. Most communication issues are temporary and resolve automatically without user intervention.

- IP PATH Failure 999: The alarm panel is unable to communicate with the central station. Alarm reporting is not possible as no paths are available. Check if the communication path is functioning. For cellular, check reception, antenna connection, and SIM card. For IP, check the cable, router, and internet connection.
- IP PATH Restore 999: The communication paths to the central station have been restored.

- IP PATH Failure 998: The alarm panel is unable to communicate with the central station via cellular. Alarm reporting may be possible via IP path where provisioned. Check reception, antenna connection, and SIM card.
- IP PATH Restore 998: The cellular communication path to the central station has been restored.
- Channel1 Fail to Communicate: The alarm panel is unable to communicate with the central station. Check the internet connection or cellular reception.
- Channel1 Communication Restore: The communication path to the central station has been restored.
- Cell Link Fault: The GSM modem is removed or failed.

EN 50131 and INCERT certified components

The xGenConnect system is EN and INCERT certified with the following components.

- Power supplies: NXG-320, NXG-320-M, NXG-320-CPU
- Keypads: NXG-1820-EUR (Grade 2 only), NXG-183x-EUR (Grade 2 only), NX-1048-EN
- Readers: NX-1701E
- Expanders: NXG-504, NXG-510, NXG-208, NXG-220, NXG-208-G3, NXG-220-G3, NX-216E-EN, NX-216Z8, NX-507E, NX-508E
- Wireless expanders: NXG-433
- GSM Module: NXG-7002

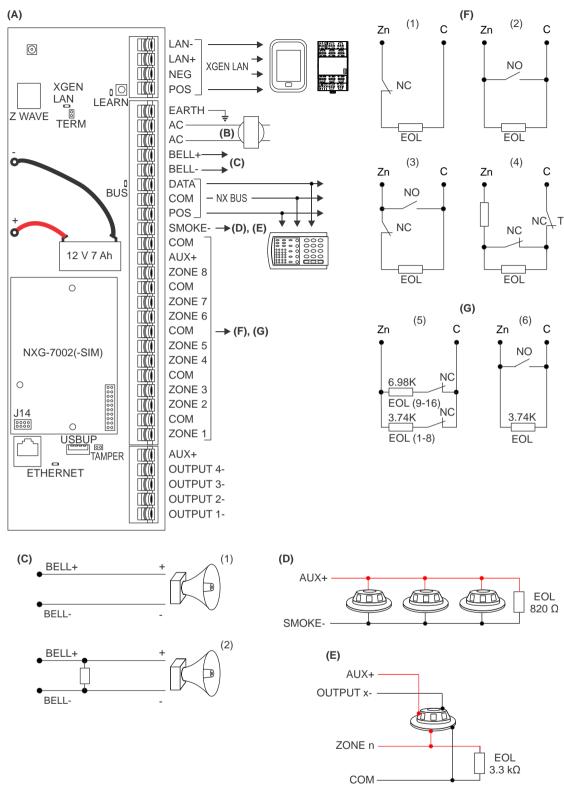
Other regulations

INCERT

The following options and values are mandatory for INCERT T031ed2 regulations.

• Engineer tamper reset: On

NXG-8 Wiring Diagram



(A) NXG-8

(B) Transformer

16 VAC, 1.5 A, 40 VA transformer. Fuse 500 mA, 250 VAC. See also "xGenConnect Specifications" on page 2.

(C) Voltage output / Speaker output

(1) Indoor Siren/Speaker
 Siren Options > Voltage Siren Output
 is OFF. By default speaker output for
 15 or 20 W speaker with 4, 8 or 16 Ω
 load.

Requires 3.3K EOL. (2) Voltage Output for 12 VDC indoor

siren Siren Options > Voltage Siren Output is ON.

Max. load = 500 mA

(D) 2-wire smoke detector

Enable Two Wire Smoke feature Program zone 8 as Zone type "Fire" and Zone options "Fire" 820Ω resistor

(E) 4-wire smoke detector

Program Zone type "Fire" and Zone options "Fire" 3.3 $k\Omega$ resistor

(F) Single zone

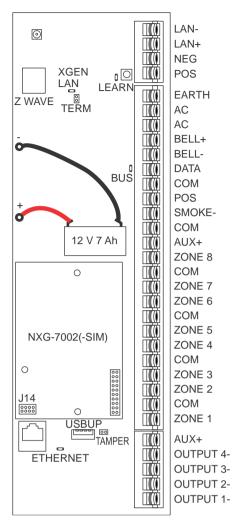
- (1) NC contact with EOL resistor
- (2) NO contact with EOL resistor
- (3) One NO contact and one NC contact with EOL resistor
- (4) Zone tamper EOL resistor

See "Detector EOL Wiring" on page 20 for supported resistor values.

(G) Doubled zone

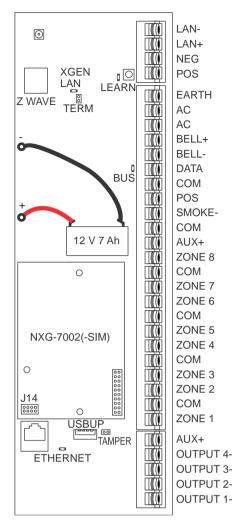
- (5) 3.74K resistors for zones 1 to 8. 6.98K resistors for zones 9 to 16.
- (6) Doubled zone configuration used as a fire zone. Upper zone (9 to 16) is not usable.

NXG-8 Terminals



- LAN-, LAN+, NEG, POS: Terminals for xGenConnect RS485 bus.
- LEARN: Enrollment button, hold down for 3 s to activate automatic device enrollment feature.
- TERM: Term link for xGenConnect RS485 bus. A TERM link should be installed on the two furthest devices.
- EARTH, AC, AC: Connect transformer (16 VAC 1.5 A) to terminals for power.
- -BLACK, +RED: Connect leads to 12V Sealed Lead Acid backup battery.
- BELL+, BELL-: Connect to indoor 12 VDC siren or speaker.
- DATA, COM, POS: NetworX 3-wire bus for legacy modules and keypads.
- SMOKE-, AUX+: Two or four wire smoke detectors, NXG-8 supports two wire smoke detectors and will drop power to the SMOKE- terminal to perform smoke alarm verification.
- COM, AUX+: Terminal for aux power to zones.
- ZONE 1 to 8, COM terminals to connect to zones. Supports single EOL, zone doubling, and dual EOL tamper monitoring.
- J14: Ethernet WAN link header must be fitted if no communicator module is installed, and must be removed to accommodate communicator module.
- J11: Terminal to connect communicator module to xGenConnect.
- Ethernet: Connect Ethernet cable to RJ45 socket to provide internet connectivity to xGenConnect.
- J13: 5-pin connector used to upgrade and program xGenConnect with USBUP-EUR-V2 tool.
- TAMPER: Connect to panel box tamper. AUX+: Terminal for auxiliary power to outputs.
- OUTPUT 4: Open collector output switches to ground,
- power output, by default inverted, can be assigned to an Action.
- OUTPUT 3: Open collector output switches to ground, power output, by default inverted, can be assigned to an Action.
- OUTPUT 2: Open collector output switches to ground, hold-off for outdoor siren, by default inverted, can be assigned to an Action.
- OUTPUT 1: Open collector output switches to ground, hold-off for outdoor flash, by default inverted, can be assigned to an Action.

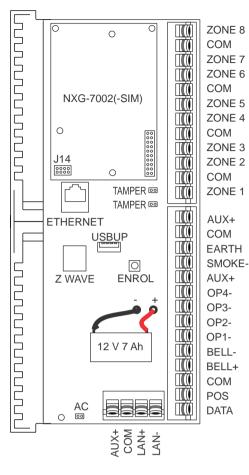
NXG-8 LEDs



- D7 LAN: Green LED is lit when connected to UltraSync, remains off when not connected to UltraSync.
- D4 LEARN: Red LED blinks slowly during auto enrollment, blinks quickly during manual enrollment.
- D3 BUS: Red LED blinks to indicate xGenConnect bus is available.
- D1 ETHERNET: Red LED is lit when Ethernet cable is connected to WAN port, blinks when data is sent or received, and is off when cable is disconnected or J14 connector is removed.

If 4G / Wi-Fi router module is installed, LED is lit when panel has established connection to the module, and blinks when panel is communicating with the module. Check "Connection Status" web page to verify connection to UltraSync.

NXG-9 Wiring Diagram



Refer to "NXG-8 Wiring Diagram" on page 16. The NXG-9 unit functionality is the same the NXG-8 except that the connections are spatially orientated differently.

NXG-9 Terminals

Refer to "NXG-8 Terminals" on page 18. The NXG-9 unit functionality is the same as the NXG-8 except that the connections are spatially orientated differently.

NXG-9 LEDs

Refer to "NXG-8 LEDs" on page 19. The NXG-9 unit functionality is the same the NXG-8 except that the LEDs are spatially orientated differently.

Detector EOL Wiring

Other than the 3K3 end-of-line resistor support, the xGenConnect Grade 2 panels support the following end-of-line resistor value combinations in ohm (*):

Combination	А	В	С	
Tamper (short)	0	0	0	
Normal	3.3 kΩ	4.7 kΩ	4.1 kΩ	
Alarm	6.6 kΩ	9.4 kΩ	8.2 kΩ	
Tamper (open)	Ø	×	×	

(*) Refer to the detector installation manual for EOL values and wiring instructions.

Power Requirements

The xGenConnect intrusion panel family is designed to be used with a 16 VAC 1.5 A (NXG-8), 20 VAC 1.5 A (NXG-9), 35 or 40 VA transformer which is included with xGenConnect panel kits. This transformer includes a 500 mA 250 VAC fast blow replaceable fuse on the terminal block. If more current is required, add NXG-320 Smart Bus Power Supplies.

Cable Requirements

The system RS-485 communication bus is used to connect keypads and in- and output expanders to the xGenConnect intrusion panel.

- Belden 7201A, 3107A or 9842 cable is recommended. Cable must provide:
 >= 13 twists per metre or >= 4 twists per foot,
 <= 52 pF per metre or <= 16 pF per foot, and characteristic impedance 100 to 120 Ω.
- 800 m total cable run on system.
- Max. 800 m from remote device to xGenConnect control panel.
- Max. 32 devices plus panel.
- Max. 16 keypads, as part of the 32 device limit.

Grounding

All devices designed for the system have earth connections via metal studs to the metal housing. Make sure that these metal studs make good connection to the housing (beware of paint). The earth connections of every piece of equipment in the system can be used for connecting the screen of shielded cables. If a device is placed in a plastic housing the earth lug of the device does not have to be connected.

In one building several cabinets or devices are earthed to a safety ground. The safety ground for the building must be checked by a licensed contractor.

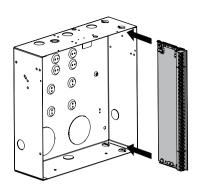
Shielding

The shielding of all shielded cables used in the system should only be connected at one side to one common earthing point in a building. If a shielded LAN cable is routed via more than one plastic device the shielding from incoming and outgoing cable must be connected.

Termination Links

Put a jumper across TERM on the panel and the furthest device to ensure correct RS-485 termination and avoid communication issues with signal reflection, etc.

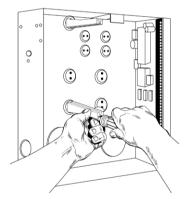
Installing Panel

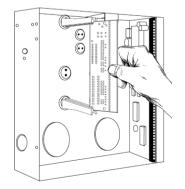


- The xGenConnect should be located away from damp areas (e.g. bathrooms, kitchens), away from sources of heat, dust or interference (e.g. air conditioners, washing machines, dryers, refrigerators) and away from external walls.
- 2. The metal enclosure should be installed with the door opening from the top to bottom.
- 3. Guides are cut into the enclosure to hold the panel, two on the top and two on the bottom. Two plastic brackets are pre-installed on the xGenConnect. Slide the panel into the guides as shown in the diagram. The terminal strip should face towards you once installed.
- 4. A plastic strap is provided to allow the door to form a temporary surface to hold light parts.

Installing Legacy NX Modules







Inside the enclosure there are several 2-holed insertion points. These allows for either vertical or horizontal placement of legacy NX modules. Each insertion point has a larger hole and a smaller hole.

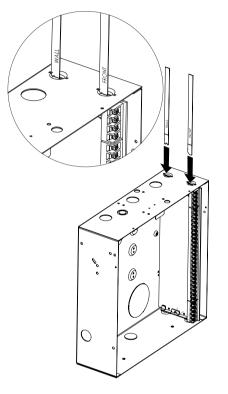
- The black plastic PCB guides feature a groove to hold an expansion module. The end with the halfmoon protrusion fits into the larger hole. The smaller hole is for the screw.
- 2. Place the first black plastic PCB guide in the top insertion point, groove facing downward. The half-moon protrusion will be in the large hole. It does not require force to insert. Insert one of the provided screws into the smaller hole (from inside the enclosure) to secure it in place. A screwdriver should reach through the groove that runs the length of the guide to tighten the screw. The second PCB guide should be positioned opposite the first (groove facing up) and placed in the lower insertion point, using the same procedures described above. Once mounted, screw it in securely.
- 3. The NX module should slide freely in the grooves of both guides.

Installing Antennas

A number of antennas may be provided depending on the model purchased. These include:

- Multi-antennas for legacy 433 63-bit, LoNa 80plus (NXG-4 only) and Z-Wave
- 4G antennas for Wi-Fi/cellular module
- Wi-Fi antennas for Wi-Fi/cellular module

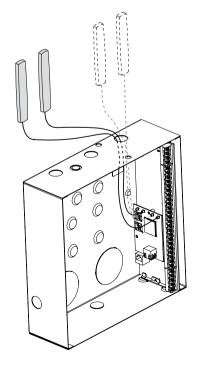
Wireless Sensor (NXG-4 only) and Z-Wave Antennas



If two black antennas have been provided:

- 1. Install panel into metal enclosure first.
- 2. Antenna must be installed vertically for best performance.
- 3. Each antenna is keyed (shaped differently) and labelled. Antennas are reasonably flexible, do not apply excessive force. Match the antenna to the shape molded on the plastic bracket and push to insert.
- 4. The line printed on each antenna will disappear when fully inserted.
- 5. Remove antennas before attempting to remove panel.

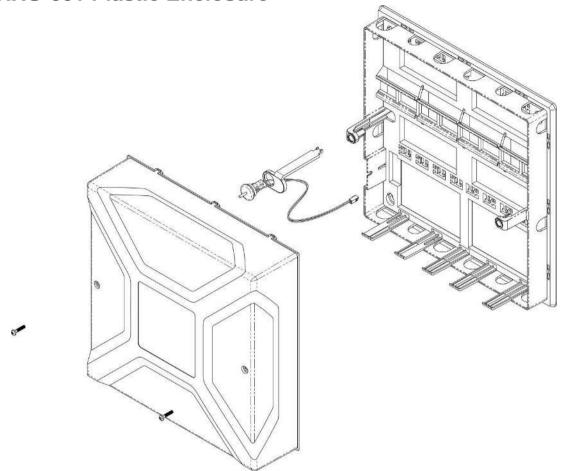
4G Cellular and Wi-Fi Router Module Antennas



If the optional 4G Cellular and Wi-Fi Router has been installed, a single set of antennas should be connected to "MAIN" on the module. The antennas should be installed vertically, and as high up as possible.

The module includes MIMO wireless technology to improve reception of 4G and Wi-Fi wireless signals. This requires the installation of a second set of antennas to "DIV" on the 4G/Wi-Fi Router Module. The second set of antennas will perform best when separated from the MAIN antennas by at least 20 cm.

NXG-001 Plastic Enclosure



The NXG-001 features a DIN rail for mounting xGen modules, a tamper switch, and integrated cable management.

The enclosure should be installed in accordance with EN 50131-1 Environmental Class II to provide operating conditions within:

- Temperature range: -10 to +55°C.
- Humidity range: Average 93% relative humidity, noncondensing

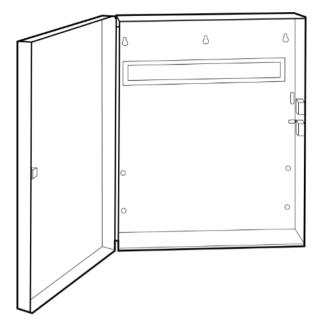
The lid can be removed by releasing the two screws using the supplied Allen key.

Note: The housing cover must be installed with the clips on top.

Refer to drilling template provided with enclosure for mounting instructions.

To install a module, release the locking tab(s) and place on the DIN rail then push the locking tab(s) to secure the module. To remove a module, use a small flat-blade screwdriver to release the locking tab(s) on the xGen module then remove from the DIN rail. Refer to module installation manual for further details.

NXG-003 xGen Metal Enclosure



A spare metal enclosure is available for those installations where additional xGen zone and/or output expanders are required or in case a larger backup battery is required. The xGen NXG-003 metal enclosure includes a tamper switch and one metal DIN rail. A second metal DIN rail (NXG-003-DIN) can be added if required but in that case a backup battery of max 12 VDC / 7 Ah will fit the enclosure.

The enclosure should be installed in accordance with EN 50131-1 Environmental Class II to provide operating conditions within:

- Temperature range: -10 to +55°C.
- Humidity range: Average 93% relative humidity, non-condensing

To install a module, release the locking tab(s) and place on the DIN rail then push the locking tab(s) to secure the module. To remove a module, use a small flat-blade screwdriver to release the locking tab(s) on the xGen module then remove from the DIN rail. Refer to module installation manual for further details.

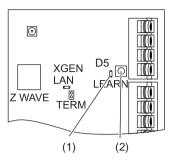
Enrolling Modules

New devices such as zone expanders, wireless zone expanders, output expanders, smart power supplies, and keypads need to be enrolled so they can be programmed and supervised.

The enrollment procedure discovers the serial number of the new device and adds it to the device database in the panel.

To enroll a module:

1. Press and hold the LEARN button until the LED next to the button blinks, then release button.



- (1) D5 LED located next to the LEARN button
- (2) LEARN button
- 2. The panel is now in automatic enrollment mode and will search for new devices.
- 3. The D5 LED will stop blinking to indicate enrollment mode is finished.
- 4. Proceed to programming the system and the additional devices.

Enrollment can also be initiated:

- Using the NXG-18xx keypad: press Menu, Installer PIN, ENTER, go to Program > Devices > System Devices > Control > Enroll Function – 0 = Inactive – Automatic Enroll.
- Using the xGenConnect Web Server: click the Advanced Menu, go to Devices
 > System > Control > Enroll Function > Automatic Enroll, click Save.
- Using DLX900: click Devices > Device Info > Auto Enroll.

Deleting Modules

Devices such as zone expanders, output expanders, and keypads can be removed from the system by deleting the serial number from the device database.

To delete a module:

1. On the keypad press Menu, Installer PIN, ENTER, go to Program > Devices.

This menu will be displayed:

- 1. System Devices
 - 1. Control
 - 2. Keypad
 - 3. Zone Exp
 - 4. Output Exp
 - 5. Power Supply

- 2. Interlogix Transmitters
 - 1. Transmitter Number
 - 2. Serial Number
 - 3. User
 - 4. Options
 - 5. Scene
- 3. Z-Wave Devices
 - 1. Name
 - 2. Basic Type
 - 3. Generic Type
 - 4. Specific Type
- 4. Tablet Keypads
 - 1. Name
 - 2. Serial Number
 - 3. Area Group
 - 4. Keypad Options
- 2. Select the category and type. For example, to remove a keypad, touch System Devices > Keypad.
- 3. Touch Device UID (Serial).
- 4. Touch the serial number displayed.
- 5. Touch Clear.
- 6. Touch OK.

The device has now been removed.

Deleting devices can also be done:

- Using the xGenConnect Web Server: click the Advanced Menu, click Devices, find the device to be removed, delete the serial number, click Save.
- Using DLX900: click Devices > Device Info, select the device, then click "Remove Device".

Arming and Disarming Your System

You may arm and disarm partitions from an NXG-18xx keypad.

Only users with an authorized user code (Level 2 user) will be allowed to use the xGenConnect alarm system. Users with no valid user code (Level 1 user) do not have access as defined by EN 50131-3.

Keypress Tamper

The NXG-18xx keypad will be locked in screensaver mode when unused for a preset time. This stops unauthorized users from interacting with the system or viewing detailed status.

A valid PIN is required to unlock the screen and access the system. Users can set PIN codes between 4 and 8 digits in length.

Note: EN 50131 Grade 2 required settings – there are no disallowed account codes. 5 digits minimum to provide 10,000 possible combinations.

Lock Out on 3 Invalid Attempts

If an invalid PIN code is entered three times, the keypad will deny all login attempts for 90 seconds. Attempts are counted from any method (e.g. keypad, app, or web page). You must wait the full 90 seconds before trying again with the correct PIN. This is to prevent brute-force attacks on guessing PIN codes.

Arm Your System with NXG-1820-EUR keypad

Arm Your System in Away Mode

Enter a valid PIN code to unlock the screen.

Touch the Away or Away + button to arm your system in Away mode.



The icon will change to red when the alarm system is set in away mode.

If your system has multi-partition control enabled, the Away + button will be displayed.

A valid PIN code will need to be entered to determine what permissions they have, this includes which Partitions and at what time/day that user has access.

Arm Your System in Stay Mode

Enter a valid PIN code with Stay permissions to unlock the screen.

Touch the Stay or Stay + button to arm your system in Stay mode:



The icon will change to yellow when alarm system is set in Stay mode.

If your system has multi-Partition control enabled, the Stay + button will be displayed.

A valid PIN code will need to be entered to determine what permissions they have, this includes which Partitions and at what time/day that user has access.

Arm Your System in Instant Stay Mode

Enter a valid PIN code with Stay permissions to unlock the screen.

To arm in Instant Stay mode touch the Stay button two times until the icon is red and displays "Instant":



This indicates the alarm system is set in Instant Stay Mode.

Arm Your System in Night Mode

Enter a valid PIN code with Stay permissions to unlock the screen.

To arm in Night Mode touch the Stay or Stay + button a total of three times until the icon is red and displays "Night Mode":



Touching the Night Mode button again will cycle the system back to Stay Mode.

Arm Your System with NXG-183x keypad

Arm Your System in Away Mode

Enter a valid PIN code to unlock the screen. Press the Arm Away button to arm your system in Away mode.

Enter your PIN and press Enter.

Note: In case the Quick Arm function is enabled, a PIN is not required to arm the system.

If your system has multi-partition control enabled, and the user has the Display Partition List option enabled, the Partition selection screen will be displayed.

Arm Your System in Stay Mode

Enter a valid PIN code to unlock the screen. Press the Arm Stay button to arm the system in Stay mode.

Using Up (2) and Down (8) buttons, select one of the following Stay Arming modes:

- Stay
- Stay Instant
- Stay Instant Night

Next, press Enter, enter your PIN, and then press Enter again.

Note: In case the Quick Arm function is enabled, a PIN is not required to arm the system in Stay mode.

If your system has multi-partition control enabled, and the user has the Display Partition List option enabled, the Partition selection screen will be displayed.

Disarm Partitions with NXG-1820-EUR keypad

Touch the Off or Off + button to disarm your system:



If your system has multi-Partition control enabled, the Off + button will be displayed.

A valid PIN code will need to be entered to determine what permissions they have, this includes which Partitions and at what time/day that user has access.

Disarm Partitions with NXG-183x-EUR keypad

Enter a valid PIN code to unlock the screen.

Typically the buzzer will sound (continuous tone) announcing the entry delay.

Press the Disarm button followed by a valid PIN code to disarm your system.

If your system has multi-partition control enabled, and the user has the Display Partition List option enabled, the Partition selection screen will be displayed.

A valid PIN code will need to be entered to determine what permissions they have, this includes which partitions and at what time/day that user has access.

Activate SOS Feature (NXG-1820-EUR only)

Touch the SOS button to display the SOS feature:

SOS



On this screen touch and hold the appropriate button for 2 seconds to activate Manual Fire Alarm, Manual Medical Alarm, or Manual Panic Alarm.

Depending on how your system is programmed, the control room may receive the corresponding event. Check with your control room to determine what action will be taken.

If silent alarm is enabled, then the keypad will not display any signs that the panic button was pressed.

To cancel a SOS alarm – return to the home screen, touch the Status button and turn the Partition off.



Programming Methods

Once your devices have been cabled and installed, there are four (4) ways to access and program your xGenConnect system:



Method 1: Via DLX900 Management Software – All features can be programmed using a PC with Microsoft Windows 7, 8 and 10. DLX900 allows easier programming of complex sites as the graphical interface can show all options from multiple menus simultaneously.



Method 2: Via a built-in Web Server – All features can be accessed from a web browser via drop-down and click-through menus. No software installation is required. This allows access to most commonly accessed features for basic programming or minor changes.



Method 3: Via UltraSync+ app – this provides access to the built-in Web Server via a smartphone app. A camera setup "wizard" is also included. Camera footage is only viewable by using the app.



Method 4: Via on-site keypad – The NXG-18xx keypad offers a programming menu allowing full system configuration. Refer to the appropriate keypad installation manual. *xGen Reference Guide* will also assist you in navigating the menus.

Account Access

Note: Installer Account Disabled When Armed

If a non-engineer account arms the system at any time, engineer accounts will not be able to log in, any current program mode will end, and this will be recorded in the event log. Ask the end-user to disarm the panel and leave it disarmed so you can log in to program it.

Note: Remote Access May Require Level 2 User Authorization

Two remote access features "Enable Web Program" and "Always Allow DLX900" require an authorized master (Level 2) user to enter their PIN code on a NXG-1820 keypad before remote programming can be performed.

If either "Enable Web Program" or "Always Allow DLX900" have been disabled, ask a Master User to press Menu, enter their PIN code on a keypad, then Settings. The panel will now be in Program Mode and you can use an engineer (Level 3) user such as "installer" to perform programming via the web page, app, or DLX900.

Method 1: DLX900 Management Software

DLX900 is an ideal tool for programming xGenConnect systems. This software is installed on a PC with Microsoft Windows 7, 8, or 10. It features a graphical interface, allowing installers and Central Monitoring Stations to program and manage complex sites. Customer details and all panel programming are stored in a local database.

DLX900 supports a variety of connection methods:

- Direct connection over LAN
- Remote connection over UltraSync (includes LAN or cellular)

Connect to xGenConnect using DLX900 on LAN

- 1. Turn on power to your system
- 2. Connect an Ethernet cable to the J13 Ethernet port on the xGenConnect and wait 10 seconds for the local router to assign the xGenConnect an IP address if DHCP is available.
- 3. On the keypad press Menu, PIN, ENTER, go to Installer > Communicator > IP Configuration > IP Address and note the IP address displayed.
- 4. Install DLX900 on a suitable computer.
- 5. Start DLX900.
- 6. Create a new customer.
- 7. Enter the IP address of your system.
- 8. Click Save.
- 9. Click Connect via TCP/IP.
- 10. Click Read All.

Connect to xGenConnect using DLX900 on UltraSync

In order for DLX900 to connect to an xGenConnect system you will need the Download Access Passcode (under Communicator > Remote Access menu) and the xGenConnect unit must be enabled to allow remote connections (under Communicator > IP Config).

- 1. Install DLX900 on a suitable computer, refer to DLX900 installation instructions.
- 2. Start DLX900.
- 3. Create a new customer.
- 4. Enter the serial number, Download Access Passcode and Web Access Passcode of the system.
- 5. Click Save.
- 6. Click Connect via TCP/IP.
- 7. Click Read All.

Method 2: Web Server

xGenConnect has a built-in web server which makes it easy and simple to set up your system from a web browser instead of the keypad. This features:

• Simple forms to set up most commonly used features

- View system and zone status
- Arm and disarm partitions
- Bypass/Un-bypass zones
- Turn chime mode on and off
- Add, remove and edit users
- Access to the advanced programming menu

Connect to xGenConnect Web Server over LAN

- 1. Turn on power to your system
- 2. Connect an Ethernet cable to the J13 Ethernet port on the xGenConnect and wait 10 seconds for the local router to assign the xGenConnect an IP address if DHCP is available.
- 3. On the keypad press Menu, PIN, ENTER, go to Installer > Communicator > IP Configuration > IP Address and note the IP address displayed.
- 4. Open your web browser
- 5. Enter the IP address from step 3 and the xGenConnect login screen should appear. Some browsers may require you to enter http://

Sign In:	
Enter Your Name:	

6. Enter your username and password, by default this is installer and 9713.

Note: On EN Grade 3 panels all PIN codes are 6 digits, use installer 971300.

You should now see a screen similar to:

Logout	Partition 1
Arm/Disarm	Ready
Zones	-
Cameras	تد (l) 🖈 أ
History	Away Stay Off Chime
Change PIN	
Settings	
Advanced	

Troubleshooting

If you are unable to get an IP address in step 3, then your (wireless) router may not be configured for automatic DHCP or certain security settings may be enabled.

Check your router settings and try again.

 On a NXG-820 touchscreen keypad press Menu, PIN, ENTER, go to Installer > Communicator > IP Configuration > IP Options. "Enable DHCP" should be ticked, "Disable Web Pages on LAN" should be unticked.

Check LAN Connection to UltraSync

UltraSync is a cloud-based service that allows remote management and remote access to a xGenConnect system if enabled. This includes secure connections between the UltraSync+ app, xGenConnect, and cameras. No programming, email addresses, user names, or PIN codes are stored on these servers for greater security.

It features full redundancy to route encrypted alarm messages from your panel to a Central Monitoring Station.

- 1. Log in to the Web Server as shown above
- 2. Click Settings
- 3. Select Connection Status in the drop-down menu
- 4. Check:
 - LAN Status should display "Connected"
 - UltraSync Status should display "Connected"

- UltraSync Media should display "LAN" for Ethernet and "dual-path" for dual path

- UltraSync Media should display "Cellular" for single-path cellular

Logout	Connection Status ~
Arm/Disarm	Reload
Zones	Keloau
Cameras	Connection Status
History	LAN Status
Users	Connected UltraSync Status
Settings	Connected UltraSync Media
Advanced	LAN
	Radio Details
	Cell State
	Connected
	Cell Service

If it does not:

- 1. Check cable connection.
- 2. Check router settings.
- On the NXG-1820 touchscreen keypad press Menu, PIN, ENTER, go to Installer > Communicator > IP Configuration > IP Options. "Enable UltraSync" should be ticked.

Connect to xGenConnect via 4G Cellular and Wi-Fi Router Module

Note: Dual path is only available if the panel Ethernet reporting and the cellular module reporting are used.

An optional 4G Cellular and Wi-Fi Router Module provides dual-path reporting over Wi-Fi/Ethernet and 4G. If the primary path (Wi-Fi/Ethernet) is not working, the module will switch to 4G back-up reporting path to the central monitoring station.

Alternatively, the module can be set by the central monitoring station to use 4G single path reporting. This is useful for sites with no broadband internet.

The module is pre-configured. Once installed on the xGenConnect panel, it will automatically register on available mobile network(s). Refer to the 4G Cellular and Wi-Fi Router Module manual for further details.

Check 4G connection to UltraSync

- 1. Log in to the Web Server as shown above.
- 2. Click Settings.
- 3. Select Connection Status in the drop-down menu.
- 4. Check:
 - UltraSync Status should display "Connected".
 - Cell Service should display "Valid service".

- Signal Strength should display a value. Check your cellular radio manual for acceptable values.

Logout	
Arm/Disarm	
Zones	Reload
Cameras	Connection Status
History	LAN Status
Users	UltraSync Status
Settings	Connected UltraSync Modia
Advanced	LAN
	Radio Details
	Cell State Connected
	Cel Service

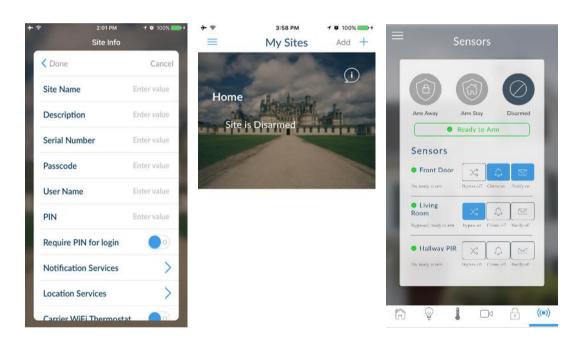
If it does not, check the 4G connection:

- 1. Check Settings > Network > Enable UltraSync is checked.
- 2. Alternatively from a keypad press MENU, go to Program > Communicator > IP Configuration > IP Options > Enable UltraSync: Y.
- 3. Look at Cell State, it should display "Connected". Please wait until Cell State displays "Connected", click Reload to refresh the status.

Signal level should be between -89 to -51.

- 4. Check module is correctly installed.
- 5. Check that antennas are correctly installed, move antennas to a higher location, install additional antennas to activate MIMO feature, or install high gain antenna(s).
- 6. Contact your service provider to check the SIM card is active and that cellular reporting is enabled for your unit on the UltraSync Portal.

Congratulations, your xGenConnect system is connected to your network and UltraSync. It is now ready to be programmed. Refer to "Programming with Web Pages" on page 44.



Method 3: UltraSync+ App

UltraSync+ is a smartphone app that allows you to:

- Check the status of your system
- Arm and Disarm partitions
- Bypass zones
- Manage users
- Perform system programming

Access from the app is disabled by default for security. To allow access these settings must be enabled on your xGenConnect system:

Web Access Code

It permits remote access from the UltraSync+ app. Set it to 00000000 to prevent the app from connecting.

User Name and PIN code

The UltraSync+ app requires any user name and PIN code to log in to the system and display features available to that user.

Set Web Access Code and change installer PIN code

To enable the UltraSync+ app:

- 1. On the NXG-1820 keypad press Menu, PIN, ENTER, go to Program, scroll down to UltraSync > Web Access Passcode.
- 2. Enter a new 8-digit Web Access Passcode.

Change installer PIN code:

- On the NXG-1820 keypad press Menu, PIN, ENTER, go to Users > Add/Modify
- 2. Enter a new PIN code.

Connect to xGenConnect via UltraSync+ app

UltraSync+ is an app that allows you to control your xGenConnect system from an Apple® iPhone/iPad, or Google Android device. First set up the xGenConnect Web Server then download this app. Carrier charges may apply and an Apple iTunes or Google account is required.

1. On your smartphone go to the Apple® App Store[™] or Google Play[™] store.



- 2. Search for UltraSync.
- 3. Install the app.
- 4. Click the icon on your device to launch it.
- 5. Click + on the top right to add a new site, or the (i) icon to edit an existing site.
- 6. Enter the details of your security system.

Locate the 12-digit serial number barcode on the xGenConnect circuit board. Alternatively log in to xGenConnect Web Server and go to Settings > Details to view it.

The default Web Access Passcode of 00000000 disables remote access. To change it, log in to xGenConnect Web Server and go to Settings > Network.

The default username and PIN code is "installer" 9713 (for an installer) and "User 1" 1234 (for a user). Please note that there is a space between "User" and "1". You may also use any other valid user account. Only menus a user has access to will be displayed.

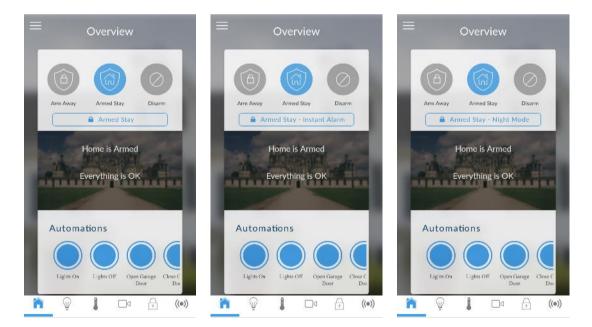
Note: EN 50131 Grade 3 default codes are 971300, 123400.

- 7. Click the Done button to save the details, then Sites to go back.
- 8. Click the name of the Site, the app will now connect you to xGenConnect.

Using the App

The first screen that will appear once you connect is the Overview screen. This will display the status of your system and allows you to arm or disarm partitions by touching Arm Away, Arm Stay, or Disarm. It also allows you to activate programmed automation scenes.







The menu bar is located along the bottom of the app. Touch the Zones icon (last icon with a dot and wireless signals) to view zone status.

- Touch Bypass to ignore a zone or touch it again to restore it to normal operation.
- Touch Chime to add or remove a zone from the Chime feature.
- Touch Notify to receive push notifications when there is activity from that zone.

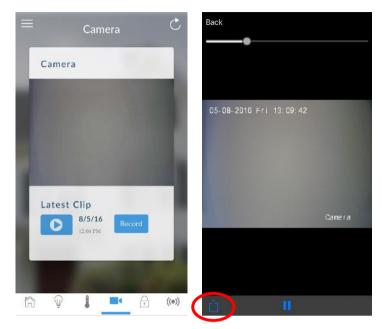


Touch the Camera icon to view cameras connected to your system.

Live snapshots from each camera will be shown.

• Touch the snapshot to open the live stream in full screen. Rotate your device to make the image bigger. Touch the screen then Back to return to the Camera screen.

- Touch the Play button under each camera to view the last recorded clip by that camera. Touch the Share button to save or forward the clip.
- Touch the Record button to request that camera record a short clip which can be retrieved at a later date.



Video clips can also be accessed from the History screen. Touch Menu , HISTORY, then change Selected Events to Video. Touch "Press to Play Video" to retrieve the clip from the camera. Once downloaded, you can save or forward the clip.

Overview		SITES	Turn	Off Away (168)	
		DEVICES	Home		
		Overview	User 1		
Arm Away Arm Stay	Disarmed	Lights	11:13 4 Nov	:14 AM	
Ready to Arm		Thermostat		2010	_
		Camera	Vidoo) Event (167)	
Home is Disarme	•d	Locks	Camer		
			Camer		
A DIGHERAN		Sensors		d Video	
Everything is Of	A STATE OF A		Recor 11:13	d Video :13 AM	
Everything is Of	A STATE OF A	Sensors USERS	Recor	d Video :13 AM	
Everything is Of	A STATE OF A		Recor 11:13	d Video :13 AM 2016	
	A STATE OF A	USERS	Recor 11:13 4 Nov	d Video :13 AM 2016	
Everything is Of Automations	A STATE OF A	USERS	Recor 11:13 4 Nov	d Video :13 AM 2016	
-	A STATE OF A	USERS	Recor 11:13 4 Nov Alarm	d Video :13 AM 2016)	
	A STATE OF A	USERS	Recor 11:13 4 Nov Alarm Front	d Video :13 AM 2016) a (166) Door	
Automations Lights On Lights Of Oper	A STATE OF A	USERS	Recor 11:13 4 Nov C Alarm Front Home	d Video :13 AM 2016) a (166) Door	

This History screen displays the event log of the xGenConnect, recording important events and allowing authorized users the ability to audit the system. Changing the Selected Events to Alarms will display the filtered Mandatory Event Log.

Events followed with an * have not yet been reported to a control room or have failed to report. Events followed with ** are for events not intending to be reported to a control room.

Master users will have access to the full Users menu for creating and managing users. Touch Menu , USERS. Change User Type to Custom to show additional options.

< Done		Cance
User Numbe	er 1	
First Name	User 1	
Last Name		
User Name	User 1	
PIN	1234	
Language	English	>
User Type	Master	>
Permission [Dates	>
	Delete User	

When you log in with the installer account you will have access to the ADVANCED menus for setting up and programming the xGenConnect. Refer to *xGen Reference Guide* for additional help on the Advanced screen.

SITES	
	Configuration Server
DEVICES	
Overview	Back Up Down S
Lights	
Thermostat	All On All Off Shor
Camera	
Locks	Select Menu:
Sensors	Users
Serisors	Zones
LICEDO	Areas
USERS	Channels
LIETODY	Communicator
HISTORY	Schedules
CETTINICS	Actions Arm-Disarm
SETTINGS	Devices
1 DUMUSED	Permissions
ADVANCED	Area Groups
	Menus
	Holidays
	Zone Types Zone Options
	Event Lists

Troubleshooting

If you have trouble connecting to your system using the app, here is a checklist:

• Check the serial number, web access passcode, user name and PIN codes match those in the xGenConnect.

- Web Access Passcode must not be 00000000.
- Web Access Passcode must be from 4 to 8 digits.
- User Name must be entered with a space between the first and last name and with correct capitalization.
- If connected by Wired LAN, check the cable is plugged in and that the connection is working.
- Check Settings > Network > Enable UltraSync is ticked.
- Check that your mobile device has access to the internet (e.g. open a web browser).
- Check the UltraSync servers are correct under Advanced > UltraSync:
 - Ethernet Server 1 eu1.ultraconnect.com:443
 - Ethernet Server 2 eu1.zerowire.com:443
 - Wireless Server 1 eu1w.ultraconnect.com:8081
 - Wireless Server 2 eu1w.zerowire.com:8081
- Power cycle connected equipment including xGenConnect and customer supplied router(s).

Method 4: NXG-1820 Keypad

The NXG-1820 is able to access all panel programming features with a valid installer code.

- 1. Press Menu, Installer PIN, ENTER, go to Program.
- Scroll through the menus using the up and down buttons. Refer to "Appendix 4: Advanced Menu Tree" on page 153.
- 3. Press an item to go down a level or to select an option. Press the back arrow to go up a level or to cancel without saving.
- 4. Repeatedly press the back arrow to return to the main menu.

Note: NetworX keypads (including NX-1820) have no access to xGenConnect programming menus.

Programming with Web Pages

Most commonly used features can be programmed from the xGenConnect Web Server > Settings menu. The same menus are displayed from the UltraSync+ app by clicking Menu > Settings.

Recommended Items to Change

- Installer Code. This is the master key to most features. Always change this to prevent accidental modifications by end-users and unauthorized access to the security system.
- User 1 PIN code is 1234 at default. Always change this to prevent unauthorized access to the security system.

Note: EN 50131 Grade 3 default codes are 971300, 123400.

 User 1 username is "User 1" at default, there is a space between "User" and "1". Usernames are required to provide access to the xGenConnect Web Server and UltraSync+ app.

Logout	
Arm/Disarm	Add Edit Delete Save
Zones	
Cameras	Select User Sort By Name
History	User 1 (1)
Users	1
Settings	First Name User 1
Advanced	Last Name
	PIN
	1234
	Language

- Web Access Passcode. This provides access to the xGenConnect Web Server, UltraSync, and UltraSync+ app.
- DLX900 access for upload/download is allowed if the panel is at factory default with the installer account set to PIN 9713. This is a convenience feature to allow the installer to connect to the panel for the first time and perform a Send All to program the panel. Once the installer PIN is changed,

the Download Access Passcode of 00000000 disallows DLX900 access. Log in to the Web Server and go to Settings > Network to change the code:

Logout		Settings Selector				
Arm/Disarm		Inetwo	Save			
Zones			Save			
Cameras	1	LAN	configur	ation		
History		IP Host Name				
Users		Enable DHCP				
- <i>u</i> :		IP Address	192	168	1	222
Settings		Gateway	192	168	1	1
Advanced		Subnet	255	255	255	0
	- 1	Primary DNS Secondary DNS	192 0	168 0	1	1
		Web Access Pass			5	_
		Download Access				
		Download Access				
		Automation User	Name			
		Automation PIN				
			00			
	Ĩ		Options			
		Enable Ping				
		Enable UltraSync Monitor LAN				
		Always Allow DLX	900			\checkmark
		Enable Web Prog	ram			\checkmark

Learning Wireless Zones

1. Log in to the Web Server.

Enter your usern	ame:	
installer		
Enter your passw	/ord:	
••••		

2. Enter your username and password, by default this is "installer" and "9713", then click Sign In.

3. You should now see a screen similar to the one shown below.



- 4. Click Settings.
- 5. Click Zones.
- 6. Click Learn:

Logout	Settings Selector	Settings Selector				
Logoul	Zones	~				
Arm/Disarm	Up Down	Save				
Zones						
Cameras	Zone Add/Remove Fur	ictions				
History	Learn Remove	Cancel				
Users						
Settings	Select Zone to Configure:					
Advanced	Zone Name	1 Zone 💌				
	Zana Tuna					

- 7. Activate the zone. Consult the detector manual for instructions, generally this is performed by opening the detector's case. This will send a tamper signal to xGenConnect.
- 8. The screen will indicate the device has been learnt and a serial number will appear.
- 9. Customize zone settings if required by referring to the Zone Guide, Zone Profile Type Guide, and Zone Options Guide on the following pages.

Default Number	Default Name	Zone Attribute	Siren Attribute	Keypad Sounder	Report Delay	No Keypad Display	Momentary Switch	Zone Inhibit	Swinger Shutdown
		Armed							
1	Day Zone	Instant	Yelping	Y	Y	Ν	Ν	Ν	Y
2	24 Hour Audible	Instant	Yelping	Y	Y	N	N	N	Y
3	Entry Exit Delay 1	Entry 1	Yelping	Y	Y	Ν	Ν	Ν	Y
4	Entry Exit Delay 2	Entry 2	Yelping	Y	Y	Ν	Ν	Ν	Y
5	Follower	Handover	Yelping	Y	Y	Ν	Ν	Ν	Y
6	Instant	Instant	Yelping	Y	Y	Ν	Ν	Ν	Y
7	24 Hour Silent	Instant	Silent	Ν	Y	Ν	Ν	Ν	Y
8	Fire Alarm	Fire	Fire	Y	Ν	Ν	Ν	Ν	Ν
9	Entry Exit Delay 1 Auto-Bypass	Entry 1	Yelping	Y	Y	Ν	Ν	Y	Y
10	Entry Exit Delay 2 Auto-Bypass	Entry 2	Yelping	Y	Y	Ν	Ν	Y	Y
11	Instant Auto-Bypass	Instant	Yelping	Y	Y	Ν	Ν	Y	Y
12	Event Only	Event Only	Silent	Ν	Ν	Y	Ν	Ν	Ν
13	Momentary Key Switch	Keyswitch	Silent	Ν	Ν	Ν	Y	Ν	Ν
14	Latching Key Switch	Keyswitch	Silent	Ν	Ν	Ν	Ν	Ν	Ν
15	CO Detector	Instant	Four Pulse	Y	Ν	Ν	Ν	Ν	Ν
16	Exit Terminate	Exit Terminate	Silent	Ν	Ν	Ν	Ν	Ν	Ν
17	Holdup	Holdup Delay	Silent	Ν	Ν	Ν	Ν	Ν	Ν
18	24 Hour Local Sounder	Instant	Silent	Y	N	Ν	N	N	Ν
		Disarmed							
1	Day Zone	Local	Silent	Y	Ν	Ν	N	Ν	Ν
2	24 Hour Audible	Instant	Yelping	Y	Y	N	N	N	Y
3	Entry Exit Delay 1	Event Only	Silent	N	N	N	N	N	Ν
4	Entry Exit Delay 2	Event Only	Silent	Ν	Ν	Ν	N	Ν	Ν
5	Follower	Event Only	Silent	Ν	N	Ν	N	N	Ν
6	Instant	Event Only	Silent	Ν	N	Ν	N	Ν	Ν
7	24 Hour Silent	Instant	Silent	N	Y	N	N	N	Y
8	Fire Alarm	Fire	Fire	Y	N	N	N	N	N
9	Entry Exit Delay 1 Auto-Bypass	Event Only	Silent	N	N	N	N	N	N
10	Entry Exit Delay 2 Auto-Bypass	Event Only	Silent	N	N	N	N	N	N
11	Instant Auto-Bypass	Event Only	Silent	Ν	Ν	Ν	N	N	Ν

Zone Types Table

Default Number	Default Name	Zone Attribute	Siren Attribute	Keypad Sounder	Report Delay	No Keypad Display	Momentary Switch	Zone Inhibit	Swinger Shutdown
12	Event Only	Event Only	Silent	N	Ν	Y	N	Ν	Ν
13	Momentary Key Switch	Keyswitch	Silent	Ν	Ν	Ν	Y	Ν	Ν
14	Latching Key Switch	Keyswitch	Silent	Ν	Ν	Ν	Ν	Ν	Ν
15	CO Detector	Instant	Four Pulse	Y	Ν	Ν	Ν	Ν	Ν
16	Exit Terminate	Event Only	Silent	Ν	Ν	Ν	Ν	Ν	Ν
17	Holdup	Holdup Delay	Silent	Ν	Ν	Ν	Ν	Ν	Ν
18	24 Hour Local Sounder	Instant	Silent	Y	Ν	Ν	Ν	Ν	Ν

Zone Options Table

		Zo	Zone Options											Zo	ne	Rep	orti	ing	Zone Contact Options			
Default Number	Default Name	Bypassed Stay Mode	Forced Arm Enabled	Bypass	Cross Zone	EOL	Automatic Zone Test	Night Mode	Zone Inactivity Test	Follow Any Armed Area	Final Set Door	Single EOL	Delayed in Stay	Alarms	Alarm Restores	Bypass-Unbypass	Zone Lost-Low Battery	Zone Trouble and Restore	Normally Open	Fast Loop	Zone Report Event	
1	Bypass			Y		Y								Y	Y	Y	Y	Y			130:BA	
2	Bypass Stay	Y	Y	Y		Y								Y	Y	Y	Y	Y			132:BA	
3	Bypass – Forced Arm		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
4	Bypass – Cross Zone			Y	Y	Y								Y	Y	Y	Y	Y			130:BA	
5	Fire		Y			Y								Y	Y	Y	Y	Y			110:FA	
6	Panic		Y			Y								Y	Y	Y	Y	Y			120:PA	
7	Silent Panic					Y								Y	Y	Y	Y	Y			122:HA	
8	Normally Open no EOL			Y										Y	Y	Y	Y	Y	Y		130:BA	
9	Normally Closed no EOL			Y										Y	Y	Y	Y	Y			130:BA	
10	Gas Detected					Y								Υ	Y	Y	Y	Y			151:GA	
11	High Temp					Y								Y	Y	Y	Y	Y			158:KA	

		Zo	Zone Options											Zone Reporting						e itact ions		
Default Number	Default Name	Bypassed Stay Mode	Forced Arm Enabled	Bypass	Cross Zone	EOL	Automatic Zone Test	Night Mode	Zone Inactivity Test	Follow Any Armed Area	Final Set Door	Single EOL	Delayed in Stay	Alarms	Alarm Restores	Bypass-Unbypass	Zone Lost-Low Battery	Zone Trouble and Restore	Normally Open	Fast Loop	Zone Report Event	
12	Water Leakage					Υ								Y	Y	Υ	Υ	Υ			154:WA	
13	Low Temp					Y								Y	Y	Y	Y	Y			159:ZA	
14	High Temp					Y								Y	Y	Y	Y	Y			158:KH	
15	Fire Alarm Pull Station					Y								Y	Y	Y	Y	Y			115:FA	
16	Night Mode	Y		Y		Y		Y						Y	Y	Y	Y	Y			135:BA	
17	Final Set Door			Y		Y					Y			Y	Y	Y	Y	Y			130:BA	
18	Medical		Y			Y								Y	Y	Y	Y	Y			100:MA	
19	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
20	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
21	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
22	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
23	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
24	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
25	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
26	Blank		Υ	Y		Υ								Y	Y	Y	Y	Y			130:BA	
27	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
28	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
29	Blank		Y	Y		Y								Y	Y	Y	Y	Υ			130:BA	
30	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
31	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	
32	Blank		Y	Y		Y								Y	Y	Y	Y	Y			130:BA	

Adding a User

The xGenConnect system supports up to 100 users. Each user is assigned a PIN code and a user number. This allows them to interact with the system.

1. Log in to the Web Server.



- 2. Enter your username and password. A master code is required to add users, by default this is "User 1" (with a space between "User" and "1") and "1234". Then click Sign In.
- 3. The Arm/Disarm screen will appear:

Logout	Area 1
Arm/Disarm	Ready
Zones	
Cameras	تر (l) 🖈 👬
History	Away Stay Off Chime
Users	
Settings	

4. Click Users.

Logout	Coningure Osers										
Arm/Disarm	Add	Edit	Delete	Save							
Zones	<u> </u>										
Cameras	Select User	r 🗌] Sort By Na	me							
	User 1 (1)	~									
History	User Numb										
Users	First Name	t									
0.000	FIISLIVAILIE	E.		I							

- 5. Click Add.
- 6. Enter a unique PIN code between 4 and 8 digits.
- 7. Enter a First and/or Last Name.
- 8. Select a User Type:

- Master users can arm and disarm partitions. They can create, delete, or modify user codes. They can also change system settings.

- **Standard users** can arm and disarm partitions. But they cannot create users or review event history.

- Arm only users can only turn on the security system, they cannot disarm, or dismiss any system conditions.

- **Duress users** will send a duress event when they are used to arm or disarm the system.

- Custom users can have additional permissions and settings configured.

9. Click Save.

Adding a Keyfob

- 1. Log in to the Web Server.
- 2. Click Settings.
- 3. Click Keyfobs.
- 4. Use the drop-down menu to select the keyfob number you want to add to the system.

Settings	Selector							
Keyfob	s	\sim						
Up	Down	Save						
Zone A	dd/Remove Fu	inctions						
Learn	Remove	Cancel						
Select Keyfob t	o Configure:	65 KeyFob 🗸						
User								
Use FOB Number as Standard User $$								
	imber as Stand	ard User 🗸						
Police								
Police No Siren on Po		ard User 🗸						
Police								

- 5. Click Learn.
- Trigger the keyfob learning function for 2 seconds (on 63-bit keyfobs hold down the arm and disarm buttons, on 80plus keyfobs hold down the Arm + 2 buttons). The screen will show the keyfob has been found and the Serial Number will appear.

The keyfob will have access to Area 1 and the panel will report the **keyfob number** to the Central Monitoring Station when it is used.

7. Click Save.

Advanced Keyfob Programming

Three levels of access are possible:

- 1. Area 1 only: This is the default behaviour after learning a keyfob. The User is set to "Use FOB Number as Standard User".
- 2. All partitions: Click the drop-down User menu to assign the keyfob a User number. The keyfob will inherit partitions and permissions of that user. New users and the default Master and Standard user accounts have access to ALL

partitions. This **user number** is reported to the Central Monitoring Station when the keyfob is used.

3. Custom permissions > Keyfobs can be restricted to selected partitions.

Simple Method: navigate to the User menu and select a suitable Area Group. The arm and disarm buttons on the keyfob will arm/disarm all partitions in the Area Group.

Advanced Method:

- a. Create a new User.
- b. Change the User Type to Custom.
- c. Assign an unused Permission to the User.

d. Create one or more Area Groups. Each one has a set of selected partitions.

e. Modify the Permission and assign the appropriate Area Group to the Control Groups displayed. For example, the Permission can Away Arm both Area 1 and 2, but Disarm only Area 1.

- f. Return to the Settings > Keyfob menu.
- g. Select the User that has been created.

The keyfob is now linked to the custom user, and the custom permissions will be applied. When the arm button is pressed, all partitions in the Away Arm Control Group will be away armed. When the disarm button is pressed, all partitions in the Disarm Control Group will be disarmed.

Keyfob Options:

- Tick the Police option to allow Panic Alarms to be sent to the Central Monitoring Station when Arm + Disarm Buttons are pressed at the same time. In addition, the panel will display the status and sound audible alerts. Please consult with your Central Monitoring Station what action will be taken.
- Tick "No Siren on Police" for Silent Panic, when activated the xGenConnect will have no indication the panic has been triggered, the Silent Panic event will be sent to the Central Monitoring Station. Please consult with your Central Monitoring Station what action will be taken.
- Tick Auxiliary to allow the keyfob to send an Auxiliary Alarm. On the 63-bit keyfob this is performed when the LIGHT and STAR buttons are pressed at the same time, on the 80plus keyfob this is performed when 1 and 2 buttons are pressed. Please consult with your Central Monitoring Station what action will be taken.
- Select a pre-programmed Scene from the drop-down menu. When the Scene button is pressed on that specific keyfob, the xGenConnect will "run" this scene. On the 63-bit keyfob this is the LIGHT button, on the 80plus keyfob this is the 2 button.

Note: When programming the Scene under the Settings > Scenes menu, the "Scene Trigger" is optional. Select the actions you want to be performed when the scene is "run" by the keyfob.

Programming Cameras

Adding Cameras Using the New Device Setup

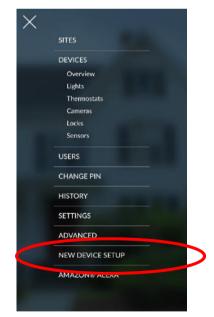
The UltraSync+ app has a built-in guide to help you add cameras. This feature is supported on the Bullet Camera, Desktop Camera, and Doorbell Camera. Cameras must be connected to the same network as the xGenConnect.

Before adding cameras:

- The xGenConnect must be programmed
- The UltraSync+ app must be able to connect to the site

To add a camera:

- Connect power to the camera using the included plug pack. It will take 3 to 4 min to initialize. A new camera out of the box will automatically start Wi-Fi Discovery Mode if no Ethernet cable is connected.
- 2. Launch UltraSync+ app on a smartphone.
- 3. Click the site name to connect to the panel.
- 4. Click Menu New Device Setup



5. Follow the on-screen instructions.

Adding Cameras using the Settings Screen

Cameras contain advanced options and features which can be programmed directly in the camera. These may include:

- Image adjustment
- Noise reduction

- Day/Night settings
- IR mode
- Recording format / quality / codec
- Storage allocation and formatting the micro SD card (if included)
- Advanced network configuration
- Time zone and daylight savings
- Camera naming and text overlay
- Privacy mask

Only perform these steps if you are familiar with the operation of the camera. Incorrect settings may cause the camera to perform poorly. Default the camera to factory settings if this occurs.

- 1. Connect the camera with an Ethernet cable to the same router / local area network as the panel.
- 2. Program the camera by following the camera's manual. Take care when changing quality settings exceeding the customer's upload bandwidth will cause the camera to appear slow or unresponsive.
- 3. If a Wi-Fi connection is preferred:
 - a. Enter the Wi-Fi router's details on the Network Wi-Fi tab
 - b. Click Save
 - c. Check "Connected" appears
 - d. Disconnect the Ethernet cable
 - e. Reboot the camera
- 4. From your iOS or Android device, open the UltraSync+ app.
- 5. Add the panel details with the installer account / PIN.
- 6. Log in to the site as the installer.
- 7. Touch Menu E then Settings.
- 8. Select Cameras under the Settings Selector.



- 9. Click Scan for New Cameras. "Scanning..." will appear on the button, please wait for the message to disappear. The MAC Address will automatically be filled in.
- 10. Enter a Camera Name.
- 11. For Doorbell Camera, enable options for button press if desired.
- 12. Click Save.

Note: The camera may take up to 3 minutes to finalize the link with ZeroWire and display on the Cameras screen of the app.

- 13. Close and relaunch the app.
- 14. Check video streaming and video clip playback can be performed. Lower the quality settings or recording duration if video appears slow or unresponsive.

Viewing Live Stream and Latest Clip

- 1. Click Camera icon on bottom of the screen.
- 2. All available cameras will be shown.



- 3. Click Live Stream to view the live video of a specific camera.
- Click Latest Clip to view the last recorded clip from a specific camera. Please wait while the ZeroWire servers retrieve the last recorded video clip from the selected camera.
- 5. Click the Share button to download or forward the clip.

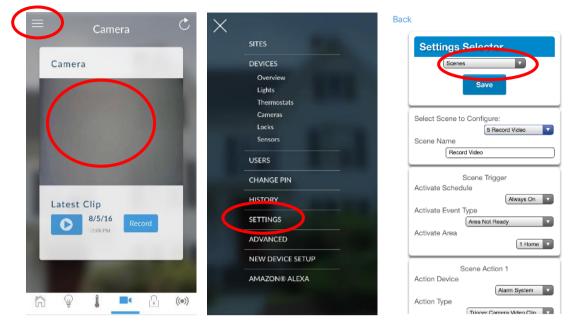
Programming event triggered camera clips

The panel can be programmed to capture a short video clip when selected events occur on the system. These clips can later be viewed from the UltraSync+ app.

The installer or master user must program which events should trigger video recording.

This is achieved using the Scenes feature.

Note: Ensure you can view the Live Stream from the camera before continuing.



- 1. Log in to the UltraSync+ app.
- 2. Touch Menu E then Settings.
- 3. Select Scenes under the Settings Selector.
- 4. Select the Scene to Configure and type a Scene Name.
- 5. Leave the "Enable App Button" ticked to show a shortcut button on the home screen of the UltraSync+ app. Untick this option to hide it.
- 6. Select the Activate Schedule Always On to allow recording at all times.
- 7. Select the event that will trigger recording a video clip using the Activate Event Type drop-down box.
- 8. Select the Activate Zone/Area/User/Action if applicable.
- 9. Select Action Device (1) Alarm System, Action Type "Trigger Camera Video Clip", then the cameras you wish to record a video clip when the event is triggered.
- 10. Click Save, Back.
- 11. Activate the event and wait for the programmed recording time (typically 15 seconds). Camera will record to the camera's microSD card.
- 12. Click the camera icon and check the video clip plays back.

Viewing event triggered clips in History

1. Touch Menu = then HISTORY.

2. Find the video event by using the navigation buttons and scrolling down.

	×	\equiv History \mathbf{Y}
	SITES	
	DEVICES	Turn Off Away Home
	Overview	User 1
Ann Away Ann Stay Disarmed	Lights	11:56:12 AM
Ready to Arm	Thermostat	23 Mar 2017
	Camera	
Home is Disarmed	Locks	Turn On Away
A MARRIEL	Sensors	Home User 1
Everything is OK	USERS	11:56:09 AM 23 Mar 2017
	HISTORY	
Automations	SETTINGS	Video Event Câmera
Lights On Lights Off Open Genrager Close C Dear Dea	ADVANCED	User 11:55:49 AM 23 Mar 2017
		Turn Off Away Home

Note: For faster searching you can show only Video events by selecting Video in Select Events.

- 3. Tap the event to play the video.
- 4. Click the Share button to download or forward the clip.

Troubleshooting Cameras

The panel and camera must be on the same subnet. Check IP address of panel and camera. For example, 192.168.33.xxx, first three sets of numbers must match on both devices.

Check device is communicating on network. Use a command prompt (cmd) in Windows to ping the panel and the camera. If both reply successfully then your device is connected correctly on the network. Alternatively, 3rd party network scanning apps and tools may be of assistance during installation.

Check the Settings > Connection Status web page. UltraSync Status must show connected. If not, contact your service provider for help. The panel may require to be "provisioned" and added to the web portal in order to authenticate to the cloud servers which the cameras will connect to.

Only cameras specified for use with your panel will work. These cameras have additional encryption and security to protect against unauthorised 3rd party access.

Live video streams can only be viewed from the app. Try switching your smartphone between mobile data and Wi-Fi to try a different connection.

Configuring Email Reports

- 1. Log in to xGenConnect. Use an installer or master user account.
- 2. Click Settings.

- 3. Click Channels in the drop-down menu.
- 4. Click "Select Channel to Configure" where the Format is already set to Email.

Logout	Channels
Arm/Disarm	Up Down Save
Zones	
Cameras	Select Channel to Configure.
History	Channel Name
Users	Email 1
Settings	Account Number
Advanced	0 Format
	Email
	Destination
	English 💌

- 5. Enter an email address in the Destination field.
- 6. Select an Event List.
- 7. Enter a Channel Name for future reference.
- 8. Click Save.

Installer and Engineer user types can customize Event List for selective reporting.

Configuring OH Reports

In certain applications, the xGenConnect can be configured to support nonprovisioned Osborne-Hoffman Reporting. This is done by entering specially formatted text in Channel > Destination.

Setting Up OH Reporting

- 1. The panel must not be provisioned in the UltraConnect Servers.
- 2. This configuration must be in reporting Channel 1. Click Settings > Channels to view Channel 1.
- 3. Select one the OH options in the channels report format field. Between CID and SIA; and between Cellular, IP, and Dual path.
- 4. In the Destination field, enter the OH Configuration using the format ip_address:ip_port:R:L:Reporting_period:Supervision_port LAN_Fault_Delay:Cell_fault_Delay. See below for details.

OH Configuration

Only ip_address:ip_port are mandatory to switch this feature on. Consult your central station for the correct values.

```
ip_address : ip_port : R : L : Polling interval_period :
Supervision port
```

Field description:

- ip_address: Public IP address of the OH Net Receiver.
- ip_port: IP port of OH Net Receiver.
- R: Receiver number in the OH message (optional), may be one or two hexadecimal characters (0–9, A–F), default is one (1) if left blank.
- L: Line number in the OH message (optional), must be single hexadecimal character (0–9, A–F), default is one (1) if left blank.
- Polling interval period: The number of seconds between OH heartbeat messages (optional). This will be initiated on the server on behalf of the panel. If specified it must be set at 1800 or above.
- Supervision_port: IP port of the OH Net Receiver Supervision port (optional). OH heartbeat messages will be sent to this port at the specified reporting period.
- LAN_Fault_Delay: The number of seconds for the LAN failure delay reporting to OH. If set, it must be a number between 90 and 255. The minimum delay is 90 seconds. If the path is restored within this time window, no fault event will be reported to OH.
- Cell_Fault_Delay: The number of seconds for the Cellular failure delay reporting to OH. If set, it must be a number between 90 and 255. The minimum delay is 90 seconds. If the path is restored within this time window, no fault event will be reported to OH.

Each field is separated by a colon ":" and no spaces.

Examples

All fields specified 11.22.33.44:9999:20:1:1800:8799:90:180

If you configure the Destination as "11.22.33.44:4099", the OH receiver will receive the alarm events and the "R&L" will be 1:1.

Similarly, if the Destination is set to "11.22.33.44:4099:2", the "R&L" will be 2:1.

The heartbeat interval is set to 1800 seconds (30 min) and is sent to OH, port 8799.

The LAN fault delay is set to 90 seconds. In case a LAN failure occurs and is restored within 90 seconds, the LAN fault message will not be reported to OH. If the fault remains present for a longer period, the LAN fault message will be reported after 90 seconds.

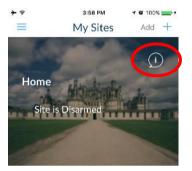
The Cellular fault delay is set to 180 seconds. In case a cellular failure occurs and is restored within 180 seconds, the cellular fault message will not be reported to OH. If the fault remains present for a longer period, the LAN fault message will be reported after 180 seconds.

Enabling Push Notifications on Smartphone

Smartphones with the UltraSync+ app can receive push notifications from the panel when system events occur.

You will need to have a:

- Fully configured and online xGenConnect system.
- Fully configured smartphone with internet access and Apple / Google account details. This must be signed in to the relevant Apple ID / Google account so their servers can deliver the message to the device.
- 1. Open the UltraSync+ app.
- 2. Click the edit button next to the site you wish to receive notifications from.



3. Click Notification Services.

-	÷ হ 3:22	PM 🕈 🛛 70% 🛄) +	
	Site	Info	
	< Done	Cancel	
	Site Name	Home	
	Description	Entervalue	
	Serial Number	489847249652	
	Passcode		
	User Name	User 1	
_	PIN		
	Require PIN for lo	gin 💽 💿	
	Notification Servi	ces	>
	Location Services	>	
	Carrier WiEi Ther	mostat	

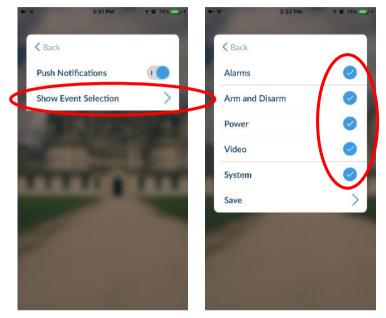
4. Enable Push Notifications.



5. Wait for the registration process to complete.

Note: A maximum of 13 devices can receive push notifications. Each device will occupy a Channel slot. Each channel will automatically be assigned the corresponding event list number.

- 6. Optional select the events to be notified for:
 - a. Click Show event selection.



- b. Select the events you want a notification for.
- c. Click Save >.
- d. Click Back.
- 7. Click Back.
- 8. Click Done.

Note: If the device will no longer be used, repeat these steps and disable Push Notifications to free up the channel position for future use.

Troubleshooting Notifications

If notifications are not working:

 Check you can see the Arm/Disarm screen of the device you wish to receive notifications from, this ensures you have authority to access the xGenConnect.



- Check the xGenConnect has at least one unused channel: Log in to the Web Server and access the Settings > Channels screen.
- Check your site is registered for notifications in the app (follow instructions above).

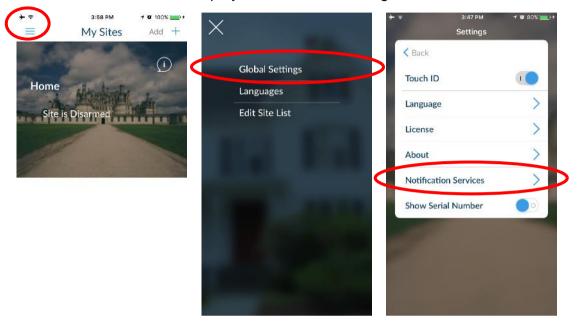


- Check your smartphone has notifications enabled (on Apple iOS click Settings, Notifications, scroll down and click UltraSync, check "Allow Notifications" and "Show in Notification Centre" are enabled, optionally select the Alert Style as Banners or Alerts).
- If you are on iOS, ensure your phone is logged into your Apple account under iTunes or iCloud.

If you are on Android, ensure your phone is logged into your Google account under Google Play or Settings. This is required as UltraSync sends the push notification to Apple and Google servers for delivery to your device. "Rooted" or "Jailbroken" phones may not have the required software to receive push notifications.

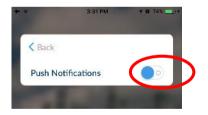
• Update your device to the latest version.

- If you have multiple devices registered to receive notifications, each device must have a unique name. This is set in the UltraSync+ app:
 - 1. Touch Menu From the Sites screen.
 - 2. Touch Global Settings.
 - 3. Touch Notification Services.
 - 4. The device name is displayed and can be changed.



Removing Notifications

Follow the steps above and disable the "Push Notifications" option. This will automatically delete your device from the server and xGenConnect.



If you do not have access to the device, the xGenConnect can be modified to stop sending the notifications:

- 1. Log in to the Web Server.
- 2. Click Settings.
- 3. Click Channels from the drop-down list.

4. Click the Channel Number in the drop-down list, your device name will appear.

Chann		*
Up		
	Down	Save
Relect Chann	to Configure:	
Channel Name		_
	2 Central Stat 3 Central Stat	ion Backup 1
	4 smartphone	_u1
Account Numb	6 Email 3	
	7 Email 4	
Format		
	10 Email 7	
Destination	11 Email 8	
	12 Email 9	
Language		
Next Channel	16 Email 13	
	disabled	
Event List	-	
	Ŀ	4 Event List
Attempts		
	Channel Name Account Numb Format Destination Language Next Channel	2 Central Stat 3 Central Stat 3 Central Stat 4 Smartchone 6 Email 3 7 Email 4 Format 8 Email 5 9 Email 6 Destination 10 Email 7 11 Email 8 12 Email 9 Language 13 Email 10 14 Email 11 Next Channel 15 Email 12 16 Email 12 16 Email 12 16 Email 12

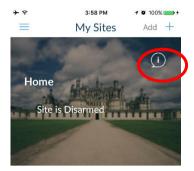
5. Delete the content of the Destination field.

Logout	Chann	els 💌	1
Arm/Disarm	Up	Down Save	
Sensors			
Cameras	Select Channe	I to Configure:	
Rooms	Channel Name	4 smartphone_u1 💌	
History		smartphone_u1	
Change PIN	Account Numb		
Settings	Format	0]
Advanced	Destination	Email	
	Language	smartphone@u1	り
	Next Channel	English	
		disabled 💌	
	Event List	4 Event List 👻	
	Attempts	3]

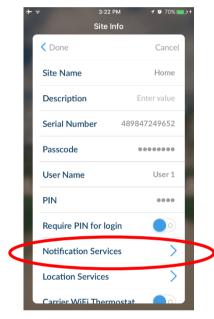
- 6. Click Save.
- 7. Your device will no longer receive notifications from this xGenConnect and the Channel is available to be reused.

Enable SMS Notification

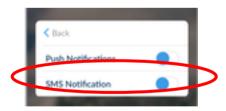
- 1. Open the UltraSync+ app.
- 2. Click the edit button next to the site you wish to receive notifications from.



3. Click Notification Services.



4. Enable SMS Notifications.

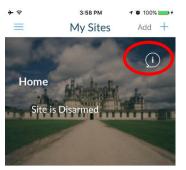


- 5. Type in the destination mobile phone number.
- 6. Tap Back.
- 7. Tap Done.

Disable SMS Notification

1. Open the UltraSync+ app.

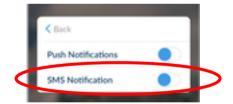
2. Click the edit button next to the site you wish to stop SMS notifications from.



3. Click Notification Services.

+	≎ 3:2: Site	2 PM 1 10 70% () → 4 Info	
	Oone	Cancel	
	Site Name	Home	
	Description	Enter value	
	Serial Number	489847249652	
	Passcode	•••••	
	User Name	User 1	
1	PIN		
à	Require PIN for lo	ogin	
\triangleleft	Notification Servi	ices >	
	Location Services	>	
	Carrier WiEi Ther	mostat	

4. Disable SMS Notifications.



- 5. By switching off SMS Notification, the mobile phone number will be deleted from this device's Channel.
- 6. Tap Back.
- 7. Tap Done.

Z-Wave Home Automation Hub

If the xGenConnect has been purchased with Z-Wave capabilities, the xGenConnect system is a security enabled Z-Wave controller supporting selected Z-Wave compliant devices including light switches, dimmers, thermostats, and secure/encrypted door locks.

A secure Z-Wave controller is required to fully utilize the product. xGenConnect can act as a secure Z-Wave controller.

Z-Wave compliant devices regardless of manufacturer can be used in the same network and always-on devices can function as repeaters to extend the range of Z-Wave devices.

Door locks which support secure encryption can be used, unencrypted locks cannot be added to xGenConnect.

xGenConnect may natively support setting and retrieving on/off states, setting and retrieving dimming levels, and locking/unlocking.

Adding Z-Wave Devices

- 1. Log in to the Web Server.
- 2. Click Settings > Rooms and edit Room Names.
- 3. Click Settings > Z-Wave Add/Remove. Appropriate access level is required for programming the Z-Wave devices into xGenConnect.

Logout Arm/Disarm	Settings Selector Zwave Add/Remove
Sensors	
Cameras	Zwave Device Selector
Rooms	(1) Room 1 - (1) Alarm System
History	
Users	
Settings	
Advanced	Device Room Location
	Device Name:
	(1) Alarm System Device Add/Remove Functions
	Add Remove Cancel
	Tick For High Power Add Option

4. If a Z-Wave device has been added before or to another system, you must first remove it before adding it to this system. To do this, click Remove, then activate LINK or REMOVE mode on the device.

5. Click Add.

gout	Settings Selector
/Disarm	Up Down Save
ors	
IS	Zwave Device Selector
	(1) Room 1 - (1) Alarm System
	Adding - Learn Ready. Activate Device Learn Sequence or Press
	Cancel
Ł	Device Room Location
	Device Name:
	(1) Alarm System Device Add/Remove Functions
	Add Remove Cancel

- 6. Initiate LINK or ADD mode on Z-Wave device. See your Z-Wave device's manual for instructions.
- 7. Click Rooms.
- 8. Check you can see the device you just added. Click a button such as ON or OFF to verify you can control the device.

Programming Z-Wave Siren

Some Z-Wave sirens identify themselves to xGenConnect as a true siren, while others identify themselves as binary on\off switches. There are slightly different programming steps for each.

If you have added a Z-Wave siren that identifies as a binary on/off type, you can program it to activate when the xGenConnect siren activates:

- 1. Log in to the panel.
- 2. Click Advanced > Devices > Zwave Devices.
- 3. Select the Z-Wave siren in the drop-down list.
- 4. Click Zwave Options.
- 5. Enable Siren Mode.
- 6. Click Save.
- 7. Arm your system and trip a sensor to cause the built-in xGenConnect siren to activate. Verify your Z-Wave siren also activates.
- 8. Disarm your system.

Some Z-wave sirens can follow each keypad beep during Exit Delay and Entry Delay. This is enabled under:

- 1. Log in to the panel.
- 2. Click Advanced > System > Siren Options.
- 3. Enable Z-Wave Siren Chirps Entry and Exit.
- 4. Click Save.

When this option is disabled, only the built-in xGenConnect siren should sound during Entry and Exit Delay.

Note: Some Z-wave sirens have a built-in 30 second timer and ignore advanced features.

Removing Z-Wave Devices

- 1. Log in to the panel.
- 2. Click Settings > Z-Wave Add/Remove.

Logout Arm/Disarm	Settings Selector
Sensors	Up Down Save
Cameras	Zwave Device Selector
Rooms	(1) Room 1 - (1) Alarm System
History	
Users	
Settings	
Advanced	Device Room Location
	Device Name: (1) Alarm System Device Add/Remove Functions
	Add Remove Cancel
	Ick For High Power Add Option

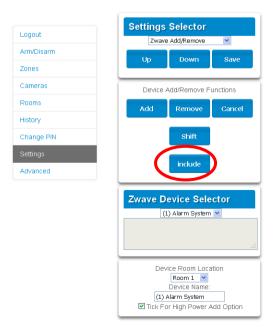
3. Click Remove.

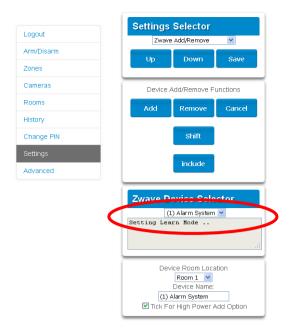
Settings Selector
Zwave Add/Remove 🛛 👻
Up Down Save
Zurun Darita Orlantar
Zwave Device Selector
(1) Room 1 - (1) Alarm System 💙 Adding - Learn Ready, Activate
Device Learn Sequence or Press
Cancel
Device Room Location
Room 1 💌
Device Name:
(1) Alarm System Device Add/ <u>Remov</u> e Functions
Device Aud/Remove Functions
Add Remove Cancel
Tick For High Power Add Option

- 4. Press the include button on the Z-Wave device you want to remove. See your Z-Wave device's manual for instructions.
- 5. Device will no longer appear in xGenConnect menus.

Adding xGenConnect to existing Z-Wave network as Secondary Controller

- 1. Log in to the panel.
- 2. Click Settings > Z-Wave Add/Remove.
- 3. Start the Add process on the primary controller of the existing network.
- 4. Press the Include button on the xGenConnect (the secondary device):





Primary Controller will add xGenConnect to it.

xGenConnect Include button and status will update to indicate it has been added as Secondary Controller.

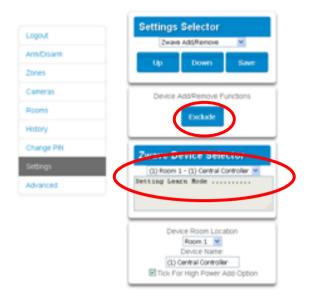
gout	Settings Selector
sarm	
	Up Down Save
i	Device Add/Remove Functions
	Exclude
PIN	Zwaye Device Selector
-	Zwave Device Selector
	Zwaye Device Selector (1) Room 1 - (1) Central Controller Alarm is Secondary Controller
PIN	(1) Room 1 - (1) Central Controller
	(1) Room 1 - (1) Central Controller Alarm is Secondary Controller Device Room Location
	(1) Room 1 - (1) Central Controller Alarm is Secondary Controller

5. Save settings on Primary Controller.

Removing xGenConnect from existing Z-Wave network as Secondary Controller

- 1. Log in to the panel.
- 2. Click Settings > Z-Wave Add/Remove.
- 3. Start the Remove process on the primary controller of the existing network.

4. Press the Exclude button on the xGenConnect (the secondary device):

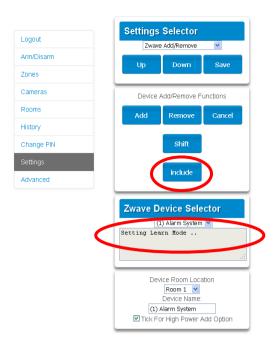


- 5. Primary Controller will remove xGenConnect from it.
- 6. xGenConnect status will update to indicate it has been added as Secondary Controller.
- 7. Save settings on Primary Controller.

Adding xGenConnect to existing Z-Wave network as Primary Controller

- 1. Log in to the panel.
- 2. Click Settings > Z-Wave Add/Remove.
- 3. Start the Control Shift function on the primary controller of the existing network. This will typically involve pressing a "Shift" button.

4. Press the Include button on the xGenConnect (the primary device):



5. xGenConnect now displays "Alarm is Primary Controller" to indicate successful shift:

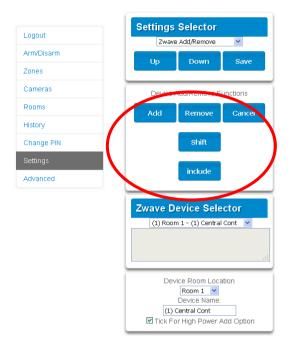
ıt	Settings Selector Zwave Add/Remove
m	Up Down Sav
	Device Add/Remove Functions
	Add Remove Can
	Shift
	include
C	Zwave Device Selector (1) Room 1 - (1) Central Controller Alarm is Primary Controller

6. xGenConnect will now be the Primary Z-Wave Controller, and the other network is the Secondary Z-Wave Controller.

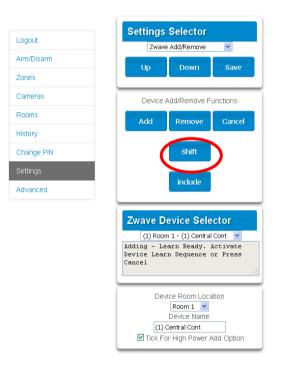
Relinquish Primary Control of xGenConnect to another Controller

- 1. Log in to the panel.
- 2. Click Settings > Z-Wave Add/Remove.

3. Check xGenConnect is the primary controller and a secondary controller is already learnt in to xGenConnect. xGenConnect in Primary Controller mode has Add, Remove, Cancel, Shift, and Include buttons.



4. Press the Shift button on xGenConnect (the Primary Controller).



5. Press the Exclude button on the Secondary Controller.

6. xGenConnect Primary Controller relinquishes control and becomes Secondary Controller. Only the Exclude button is visible indicating the xGenConnect is Secondary Controller.

Logout	Settings Selector
Arm/Disarm	Up Down Save
Zones	
Cameras	Device Add/Remove Functions
Rooms	Exclude
History	
Change PIN	Zwave Device Selector
Settings	(1) Room 1 - (1) Central Controller
Advanced	
	.::
	Device Room Location Room 1 V Device Name: (1) Central Controller V Tick For High Power Add Option

Secondary Controller shifts into Primary Controller.

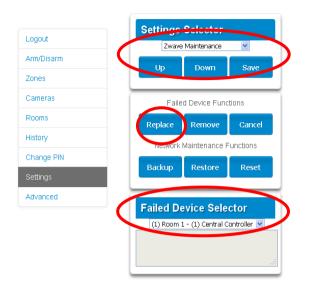
Creating a Device Association

Z-Wave supports a feature called "association". This allows you to control multiple Z-Wave devices such as lights or even a scene from a single Z-Wave on/off switch.

- 1. Click Settings > Zwave Device Association
- 2. Select the Z-Wave device from the drop-down menu.
- 3. Select an Association Group. Check the Z-Wave device's manual for supported groups.
- 4. Select one or more devices to associate. These are the devices that will change state when the device in step 2 is triggered.
- 5. Click Add.
- 6. Trigger the device in step 2.
- 7. Check that the devices in step 4 respond and turn on or off.

Replacing a Failed Node

- 1. Click Settings > Zwave Maintenance
- 2. On the Failed Device Selector, click the node to be replaced.



3. Click the Replace button.

Status will show "Device Not found in failed list" if the device is working.

4. Press the include button on the new node. The old device has now been replaced with the new device.

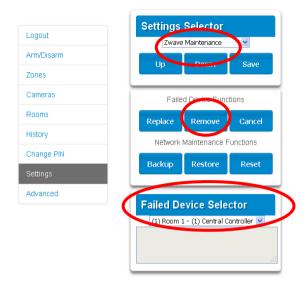
Creating a Device Association

- 1. Z-Wave supports a feature called "association". This allows you to control multiple Z-Wave devices such as lights or a scene from a single Z-Wave on/off switch.
- 2. Click Settings > Zwave Device Association
- 3. Select the Z-Wave device from the drop-down menu.
- 4. Select an Association Group. Check the Z-Wave device's manual for supported groups.
- 5. Select one or more devices to associate. These are the devices that will change state when the device in step 2 is triggered.
- 6. Click Add.
- 7. Trigger the device in step 2.
- 8. Check that the devices in step 4 respond and turn on or off.

Removing a Failed Node

- 1. Click Settings > Zwave Maintenance
- 2. On the Failed Device Selector, click the node to be removed.

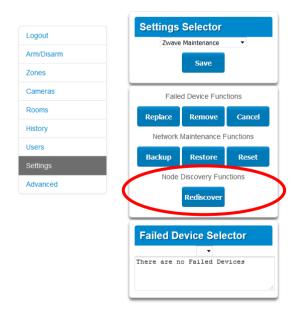
- 3. Click the Remove button.
- Status will show "Device Removed" when a failed device is removed.
 Or "Device Not found in failed list" if the device is working.



Rediscover Z-Wave Nodes

Z-Wave is a mesh network technology meaning each device can communicate with all nearby devices, and adding more devices generally provides better performance and range. After all Z-Wave devices have been added and installed in their final physical locations, follow these steps to "heal" the Z-Wave network and create the communication paths between each device:

- 1. Click Settings > Zwave Maintenance.
- 2. Click the Rediscover button.



Status will show "Rediscovering".

Status will show "Rediscovery Complete" when successful.

Backup Z-Wave Network

The panel contains a database of all Z-Wave devices and the network configuration. This is separate from the panel programming, and wireless transmitter devices. The Z-Wave Network can be backed up to the internal memory of the panel or downloaded to a computer using DLX900.

To perform a backup of the Z-Wave Network:

- 1. Click Settings > Zwave Maintenance.
- 2. Click the Backup button.

Status will show "Backing Up Network".

Status will show "Network Backed Up" when successful.

Reset Z-Wave Network

The panel contains a database of all Z-Wave devices and the network configuration. The Z-Wave Network can be cleared without affecting panel programming.

To reset the Z-Wave Network back to factory defaults:

- 1. Click Settings > Zwave Maintenance.
- 2. Click the Reset button.
- 3. Click OK to warning message.

Status will show "Resetting Network".

Status will show "Network Reset" when successful.

Restore Z-Wave Network

The panel contains a database of all Z-Wave devices and the network configuration. If a backup has been previously made, the Z-Wave Network can be restored.

To perform a Z-Wave Network restore:

- 1. Click Settings > Zwave Maintenance.
- 2. Click the Restore button.

Status will show "Restoring Network".

Status will show "Restore Complete" when successful.

Allow a few minutes for the network to refresh itself before programming devices.

Send User PINs to Z-Wave Door Lock

xGenConnect can send user PIN codes to a Z-Wave Door Lock. This allows the same PIN codes on the alarm system to operate the door lock.

This feature is available to User Types > Engineer, Master, and Custom users with Z-Wave menu access.

Communication is one way from the xGenConnect to the lock, instructing the lock to add or remove PIN codes. Each lock is individually controlled.

When "Send PIN(s) to Lock" is selected, xGenConnect queries the lock for the number of standard users it supports. Some locks support up to 250 PINs, others are limited to 40. Check your lock documentation.

Each xGenConnect user number is sent to the same numbered slot in the lock, up to the maximum slots available in the lock. For example, xGenConnect user number 1 will be sent to the Z-Wave Door Lock slot 1. Users exceeding the capacity of the lock will not be sent.

Existing PIN codes in the door lock will be over-written. If the lock detects a duplicate PIN then the send command will fail.

Selecting "Remove PIN(s) from Lock" will clear all PIN codes from the lock, whether or not they were added by the xGenConnect.

Some door locks have special master/installer PIN codes, these will not be changed. However, if they are default standard user PIN codes then xGenConnect will have access to change or remove them. Each lock is different and you should test this feature on your specific lock to ensure only the appropriate codes are present.

As PIN codes can also be changed directly on the door lock, over time there may be a mismatch in PINs on the door lock compared to the panel. To avoid this confusion, only make PIN code changes on the panel and sync them to the door lock.

	Settings Selector
Logout	Lock PIN Share
Arm/Disarm	Reload
Zones	Reload
Cameras	Lock PIN Share Instructions
Rooms	1. Select Door Lock. 2. Select User(s).
History	3. Press Send or Remove Function Button.
Users	4. Repeat Steps 1-3 as necessary.
Settings	Select Door Lock (8) Keypad Door Lock
Advanced	Select User(s)
	Message Center
	Sent All Users
	Send PIN(s) to Lock
	Remove PIN(s) from Lock

- 1. Log in to the panel.
- 2. Click Settings > Lock PIN Share.
- 3. Select the Z-Wave Door Lock in the drop-down list. If the lock does not appear, follow instructions on Adding Z-Wave Devices.
- 4. Wait for the "Building User List Please Wait" message to be replaced with "Ready".
- 5. The default will have "All Users" pre-selected. You may select an individual user instead.
- 6. Optional and recommended, click "Remove PIN(s) from Lock". This ensures any extra PIN codes are removed from the lock and only the PIN codes from the panel can operate the lock. Once completed it will show "Removed All Users".
- 7. Click "Send PIN(s) to Lock".

PIN codes will be sent to Z-Wave door lock one at a time. Once completed it will show "Sent All Users".

- 8. Test PIN codes on door lock and verify if only the codes you want can operate the lock.
- 9. Refer to door lock manual to remove or change installer / master codes from door lock.

Programming Scenes

xGenConnect can perform automation features such as recording video clips when a door is opened, turning on a Z-Wave light when motion is detected, and much more.

This is achieved by creating a "Scene". Each scene can perform up to 16 actions when a certain condition is met.

For a full list of functions that can be used to create a scene, refer to *xGen Reference Guide*.

To create a scene:

- 1. Log in to the panel.
- 2. Select Settings > Scenes.
- 3. Select the Scene to Configure.
- 4. Enter a Scene Name. Tip: a name based on the result will help you remember what the scene is. For example, "Downstairs Light On" or "Open Garage Door".
- 5. Tick the "Enable App Button" option to show a shortcut button on the home screen of the UltraSync+ app. Untick this option to hide the shortcut.
- 6. Select Schedule to "Always On".

Note: To *restrict* the day and time when the scene will check the trigger, select a schedule from the drop-down. Schedules can be created under Settings > Schedules.

- 7. Select the Activate Event Type. For example, "Area Not Ready" and "Area 1".
- 8. Under Scene Action 1, select Alarm System or the Z-Wave device to control.
- 9. Select Action Type.
- 10. Select any additional options as desired.
- 11. Repeat step 8 to 10 to add additional Scene Actions.
- 12. Click Save.

13. Test the scene to check if the behavior is desired.

	is 🔽
	Save
Select Scene to	o Configure:
	5 Record Video
Scene Name	
Reco	rd Video
	Scene Trigger
Activate Sched	lule
	Always On
Activate Event	
	Area Not Ready
Activate Area	
	1 Home
5	Scene Action 1
Action Device	
	Alarm System

Special Scene Triggers: Geosphere / Geolocation Entered Exited

UltraSync+ app can send the panel a message when a user's mobile phone has entered (within 200 meters) or left (outside 300 meters of) a physical area. This can then be used as a scene trigger. For example, turn on an external security light when the user arrives home.

To enable this scene trigger:

- 1. Open UltraSync+ app.
- 2. Click (i) Site Info button.
- 3. Click Location Services.
- 4. Click Edit Map.
- 5. Zoom and move the map to the desired location.
- 6. Click Save Map.
- 7. Enable "Geo Actions", this will send the message to the panel.
- 8. Enable "Check Status on Leaving" if you want a reminder notification from the app when it detects you have left the home location. This feature is independent of the "Notification Services" feature.
- 9. Click Back.
- 10. Click Sites.

Special Scene Triggers: Sunrise Sunset

The panel can trigger scenes based on the sunrise/sunset schedule specific to a geographical location. For example, turn on an external security light automatically at sunset.

To enable this scene trigger:

- 1. Open UltraSync+ app.
- 2. Click (i) Site Info button.
- 3. Click Location Services.
- 4. Click Edit Map.
- 5. Zoom and move the map to the desired location.
- 6. Click Save Map.
- 7. Click "Set Sunrise-Sunset Location", this will load the sunrise and sunset times specific to the selected location into your panel.
- 8. Click Back.
- 9. Click Sites.

Special Scene Triggers: Camera Motion Detection

Selected camera models support motion detection that can be used as a scene trigger.

To enable this scene trigger:

- 1. Open UltraSync+ app.
- 2. Log in to the site.
- 3. Click Cameras.
- 4. Click the settings icon for the desired camera.
- 5. Turn on "Enable Motion Detection".
- 6. Selected camera models also allow a detection area to be drawn.
- 7. Click Done.

Special Scene Triggers: Z-Wave Devices

For panels with Z-Wave capabilities, Z-Wave on/off devices can trigger scenes. For example, run a Welcome Home scene when a Z-Wave on/off switch is pressed.

To enable this scene trigger:

- 1. Add the Z-Wave device.
- 2. Add a Z-Wave Device Association between the Z-Wave Device and alarm system.
- 3. Create a new scene and select "Z-Wave Devices" as the scene trigger.
- 4. Select turn on or turn off for the Z-Wave on/off switch.
- 5. Select up to 16 actions to perform.
- 6. Click Save.
- 7. Test the behaviour by turning the Z-Wave device on or off.

User Reporting

If a scene performs arm/disarm control of an area, User 99 will be reported to the Central Monitoring Station.

xGenConnect with Amazon Alexa

xGenConnect is Alexa-enabled. Users can use their voice to turn on a Z-Wave device or run an automation scene.

Here are some things you can do:

- Use Alexa to voice control your lights on the xGenConnect "Alexa, turn off bedroom lights"
- Use Alexa to voice control your fan on the xGenConnect "Alexa, turn on fan"
- Use Alexa to voice control your xGenConnect scenes

"Alexa, turn on Welcome Home"

To enable Alexa on your xGenConnect:

- 1. Install and configure the UltraSync+ app on your smartphone. Refer to page "Method 3: UltraSync+ App" on page 37 for instructions.
- 2. Install the Amazon Alexa device using the end-user's Amazon account. Refer to the instructions with the Amazon Alexa.
- 3. Open UltraSync+ app on your smartphone.
- 4. Click the site name to login.
- 5. Click Menu.
- 6. Click Amazon® Alexa.
- 7. Click "Enable Alexa".
- 8. A new user will be created on the xGenConnect system. Note the details shown on the app.
- 9. On a computer, login to the Amazon Alexa website: https://alexa.amazon.com/spa/index.html
- 10. Search for the UltraSync skill and enable it.
- 11. Click Settings Account Linking.
- 12. Enter the details shown on the UltraSync+ app in the UltraSync skill. Amazon Alexa will use this xGenConnect user to login and interact with xGenConnect.
- 13. Click Manage Smart Home Devices.
- 14. Click Devices to check what devices and scenes can be Alexa controlled.
- 15. Click Discover to update the list.

Notes

- Z-Wave devices must be pre-programmed in the xGenConnect. Check that your panel has Z-Wave capabilities.
- Scenes must be pre-programmed in xGenConnect.

- Amazon Alexa must be purchased separately and a valid Amazon account is required to operate it.
- Amazon Alexa integration is not supported in all regions.
- Not all Alexa features may be available on this device, learn more at www.interlogix.com.
- Amazon Alexa Terms and Conditions do not allow control of garage doors, door locks, or cameras. Arming and disarming is also not allowed. Actions that control these items inside scenes will be skipped, the remainder of the scene will run correctly.

xGenConnect Works with Google Assistant

xGenConnect Works with Google Assistant (WWGA) is the new programme for home automation from Google.

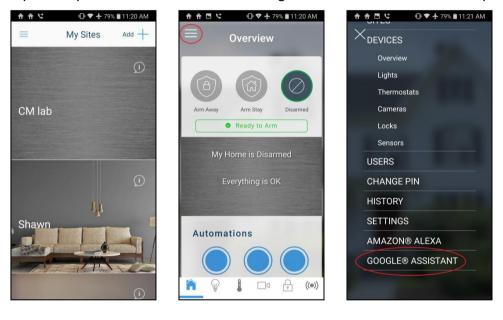
You will need a Google Account to use Google Nest's suite of connected home devices and services which includes Google Home Mini, the Home app, and UltraSync connected home services.

Google Assistant provides key benefits such as:

- A single place to manage all your connected home devices from Google, Nest, and UltraSync.
- Whole-home control via automated routines, voice control, display and touch surfaces, and the Home app.

To connect xGenConnect to your Google Account:

- 1. You will need a device with Google Account and Google Home installed.
- 2. Open the UltraSync+ Mobile app. Log in to the site as the Master User and tap the top left menu icon. Select Google Assistant to start the setup.



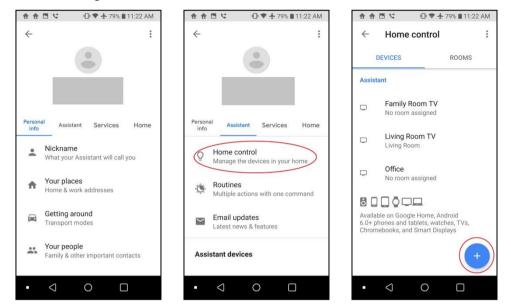
3. Tap the button Enable Google Assistant. A user is automatically created which will allow Google Assistant to access your panel. Tap Copy to clipboard to copy in the information, and then tap OK.

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\equiv Voice Integrations	\equiv Voice Integrations	
< Back	< Back	< Back
Enable Google Assistant	Enable Google Assistant	Enable Google Assistant
	To allow voice control with Google Assistant, download the UltraSync skill and enter the information below. Copy to clipboard	Copied Copied Copied to clipboard. Go to the Google Assistant app and when linking the skill press the "Paste" button and then click "Paste" again in the popup
ALC: NOT	Serial 7957	S ОК
	Passcode	Passcode 12345678
1 100 1.04	User Name Google Assistant	User Name Google Assistant
	PIN	PIN 94548335
	Note: Enabling this feature allows any user to control your smart home devices through	Note: EnablinCopies to City Traves any user to control your smart home devices through

4. Go to the home screen of the Android device. Tap and hold the home button to start Google Assistant. Tap the lower right Explore icon, then tap the top right menu icon and select Settings.

合合□♥★79%■11:21 AM	合合□℃ ●♥★79%■11:21 AM	合合 점 ♥ ♥ ★ 79% ■11:21 AM
11.21 AM Tue, Jan Tap to add weather	← Explore	← Explore :
22	Q Search over 1 million Actions to	Q Search Settings
	ASK YOUR ASSISTANT \sim	ASK YOUR ASSI My Activity
	Make a phone call	Make a phone Help
Swipe up to see your updates	Send a message Set a timer	Send a messa Send feedback
•: Hi, how can I help?	WHAT'S POPULAR >	WHAT'S POPULAR >
Set a reminder Send a message	Comfort Life Europe * : Dim the master bed room lamps	Comfort Life Europe * : Dim the master bed room lamps
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5. In the settings page, tap the Assistant tab and select Home Control. The list of devices associated with Google Assistant appears. Tap the "+" button on the lower right to add the new device.



6. In the Add devices page, tap the search icon, type "UltraSync", tap the UltraSync SmartHome icon.

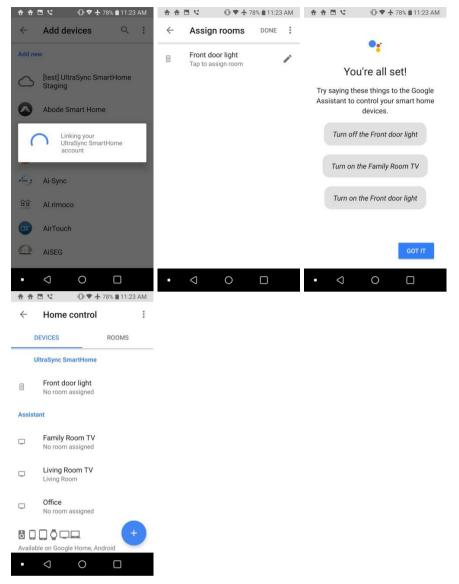
The app redirects to the account linking page. Tap the PASTE button, tap and hold on the serial number field, and then tap the pop-up PASTE button. The panel information previously copied to the clipboard populates the fields. You can manually enter the information as well. Tap Submit if all the information is correct.

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\leftarrow Add devices \bigcirc :	X ittps://google-auth.ultraconnect.com	X ittps://google-auth.ultraconnect.com
Add new	Then long press the Serial Number field below and click the PASTE button that pops up.	Then long press the Serial Number field below and click the PASTE button that pops up.
UltraSync SmartHome	Then click the SUBMIT button below.	Then click the SUBMIT button below.
Abode Smart Home	PASTE	PASTE
ADT Pulse SmartHome	Serial Number Enter Serial Number	Serial Number 7957
Adurosmart Home	Passcode Enter Passcode	Passcode
Ai-Sync	User Name Google Assistant	User Name Google Assistant
鉑童 Al.rimoco	PIN Enter PIN	PIN
Ciir AirTouch	Like Pin	Paste from Smart Home app only
Aiseg	SUBMIT	SUBMIT
• < 0 🗆	• < 0 🗆	• < 0 🗆

7. UltraSync will link your panel to Google Assistant.

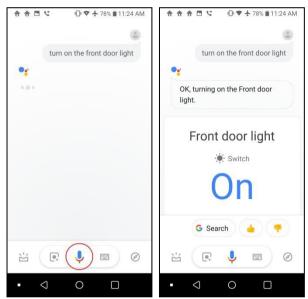
After this is complete, supported smart home devices will appear. At present only home automation devices are supported by Google, the panel and security system functions are unavailable.

Tap "Done" to complete the setup.



To view available smart home devices tap Home control > Devices.

8. To interact with the smart device, start Google Assistant by saying "Hey Google" or tap the microphone icon. Speak commands to control the smart devices.



For example: "Hey Google. Turn on front door light."

Tested Devices

Device	Name	Family/Model	Connectivity	Region
Thermostat	Radio Thermostat	CT-100	Z-Wave	US
Lamp Module	GE	ZW3101-WCS	Z-Wave	US
LED Light Bulb	AEOTEC	ZW098-A52	Z-Wave	US
Power Switch	SCHLAGE	6941R-AU	Z-Wave	US
Power Switch	AEOTEC	ZW096-B09 (AU)	Z-Wave	US

Programming Instructions

Programming Instructions for System Options

Goal

Program System Options including time and date, tamper, siren, timers, and service settings.

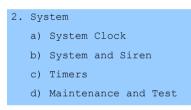
Pre-conditions

Time and date are automatically updated using an Internet time server by default, this setting is enabled under Communicator > IP Config.

If you want to allow xGenConnect to send diagnostic emails then check email is set up correctly under Communicator > Email and xGenConnect is connected to a network.

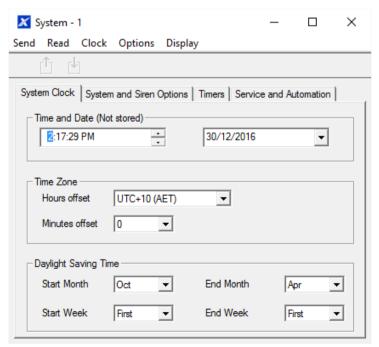
Note: Ensure you set the correct time zone here.

Programming Sequence



Instructions

1. Open System

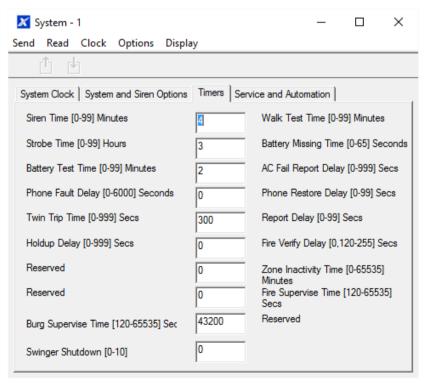


2. Select the right Time Zone using the Hours and minutes offset

- 3. If you wish to update the time and date
- 4. Go to System and Siren Options

🔀 System - 1	- 0	×
Send Read Clock Options Display		
ĉ 4		
System Clock System and Siren Options Time	rs Service and Automation	
System		
Panel Zone Doubling	System Alarm Latch	
Panel Box Tamper	Zone Inactivity	
System Zone Tamper	Reserved	
Enable Celsius Scale	Reserved	
Enable Jam Detection	Reserved	
Disable Hardwired Zones	Reserved	
Two Wire Smoke	Reserved	
Strobe on Arm	Reserved	
Siren		
Siren Once per Zone	Reserved	
Siren tamper	Reserved	
Siren At System Away/Disarm	Reserved	
Siren At End of Exit	Reserved	
Siren At Arm Report	Reserved	
Siren At Line Cut Armed	Reserved	
Siren At Line Cut Disarmed	Reserved	
Voltage Siren Output	Reserved	
Menu Language English (Australia)	Voice Language	

- 5. Select the settings you want to enable
- 6. Go to Timers



- 7. Enter the settings for global timers. Note Entry/Exit times are not here, go to Areas > Area Timers.
- 8. Go to Maintenance and Test

🔀 System - 1		-		×
Send Read Clock Options Display				
ĉ d				
System Clock System and Siren Options Timers	Service and Auto	omation		
Diagnostic email interval(Days)				
Diagnostic email time	12:00:00 AM		•	
Service Phone Number [0-9]				
- Automation Menu				
Automation User Name				
Automation User PIN	0000000			

9. Enter a Diagnostic email interval. This is the number of days to wait before sending an email at the specified time. This verifies email communication is working.

Web Page

Arm/Disarm
Zones
Cameras
History
Users
Settings
Advanced

Up Down Save
Control Name Alarm System Language English v Voice Language English v
System Date and Time Date: 2016-03-11 Time (hh:mm:ss): 11 51 47
System Time Zone Hours Offset Minutes Offset
System Daylight Saving Time Start Month Start Week End Month End Week First v
System Timers Siren Time (0-99) Minutes 3 Battery Test Time (0-99) Minutes
2 Battery Missing Time [0-65] Seconds 10 AC Failure Report Delay [0-999] Seconds 600 Cross Zone Time [0-999] Seconds 60 Zone Inactivity Time [0-65535] Minutes 0 Fire Supervise Time [120-65535] Seconds 14400 Burg Supervise Time [120-65535] Seconds 28800
2 Battery Missing Time [0-65] Seconds 10 AC Failure Report Delay [0-999] Seconds 600 Cross Zone Time [0-999] Seconds 60 Zone Inactivity Time [0-65535] Minutes 0 Fire Supervise Time [120-65535] Seconds 14400 Burg Supervise Time [120-65535] Seconds

Programming Instructions for Permissions

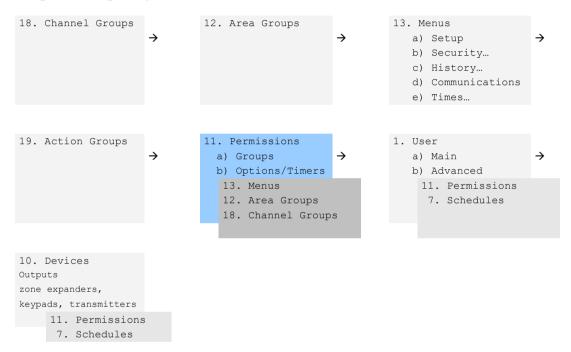
Goal

Create a list of permissions that will restrict users, keypads, and devices to specific parts of the system.

Pre-conditions

Have programmed or customized Channel Groups, Area Groups, Menus, and Action Groups. Alternatively you can use the preset groups.

Programming Sequence



Instructions

1. Open Permissions

nd Read Option	ns Display				
Ú 🖞 🗌		$ \langle \langle \rangle $	1	of 128 $>$	\geq
iroups Options/Tim	ers				
Permission					
Name					
Groups					
Menu	Menu 1			-	
Arm	Area Group 125			-	
Disarm	Area Group 125			-	
Reset Only	Area Group 125			-	
Timed disam	Area Group 125			-	
Man down	Area Group 125			-	
Guard tour	Area Group 125			-	
Area Display	Area Group 125			-	
Report Channel	Channel Group 1			-	
Stay Arm Area	Area Group 125			-	

- 2. Select the permission number you want to modify
- 3. Enter a functional name for the permission
- 4. Select the Groups for each item which will give access to the items selected inside the group. For example, if this permission is assigned to a user, then that user will have access to Arm each of the Areas that are selected inside the Area Group and no others.

5. Click the Options/Timers tab

🗶 Permissions - 1	- 🗆 X
Send Read Options Display	
Qû d 🗗	$ \langle\langle$ 1 of 128 \rangle $\rangle $
Groups Options/Timers	
Permission 1	
Options ✓ Reserved ✓ Remote Access Duress code Reset System Alams ✓ Auto Unbypass ✓ Disam Area In Alam ✓ Reserved ✓ Reserved	 Display Name Greeting Display Zone Status On Aming Area Type Override Disarm Action Trigger Arm Action Trigger Arm Action Trigger Report Arm-Disarm Report Arm-Disarm Exceptions Reserved Log PIN Use
Timers Disam Time (0-999) Minutes Man Down Time (0-999) Minutes	0
Guard Tour Time [0-999] Minutes	0

6. Select the user options that you want to apply to this permission. Descriptions of each item are available in *xGen Reference Guide*.

Next

Program Users or Devices

Programming Instructions for Menus

Goal

Create a list of menus that a user or device has access to on the xGenConnect system.

Pre-conditions

None.

Notes

- The menus that will be available are the ones that the device has permission to display AND the ones that a user has access to, at the specified time and date which is controlled by Schedules.
- Users have up to 4 levels of access and devices have up to 2. This allows very sophisticated and fine grained control of access.
- 64 custom menus can be created. The preset ones will help you create a system quickly without needing to modify these.

Programming Sequence

13. Menus		11. Permissions		1. User
a) Setup	\rightarrow	a) Groups	\rightarrow	a) Main 🔶
b) Security		b) Options/Timers		b) Advanced
c) History…		13. Menus		11. Permissions
d) Communications		12. Area Groups		7. Schedules
e) Times…		18. Channel Group	S	
		19. Action Groups		
10. Devices				
Outputs				
zone expanders,				
keypads, transmitters				
11. Permissions				
7. Schedules				

Instructions

1. Open Menus

🕻 Menu - 1			- 🗆 X
nd Read Options	Display		
Ú U		$ \langle\langle$ 1 of 64 \rangle $\rangle $	
lenu Selections			
Menu	1 Name		
		Check all Ur	ncheck all
Reserved		✓ Intercom	
Reserved		Smoke Reset	
History		Vsers	
Cameras		Testing	
Reserved		Reporting	
Lights		Scenes	
HVAC		Reserved	
Reserved		Clock	
Holidays		✓ Keypad Setting	
Schedules			
Fintry Exit		Reserved	
Reserved		Status	
ZWave		Reserved	
Reserved		Advanced	
Reserved		,	
✓ Labels			

- 2. Select the Menu number
- 3. Enter a descriptive name
- 4. Tick each item that you want a user / device to have access to.

Next

- Program Permissions
- Assign the Permission to a User or a Device

Programming Instructions for Holidays

Goal

Create a list of holidays to provide or prevent access to the xGenConnect system on the specific dates.

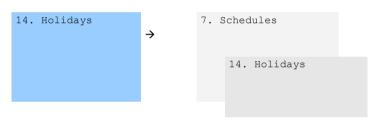
Pre-conditions

None.

Notes

- Ticking Holidays in a Schedule for a permission PREVENTS access.
- Holiday schedules may impact automation features such as Actions if they are in use. For example, you may not want an Action to play on a holiday, so take care in programming the associated Schedule and permissions.

Programming Sequence



Instructions

1. Open Holidays

Û.	4	Ĵ		< <		1 of 4	\rightarrow		
olidays									
Holiday	1	-	Name						
– Dates –	Start date		End date			Start d	-1-	End o	-t-
	1/01/2016								
1.			1/01/2016	-	9.	1/01/2016	-	1/01/2016	; <u> </u>
2.	1/01/2016	-	1/01/2016	•	10	1/01/2016	•	1/01/2016	; -
3.	1/01/2016	•	1/01/2016	•	11	1/01/2016	•	1/01/2016	5 -
4.	1/01/2016	•	1/01/2016	-	12	1/01/2016	•	1/01/2016	; -
5.	1/01/2016	•	1/01/2016	-	13	1/01/2016	•	1/01/2016	; -
6.	1/01/2016	•	1/01/2016	-	14	1/01/2016	-	1/01/2016	5 🖵
7.	1/01/2016	•	1/01/2016	-	15	1/01/2016	•	1/01/2016	
8.	1/01/2016	-	1/01/2016	•	16	1/01/2016	•	1/01/2016	i 🗸

- 2. Select one of the 4 Holidays available
- 3. Enter a name for the Holidays
- 4. Enter the start and end date for each holiday you have

Next

Program Schedules.

Example



Office Worker User Permission 1 – All Areas Office Schedule 1 – 8am-8pm M-F, Holidays 1 (ticked)

An office is not staffed during a public holiday and you want to prevent access to the building to staff on this date.

The public holidays in NSW, Australia for 2019 are:

- New Year's Day: 1 January
- Australia Day: 26 January
- #Additional Day: 28 January
- Good Friday: 19 April
- Day following Good Friday: 20 April
- Easter Sunday: 21 April
- Easter Monday: 22 April
- Anzac Day: 25 April
- Queen's Birthday: 10 June
- Labour Day: 7 October
- Christmas Day: 25 December
- Boxing Day: 26 December

Open Holidays and program the date ranges.

đ.	-la			1//			<u></u>	
	*	ĺ		$ \langle \langle$		1 of 4 > >	21	
olidays								
Holiday	1	-] Name		Γ			
- Dates -	Start date		End date			Start date	End	d date
1.	1/01/2016	•	1/01/2016	•	9.	1/01/2016	▼ 1/01/20	16 👻
2.	1/01/2016	•	1/01/2016	•	10	1/01/2016	 ▼ 1/01/20 	16 💌
3.	1/01/2016	•	1/01/2016	•	11	1/01/2016	• 1/01/20	16 💌
4.	1/01/2016	•	1/01/2016	•	12	1/01/2016	 ▼ 1/01/20 	16 💌
5.	1/01/2016	•	1/01/2016	•	13	1/01/2016	▼ 1/01/20	16 💌
6.	1/01/2016	•	1/01/2016	•	14	1/01/2016	 ▼ 1/01/20 	16 💌
7.	1/01/2016	•	1/01/2016	•	15	1/01/2016	▼ 1/01/20	16 💌
8.	1/01/2016	•	1/01/2016	-	16	1/01/2016	▼ 1/01/20	16 👻

Next, go to Schedules and tick "Holidays 1":

🔀 Schedules -	1						_		×
Send Read C	ptions Display								
QŮĿ	j			1	of 96 $>$ $>$				
Schedules									
Schedule	1 💌		Schedule name		Office Schedule 1				
			Follow Action Num	ber	Disabled				-
Time and Da	ys				, 				
			1-4		-				
	1		2		3		4	l	
Start time	8:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 A	М	• •
End time	8:00:00 PM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 A	М	•
	All Days		All Days		All Days		All Days		
	All Weekdays		All Weekdays		All Weekdays		All Weekda	ys	
	All Weekends		All Weekends		All Weekends		All Weeken	ds	
	Monday		Monday		Monday		Monday		
	Tuesday		Tuesday		Tuesday		Tuesday		
	Wednesday		Wednesday		Wednesday		Wednesday	,	
	Thursday		Thursday		Thursday		Thursday		
	Friday		Friday		Friday		Friday		
	Saturday		Saturday		Saturday		Saturday		
	Sunday		Sunday		Sunday		Sunday		
	Holidays 1	◄	Holidays 1		Holidays 1		Holidays 1		
	Holidays 2		Holidays 2		Holidays 2		Holidays 2		
	Holidays 3		Holidays 3		Holidays 3		Holidays 3		
	Holidays 4		Holidays 4		Holidays 4		Holidays 4		

Then assign that schedule to the User:

Vsers - 1 Send Read Options Display	_]	×
	1	of 12	>	\geq
Main Advanced			-	
Profile	_	1		
Permission Disabled Schedule Office Schedule 1	-			
	<u> </u>			
Start date and time End date and time]			
1/01/2000 ▼ 12.00.00.044 ▼				
12:00:00 AM • 6:28:15 AM •				

Programming Instructions for Users

Goal

Add/Edit/Remove users from your xGenConnect system.

Pre-conditions

- Have programmed or customized Permissions. Alternatively you can use the defaults.
- Have programmed or customized Schedules. Alternatively you can use the defaults.

Notes

- PIN codes must be unique across the system, no two users can share the same PIN code.
- PIN codes must be 4 to 8 digits in length.
- EN 50131 Grade 3 required settings are 6 digits minimum.
- User name must be assigned to give that user access to UltraSync+ app or xGenConnect Web Server. A user with no first name will be unable to gain remote access.
- The default installer account is User 256 with user name installer and PIN 9713, with Master Engineer user type. These details are used to Log in to the Web Server web pages and UltraSync+ app.
- The default master account is "User 1" and PIN 1234.

- The default standard account is "User 2" and PIN 5678.
- EN 50131 Grade 3 default codes are 971300, 123400, 567800.

Programming Sequence



Instructions

1. Open Users

🔀 Users - 1		-	- 🗆	×
Send Read Options	Display			
Q Ó 🖞 🗳		$ \langle \langle $ 1	of 12 $ ightarrow$	\geq
Main Advanced				
User Number Name User 1				
PIN 1234	Туре	Master	Ŧ	
	Language	English (Australia)	Ŧ	

2. Select the User number you want to modify with the Left and Right arrow keys on the top right. You can also Search, Add, Copy, and Delete a user by clicking the corresponding button on the toolbar.



- 3. Enter a first name and/or last name for the user. It is case sensitive and provides the user name to log in from the UltraSync+ app.
- 4. Enter a new PIN code for the user. It must be unique and 4 to 8 digits long.
- 5. Select the user type that you want to apply to this user. Descriptions of each type are available in *xGen Reference Guide*.

- 6. The Status option determines if that user can interact with the system, or if their access has expired.
- 7. Click the Advanced tab.

🗶 Users - 1	_		\times
Send Read Options Display			
Qíbr 🖞 🗇 👜 🛛 K <	1	of 12 $>$	\geq
Main Advanced			
Profile		1	
Permission 1			
Schedule Always On	<u></u>		
Start date and time End date and time			
1/01/2000 - 7/02/2106 -			
12:00:00 AM + 6:28:15 AM +			

- 8. You can set the start/end date and time for when this user will have access to the system. This can be used to provide temporary user access. If Active is selected on the previous tab then the end date and time on this screen will be set to maximum.
- 9. You can program up to 4 levels of access for each user. Permission 1 is applied when Schedule 1 is true.

The combination of one Permission and one Schedule is called a "Permission Profile" (left drop-down menu). Permission Profile 1 is the highest level and will override Permission Profile 2 when Schedule 1 is active. Refer to *xGen Reference Guide* for more details.

To enable Permission Profiles the user type must be first set to Custom on the Main tab.

Web Page

Logout	
Arm/Disarm	
Zones	
Cameras	
History	
Users	
Settings	
Advanced	

Configure	Users	5	
Add Ed	it D	elete	Save
Select User	So	t By Na	me
User 1 (1)			*
User Number			
First Name	1		
Last Name	User	1	
PIN			
Languaga	1234		
Language English User Type	1		*
Start:		Custom	*
2000-01-01		Midr	night 🔽
End:			
2106-02-07		6:00) AM 🔽
Profile 1:	vays On	*	
All Partitic			*
Profile 2:			
Alw	vays On	*	
disabled			*
Profile 3:			
disabled	vays On	¥	
Profile 4			¥
	vays On	*	
disabled			*

Programming Instructions for Zones

Goal

Program zones and add them to Areas.

Pre-conditions

None.

Notes

Use defaults for Zone Types and Zone Options to quickly set up your system.

Zones can have one or two profiles. The first profile will be active during the selected schedule, it takes priority over the second profile/schedule. The second profile will be active during the selected schedule if the first profile is not active.

If no schedule is set (or is currently active) in either the first or second zone profile then the zone will be disabled.

See the next section for programming custom zones.

Programming Sequence

	÷	15. Zone Types - Area Armed - Area disarmed	÷	16. Zone options	→
14. Holidays					
<pre>3. Zones a) Profile 1 b) Profile 2</pre>	÷	4. Areasa) Area Optionsb) Area Timersc) Area Reporting	÷	12. Area Groups	
 15. Zone Type 16. Zone Option 12. Area Group 7. Schedule 1. User 	S	7. Schedule 18. Channel Groups			

Instructions

1. Go to Zones.

🔀 Zones - 1			-	- [Х
Send Read Option	ns Display					
QŮĿ		$ \langle \langle \rangle $	1	of 176	\geq	\geq
First Zone Profile Se	cond Zone Profile					
Zone	1 •					
Zone Name						
Zone type	Entry Exit Delay 1			•		
Zone Options	Bypass			•		
Area Group	Area Group 1			•		
Schedule	Area Group 1 Area Group 2			^		
User number	Area Group 3 Area Group 4 Area Group 5 Area Group 6 Area Group 7					

- 2. Select a zone number you want to program.
- 3. Enter a name for the zone.
- 4. Select a zone type preset.
- 5. Select a zone options preset.
- 6. Select an Area group for the zone. If you want a zone to be in its own Area then select an Area group with only one Area. To create a zone in a common

Area, select an Area group with multiple Areas. Alternatively come back to this step later.

7. For a standard installation set the schedule to a preset which is 24 hours every day, holidays should NOT be ticked in this schedule. This will enable the first zone profile.

If you want the zone settings to change based on a schedule, then select the first schedule here.

- 8. If you are setting up a keyswitch zone then the user number field controls which user profile will be used to arm/disarm. The keyswitch zone will report as default User 99.
- 9. If you are programming a second zone profile, then go to that now and repeat steps 4 to 7.

Web Page

	Zones 💌
Arm/Disarm	
Zones	Up Down Save
Cameras	Zone Add/Remove Functions
History	Learn Remove Cancel
Users	
Settings	Select Zone to Configure:
Advanced	Zone Name
	Zone Type
	3 Entry Exit Delay 1
	Zone Options
	1 Bypass 💌
	Partition Group
	Serial Number
	0
	Tamper
	Disable Internal Reed
	Norm Open External Contact
	Signal Strength
	Voice Name 1
	Voice Name 2
	V 10100 Hallio 2
	Voice Name 3
	~
	Voice Name 4
	Y

Next

Zones are assigned to one or more Areas using Area Groups. If necessary, program Areas and Area Groups, then assign an Area Group to each zone (step 6).

Programming Instructions for Custom Zones

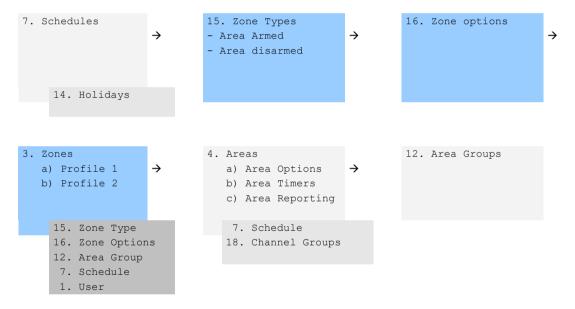
Goal

Program zones with advanced customization, including setting zone behavior to follow a schedule or armed/disarmed state.

Pre-conditions

Program the schedule you want the zone to follow if needed. Alternatively use the defaults.

Programming Sequence



Instructions

1. Go to Zone Type.

🔀 Zone types - 1			_		×
Send Read Options Display					
	pl	<<	1 0	of 32 🔿	\geq
Zone Type Profiles					
Profile 1Da	iy Zone			-	
Name					
Area Armed					$\neg \mid$
Zone Attribute	Instant			•	
Siren Attribute	Yelping			•	
Code Pad Sounder		Zone Inh	nibit		
Report delay		Swinger	Shutdown		
No Code Pad Display					
Area Disarmed					
Zone Attribute	Trouble Zone			•	
Siren Attribute	Silent			•	
Code Pad Sounder		Zone Inh			
Report Delay		Swinger	Shutdown		
No Latching					

2. Go to Zone Options.

🔀 Zone Options - 1					_		\times
Send Read Options	Display						
QŮĿ	J		$ \langle \langle \rangle $	1	of	32 >	\geq
Zone Options Profiles							
Profile	1 Bypass						·
Name							
Zone Report Event	134:BA	-					
Options Bypassed Stay Forced Arm En ♥ Bypass Twin Trip ♥ EOL Automatic Zon Night Mode Zone Inactivity	25	Follow Any Ar Alarms reportii Alarm restore Bypass-Unbyn Sensor Lost-L Sensor Troub Normally oper Fast Loop	ng reporti pass re .ow Ba le and	ng porting ttery re	porting	g	

3. Select the options you want, the SIA/CID event code can be customized. See *xGen Reference Guide* for a table of codes.

4. Go to Zones.

🗶 Zones - 1				_	\times			
Send Read Opti	Send Read Options Display							
QŮĿ		<<	1	of 176 $>$	\geq			
First Zone Profile	econd Zone Profile							
Zone	1 💌							
Zone Name								
Zone type	Entry Exit Delay 1			•				
Zone Options	Bypass			•				
Area Group	Area Group 1			•				
Schedule	Always On			-				
User number	0							

- 5. Select a zone number you want to program.
- 6. Enter a name for the zone.
- 7. Select the zone type profile you just created.
- 8. Select the zone options profile you just created.
- 9. Select an Area Group for the zone. If you want a zone to be in its own Area then select an Area Group with only one Area. To create a zone in a common Area, select an Area Group with multiple Areas. Alternatively come back to this step later.
- 10. For a standard installation set the schedule to a preset which is 24 hours every day, holidays should NOT be ticked. For example, "Always On". This will enable the first zone profile.

If you want the zone settings to change based on a schedule, then select the first schedule here.

If no schedule is set in either the first or second zone profile then the zone will be disabled.

11. If you are setting up a keyswitch zone then the user number field controls which user profile will be used to arm/disarm. The keyswitch zone will report as default User 99.

12. If you are programming a second zone profile, then go to that now and repeat steps 4 to 7.

🔀 Zones - 1			-	- C]	×		
Send Read Optic	Send Read Options Display							
QŮĿ	Ū	$ \langle \langle \rangle $	1	of 176	\geq	\geq		
First Zone Profile S	econd Zone Profile							
Zone	1							
Zone Name					_			
Zone type	Disabled			•				
Zone Options	Disabled			•				
Area Group	Area Group 1			•				
Schedule	Always On			•				
User number	0							

Next

Zones are assigned to one or more Areas using Area Groups. If necessary program Areas and Area Groups, then assign an Area Group to each zone (step 8).

Programming Instructions for Areas

Goal

Program Areas, Entry/Exit Times, Reporting Options, and Area Groups.

Pre-conditions

Programmed Communicator, Channels, and Channel Groups.

Programming Sequence

6. Communicator		5. Channels	18. Channel Groups
a) Options	\rightarrow		\rightarrow \rightarrow
b) IP Config			
c) Ethernet			
d) Radio			
e) Dial IP		6. Communicator	
f) Email		17. Event Lists	
g) Remote Access			
h) System Event			
Reporting			
18. Channel Gro	ups		
4. Areas		12. Area Groups	
a) Area Options	\rightarrow	12. Alea Gloups	
b) Area Timers	7		
c) Area Reporting	9		
7. Schedule			
18. Channel Group	NG NG		
to. chaimer group			

Instructions

1. Go to Areas.

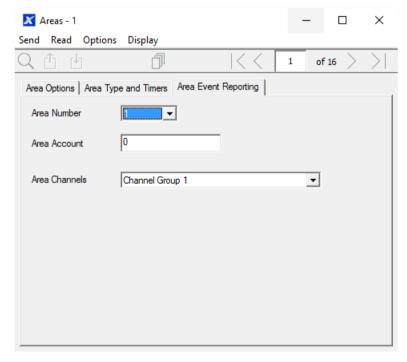
Areas - 1		- 0	×
Send Read Options Display		_	
Qů U D	$ \langle \langle $ 1	of 16	\rightarrow
Area Options Area Type and Timers A	rea Event Reporting		
Area Number			
Area Name			
Arm-Disarm Reports	Silent exit		
Quick Away Arm In Stay If No Exit	Manual Fire Manual Auxiliary		
Cuick Stay Mode Disarm	Manual Panic		
Siren Chirp Away	Use Area 1 Options		
 Siren Chirp Stay Force Arm With Bypass 	 Bypass Requires PIN Manual Panic is Silent 		
Force Arm Without Bypass	🔲 Arm In instant If No Exit		

- 2. Select an Area Number.
- 3. Enter a descriptive name.
- 4. Select the Options you want to enable for this Area. Area 2 and above have "Use Area 1 Options" ticked to allow faster programming of your system. Untick this box if you want to customize options for Area 2 and above.

- 5. For advanced programming you can assign a Schedule and an Area Time Disarm function to occur according to the schedule. Refer to *xGen Reference Guide* for more details.
- 6. Go to Area Timers.

🔏 Areas - 1			-		×
end <u>R</u> ead <u>O</u> ptions <u>D</u> isplay					
l d d	0	$ \langle \langle 1$	0	f 16 >	\geq
Area Options Area Type and Time	rs Area	Event Reporting			
Area Number	1	•			
Timers					
Entry Time 1 [0-999] Seconds	30	Exit Time 1 [0-999] Seco	nds	60	
Entry Time 2 [0-999] Seconds	60	Exit Time 2 [0-999] Seco	nds	60	
Stay Entry Time [0-999] Seconds	30	Stay Exit Time [0,10-255] Seconds		0	
		Local Alarm Reminder [0- Hours	12]	0	
Туре					
Area Type	Standar	d		•	
Area Type Schedule	Always	On		-	
Alea Type Schedule	[/mays	011			
Auto Arm Warning [0-99] Minutes	2				

- 7. Enter the timers that apply to this Area.
- 8. Go to Area Reporting.



9. Assign the Area an account number and the Channel Group you want this Area to report to. See Programming Instructions for Zone Reporting for more details on how this works.

Next

Customize Area Groups if needed.

Webpage

Arm/Disarm Zones	Partitions 💌 Up Down Save
Cameras History Users	Select Partition to Configure: 1 Partition Vame
Settings Advanced	Partition Timers Entry Time 1 [0-45] Seconds 30 Exit Time 1 [0-240] Seconds 60 Entry Time 2 [0-90] Seconds 30 Exit Time 2 [0-240] Seconds 60 Stay Entry Time [0-45] Seconds 30
	Partition Options Quick Away Quick Stay Mode Disarm Manual Panic Manual Panic is Silent Manual Fire Manual Auxiliary Force Arm With Bypass
	Partition Reporting Partition Account 0 Partition Channels 1 Channel Group

Programming Instructions for Schedules

Goal

Create a schedule to provide or prevent access to the xGenConnect system on the specific dates and times.

Pre-conditions

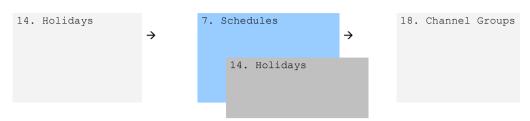
Holidays have been programmed if needed.

Notes

• Ticking Holidays in a Schedule PREVENTS access on the holiday dates.

• xGenConnect automatically handles schedules that span midnight (e.g. bakers hours), do not tick the following day of the AM hours. (See *xGen Reference Guide* for more details.)

Programming Sequence



Instructions

1. Go to Menu 7. Schedules.

Schedules -							_		\times
Send Read C									
	<u> </u>			1	of 96 > >				
Schedules									
Schedule	1 💌		Schedule name		Office Schedule 1				
			Follow Action Num	ber	Disabled				-
⊢ Time and Da	vs								
	,-		1-4		•				
	1		22		3		4		
Start time	8:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AN	M	•
End time	8:00:00 PM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AN	4	•
	All Days		All Days		All Days		All Days		
	All Weekdays		All Weekdays		All Weekdays		All Weekday	s	
	All Weekends		All Weekends		All Weekends		All Weekend	ls	
	Monday		Monday		Monday		Monday		
	Tuesday		Tuesday		Tuesday		Tuesday		
	Wednesday		Wednesday		Wednesday		Wednesday		
	Thursday		Thursday		Thursday		Thursday		
	Friday		Friday		Friday		Friday		
	Saturday		Saturday		Saturday		Saturday		
	Sunday		Sunday		Sunday		Sunday		
	Holidays 1	~	Holidays 1		Holidays 1		Holidays 1		
	Holidays 2		Holidays 2		Holidays 2		Holidays 2		
	Holidays 3		Holidays 3		Holidays 3		Holidays 3		
	Holidays 4		Holidays 4		Holidays 4		Holidays 4		

- 2. Enter a name for the Schedule.
- 3. Select the first Start and End time.
- 4. Select the days you want this start and end time to apply to.
- 5. If you are using the DLX900 software you will be able to see 4 sets of times and days, click the drop-down in the middle to access more. Each schedule can have up to 16 sets of times and days.

If you are using a NXG-18xx, press the Up and Down buttons to access the 16 sets of times and days.

- 6. To allow an Action to control when this Schedule is active/inactive, select the Follow Action Number.
- 7. Now the schedule is ready to be assigned to a User or used by another part of the system.

Webpage

Arm/Disarm	
Zones	
Cameras	
History	
Users	
Settings	
Advanced	

Up	Down	Save
Select Schedul		: 1 Schedule 💌
T Start Time (hh: End Time (hh: Monday Tuesday Wednesday Wednesday Thursday Friday Saturday Saturday Sunday Holidays 1 Holidays 2	-	1 00 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0
T Start Time (hh: End Time (hh:r Monday Tuesday Wednesday Thursday Friday Saturday Saturday Sunday Holidays 1 Holidays 2		2
T Start Time (hh: End Time (hh: Monday Tuesday Wednesday Wednesday Thursday Friday Saturday Saturday Sunday Holidays 1 Holidays 2		3 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
T Start Time (hh: End Time (hh:r Monday Tuesday Wednesday Thursday Friday Saturday Saturday Sunday Holidays 1 Holidays 2		4

Example

For example, you could create a 24/7 schedule and then have this schedule follow an action. Next assign a keypad permission this schedule. Now based on what the action does, we can conditionally enable or disable a keypad. This provides a high level of flexibility and multiple sets of rules using actions can be set up like this.

Programming Instructions for Arm-Disarm

Goal

Automatically Arm and Disarm your xGenConnect system.

Pre-conditions

Areas have been programmed.

Notes

- The Arm-Disarm will function as if it is the user you select. You will need to program valid user permissions including Area Groups, User Schedule, Profile levels, and active date and time.
- Creating a new user only for the purpose of Arm-Disarm will make it easier to maintain.
- Use defaults for Schedules, Area Groups and Permissions for faster programming.
- xGenConnect will sound a warning prior to the Arm-Disarm from arming an Area. This is set in Areas > Area Timers > Area Type Delay.
- If a user with Area Type Override option disarms an Area with Arm-Disarm, then the Arm-Disarm will no longer function on that Area. To re-enable Arm-Disarm that Area must be manually armed.

Programming Sequence

4. Areas		12. Area Groups		11. Permissions
a) Area Options	\rightarrow	-	\rightarrow	a) Groups 🔶
b) Area Timers				b) Options/Timers
c) Area Reporting				13. Menus
7. Schedule				12. Area Groups
18. Channel Groups	s			18. Channel Groups
				x. Action Groups
1. User		7. Schedules		9. Arm/Disarm
a) Main	\rightarrow		\rightarrow	
b) Advanced				
11. Permissions		14. Holidays		7. Schedules
7. Schedules				18. Channel

Instructions

1. Create an Area Group and select the Areas you want to be Armed according to the schedule you will create later.

🗶 Area Groups - 1					_		×
end Read Options	s Display						
λů Δ		$ \langle \langle \rangle $	1	of 128 $ ightarrow$	\geq		
Areas 1-16							
Group	1 💌 Name	Partit	tion 1				
			Ch	neck all	Unche	ck all	
Area 1		☐ Are	a 9				
Area 2		Are	a 10				
🗌 Area 3		🗌 Are	a 11				
🗌 Area 4		Are	a 12				
Area 5		Are	a 13				
Area 6		Are	a 14				
🗌 Area 7		Are	a 15				
Area 8		Ane	a 16				

- 2. Create an Area Group and select the Areas you want to be Disarmed according schedule. This can be the same or different as the Area Group you selected above.
- 3. Create a Permission and select the corresponding Area Group for Arm and Disarm.

X	🔀 Permissions - 1 🛛 🚽 🗆								
Send	d Read Option	ns Display							
Q	t t		$ \langle \langle $	2	of 128 $>$	\geq			
Gro	oups Options/Time	ers							
	Permission	2 💌							
	Name	Partition 1							
	Groups	,							
	Menu	Menu 1			•				
	Arm	Partition 1			-				
	Disam	Partition 1			-				
	Reset Only	Partition 1			-				
	Timed disarm	Partition 1			-				
	Man down	Partition 1			-				
	Guard tour	Partition 1			-				
	Area Display	Partition 1			-				
	Report Channel	Channel Group 1			-				
	Stay Arm Area	Partition 1			-				
	Action	Disabled			-				

4. Open Users and create a new user. Suggested you provide a descriptive name such as "Auto Arm User" to make troubleshooting in the future easy.

🔀 Users - 1			-	- 🗆	×
Send Read Options	Display				
QÛU 🖱		<<	12	of 13	\rightarrow
Main Advanced					
User Number	99				
Auto Arm User					
PIN 9999	Туре	Custom		•	
	Language	English (Austr	alia)	Y	

5. Go to the Advanced tab.

🔀 Users - 1				-	- [×
Send Read C	ptions Dis	play					
QŮĿ	L [®]	j m	<<	12	of 13	\geq	\geq
Main Advanc	ed						
Profile			te and time	•	Ĩ		
12:00:00 A	M	6:28	8:15 AM 🕂]			

6. Select the Permission you created above. If you want a simple Arm-Disarm then leave the Schedule here as Always On. The Schedule selected here is

only for the **User**. It determines when the User is allowed to perform an Arm-Disarm, not when the Arm-Disarm will occur.

🔀 Users - 1			-	- C]	×
Send Read Options Dis	play					
Qî 🖞 🖱	j m	$ \langle \langle \rangle $	12	of 13	\geq	\geq
Main Advanced						
Profile						
Permission	Partition 1		_			
, Schedule	Always On					
Start date and time	End dat	e and time				
1/01/2000 🔻	7/02	2/2106 👻				
12:00:00 AM	6:28	:15 AM	Ĩ			

7. Create a Schedule for when you want the Arm-Disarm to occur.

🗶 So	chedule	s - 1						_		×
Send	Read	Options Display								
Qí	î Į	j		<<	1	of 96 $>$ $>$				
Schee	dules									
Sch	nedule	1 💌		Schedule name		Office Schedule 1				
				Follow Action Nun	ber	Disabled			•	- I
Tìr	me and [)ays		1-4		•				
		1		2		3		4		-
St	art time	8:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	
Er	nd time	8:00:00 PM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	
		All Days		All Days		All Days		All Days		
		All Weekdays	\checkmark	All Weekdays		All Weekdays		All Weekdays		
		All Weekends		All Weekends		All Weekends		All Weekends		
		Monday		Monday		Monday		Monday		
		Tuesday		Tuesday		Tuesday		Tuesday		
		Wednesday		Wednesday		Wednesday		Wednesday		
		Thursday		Thursday		Thursday		Thursday		
		Friday		Friday		Friday		Friday		
		Saturday		Saturday		Saturday		Saturday		
		Sunday		Sunday		Sunday		Sunday		
		Holidays 1	\checkmark	Holidays 1		Holidays 1		Holidays 1		
		Holidays 2		Holidays 2		Holidays 2		Holidays 2		
		Holidays 3		Holidays 3		Holidays 3		Holidays 3		
		Holidays 4		Holidays 4		Holidays 4		Holidays 4		
										-

8. Open Arm-Disarm.

🔀 Arm-Disarm - 1				- [×
Send Read Options Disp	olay					
QÛĿ	j	<<	1	of 16	\geq	\geq
Auto Arm-Disarm						
Auto Arm-Disarm number	1 💌					
Auto Am-Disam name	Office Am-Disam					
User number	99					
Auto Am-Disam schedule	Office Schedule 1				-]

- 9. Select the Arm-Disarm number.
- 10. Enter a descriptive name for this Arm-Disarm.
- 11. Enter the User number you created above.
- 12. Select the Schedule for when you want to automatically Arm-Disarm the system.
- 13. Test the Arm-Disarm to ensure it is working as you want.

Example

An office with 3 Areas wants to automatically be disarmed during office hours, and armed out of office hours.

We create Schedule 4 Mon-Fri 9am-5pm. Then User 55 with permission to arm and disarm Area 1, 2, and 3 at any time or day.

Then each weekday at 9am the system will disarm Areas 1, 2, and 3 as if it were user 55 and report those disarm events (openings) to the communication channels specified.

At 5pm each weekday the system would arm Areas 1, 2, and 3 as if it were user 55 and report those arm events (closings) to the communication channels specified.

Arm-Disarm Number 1 – Arm-Disarm Example

Schedule 4 – Office Hours Mon – Fri 9 AM – 5 PM

User 55 – Arm-Disarm User

Permission 99 – Full Access

Arm Area Group 1

Arm Area Group 1

Schedule 1 – Full Access

7 days, 24 hours

1, 2, 3

1, 2, 3

- → See "Programming Instructions for Schedules" on page 115 to program
- → See "Programming Instructions for Users" on page 103 to program
- → See "Programming Instructions for Permissions" on page 96 to program

→ See "Programming Instructions for Schedules" on page 115 to program

Programming Instructions for Communicator

Goal

Configure each communication path for delivering event messages.

Pre-conditions

None.

Programming Sequence



Instructions

1. Open Communicator.

🔀 Communicator - 1		_		×
Send Read Options Display				
С́ь Ц				
Options IP Config Radio Remote Access	System Event Reporting			
Options				1 I
First Disarm Last Arm	Reserved			
Report Once Per Zone	Reserved			
Suppress Force Arm Bypass	Reserved			
Immediate Restore	Reserved			
Auto test				, I
Interval Sunday 💌	Time 2:00:00 AM	- -	•	

- 2. Select reporting options.
- 3. Select when you want xGenConnect to perform an automatic communication test.
- 4. Click IP Config.

🔀 Communicator -	1				_		×
Send Read Option	s <u>D</u> isplay	у					
t t							
Options IP Config F	Radio Rer	mote Access	Syst	em Event Reporting			1
Host name				IP address	0.0	. 0.	0
Gateway	0.	0.0	. 0	Subnet mask	255 . 255	. 255 .	0
Primary DNS	0.	0.0	. 0	Secondary DNS	0.0	. 0 .	0
					HTTP Port	80	
						,	
Internet Time Server		pool.ntp.or	g				-1
- IP Options		1					
Enable DHCP				Always Allow DD	×900		
Reserved				Monitor LAN			
Reserved				UltraSync			
 Enable Ping Enable Clock U 	ndatan			Disable Web Pag			
Enable Web Pro	•			Disable Web Fag	Jes on LAN		
	-						

5. Edit IP settings for the xGenConnect system, if DHCP is enabled on the xGenConnect and a DHCP server is available, then this screen will automatically be filled in.

- Enable Clock Updates: Will keep the time and date correct using the provided Internet Time Server, no manual adjustment will be needed when daylight savings occurs provided the time zone is set correctly in System.

- Monitor LAN: This will monitor the physical LAN connection and report communication fail if the cable is disrupted.

6. Click Radio and enter settings if required, this will depend on the SIM card and operator you are using.

🔀 Communicator - 1		-	×
Send Read Options [Display		
t t			
Options IP Config Radio	Remote Access System Event Reporting		
User name			
Password	r 		
	I		
APN			

7. Click Remote Access

🔀 Communicator - 1			_	\times
Send Read Options Di	splay			
Û U				
Options IP Config Radio	Remote Access Syste	em Event Reporting		
Panel device number	0			
Download access	0000000	Number Of Rings	8	
Call Back number		Number of Calls	0	
Callback Server		Answering Machine Defeat	0	
Options Callback before down Reserved Lock Local Programm Lock Communicator F	ing	 Lock Download Programmir Callback at Auto Test Reserved Reserved 	ng	

8. Edit Remote Access settings for the xGenConnect system.

- Download Access Code: Gives access to DLX900 to access the xGenConnect panel programming.

9. Click System Event Reporting.

🔀 Communicator - 1	_	\times
Send Read Options Display		
Ť ±		
Options IP Config Radio Remote Access System Event Reporting		
Attempts 6		
System Channels Channel Group 1		

10. Select the channel group to send system events (e.g. low battery).

Next

- Perform tests on each of the communication paths to verify they are functioning correctly.
- Program Channels.
- Program Channel Groups.
- Verify Number of Attempts, next channels (back-up channels), and multi-path reporting function correctly.

Programming Instructions for UltraSync

Pre-conditions

At least one user has been given a username and PIN code (see "Programming Instructions for Users" on page 103).

xGenConnect is connected to internet and has been allocated an IP address (see "Programming Instructions for Communicator" on page 124, IP Config).

Notes:

UltraSync provides a secure VPN connection to your xGenConnect system over the internet. You will need to provide your xGenConnect serial number, Web Access Passcode, and a valid Username and PIN code that exists in your xGenConnect system. These codes provide multiple levels of security for the connection.

The Web Access Passcode is needed for:

- Web console over the internet via a secure VPN
- UltraSync+ app
- DLX900 software connecting over IP, in addition to Download Access Code

The Web Access Passcode is NOT needed for:

- Email services
- Web console over a local LAN connection

Once UltraSync is set up, you may connect to your xGenConnect system using the UltraSync+ app on your smartphone or tablet. This may require a separate

account and downloading additional software. See further instructions in the User Manual.

Instructions

1. Go to Menu 6. Communicator > 3. IP Config.

🔀 Communicator -	1					-		×
Send Read Option	s Display							
t t								
Options IP Config F	ladio Remo	ote Access	System	m Event Reporting				
Host name				IP address	192 .	168 .	1.3	222
Gateway	192 . 16	8.1.	1	Subnet mask	255 .	255 .	255 .	0
Primary DNS	192 . 16	8.1.	1	Secondary DNS	0.	0.	0.	0
					HTTP Port	t	80	
					HTTPS Po	ort	443	
Internet Time Server	Į.	pool.ntp.org)					
IP Options								
Enable DHCP				Enable Web Pro	-			
✓ Enable Ping ✓ UltraConnect								
Finable Clock U	pdates							
Enable Ping			Í	Always Allow DL Monitor LAN UltraConnect	X900			

- 2. Under sub-menu 12. IP Options, tick the box "Enable UltraSync".
- 3. Go to Menu 22. UltraSync.

🔀 UltraConnect - 1		_	\times
Send Read Options Disp	lay		
t l			
Web Access Passcode	0000000		
Ethemet Server 1	xg1.ultraconnect.com:443		
Ethemet Server 2	xg1.zerowire.com:443		
Ethemet Server 3			
Ethernet Server 4			
Wireless Server 1	xg1w.ultraconnect.com:8081		
Wireless Server 2	xg1w.zerowire.com:8081		
Wireless Server 3			
Wireless Server 4			

4. Enter a new 8 digit Web Access Passcode. All zeros disables UltraSync remote access.

- 5. Enter the required details into your device/software. This will usual be your xGenConnect serial number, Web Access Passcode, and a valid Username and PIN code. The xGenConnect serial number can be found in the Device Info menu.
- 6. Verify the UltraSync service is working by using your device/software to connect your xGenConnect system.

Troubleshooting

- Check the Web Access Passcode is correct. It cannot be 00000000.
- Check there is a valid user and they have a First name, this will be the login name.
- Check the serial number is correct. It is printed on the xGenConnect module.
- Check that the user permissions are currently valid.

See also "Appendix 2: App and Web Error Messages" on page 149.

Programming Instructions for Event Lists

Goal

Create segmented lists of events so Channels can selectively deliver event messages.

Pre-conditions

None.

Notes

- If an event message is enabled in an Event List, then the Channel will attempt to deliver it. If an event message is not enabled on the Event List, the Channel will not attempt delivery even if the message has been sent to it.
- Event List set up for push notifications is automatically performed by the UltraSync+ app when required. The panel will assign the next available channel and matching event list number. No configuration via the web pages or DLX900 is required.

Programming Sequence



Instructions

1. Open Event Lists.

Event List - 1	–
nd Read Options Display	
t d d d	$ \langle\langle$ 1 of 16 \rangle $\rangle $
vent Lists	
Profile Name	
	, Check all Uncheck all
I▼ Alarms	Cancel Code
Alarm Restores	Recent Am-Exit Error
Am-Disam	Tampers
Bypass and UnBypass	Reporting Trouble
Zone Trouble and Restore	AC Failure Reporting
Zone Tamper and Restore	Low Battery
Zone Lost	Aux Power Over-current
Zone Low Battery	Siren Supervision
Telephone Line Cut	Video Events
Expander trouble	
Log Full Report	
Autotest	
Start-End Programming	
Start-End Download	
System Troubles	
Access Events	

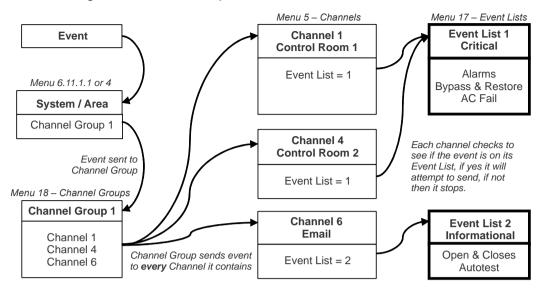
- 2. Enter a name for the list.
- 3. Check the events you want to include in the list.

Example

In this example we have created two lists: Critical and Informational. This allows us to selectively deliver event messages to different destinations.

We open up Event Lists and enter the name "Critical". We tick Alarms, Alarm Restores, Bypass and Bypass Restore, and AC Fail Reporting.

Then we click to Event List 2 and enter the name "Informational". Tick Opening and Closing, and Autotest Report.



Programming Instructions for Channels

Goal

Set up communication paths and destinations for delivering event messages.

Pre-conditions

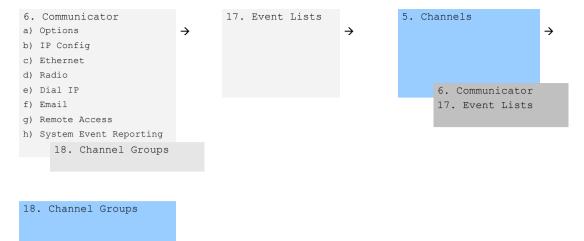
Communicator must be programmed (see "Programming Instructions for Communicator" on page 124).

Event Lists must be programmed (see "Programming Instructions for Event Lists" on page 129).

Notes

- Area Account Number will take priority over Account Number entered here for Zone events. If no Area Account Number is entered then this number will be used instead.
- Next Channel must be a higher value than the current Channel Number. Circular loops are not permitted.
- Take note of the Sequence Attempts under Communicator > System Event Reporting (6.11.2). This is the number of times xGenConnect will attempt the sequence of Channels you set up in this section.
- Channel set up for push notifications is automatically performed by the UltraSync+ app when required. The panel will assign the next available channel and matching event list number. No configuration via the web pages or DLX900 is required.

Programming Sequence



Instructions

1. Go to Channels.

🔀 Channels - 1			_		×
Send Read Options	Display				
QŮĿ	<u> </u>	<<	1	of 16	> $> $
Comm channel					
Channel number	•				
Channel Name	Central Station Primary				
Account Number	0]			
Format	Use as Backup		•		
Device	1		•		
Dest Phone or Email					
Event List	Event List 1		•		
Attempts	2				
Next Channel	2 💌				
Language	English (Australia)]			

- 2. Enter an Account Number up to 8 digits, hex values are accepted.
- 3. Select the Format of the communication channel, this will automatically use the settings programmed for that Format in the Communicator menu.
- 4. Select the reporting device, by default Device 1 is the xGenConnect panel.
- 5. Enter the destination phone number, email address or IP address depending on which Format you selected.
- 6. Select what events you want to be sent via this Channel by selecting the appropriate Event List. Events that arrive at this channel will be checked that

they on this Event List, if they are, then will be routed through this Channel. Events that arrive at this Channel which are not on this list will be blocked.

If the Channel is used for push notifications to UltraSync+ app, the Event List number will be the same as the Channel number.

- 7. Enter the number of Attempts that you want xGenConnect to try sending the event message on this Channel before switching to the Next Channel.
- 8. Select the Next Channel Number to use if the event message fails to be sent on this Channel.

Each Channel can have one Next Channel as a backup. This allows you to chain up to 15 backup paths should the primary one fail. Enter Next Channel as 0 to end the chain of channels.

- 9. You have now finished programming one channel. If you entered a Next Channel, then go to that Channel number and program that now.
- 10. Once you have programmed each channel and backup channels you have completed this section. Check or edit Sequence Attempts under Communicator > System Event Reporting (6.11.2).
- 11. Go to Channel Groups. Here you will group channels together so selected event messages will be sent to multiple destinations at the same time. Another way to think of Channel Groups is "multi-path reporting".

🔀 Channel Group - 1	- 🗆 X
end Read Options Display	
li di di	$ \langle\langle$ 1 of 16 \rangle $\rangle $
Communicator Channel Groups	
Group 📃 🔽 Nam	ne l
,	Check all Uncheck all
Central Station Primary	Email 6
Central Station Backup 1	Email 7
Central Station Backup 2	Email 8
🔽 Email 1	Email 9
🔽 Email 2	Email 10
🔽 Email 3	Email 11
🔽 Email 4	Email 12
🔽 Email 5	Email 13

12. Select each channel you want to be part of a group.

Messages sent to a Channel Group will be checked against each Channel's Event List. If it is on the list then xGenConnect will attempt to send it. If not, then xGenConnect will not send it, even if the Channel is in the same group.

Done. Your Channels are now set up and ready for use. When an event is generated by the system or a zone it can now be sent to a Channel for reporting.

Example

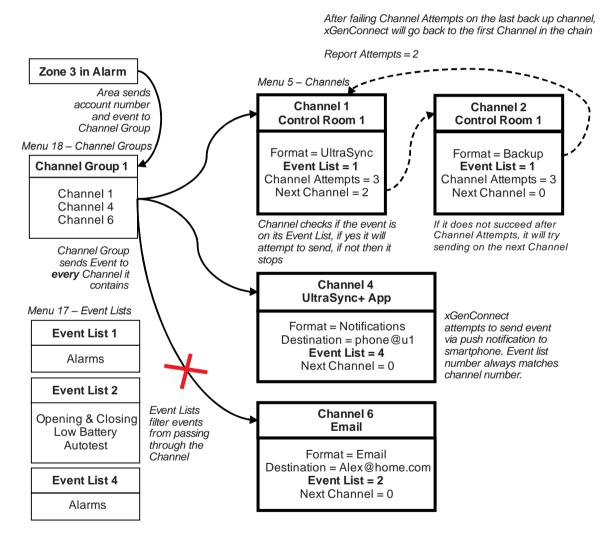
In this example we have multi-path, prioritised/selective event reporting via three reporting paths – one control room with backup, push notification to a smartphone, and an email address. These are grouped into "Channel Group 1".

All alarms are reported to Control Room 1 and push notification goes to UltraSync+ app installed on User 1's smartphone. Control room 1 has a backup receiver.

When a channel receives an alarm message, xGenConnect checks that the channel's Event List includes alarm messages and then attempts to deliver the message via that channel.

When Channel 1/2/4 receives a low battery report, it is ignored because Event List 1 does not include the "low battery" event.

Low priority alerts such as opening and closings, low batteries, and autotest reports, are sent via Channel 6 as an email to a building manager. When Channel 6 receives the alarm event it takes no further action because Event List 2 does not include the "alarm" event.



Notice that Channel 2 is not selected in the Channel Group. The xGenConnect will still deliver to this destination if Channel 1 cannot be reached. If Channel 2 was included in the Channel Group then the control room will receive duplicate messages.

Next

Program your Areas and Zones.

Programming Instructions for Zone Reporting

Goal

Direct event messages (e.g. alarm, bypass, tamper) from zones to specific destinations.

Pre-conditions

- The zone must have valid zone options programmed (see "Programming Instructions for Zones" on page 106), by default you should not need to modify these.
- The zone must be allocated a valid Area Group (see "Programming Instructions for Zones" on page 106).

🗶 Zones - 1			-	- []	×
Send Read Optic	ons Display					
QŮĿ		$ \langle \langle $	1	of 176	\geq	\geq
First Zone Profile Se	econd Zone Profile					
Zone	•					
Zone Name						
Zone type	Disabled			•		
Zone Options	Disabled			-		
Area Group	Area Group 1			•		
Schedule	Always On			•		
User number	0					

• Channels and Channel Groups must be programmed (see "Programming Instructions for Channels" on page 131).

Notes

- Each zone may be allocated to multiple Areas through an Area Group.
- Events will be sent to the lowest numbered Area in the Area Group.
- A zone may have a Second Zone Profile, when this becomes active all events will be sent to the Area Group programmed in the second profile.

Programming Sequence

3. Zones		4.	Are	eas	
	\rightarrow		a)	Area Options	
			b)	Area Timers	
			c)	Area Reporting	
12. Area Groups				7. Schedule	
				18. Channel Groups	

Instructions

1. Open the lowest Area number for the Zone.

🗶 Areas - 1		-	- (\times
Send Read Options Display					
	<<	1	of 16	\geq	\geq
Area Options Area Type and Timers	Area Event Reporting				
Area Number 🚺 🔻	1				
Area Name	-		_		
Options					
Arm-Disarm Reports	Silent exit				
Quick Away	Manual Fire				
Arm In Stay If No Exit	Manual Auxiliary				
Quick Stay Mode Disam	🦳 Manual Panic				
Siren Chirp Away	🔲 Use Area 1 Options				
Siren Chirp Stay	Bypass Requires PIN				
Force Arm With Bypass	Manual Panic is Silent				
Force Arm Without Bypass	🔲 Arm In instant If No Ex	it			

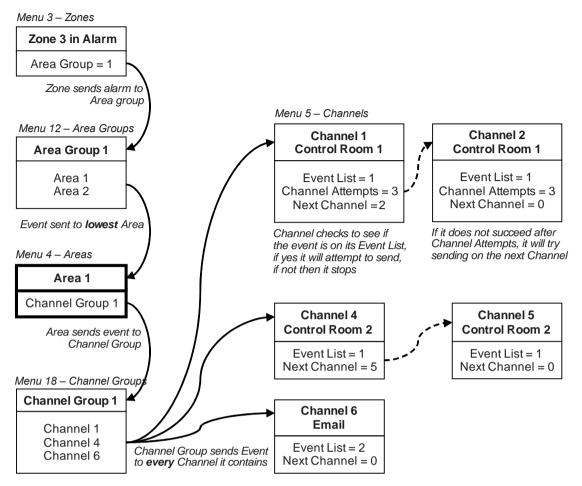
2. Go to Area Reporting.

🔀 Areas - 1			-	- (×
Send Read Option	s Display					
QŮĿ		$ \langle \langle $	1	of 16	\geq	\geq
Area Options Area Ty	pe and Timers Area Even	nt Reporting				
Area Number						
Area Account	0					
Area Channels	Channel Group 1			•		

- 3. Enter an account number.
- 4. Select a valid Channel Group.

Done. All zones that are a part of that Area will now report to the selected Channels within the Channel Group.

Example



Next

- Program Users.
- Program advanced Schedules and Alternate Zone Profiles.

Programming Instructions for System Event Reporting

Pre-conditions

Communicator must be programmed (see "Programming Instructions for Communicator" on page 124).

Event Lists must be programmed (see "Programming Instructions for Event Lists" on page 129).

Channels and Channel Groups must be programmed (see "Programming Instructions for Channels" on page 131).

Notes

• The system event will only be reported by a channel, if that Channel includes that event in the associated Event List(s).

• Take note of the Sequence Attempts under Communicator > System Event Reporting (6.11.2). This is the number of times xGenConnect will attempt the sequence of Channels you set up in this section.

Programming Sequence

17. Event Lists	÷	5. Ch	annels	÷	18.	Channel Gro	ups	→
			6. Communicator 17. Event Lists					
<pre>6. Communicator a) Options b) IP Config c) Ethernet d) Radio e) Dial IP f) Email g) Remote Access h) System Event Reporting 18. Channel Group </pre>	ps							

Instructions

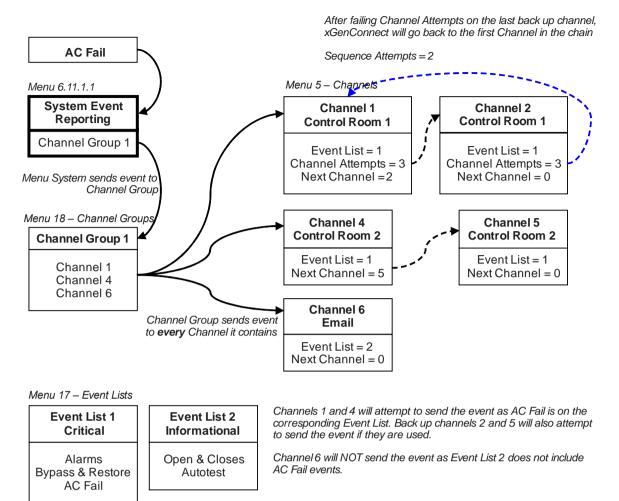
1. Go to Communicator, System Event Reporting.

🔀 Communicator - 1	_	×
Send Read Options Display		
t t		
Options IP Config Radio Remote Access System Event Reporting		
Attempts 6		
System Channels Channel Group 1	-	

2. Select a Channel Group.

Done. The xGenConnect will now report system events to the Channels selected in the Channel Group you just selected.

Example



Programming Instructions for Actions

Goal

Create an action to monitor up to four input events and drive one output event (action result).

	_		_		_						_
Event 1	and or	Event 2	and or	Event 3	and or	Event 4	=	Action State	+	Action Result	

Pre-conditions

Program the input and output events you want the Action to monitor or control.

Notes

- See *xGen Reference Guide* for more details on Actions.
- Write/Plan out on paper what you want to create to make it easier to set up Actions and associated settings.
- Actions can be used without programming an Action Result. For example, outputs are controlled by setting them to monitor an action, when the Action State is true the output state will follow.

Programming Sequence

	8. Actions		19. Action Groups
Events to be $ ightarrow$		\rightarrow	
monitored			

Instructions

1. Open Actions.

X Actions - 1 Send Read Option	na Diantau					_		×
		< < 1 of	256 > >					
Event Result								
Action Number	1 Not Ready - Chime On		•	Action Name				
Action Function	Follow				Duration Minutes	Seconds	0	
Event Equation	(Faulted)							_
Event 1				5.15				
Event Category	Zone Events	•	Event 1 Logic	Event Range Start	e I End	1024	_	
Event Type	Faulted	-	OR 💌	Statt	J, Eld	1024		
Event 2 Event Category	OR 💽 🕂			Event Range				
Event Type	Disabled	•		Start	0 End	0		
Event 3 Event Category	OR 💽 🕇			⊢ Event Rang	a			
	Zone Events	•		Start	0 End	0	_	
Event Type	Disabled	•]	1		
Event 4	OR 🚽 🕇							
Event Category	Zone Events	•		Event Range			_	
Event Type	Disabled	•		Start	0 End	0		

- 2. Select the Action Number you want to create.
- 3. Enter a descriptive name for this action.
- 4. Select the Action Function and the duration (optional) for the Action State.

For example, Timed 5 seconds would cause the Action State to activate for 5 seconds when all the conditions in the Event Equation are satisfied.

5. Select the Event 1 logic, this will be applied before Event 1.

For example, "Inverted OR" results in "NOT Event 1".

- 6. Program the first event by using the Category and Type menus.
- 7. Enter the Event Range for the selected Category.

For example, if you want to select Areas 1-4 then set the Event range Start=1 and End=4.

8. Select Event 2 logic and repeat for the remaining events.

9. If you want to program an action result, click the Result tab.

🔀 Actions - 1			_	
Send Read Opti	ons Display			
QŮU		$ \langle \langle 1$	of 256 $>$ $>$	
Event Result				
Action Number				
Result Category	Zone Results		✓ Start	0
Result Type	Disabled		▼ End	0
			User Number	0

- 10. Select the Category, Type, Start and End Range.
- 11. Test the Action by satisfying the Event Logic and checking the desired response.

Next

- Program the device you want to monitor the Action if needed.
- If you want to control an Output, go to that Output and program it to follow the Action.
- If you want a user or device to have access to the action, then program Action Groups and Permissions.

Programming Instructions for Action Groups

Goal

Create a list of actions a user or device has access to.

Pre-conditions

Program the actions you want to use.

Notes

- See xGen Reference Guide for more details on Actions.
- Action Groups can allow you to create a convenient menu for a user to trigger specific Actions from NXG-18xx.
- Permissions control what actions a User or Device has access to.
- Both the User AND Device need to have access to the desired Action for it to be displayed on a NXG-18xx screen.

Programming Sequence

8. Actions	→	19. Action Groups	÷	11.Permissions a) Groups b) Options/Timers 13. Menus 12. Area Groups 18. Channel Groups x. Action Groups
<pre>10. Devices Outputs zone expanders, keypads, transmitters 11. Permissions 7. Schedules</pre>	÷	<pre>1. User a) Main b) Advanced 11. Permissions 7. Schedules</pre>		

Instructions

1. Open Action Groups.

🕻 Acti	ion Gr	oup - 1							-		>
nd R	lead	Options	Displa	y							
Ċ	Ľ]	[j	<<	1	of 64	\geq	\geq		
Ac	tions 1	29-160		Actions 161-1	92	Actions	193-224		Actio	ons 225-25	6
A	Actions	1-32	ľ	Actions 33-64	i li	Actions	65-96	<u> </u>	Actio	ons 97-128	
Gro	un		1	▼ Name	Г						
aro	uμ		J L		L	Cł	neck all		Unche	ck all	
A	ction 1					Action 9					
□ A	ction 2					Action 10					
E Ad	ction 3					Action 11					
E A	ction 4					Action 12					
	ction 5					Action 13					
	ction 6					Action 14					
	ction 7					Action 15					
□ A(ction 8					Action 16					
	ny Sirei	n			Г	Action 25					
	ction 1					Action 26					
E A	ction 1	9			, 	Action 27					
E A	ction 2	0			Ē	Action 28					
□ A	ction 2	1			Ē	Action 29					
□ A	ction 2	2			Ē	Action 30					
⊢ A	ction 2	3			Ē	Action 31					
⊢ A	ction 2	4			Ē	Action 32					

- 2. Select an Action Group Number.
- 3. Enter a descriptive Name.
- 4. Select the Actions you want to include.

Next

- Assign Action Group to a Permission.
- Assign Permission to a User or Device.

Programming Instructions for Scenes

Goal

Create a scene that performs multiple functions when a certain condition is met.

Pre-conditions

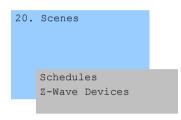
The schedule you want the Scene to follow needs to be programmed.

If you wish to perform Z-Wave Device Actions the Z-Wave device(s) must be learnt in.

Notes

User 99 will be reported for alarm system control events.

Programming Sequence



Instructions

1. Open Scenes.

🔀 Scenes - 1						_	×
Send Read Options			× × 1				
QŮĽ		1 of 1	> >				
Scenes							
Scene	1		Name	ſ	Record Closing		
Scene Trigger Type	Exit Delay 1	•	When Should	d Scene Work	Always On		•
Activate Area	Area 1	-					
Scene Results							
		cene Results	1-4	•			
Device	(1) Alarm System	Disabled	•	- 3 Disabled	-	-4 Disabled	 •
Action Type	Trigger Camera Video Cl 💌						
Action-Zn/Area/User							
Cool Set Point							
Heat Set Point							
	<u>□</u> 4						
	7						
	□ 9 □ 10						
	L 10						
	□ 12 □ 12						
	□ 13 □ 14						
	□ 15						
	☐ 16						

- 2. Select Event Type and the Area.
- 3. Select the Schedule that will determine when this Scene is active.
- 4. Now program the sequence of actions that you want to happen.

Example

When Exit Delay 1 is running in the Office Area, set Camera 1 to start recording.

Programming Instructions for Outputs

Goal

Turn an output on or off according to an Action.



Pre-conditions

Program the Action and any associated components.

Notes

- See xGen Reference Guide for more details on Actions.
- Write/Plan out on paper what you want to create. This makes it easier to set up Actions and associated settings.
- Actions can be used without programming an Action Result. For example, outputs on xGenConnect are controlled by monitoring an Action State, no Action Result needs to be programmed.

Programming Sequence

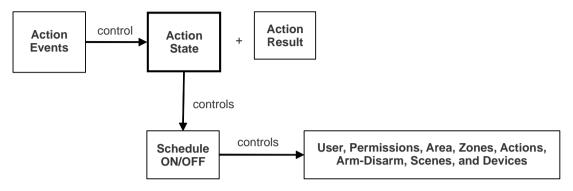


Instructions

- 1. Select the Device that has the physical outputs you want to control.
- 2. Select Outputs.
- 3. Select Action.
- 4. Select the Schedule.

Combining Actions with Schedules

Schedules can control when a user has access, when an automatic Arm-Disarm occurs, when devices can be used, and more. Actions can turn Schedules on and off, making Schedules conditional based on when certain events occur.



The outcome is that we can control Users, Permissions, Areas, Zones, Actions, Arm-Disarm, Scenes, and Devices, based on various system conditions. This provides automation features that allows the system to respond in real-time to changing conditions.

This functionality is achieved by going to that Schedule, and selecting Follow Action Number.

Take care when combining multiple schedules and actions as troubleshooting can get confusing. Always check and test functionality a single step at a time. Users and Zones can have multiple levels of permissions, be sure to check that each permission level is appropriate at all times.

Example

When a certain user is in the building we can prevent an automatic Arm-Disarm from occurring.

First program an Action with the conditions you want and the Duration of the Action if necessary.

Next program Arm-Disarm with a User and Schedule.

Then set the Schedule to Follow Action Number.

When the action events are met, then the Schedule will become active and will be able to perform an Arm-Disarm at the appropriate time. If the conditions are not met then the Arm-Disarm will never occur.

Walk Test

- 1. Log in to panel web page.
- 2. Click Settings.
- 3. Click Walk Test.
- 4. Click Start.

- 5. Trigger each sensor by walking past PIRs, opening and closing reed switches, pressing tamper buttons, etc. Siren will chirp multiple times for each zone triggered.
- 6. Click Stop.
- 7. Click History.

User Reporting

When enabled, quick arming/disarming from the keypad without a PIN code will report user 98 to the Central Monitoring Station. SOS functions also report as user 98.

If the installer PIN is used to arm/disarm, user 256 is reported to the Central Monitoring Station. On legacy NX keypads user 255 will appear in event history.

Appendix 1: System Status Messages

Various messages may appear on the Status screen of xGenConnect Web Server and UltraSync+ app.

System

- AC power fail: The security system has lost its electricity power. May take up to 5 min to clear once power restored.
- Low battery: The security system's back up battery requires charging. May take up to 5 min to clear once battery charged.
- Battery test fail: The security system's back up battery requires changing. If after 48 hours this message does not clear, replace with a new battery. If the power fails, the system will not be operational.
- Box tamper: The security system's cabinet tamper input has activated.
- Siren trouble: The security system's external siren has a problem. Check the panel is securely installed on the wall.
- Over current: The security system is drawing too much current. Disconnect some hardwired inputs.
- Time and date loss: The security system time and date need resetting.
- Communication fault: The security system has detected a problem with the communication channel. Check the internet connection, Ethernet cable, or cellular reception is sufficient.
- Fire alarm: A fire alarm has been activated from the panel.
- Panic: A panic alarm has been activated from the panel.
- Auxiliary: An auxiliary alarm has been activated from the panel.

Area Number. Area Name

- Is on in the away mode: This Area is armed in the away mode.
- Is on in the stay mode: This Area is armed in the stay mode.
- Is ready: This Area is secure and ready to be armed.
- Is not ready: This Area is NOT ready to be armed, a zone is not secure.
- All Areas are on in the away mode: All Areas in this multi area system are armed in the away mode.
- All Areas are on in the stay mode: All Areas in this multi area system are armed in the stay mode.
- All Areas are ready: All Areas in this multi area system are secure and ready to be armed.

Zone Number. Zone Name

- In alarm: This zone has triggered a system alarm condition.
- Is bypassed: This zone is bypassed (inhibited) and will not activate an alarm.
- Chime is set: This zone is part of the chime group.
- Is not secure: This zone is not closed.
- Fire alarm: This zone has triggered a fire alarm.
- Tamper: This zone has triggered a tamper alarm.
- Trouble fault: This zone has an open circuit.
- Loss of wireless supervision: This zone is a wireless device and has lost its communication link with the control panel. Check the zone is within range of the panel and has sufficient battery.
- Low battery: This zone is a wireless device and needs a battery replacement.

Appendix 2: App and Web Error Messages

Various error messages may appear in the xGenConnect Web Server and UltraSync+ app.

Advanced/Settings Configuration Menus

- "You must select a Menu before you can scroll": An attempt was made to scroll up or down from the top level menu.
- "Select a submenu from the list or select back to access the main menu": An attempt was made to scroll up or down from a submenu that has no additional levels
- "Defaulting requires 2 levels": A Shortcut was entered without two levels.

Read Write errors and results

- "Write Access Denied": Changes cannot be saved, check you have permission or contact your installer.
- "Nothing displayed can be Saved": No changes are possible on this screen.
- "Program Success!" Changes have been saved.
- "Name Saved": Changes have been saved.

Zones Page

 "No Zones Configured for Your Access": Displayed on Zones page when there are no zones available to view

Data Entry Errors

- "Data must only contain the following characters"
- "Date must be of the form YYYY-MM-DD."
- "Day must be from 1 to 31"
- "Data entry must only contain the numbers 0 9 and A–F"
- "Data entry must only contain the numbers 0 9"
- "Data must be a number from X to Y"
- "Improper Time Value"
- "must be 4 to 8 digits
- "You must enter a user Number between 1 and 1048575"
- "PIN digits must be between 0 and 9"
- "PIN Must be 4-8 digits from 0-9"
- "Data must not contain the following characters []"

Appendix 3	3:	NetworX	Modules	Compatibility
------------	----	----------------	---------	---------------

Module part number	Description	Supported by xGenConnect	Remarks
NX-7002N-V3	Plug on GSM module for NX-V3 control panels	No	Use NXG-7002
NX-535N	Voice speech module	No	
NX-535N-V3	Plug on Voice speech module for NX-V3 control panels	No	
NX-1048-R-D-EN	Multilingual LCD keypad, wireless 868 MHz GEN2, white, incl. batteries	No	
NX-1048-D-EN	Multilingual LCD keypad, wired, white	Yes	No programming, limited user functions
NX-848E	Transceiver in housing for mounting out of the box	Yes	Use NXG-868 for new installations
			Requires NX keypad for programming
60-904-43-48Z	48 zone wireless receiver, 433.92 MHz (NX-448E)	Yes	Use NXG-433 or NXG- 9-RF-LB for new installations
NX-1xx	8 zone LED keypad without door	Yes	No programming, limited user functions
NX-13xx	16 zone LED design keypad with removable door	Yes	No programming, limited user functions
NX-15xx	16 zone LED vertical keypad with removable door	Yes	No programming, limited user functions
NX-1820E-EUR	Touch screen keypad, multi- lingual	No	Use NXG-1820-EUR or NXG-183x-EUR
NX-148	LCD design keypad with removable door	Yes	No programming, limited user functions
NX-587E	Virtual keypad	No	
NX-216E-EN	16 zone expander module for NX-8 and NX-8E, EN approved	Yes	
NX-508E	Output module with 8 open collectors	Yes	Requires NX keypad for programming
NX-507E	Output module with 7 relays and 1 OC	Yes	Requires NX keypad for programming
NX-534E-AL	Two-way voice module, including 3510	No	
NX-540E	Telephone interface module	No	
NX-320-I	Smart power supply and bus extender	Yes	Use NXG-320 for new installations
			Requires NX keypad for programming
NX-584E	Home automation module with two-way serial port interface	No	

Module part number	Description	Supported by xGenConnect	Remarks
NX-586E	Direct connect interface for DL900 Up and Download software	No	
NX-590NE	TCP/IP Internet/Intranet interface module	No	
NX-1701E	Proximity card reader	Yes	Requires NX keypad for programming
NX-1750	ProxPad proximity reader	Yes	Requires NX keypad for programming
NX-2192E-EUR	PinPoint Bus Interface Card	No	

See also "EN 50131 and INCERT certified components" on page 15.

Appendix 4: Advanced Menu Tree

3. Call Back Number	12.	Area Groups
4. Callback Server		1. Area Group Number
5. Number Of Rings 6. Number of Calls		2. Area Group Name
7. Answering Machine	10	3. Area List
Defeat	13.	Menus
8. Download Options		1. Menu Number
6. System Event		2. Menu Name
Reporting	14	3. Menu Selections
1. System Channel	14.	Holidays 1. Holiday Number
2. Attempts		2. Holiday Name
7. Schedules		3. Date Range
1. Schedule Number	15	Zone Types
2. Schedule Name	_0.	1. Zone Type Number
3. Follow Action Number		2. Zone Type Name
4. Times and Days		3. Zone Type Armed
8. Actions		4. Zone Type Disarmed
1. Action Number	16.	Zone Options
2. Action Name		1. Zone Options Number
3. Function		2. Zone Options Name
4. Duration Minutes 5. Duration Seconds		3. Zone Options
6. Event 1		4. Zone Reporting
7. Event 2		5. Zone Contact Options
8. Event 3		6. Zone Report Event
9. Event 4	17.	Event Lists
10. Result		1. Event List Number
9. Arm-Disarm		2. Event List Name
1. Arm-Disarm Number	10	3. Event List
2. Name	18.	Channel Groups
3. User Number		1. Channel Group Number
4. Schedule Number		 Channel Group Name Channel List
10. Devices	10	Action Groups
1. System Devices	19.	1. Action Group Number
1. Control		2. Action Group Name
2. Keypad		3. Action Group List
3. Zone Exp		Scenes
A Outward Dama	20.	
4. Output Exp	20.	1. Scene Number
5. Power Supply	20.	
	20.	1. Scene Number
5. Power Supply 2. Interlogix	20.	 Scene Number Scene Name
5. Power Supply 2. Interlogix Transmitters	20.	 Scene Number Scene Name Activate Schedule
5. Power Supply 2. Interlogix Transmitters 1. Transmitter	20.	 Scene Number Scene Name Activate Schedule Activate Event Type
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User 		 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras
5. Power Supply 2. Interlogix Transmitters 1. Transmitter Number 2. Serial Number 3. User 4. Options		 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number
5. Power Supply 2. Interlogix Transmitters 1. Transmitter Number 2. Serial Number 3. User 4. Options 5. Scene		 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name
5. Power Supply 2. Interlogix Transmitters 1. Transmitter Number 2. Serial Number 3. User 4. Options 5. Scene 6. Signal Strength		 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices 		 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name 		 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 3 Ethernet Server 4
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name Serial Number 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 3 Ethernet Server 4 Wireless Server 1
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name Serial Number Area Group Keypad Options 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 3 Ethernet Server 4 Wireless Server 1 Wireless Server 2
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name Serial Number Area Group Keypad Options 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 2 Ethernet Server 4 Wireless Server 1 Wireless Server 2 Wireless Server 3
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name Serial Number Area Group Keypad Options Permission Number Permission Name 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 3 Ethernet Server 4 Wireless Server 1 Wireless Server 2
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name Serial Number Area Group Keypad Options Permission Number Permission Name Control Groups 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 2 Ethernet Server 4 Wireless Server 1 Wireless Server 2 Wireless Server 3
 Fower Supply Interlogix Transmitters Transmitter Number Serial Number User Options Scene Signal Strength Z-Wave Devices Name Basic Type Generic Type Specific Type Tablet Keypads Name Serial Number Area Group Keypad Options Permission Number Permission Name 	22.	 Scene Number Scene Name Activate Schedule Activate Event Type Activate Zone Scene Actions Cameras Camera Number Camera Name LAN IP Address MAC Address Panel to Camera Connection UltraSync Web Access PIN Ethernet Server 1 Ethernet Server 3 Ethernet Server 4 Wireless Server 2 Wireless Server 2 Wireless Server 3

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- 1. Users
- 2. System
 - 1. System Clock
 - 2. General Options

 - System Timers
 Siren Options
 Service and Test
 - options 6. Status

 - /. System Counts
 1.

 8. Language
 2.

 1. Language
 7. Schedule

 2. Voice Language
 1. Sche

 9. Automation Menu
 2. Sche

 Zones
 3.
- 3. Zones
- 9. Automation Menu2. SoleZones3. Foll1. Zone Number4. Time2. Zone Name8. Actions3. First Zone Profile1. Acti1. Zone Type2. Acti2. Zone Options3. Func3. Area Group4. Dura4. Schedule Number5. Dura5. User Number6. Even4. Second Zone Profile7. EvenAreas8. Even1. Area Number9. Even2. Area Name9. Arm-Disz
- 4. Areas

 - 3. Area Entry-Exit Times 9. Arm-Dis

 - Area Entry-Exit Times
 J. Arm Dia

 4. Area Options
 1. Arm

 5. Area Timers
 2. Name

 6. Area Type Settings
 3. User

 7. Area Event Reporting
 4. Sche

 Channels
 10. Devices

 1. Channel Number
 1. Syst

5. Channels

- 1. Channel Number
- 2. Channel Name
- 3. Account Number
- 4. Format
- 5. Device Number
- 6. Destination5.7. Next Channel2. Intervention8. Event ListTransmin9. Attempts1. 6. Destination

- 9. Attempts10. Language6. Communicator
 - 1. General Options
 - 2. Auto Test
 - 2. Auto Test 3. IP Configuration 1. IP Host Name 2. IP Address 3. Z-Wa 1. IP Host Name 2. IP Address

 - 3. Gateway
 - 4. Subnet

 - 4. Subnet3.5. Primary DNS4.6. Secondary DNS4. Tab.7. Ports1.

 - 8. Time Server 9. IP Options
 - 9. IP Options 4. Radio Configuration
 - 1. GPRS Username
 4.

 2. GPRS Password
 11. Permis

 - 2. Grio 102 3. APN 5. Remote Access 1. Panel Device Number 2. Download Access Code

xGenConnect Installation and Programming Guide

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 - З.

Appendix 5: NXG-183x Keypad Features

Navigating through "Program" menu using NXG-183x-EUR keypad

NXG-183x-EUR allows the installer to configure all the configuration parameters exposed by the panel or other peripheral devices. In order to enter programming menu, one needs to press the ENTER key on the keypad, then enter the installer PIN followed by ENTER.

Once entered the installer programming menu, "Program" appears as the first submenu. The menu structure is identical to the Advanced menu structure from the panel web page. See also "Appendix 4: Advanced Menu Tree" on page 153".

Navigation through the Program menu is similar to operation within the user menu, with some additional extensions:

- Top line shows the full path of the current location (for example, Zones / Zone Number 1 / Zone Name, etc.). The path is usually too long to fit the screen – in such case it can be scrolled back and forth by pressing "i" key.
- If the current location is within the menu tree of enumerable objects (for example, within Zones, Partitions, Channels, Schedules, etc.), then the object number (for example, Zone number) can be instantly changed by either one of the following methods:

- Pressing A button allows the installer to specify the new object by entering a number.

- Pressing Left (4) or Right (6) buttons allows the installer to increase or decrease the current object number within the allowed limits.

Restoring factory defaults

Default settings of the panel or peripheral devices can be restored by pressing D button in the relevant System Device menus of the Program menu:

• The Panel factory defaults can be restored by pressing D button at the menu location:

/ Devices / System Devices / Control / Device number 1

This is equivalent to the operation Default ALL performed on the NXG-1820-EUR keypad.

• The factory defaults of a peripheral device can be restored by pressing D button at the menu location:

/ Devices / System Devices / TYPE / Device number X

where TYPE can be: Keypad, Zone Exp, Output Exp, Power Supply, and X is the device number.

For example, pressing D button at the menu location "/ Devices / System Devices /Keypad / Device number 2" will restore the factory defaults of the 2nd keypad in the system.

Using this method, one can restore the factory defaults of the NXG-183x-EUR keypad itself.

In all the cases, the keypad asks for confirmation before loading the factory defaults in order to avoid accidental changes.

Logo customization

The NXG-183x-EUR keypad can display a company logo on the display when both the Enable Screensaver and the Show Logo options are enabled in the keypad settings. The logo will be shown only when the keypad screensaver mode is active.

Creating a customized company logo requires the following:

- Computer or laptop with application to edit and create .bmp files (for example, Microsoft Paint)
- DLX900 v5.15 or higher to create .MIF3 file out of the .bmp file
- USBUP-EUR-V2 (or DLX900) to flash the NXG-183x keypad with the company logo file (.MIF3)

The company logo file can be created by using a computer and a simple application like MS Paint. In order to create a company logo file and upload this file onto the keypad, follow these steps:

1. Create an image using any application capable of editing and saving .bmp files. In example, use Microsoft Paint on a Windows computer or laptop.

The image must be monochrome (black and white), no colors or shades of gray are supported. The image size should not exceed 256 x 48 pixels (full screen size of NXG-183x).

As an example, the picture below shows the file properties in MS Paint, with the relevant options properly set:

Image Properties	×
File Attributes Last Saved: 6/15 Size on disk: 0.0K Resolution: 96 D	-
Units O Inches O Centimeters O Pixels	Colors Black and white Color
Width: 256 Heigh	t: 48 Default
	OK Cancel

- 2. Save the prepared image as a black-and-white file type with .bmp extension. For MS Paint, select file type Monochrome Bitmap (*.bmp, *.dib).
- 3. Open DLX900 software (version 5.15 or higher), connect to the system or just open the DLX900 account for which there is the NXG-183x-EUR keypad and for which you want to upload the new company logo file.
- 4. Go to Devices / Device Info / Keypad. Select the NXG-183x keypad.
- 5. Click Create file button in USBUp section. Next, select Logo Bmp file option in the component selection window (see figure below). Press OK.

Select Files to Save	×
Configuration Data Logo Bmp file	
Select the file types that you want included in the save file.	ed
OK Cancel	

- 6. The Input file selection window appears. Select the .bmp file saved in step 2.
- 7. Resulting file selection window appears. Provide the location and name for a resulting .mif3 file. Click Save.

The resulting MIF3 file can now be used to flash one or more NXG-183x keypads with the customized company logo.

Loading of the file can be done either using the USBUP-EUR-V2 upgrade tool, or using DLX900 software and the Update Device button. In both cases, upgrading the company logo .MIF3 file uses the same procedure as upgrading the firmware of the device.

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