

# xGenConnect Installation and Programming Guide

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This product was tested and certified to EN 50136-2:2013 for Alarm transmission system performance DP2 and DP3 for reporting over IP(LAN) and GPRS to the UltraSync and OH NetRec.

Tested and certified by Kiwa Nederland B.V.

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**Contact information** 

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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-partition mode, wireless expansion, door control features, 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, doors, 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	NYG-8F	NXG-9
	11/0-4	1170-0		1170-3
On-board zones	4	8	8	8
Max Zones	4 hardwired 16 wireless	48	192	48
Partitions	4	8	8	8
Users	40	100	256	100
Max Keyfobs	8	16	64	16
Max Tablets	4	4	4	4
Max keypads	16	24	24	24
Max Expander Modules incl. Keypads and Tablets	24	32	32	32
Max doors	4	16	16	16
On-board outputs	3 OC, BELL	4 OC, BELL, Smoke	4 OC, BELL, Smoke	4 OC, BELL, Smoke
Main event log capacity	1024	1024	1024	1024
Access event log capacity	5000	5000	5000	5000

#### System Capacity

## **xGenConnect Specifications**

## Product Codes

Product	Description	EN grade
	Description	
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-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-8E	xGenConnect panel, 8 zones, 8 partitions, max. 192 zones, with IP on-board	2
NXG-8E-CB	xGenConnect panel, 8 zones, 8 partitions, max. 192 zones, with IP 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-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-8-BO	xGenConnect board, 8 zones, 8 partitions, max. 48 zones, with IP on-board	2
NXG-8E-BO	xGenConnect board, 8 zones, 8 partitions, max. 192 zones, with IP 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-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
NXG-208N	xGenConnect 8 zone expander board	2
NXG-216N	xGenConnect 16 zone expander board	2
NXG-220-G3	20 zone expander	2/3
NXG-504	4 relay output expander	2/3
NXG-508N	xGenConnect 8 relay expander board	2
NXG-510	10 relay output expander	2/3
NXG-005	Pry-off tamper switch incl. metal U-bracket	2/3
NX-002	Small metal enclosure for NXG-4, no cam lock, no tamper	2

Product	Description	EN grade
NX-003	Standard metal enclosure for NXG-8/8E, with cam lock, no tamper	2
NX-003-CB	Large metal enclosure for NXG-8/8E, with cam lock, tamper, including stand-offs	2
NX-005-C	Housing tamper switch	2
NXG-003-DIN	DIN-rail mounting kit	2/3
NXG-868	Wireless expander 868 MHz Gen 2	None
NXG-433	Wireless expander 433 MHz	2
NXG-7002(-SIM)	4G/Wi-Fi communication expander (-SIM includes SIM card)	2
NXG-7102(-SIM)	4G communication expander (-SIM includes SIM card)	2

#### **Mains Power Specifications**

Mains input voltage	230 VAC +10%, -15%, 50/60 Hz ±10%	
Current consumption at 230 VAC	240 mA max.	
Transformer output:		
NXG-4, NXG-8(E)	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	140 mA at 13.8 VDC ± 0.4 V
NXG-8(E)	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(E)	13.8 VDC ± 0.2 V, 350 mA max.
NXG-9	13.8 VDC ± 0.2 V, 570 mA max.

Battery type	Certified sealed lead acid rechargeable.
	7.2 Ah 12 V nominal 12 Ah 12 V nominal (NXG-8 and NXG-9 only) 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
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
NXG-8E	256
User Permissions:	
NXG-4	32
NXG-8, NXG-9	64
NXG-8E	128
Onboard zones:	
NXG-4	4 (default); 8 if zone doubling enabled.
NXG-8(E), NXG-9	8 (default); 16 if zone doubling enabled.
Maximum zone number:	
NXG-4	16
NXG-8, NXG-9	48
NXG-8E	192
Additional inputs:	
NXG-4, NXG-8(E)	1: box tamper
NXG-9	2: box tampers
End-of-line resistor	
Standard	4.7 k $\Omega$ / 9.4 k $\Omega$ (Aritech), 4.1 k $\Omega$ / 8.2 k $\Omega$ (Guardall),
	1 kΩ / 2 kΩ (Galaxy), 3.3 kΩ / 6.6 kΩ (NX)
Aritech	4.7 kΩ / 9.4 kΩ / 14.7 kΩ / 19.4 kΩ
Guardall	4.1 kΩ / 8.2 kΩ / 12.3 kΩ / 16.4 kΩ
Galaxy	1 kΩ / 2 kΩ
Vanderbilt	4.7 kΩ / 9.4 kΩ / 6.9 kΩ / 11.6 kΩ
2-wire smoke	820 Ω

Zone Doubling	3.74 kΩ / 6.98 kΩ
	See "Detector EOL Wiring" on page 23 for more information.
Onboard outputs:	
NXG-4	4: bell, strobe, siren and power outputs
NXG-8(E), NXG-9	5: bell, strobe, siren and power outputs
Maximum output number	32
Maximum action number	32
Partitions:	
NXG-4	4
NXG-8(E), NXG-9	8
Maximum keypad:	
NXG-4	16
NXG-8(E), NXG-9	24
Maximum expander modules, incl. keypads:	
NXG-4	24
NXG-8(E), NXG-9	32
Non-volatile Memory	
Main event log capacity	1024
Access event log capacity	5000
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	800 m
Cable flammability rating	VW-1

## **Current Consumption**

Product	Main description	Current Consumption (non-alarm)	Current Consumption (alarm)
NXG-8(E)	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	140 mA typical	140 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-208N	xGenConnect 8 zone expander board	30 mA	30 mA
NXG-216N	xGenConnect 16 zone expander board	30 mA	30 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-508N	xGenConnect 8 relay expander board	20 mA idle 130 mA 8 relays on	20 mA idle 130 mA 8 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-4					
12 h	72 h	460 mA	N/A	N/A	EN 50131 Grade 1 and 2
24 h	48 h	160 mA	N/A	N/A	INCERT Grade 2
NXG-8(E)					
12 h	72 h	475 mA	875 mA	1200 mA	EN 50131 Grade 1 and 2

Discharge Time	Charge Time	7.2 Ah Battery	12 Ah Battery	18 Ah Battery	Reference
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 NXG-8 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 475 mA.

#### **Environmental**

Operating temperature	−10 to +55°C
Humidity	95% non-condensing
IP protection grade	IP30
NXG-4, NXG-8(E) metal enclosure	EN 50131 Grade 2, Class II
NXG-9 polycarbonate enclosure	EN 50131 Grade 2, Class II
Alarm transmission class EN50136-2/EN 50131-10:	
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)	xGenConnect /w metal enclosure	214 x 232 x 94 mm (enclosure only)	1435 g
		359 x 232 x 94 mm (with antennas)	
NXG-8(E)	NXG-8(E) /w standard metal enclosure	292 x 291 x 91 mm	2075 g
NXG-8(E)-CB	NXG-8(E) /w large metal enclosure	394 x 256 x 118 mm	7150 g
NXG-9-RF	NXG-9 /w standard poly housing	220 x 253 x 112 mm	1800 g
NXG-9(-RF)-LB	NXG-9 /w large poly housing	394 x 256 x 118 mm	2800 g
NXG-8-BO	NXG-8, board only	273 x 89 x 25 mm	210 g
NXG-4(-RF)-BO	NXG-4, board only	192 x 89 x 25 mm	155 g
NXG-9(-RF)-BO	NXG-9, board only		210 g
NXG-003-G3	Metal Enclosure	475 x 395 x 130 mm	7150 g

Product Main description		Dimensions (HxWxD)	Weight (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-208N	xGenConnect 8 zone expander board	153 x 57 mm	60 g
NXG-216N	xGenConnect 16 zone expander board	153 x 57 mm	60 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
NXG-508N	xGenConnect 8 relay expander board	153 x 57 mm	70 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 AUX+)	
NXG-8(E)	1.1 A, resettable
NXG-9	2 A, resettable
System LAN (combined for J2 POS, J3 POS)	
NXG-8(E)	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 block.	

#### 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

Monitoring function	Message	Cause
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
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

#	SIA code	CID code	Function
27	DR	R423	Door Forced
28	ТР	E611	Start Walk test zone
29	TE	E389	End Zone Test
30	ТР	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	ΗV	E120	Hold-up Alarm (Verified)
38	PA	E129	Panic Alarm (Unverified)
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

#	SIA code	CID code	Function
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
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

#	SIA code	CID code	Function
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
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 Partitions and Control Partitions settings are identical
- Buzzer silent, never
- Quick set, off
- Function keys, all set to None
- User group options, No OP/CL reports option set to No
- Inhibit, set to No for all zones with type Panic, 24H
- Swinger shunt, set to Yes for all zones
- ACK on keypad, set to None for all zones with type 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  $\geq 3$
- Report restore, on ACK
- Line fault, enabled per path used
- Line fault delay, 0 s
- Partition option to override EN50131-1 Arming Cancelation set to No
- User option not to report open/close events only with at least one CIE (Control and Indicating Equipment) in the system

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 > Alarm.

#### 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 become 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-CPU
- Keypads: NXG-1820-EUR (Grade 2 only), NXG-183x-EUR (Grade 2 only), NX-1048-EN
- Readers: NX-1701E
- Expanders: NXG-504, NXG-508N, NXG-510, NXG-208, NXG-208N, NXG-216N, 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(-SIM), NXG-7102(-SIM)
- Housings: NX-003 and NX-003-CB with NX-005-C tamper mounted

### **Other regulations**

#### INCERT

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

- Engineer tamper reset: On.
- The cabinet must be equipped with a cam lock (item 1 in figure below). In case of retrofit from NX-4 to NXG-4, the cam lock must be ordered separately, part number 600-CL.



**Caution:** NXG-8(E)-CB panels and NX-003-CB large metal housings are delivered with optional housing stand-offs.

Using stand-offs is not compliant with EN 50131-1 and INCERT.

## Installation





(A) NXG-8(E)	(D) 2-wire smoke detector		
(B) Transformer	Enable Two Wire Smoke feature Program zone 8 as Zone type "Fire" and Zone		
16 VAC, 1.5 A, 40 VA transformer. Fuse 500 mA, 250 VAC. See also "xGenConnect Specifications" on page 2.	<ul> <li>options "Fire"</li> <li>820 Ω resistor</li> <li>(E) 4-wire smoke detector</li> </ul>		
(C) Voltage output / Speaker output	Program Zone type "Fire" and Zone options "Fire"		
<ol> <li>Indoor Siren/Speaker Siren Options &gt; Voltage Siren Output is OFF. By default, speaker output for 15 or 20 W speaker with 4, 8 or 16 Ω load.</li> <li>Voltage Output for 12 VDC indoor siren Siren Options &gt; Voltage Siren Output is ON. Max. load = 500 mA Requires 3.3 kΩ EOL.</li> </ol>	<ul> <li>3.3 kΩ resistor</li> <li>(F) Single zone</li> <li>(1) NC contact</li> <li>(2) NO contact</li> <li>(3) NC contact with EOL resistor</li> <li>(4) NO contact with EOL resistor</li> <li>(5) One NO contact and one NC contact with EOL resistor</li> <li>(6) Zone tamper EOL resistor</li> <li>See "Detector EOL Wiring" on page 23 for supported resistor values.</li> </ul>		
	(G) Doubled zone		

- (7) 3.74K resistors for zones 1 to 8. 6.98K resistors for zones 9 to 16.
- (8) Doubled zone configuration used as a fire zone. Upper zone (9 to 16) is not usable.

#### NXG-8(E) 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(E) 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(E) Wiring Diagram" on page 17. 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(E) Terminals" on page 19. 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(E) LEDs" on page 20. The NXG-9 unit functionality is the same the NXG-8 except that the LEDs are spatially orientated differently.

#### NXG-4 Wiring Diagram



Refer to "NXG-8(E) Wiring Diagram" on page 17. The NXG-4 unit functionality is the same as NXG-8 except that the connections are spatially orientated differently.

## NXG-4 Terminals

Refer to "NXG-8(E) Terminals" on page 19.

The NXG-4 unit functionality is the same as NXG-8 except it provides two additional connections:

- Antenna 1: After the board is installed in the metal enclosure, insert the antenna with the corresponding icon.
- Antenna 2: After the board is installed in the metal enclosure, insert the antenna with the corresponding icon.

**Caution:** Removing one or both antennas will cause the panel to report a panel housing tamper.

#### NXG-4 LEDs

Refer to "NXG-8(E) LEDs" on page 20.

The NXG-4 unit functionality is the same as NXG-8 except it has the following additional LED:

 D5 RF: Red LED blinks when message is sent or received from a 63bit / 80plus transmitter.

#### **Detector EOL Wiring**

When the System > EOL Resistor Value > Normal Range option is set to Standard, the inputs on the xGenConnect panels and zone expanders support the following end-of-line resistor value combinations:

Standard	Caddx	Aritech	Guardall	
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	8	

**Note:** The value Standard does not report fault/anti-mask on the panel on-board zones.

The option System > EOL Resistor Value > Normal Range is a system wide parameter. Other system wide EOL resistor value options are Guardall, Aritech, Galaxy and Vanderbilt. The system EOL setting can be overwritten per individual zone with another EOL value if needed.

Go to the zone number settings and set the appropriate EOL resistor value, different from the one set under System > EOL Resistor Value > Normal Range according to the following table.

	Aritech	Guardall	Vanderbilt	Galaxy	
Tamper (short)	0	0	0	0	
Normal	4.7 kΩ	4.1 kΩ	4.7 kΩ	1.0 kΩ	
Alarm	9.4 kΩ	8.2 kΩ	9.4 kΩ	2.0 kΩ	
Fault	14.7 kΩ	12.3 kΩ	6.9 kΩ	_	
Anti-mask	19.4 kΩ	16.4 kΩ	11.6 kΩ	_	
Tamper (open)	∞	ø	ø	×	

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

#### Hardwired Shock Sensor

Hardwired shock sensors can be wired to the xGenConnect system. For each zone, a gross attack and pulse count level can be set under Zones > Shock Sensor Options.

#### **Gross Attack Count**

A gross attack measures big blows to the sensor. It records shocks on a scale of 1 to 9 (0 = disabled) where 1 is the most sensitive. An alarm is generated after a specified point on the scale. This prevents natural blows activating the alarm.

#### **Pulse Count**

A pulse attack measures vibrations to the sensor. It records the number of vibrations (1 to 32, 0 = disabled) over a 30 second period with 1 second intervals.

An alarm is generated when the vibrations add up to more than the specified number within any 30 second period. The 30 second period is a rolling time window. For example, if Pulse Count is set to 6, when the sixth vibration occurs, the timer rolls back 30 seconds and counts how many vibrations occurred during this time. If all 6 vibrations occurred during the 30 second window, an alarm is generated. Shock pulse counting prevents small repetitive attacks such as the window frame being attacked with a glasscutter.

Gross Attack and Pulse Count events will be logged in the panel event log. The Shock Gross Alarm will include the peak value which caused the alarm. This allows to adjust the Gross Attack Count value in case it is set to sensitive.

Hardwired shock sensors are supported with xGenConnect panels firmware version 11.xx and higher, and NXG-2xxN firmware version 0.11 or higher. Note that only the first 8 inputs of the NXG-216N zone expander support wired shock sensors. The last 8 inputs can be used as normal intrusion zones; however, no shock analyzation is available on these inputs.

#### **Power Requirements**

The xGenConnect intrusion panel family is designed to be used with a 16 VAC 1.5 A (NXG-4, NXG-8, NXG-8E), 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.

 For cable specifications, see "xGenConnect Specifications > xGenConnect Bus" on page 5.

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  $\boldsymbol{\Omega}.$ 

- 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 NXG-8 panel / NX-003 housing



 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.

Due to safety reasons it is not allowed to wallmount the device higher that 2 meters from the floor.

- 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.
- 5. When installing permanent, fixed wiring, insert an easily accessible, dedicated all-pole circuit breaker in the power distribution network.

## **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)
- 4G antennas for Wi-Fi/cellular module
- · Wi-Fi antennas for Wi-Fi/cellular module

#### Wireless Sensor (NXG-4 only)



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.

Installing NXG-8(E)-CB panel / NX-003-CB housing



The large metal housing includes a tamper switch and a set of stand-offs and can be used for those installations where additional xGenConnect zone and/or output expanders are required or in case a larger backup battery is required.

Note: Using stand-offs is not compliant with EN 50131-1 and INCERT.

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



The NXG-320 plastic enclosure 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-G3 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-G3 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.

When installing multiple xGen devices/modules, it is recommended to use manual enroll to allow installer to control device numbering.

If auto-enroll does not complete for all connected devices:

- 1. Power cycle the panel/bus.
- 2. Connect batches of 4 devices at a time.
- 3. Push the LEARN button.
- 4. Confirm 4 additional devices enrolled.
- 5. Repeat for additional devices with batches of 4.

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
- 4. Tablet Keypads
  - 1. Name
  - 2. Serial Number
  - 3. Partition 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 PIN 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.

## Lock Out on 10 Invalid Card Attempts

If an invalid card or tag is presented to the NXG-1832 / NXG-1833-EUR keypad 10 times, the keypad will ignore further attempts to read the card for the next 90 seconds. The card or tag may not be compatible with the system, not have been secured or added to a user, or the user card or tag may have been disabled.

## 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-EUR 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.

# Arm/Disarm Your System with Simplified Arm-Disarm mode enabled

The NXG-183x-EUR keypad can be configured to arm and disarm the system in a simplified way. If the Simplified arm-disarm mode is enabled, pressing any of the numeric keys automatically starts entering user PIN.

Note: This mode is available for 4- or 6-digit PINs only.

You can enter your PIN (4 or 6 digits, depending on the system settings) without pressing the Enter key, or arm-disarm buttons.

If the appropriate partitions are armed or in alarm, entering a valid PIN code will disarm the system. If the partitions are disarmed, entering a valid PIN code will arm these in the Away mode.

#### Notes

- It is recommended (but not required) to disable the Idle PIN and Display partition list options to take all advantages of Simplified arm-disarm mode.
- If the Display partition list option is enabled, it is not required in the Simplified arm-disarm mode to press Enter after selecting the partitions to operate. If any partition is selected, the selection is automatically confirmed 5 seconds after the last key is pressed.
- The screensaver is not deactivated automatically. If the screensaver is active, press any button first to deactivate the screensaver, and then start entering your PIN.
- The operation to perform in Simplified arm-disarm mode is chosen based on the state of all partitions that the user has the permission to disarm (relevant only if custom users are configured).
- If the Simplified arm-disarm mode is enabled and any partition is armed, you cannot access the keypad menu by pressing the Enter key.

#### Example:

User PIN is 1234, Simplified arm-disarm mode is set to 4-digit mode, Idle PIN is disabled.

To arm or disarm the partitions, follow these steps:

- 1. If the screensaver is active, press any button to deactivate it.
- 2. Press 1, 2, 3, 4.

System arms or disarms, depending on its current state.

## Arm/Disarm Your System with NXG-1832 / NXG-1833-EUR keypad and user card

The system can be armed/disarmed by presenting a card or tag to the NXG-1832 / NXG-1833-EUR keypads, which are equipped with a built-in Mifare card reader. The following configuration steps must be taken to allow arming and disarming via a user card or tag:

- A card must be properly secured, assigned to a User, and enabled. See "Configuring cards or tags using the NXG-1832 / NXG-1833-EUR keypads" on page 160 for details.
- The user must have permissions to execute the desired operation (arming away, arming stay, disarming).
- The keypad must be configured to trigger the desired action when a card or tag is presented. There are three card beep functions available (single, double, and triple beeps), which can be configured separately for desired actions. See *NXG-183x-EUR Series Keypad User Manual* for details.

In order to trigger the configured function, the card must be presented to the keypad, preferably close to the center of the LCD screen, and the keypad must be either in screensaver mode, or showing the main screen.

**Note:** It is possible to configure the same card function for both arm and disarm operation. If the partition is armed or in alarm, presenting the card will disarm it. If the partition is disarmed, presenting the card will arm the partition. See *xGenConnect Door Access Programming Guide* for more details.

## Activate SOS Feature (NXG-1820-EUR only)



Touch the SOS button to display the SOS feature:

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 an 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.

### WiFi Router

xGenConnect Router can open a WiFi Access Point to allow an installer to connect a mobile phone / tablet / laptop to the router and program the panel using a web browser.

#### Quick Connect using an NXG-1820 / NXG-1830 keypad:

- 1. Unlock the keypad and access the Programming menu.
- 2. Navigate to Advanced > Communicator > IP Configuration > IP Options.
- 3. Navigate to Enable WiFi Internal Access Point.
- 4. Toggle the option on.
- 5. Exit menu.

#### On your mobile phone / tablet / laptop:

- 1. Navigate to WiFi settings.
- 2. Connect to NXG\_x\_xx\_EU\_serial number. The password is identical to the SSID shown.
- 3. Open a web browser.
- 4. Navigate to 192.168.33.1.
- 5. Login to the panel.
- 6. Change the default password.
- 7. Log out.
- 8. Reconnect to the SSID with the new password.
- 9. Program required settings.

The access point will remain until the installer turns it off.

#### Alternatively, to manually create the WiFi Internal Access Point:

- 1. Default the panel.
- 2. Unlock the keypad and access the Programming menu.
- 3. Navigate to Advanced > Communicator > IP Configuration > IP Options.
- 4. Navigate to WiFi Internal Access Point SSID.
- 5. Program a valid SSID name.
- 6. Navigate to WiFi Internal Access Point Password.
- 7. Program a valid WiFi password.
- 8. Navigate to Enable WiFi Internal Access Point.
- 9. Toggle the option on.
- 10. Exit menu.

## 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).

Note: The system needs to be provisioned in UltraSync.

- 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. Select Connection method: UltraSync.
- 6. Click Save.
- 7. Click Connect via TCP/IP.
- 8. 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://



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:



#### 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 an NXG-1820 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	i ciodu
Cameras	Connection Status
History	LAN Status
	Connected
Users	UltraSync Status
0.111	Connected
Settings	UltraSync Media
Advanced	LAN
	Radio Details
	Cell State
	Connected
	Cell Service
	II III III III III III III III III III

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.

/Disam es heras connection Status LAN Status Connected UltraSync Status ings ultraSync Media LAN Radio Details Cell State Connected	gout	
es  heras Connection Status LAN Status Connected UltraSync Status Connected UltraSync Media anced Radio Details Cell State Connected	n/Disarm	Balaad
neras Connection Status LAN Status LAN Status Connected UltraSync Status Ings UltraSync Modia LAN Radio Details Cell State Connected	ies	Reload
bry LAN Status Connected UltraSync Status Connected UltraSync Modia LAN Radio Details Cell State Connected	ieras	Connection Status
rs UltraSync Status ings UltraSync Media anced LAN Radio Details Cell State Connected	ory	LAN Status
nced UltraSync Status Connected UltraSync Media LAN Radio Details Cell State Connected		Connected
gs UltraSync Media LAN Radio Details Cell State Connected		
Cell State	gs	UltraSync Modia
Radio Details Cell State Connected	iced	LAN
Cell State Connected		Radio Details
Connected		Cell State
		Connected

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 -105 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 52.



## 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<sup>™</sup> or Google Play<sup>™</sup> 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. Touch the screen then Back to return to the Camera screen.

- Touch the Play button under each camera to show the history log with all latest recorded clips from that camera. Press the event to watch the recorded clip. Touch the Share button to save or forward the clip.
- Touch the Record button to request that camera to record a short clip which can be retrieved afterwards.



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	X	History
	SILES	Turn Off Away (168)
	DEVICES	liser 1
	Overview	11:13:14 AM
Arm Away Arm Stay Disarmed	Lights	4 Nov 2016
Ready to Arm	Thermostat	
	Camera	
Home is Disarmed	Locks	Video Event (167)
	Sensors	Record Video
Everything is OK		11:13:13 AM
	USERS	4 Nov 2016
	HISTORY	
Automations	SETTINGS	
		Alarm (166)
		Front Door
		Home
Door Do		11:13:03 AM
		4 Nov 2016
🕋 🦞 📕 🗆 🖓 👘 🚺		Showing 40 event(s)

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	r 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.

CITEC			
	Con	ifiguration Ser	ver
DEVICES			
Overview	Back	k Up Dov.	m Save
Lights			
Thermostat	All	On All Off	Shortcut
Camera			
Locks	Select I	Menu:	
		Users	
Sensors		System	
		Areas	
USERS		Channels	
		Communicato	r
HISTORY		Schedules	
		Actions	
SETTINGS		Arm-Disarm	
		Devices	
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.
- 2. Scroll through the menus using the up and down buttons. Refer to "Appendix 4: Advanced Menu Tree" on page 156.
- 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	
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			Network	Save							
Zones											
Cameras	11		LAN co	onfigur	ation						
History		IP Host Name									
Users		Enable DHCP									
~ #		IP Address 192 168 1									
Settings		Gateway	1	1							
Advanced		Subnet	10	255	255	255	0				
	- 1	Primary Div	DNR	192	168	1	1				
		Web Acces	s Passe	ode	5 PIN	5					
			0000000	)							
		Download	Access C	ode							
		Automation	User Na	me							
		Automatior	PIN								
	. L		0000000	,							
			0	ptions							
		Enable Pin	g								
		Enable Ultr Monitor LA	async N								
		Always Allo	w DLX90	0			$\square$				
		Enable We	b Progra	m			$\checkmark$				

## Learning Wireless Zones

1. Log in to the Web Server.

Enter your username:	
installer	
Enter your password:	
••••	

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:

Locout	Settings Selector	
Luguut	Zones 💙	
Arm/Disarm	Up Down	Save
Zones		
Cameras	Zone Add/Remove Func	tions
History	Learn Remove	Cancel
Users		
Settings	Select Zone to Configure:	
Advanced	Zone Name	1 Zone 💌
	Tana 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.

#### No Keypad Display **Momentary Switch** Keypad Sounder **Default Number** Siren Attribute **Zone Attribute Default Name Report Delay Zone Inhibit** Armed Y Y 1 Day Zone Instant Yelping Υ Ν Ν Ν 2 Y Y Ν 24 Hour Audible Instant Yelping Υ Ν Ν Υ 3 Entry Exit Delay 1 Entry 1 Yelping Y Υ Ν Ν Ν 4 Y Y Y Entry Exit Delay 2 Entry 2 Yelping Ν Ν Ν Y Y 5 Follower Handover Yelping Υ Ν Ν Ν Y 6 Υ Y Instant Instant Yelping Ν Ν Ν Y 7 24 Hour Silent Silent Instant Ν Υ Ν Ν Ν Fire Alarm Fire Fire Y Ν 8 Ν Ν Ν Ν 9 Y Υ Entry Exit Delay 1 Auto-Bypass Entry 1 Yelping Y Ν Ν Y Υ 10 Entry Exit Delay 2 Auto-Bypass Entry 2 Yelping Y Y Ν Ν Y Y Y Y 11 **Instant Auto-Bypass** Yelping Ν Ν Y Instant Ν 12 Event Only Event Only Silent Ν Ν Υ Ν Ν 13 Momentary Key Switch Keyswitch Silent Ν Ν Ν Υ Ν Ν 14 Latching Key Switch Keyswitch Silent Ν Ν Ν Ν Ν Ν 15 CO Detector Instant Four Pulse Υ Ν Ν Ν Ν Ν Ν Ν 16 **Exit Terminate Exit Terminate** Silent Ν Ν Ν Ν 17 Holdup Holdup Delay Silent Ν Ν Ν Ν Ν Ν 18 24 Hour Local Sounder Silent Y Ν Ν Ν Instant Ν Ν 19 Fire Υ Fire Reporting Only Silent Ν Ν Ν Ν Ν Disarmed 1 Day Zone Local Silent Υ Ν Ν Ν Ν Ν 2 24 Hour Audible Y Υ Instant Yelping Υ Ν Ν Ν 3 Entry Exit Delay 1 Event Only Silent Ν Ν Ν Ν Ν Ν 4 Entry Exit Delay 2 Event Only Silent Ν Ν Ν Ν Ν Ν 5 Follower Event Only Silent Ν Ν Ν Ν Ν Ν 6 Instant Event Only Silent Ν Ν Ν Ν Ν Ν 7 24 Hour Silent Υ Instant Silent Ν Υ Ν Ν Ν 8 Fire Alarm Fire Fire Y Ν Ν Ν Ν Ν 9 Entry Exit Delay 1 Auto-Bypass Silent Ν Ν Ν Ν Event Only Ν Ν 10 Entry Exit Delay 2 Auto-Bypass Silent Ν Ν Ν Ν Ν Ν Event Only

Event Only

Silent

#### **Zone Types Table**

Instant Auto-Bypass

11

Ν

Ν

Ν

Ν

Ν

Ν

Swinger Shutdown

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	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	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
19	Fire Reporting Only	Fire	Silent	Ν	Ν	Y	Ν	Ν	Ν

## Zone Options Table

		Zo	Zone Options														rting	9		Zon Con Opti	e tact 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 Partition	Final Set Door	Single EOL	Delayed in Stay	Fire Reporting Only	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									Y	Y	Y	Y	Y			151:GA
11	High Temp					Y									Y	Y	Y	Y	Y			158:KA

		Zo	one	Ор	tion	IS									Zo Re	one epoi	rtinç	9		Zon Con Opti	e tact ons	
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 Partition	Final Set Door	Single EOL	Delayed in Stay	Fire Reporting Only	Alarms	Alarm Restores	Bypass-Unbypass	Zone Lost-Low Battery	Zone Trouble and Restore	Normally Open	Fast Loop	Zone Report Event
12	Water Leakage					Y									Y	Y	Y	Y	Y			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	Bypass Stay	Y	Y	Y		Y																132:BA
20	Request-to-Exit					Y									Y	Y	Y	Y	Y			130:BA
21	Fire Reporting Only											Y		Y	Y	Y	Y	Y	Y			110: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		Y	Y		Y									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	Y			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 256 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.



- 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	تد (l) 🖈 🕅	
History	Away Stay Off Chime	
Users		
Settings		

4. Click Users.

Logout	configure osers			
Arm/Disarm	Add	Edit	Delete	Save
Zones				
Cameras	Select User		Sort By Na	me
History	User 1 (1) User Number			*
Jsers		1		
	First Name	-		

- 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.

#### Advanced user settings

In case more advanced user operation is required, following options can be enabled or changed:

• Partition Group: Select to which partition or group of partitions, the user needs access to. By default each user has access to all partitions.

- Door Group: Select which door or group of doors, the user has access to. By default each user has access to all doors.
- Display Partition List: Applies to arm and disarming operations from the keypad. When enabled, entering a PIN to arm or disarm on the keypad will list all available partitions on which the user can then individually arm or disarm. When disabled, the system will always arm or disarm all partitions.
- Partition Type Override: Applies to non-standard partition types Time Disarm, Man Down, Guard Tour. When set, disables the feature for the user.
- Disable Zone Bypass: User cannot bypass zones
- Disable Arm Disarm Reports: Arm or disarm events from the user will not be reported
- Disable App Scene Buttons: When enabled, all scene buttons on the home screen of the UltraSync+ app will be hidden for the user.
- Start Date: The first date when this user can interact with the system. Future start dates can also be set here. The user will only be able to interact with the system between the start date and end date.
- End Date: The last date when this user can interact with the system. Future end dates can also be set here. The user will only be able to interact with the system between the start date and end date.

## **Adding Cards to Users**

The xGenConnect system supports dedicated Mifare user cards and tags, which can be added to users.

The card or tag can be presented to the Mifare reader available on the keypad models NXG-1832 / NXG-1833-EUR and may trigger the functions as configured in the keypad options. See *NXG-183x-EUR Series Keypad User Manual* for details.

The card or tag can be used to arm and disarm the system, enter the keypad menu, execute system logic (Action or Scene), unlock doors, or any combination of these.

Every user may have only one card assigned. A single card cannot be assigned to multiple users.

The card can be added to existing users only. Create users before adding cards, if necessary. See "Adding a User" on page 57 for details.

#### To make the card usable in the system:

- Assign a card to the user. This operation can be done by entering the card ID.
- Secure the card. This assigns a system-specific security key to the card. The card must be presented to the reader to perform this operation.

It is recommended to perform the initial card configuration using the NXG-1832 / NXG-1833-EUR keypad. Adding and securing a card or tag will be done at the same when going to Add/Edit User Card in the user menu.

The keypad menu also allows you to add cards to users sequentially, which simplifies the configuration process. See *NXG-183x-EUR Series Keypad User Manual* for more details.

Alternatively, use the panel web page to configure cards.

1. Log in to the Web Server.

Sign In:	
Enter Your Name:	

- 2. Enter your username and password. A master code is required to add cards. By default the user name is "User 1" (with a space between "User" and "1"), and the password is "1234". Next, click Sign In.
- 3. The Arm/Disarm screen will appear:

Logout	Area 1
Arm/Disarm	Ready
Zones	
Cameras	
History	Away Stay Off Chime
Users	
Settings	

4. Click User Cards.

1 and 1	Configure User Cards
Logout	
Arm/Disarm	Delete Save Secure
Zones	
Cameras	Select User Sort by Name
Rooms	User 2 (2)
100113	User Number
Doors	2
History	
Lleore	Card Enabled:
03613	
User Cards	
Settings	

- 5. Select a user to assign the card.
- 6. Type the card number (eight digits) as printed on the card. The card number cannot be reused for more than one user.
- 7. Check the Card Enabled parameter.
- 8. Press Save button.
The card is now configured for the user. If the card has already been used for the other user, the relevant error message appears.

If the card had been secured before (for example, using the keypad menu), the card is ready to use.

Otherwise, if the card is new, or the system card security key has been changed in the panel, perform the following steps to secure the card:

1. Press the Secure button. The button is automatically enabled after successful saving of card data.

Note: Card Enable parameter must be checked.

Card securing process will start and an additional button will appear to allow cancelling the process of securing the card or tag if needed.

Logout	Configure User Cards
Arm/Disarm	Delete Save Secure
Zones	
Cameras	Select User Sort by Name
Rooms	User 2 (2)
Doors	2
History	10201234
Users	Card Enabled:
User Cards	Card Securing
Settings	Cancel Securing

2. Present the card or tag to any NXG-1832 / NXG-1833-EUR keypad in the system. The keypad must display the main screen (screen saver is not active).

Keep the card or tag close to the keypad for a few seconds until the relevant message appears both on the keypad screen ("Card Secured, number") and on the web page ("Securing Successful"). The keypad also generates a two-tone sound to confirm the card is successfully secured.

The card is ready for use.

**Note:** You can also assign cards to users using the NXG-1832 / NXG-1833-EUR keypad menus which may be more convenient as the card has to be presented to keypad reader anyway. Adding a card or tag to an existing user via the keypad menu will automatically secure the card, if not already the case. The keypad User Card menu also allows you to sequentially add and secure multiple cards to users. See *NXG-183x-EUR Series Keypad User Manual* for details.

# 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.

octango						
Keyfo	bs	~				
Up	Up Down					
Zone A	dd/Remove Fu	unctions				
Learn Remove Cance						
Select Keyfob	to Configure:					
Select Keyfob User	to Configure:	65 KeyFob 🗸				
Select Keyfob User Use FOB N	to Configure: umber as Stand	65 KeyFob 🗸				
Select Keyfob User Use FOB N Police	to Configure: umber as Stand	65 KeyFob 🗸				
Select Keyfob User Use FOB N Police No Siren on Po	to Configure: umber as Stand olice	65 KeyFob >				
Select Keyfob User Use FOB N Police No Siren on Pr Auxiliary	to Configure: umber as Stand olice	65 KeyFob > ard User > 				
Select Keyfob User Use FOB N Police No Siren on Po Auxiliary Scene	to Configure: umber as Stand olice	65 KeyFob > ard User > disabled >				

- 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 Partition 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. Partition 1 only: This is the default behaviour after learning a keyfob. The User is set to "Use FOB Number as Standard User".
- 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 Partition Group. The arm and disarm buttons on the keyfob will arm/disarm all partitions in the Partition 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 Partition Groups. Each one has a set of selected partitions.

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

# **AB Alarm Confirmation**

The partition option AB alarm verification enables a set of various options in relation to alarm verification. When enabled, the first alarm is reported as a standard burglar alarm (A-alarm, or unverified alarm). A second zone has to raise an alarm within a certain period to report a confirmed alarm (B-alarm, or verified alarm), provided the first alarm in the partition did not occur in an entry/exit zone.

The AB verification time allows you to configure the maximum delay between A and B alarms, and is set to 30 minutes by default. If the second alarm happens within this time, the alarm is reported as a verified alarm (B-alarm). When the AB time has expired, any next alarm is another unverified alarm (A-alarm).

The System Confirm option defines if the AB alarm confirmation works in separate partitions only, or allows for system-wide validity. If this option is enabled, an A-alarm in one partition can be confirmed by a B-alarm in another partition. If disabled, the A-alarm can only be confirmed by a B-alarm in the same partition.

The EE Confirm option configures the AB alarm confirmation during entry time. If the option is enabled, alarm confirmation is suspended during entry time. All alarms during the entry time are A-alarms. When the entry time has expired, alarm confirmation is active again. However, entry/exit zones cannot generate Balarms.

If the TA Confirm option is enabled, a tamper alarm (TA) can report a B-alarm for burglary alarm (BA), and vice versa.

AB alarm verification can be enabled per partition.

# Country

Out of the box, the xGenConnect panel will contain the EMEA default configuration. Selecting another country will make the panel load different panel settings. Loading country defaults will take about 30 seconds to complete, and during this time the keypads will be offline, but will turn online again when the process is complete.

# Notes

- The country defaults contain control panel settings only.
- · Loading country defaults will not remove enrolled devices.

Performing a panel factory default will make the panel turn back to the factory settings with EMEA defaults.

# **Programming Doors**

The xGenConnect panel supports door control functionality which allows to control and monitor up to 16 doors depending on the panel model. **Note:** See "xGenConnect Specifications" on page 2 for maximum doors per system.

Basic options and timers related to door configuration are shown in the panel Settings menu. In case more advanced programming setup is required, all programming features are accessible from the panel advanced settings. Detailed description of all door-related parameters is available in *xGenConnect Reference Guide*.

## Setting Menu > Door Settings

Settings Selector
Save
Select Door to Configure: (1 Main Building Front Door V) Door Name Main Building Front Door
Select Door Type: Door Type Lock + Forced + Shunt + DLO V
Select Door Inputs: Door Zone RTE Zone 2 Front RTE
Door Timers: Door Unlock Time [3-20] Seconds 5 Door Zone Shunt [0-255] Seconds 60 Door Zone Warning [0-255] Seconds 15
Door Options: Door Forced Reporting Door Left Open Reporting Log Door Access Mag Lock Contemportant Mag Lock Contemportant Cont

- Door Name: Program up to a 32-character custom name for the selected door. This name appears in every list in the system, including keypad controlling doors.
- Door Type: Select this submenu to enable the door with the desired combination of Door Input Zone Shunting (Shunt), Forced Door Monitoring (Forced), Door Left Open (DLO) monitoring.
- Door Inputs: Choose desired system zone inputs for the door zone, and the Request-to-Exit (RTE) zone. The door zone input can be part of the alarm system and can have any appropriate zone type. The RTE zone should not be used by the alarm system except for exit requesting buttons.

**Note:** Door zone should not be configured if Door type is Lock or Disabled. All other door types require Door zone to be properly set.

Both Door zone and Request-to-Exit can be wired to the NXG-1832 / NXG-1833-EUR keypad Input, using a special triple-EOL resistor configuration (see the keypad Installation Sheet for details). In this case, the following parameters must be set properly:

- panel Door Zone parameter must be set to a particular desired zone number (for example, 1).

- panel RTE Zone parameter must be set to the next consecutive zone number (for example, 2).

- keypad parameter Zone must be set to the same value as Door Zone (for example, 1)

- keypad parameter RTE as Next Zone must be enabled

 Timers: This submenu contains all the timers associated with a door. Access this menu to adjust times if the application needs times other than the default time.

- Door Unlock Time: The number of seconds the door remains unlocked when a user presents credentials to access the door. The user can open the door during this time.

- Door Zone Shunt Time: The time the door can remain open before the zone creates an alarm.

- Door Zone Warning Time: The time remaining in the shunt timer when a door warning condition becomes active. Keypad sounders and relay outputs can then be programmed to sound a sounder to notify the user of a pending shunt expiration.

• Door Options: Use the option to select the desired behaviour of the door.

- Door Forced Reporting: When the selected Door type supports the Forced Door feature, ticking this box causes the Forced Door Alarm to be reported off premises.

- Door Left Open Reporting: When the Door Type selected supports the DLO feature, ticking this box causes the DLO Alarm to be reported off premises.

- Log Door Access: Ticking this box will cause a logging event when the door is unlocked. This event identifies the Door and the user that opened it.

- Mag Lock: Enable the option to prevent the lock from engaging until the door is closed for the Pre-Lock time. If enabled, the door will remain unlocked until it is closed.

**Note:** Door relay may be wired either to a dedicated Door Lock output on NXG-1832 / NXG-1833-EUR keypad, or to any output in the system (on the panel or on an output expander).

• The door relay wired to the NXG-1832 / NXG-1833-EUR keypad

Set the Door parameter in keypad's programming settings, to the desired door number. The dedicated keypad output would follow the Unlock state of the selected door.

• Door relay wired to a system output

Configure an Action as follows:

- Function: Follow
- Event1: Category: Doors
- Event1: Type: Door Unlocked
- Event1: Start/End Range: door numbers.
- Events2,3,4: Type: disabled

Configure the output and assign it with this Action.

# **Programming Card Security**

If the system contains keypads NXG-1832-EUR or NXG-1833-EUR, the dedicated Mifare cards can be used to authenticate and trigger user-defined operations in system.

The card security mode is configured by the two system parameters:

- System > Card Security Options > Secure Key Mode
- System > Card Security Options > Secure Key [8-40 characters]

There are two available card security modes, selectable by Secure Key Mode parameter:



- Panel-specific key. Every panel has a unique, pre-programmed card security key. Cards used in one system cannot be used in another system. *This is a default and recommended security mode, which provides the best security.* The second parameter ("Secure key" [8-40 characters]") is not used.
- Manual. Card security key can be programmed by the installer in the option Secure Key [8-40 characters]. The key must be entered as a text, 8 to 40 characters long.

This mode allows for using the same cards in two or more systems, provided that the same card encryption key is configured to all these systems.

The security key can be changed but *cannot* be read-out of the configured panel.

## Notes

- Manual mode should be used only if same cards must be used in multiple systems. Otherwise, it is recommended to keep the default settings.
- The Cards used in the system must be secured before use. Securing is a
  process of applying the selected security mode and key to the cards. The
  operation can be performed either before, or along with the attaching Cards to
  Users. Securing must be performed by Master User. See relevant chapter on
  User Card configuration.

Securing process requires the card to be presented to the card reader during the operation, so it is recommended to perform this operation using menus of NXG-183x keypad. Keypad menus allows also a sequential adding and securing multiple cards to multiple users, which simplifies the configuration process.

# **Programming Cameras**

# Adding Cameras Using the New Device Setup (preferred)

The UltraSync+ app has a built-in guide to help an installer add cameras. It is required that the UltraSync cameras are 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 using the panel installer login credentials.

4. Click Menu - New Device Setup



- 5. Follow the application on-screen prompts to do the following:
  - Connect your mobile device to the camera.
  - Set up a camera user name and password.
  - Sync the camera to the panel.
  - Change camera names and view camera status.

The camera password should meet the following requirements:

- 8 to 16 characters long
- At least one uppercase and one lowercase letters
- At least one number
- At least one special character (- , . \* & @ / \$ ? \_ space)

## Adding Cameras using the Camera 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.

#### Adding camera to the local LAN network:

- 1. Power up the camera using the 12 VDC power supply that is included with the camera.
- 2. Make sure the camera is connected to the LAN network using an Ethernet cable.
- 3. Wait at least 2 to 3 minutes for the camera to start up. When no LAN cable plugged in, the camera will say "Please connect to Wi-Fi", indicating it is ready to be configured. There will be no voice prompt when a LAN cable is plugged in.
- 4. Open TruVision Device Manager 9.2 or newer.
- 5. Device manager will show a non-activated camera.



- 6. Click the Activate Device button and select the checkbox of the camera that requires activation. Make sure "Enable DHCP" is checked unless you want to use a fixed IP address for the camera. Now Enter user name 'admin' and set a strong admin password for the camera meeting following requirements:
  - Minimum 8 characters and maximum 16 characters
  - Minimum 1 capital letter
  - Minimum 1 small letter
  - Minimum 1 number
  - Minimum 1 special character among , . \* & @ / \$ ? \_ space.

Device Activation / Change IP Address		_ D X
Device Activation / Change IP Ad	Idress	
Please provide the device credentials to change the	nelwork settings	Network Physical Address 9c-16-1a-93-01-bf New IP Address:
Requires Activation Model	DHCP IP Address Subnet Mask Gateway Status	Subnet Mask
TVUC-801-0401-8UL	-W 🔍 192.168.1.178 255.255.255.0 192.168.1.1	Gateway.
		C Enable DHCP
		UserName: admin
		Password: 💿 ••••••
		Confirm Password
		Password Complexity
		High State
		Appy
Select the check box next to each device to be edited. T	he user name and password are applied to each device selected.	Close

- 7. Click Apply to save settings and wait for Device Manager to confirm activation of the camera.
- 8. Click Close to leave the activation page.
- 9. From the Device Manager main screen, click now Device Discovery to show all cameras on the network.

Getting Started		
TRUVISION DEVICE M/	ANAGER	
$[\bigcirc]$	(((介)))	ll:+*
Activate Device	Device Discovery	Storage Calculator
		?
		Help

10. Double-click on the activated camera to open its web page.

TruVision Device Mana	ager					
			Default Browse	r (IE		
Discovered Devices						
Model	*	IP Address	Subnet Mask	Gateway	DHCP	Start Time
TVUC-B01-0401-BU	IL-W	192.168.1.178 192.168.1.12	255.255.255.0 255.255.255.0	192,168,1,1 192,168,1,1	0	2023-09-20 00.30.11 2023-09-10 17:01:00

- 11. Login with the admin credentials you defined in step 6.
- 12. Go to camera menu Configuration > System > System Settings > Time Settings and select "Sync. with computer time" to set date and time. This is needed to establish a connection to UltraSync.

Live View	Playback	Snapshot	Log	Configuration	
ocal Configuration		Decic Information	me Cettings D	auficht Souinne Time Abu	
ystem		Basic Information		rylight Savings Time Abo	but
		Time Zone	(GMT+01	00) Amsterdam, Berlin, R	lome, Paris
Maintenance		NTP			
Security		• NTP			
User Management		Server Address	time.winde	ws.com	
etwork		NTP Port	123		
ideo/Audio		Interval	1440	m	ninute(s)
nage			Test		
vent		Manual Time Syne	c.		
torage		<ul> <li>Manual Time Sync</li> </ul>			
		Device Time	2023-09-2	0T00:32:54	
		Set Time	2023-09-1	9T17:34:04 🔤	Sync. with computer time

13.Go to Configuration > Network > UltraSync and check Enable to activate UltraSync connection. Click Apply to save settings.

JltraSync IP	Camera			
Live View	Playback	Snapshot	Log	Configuration
Local Configuration System Network		UltraSync		
Basic Settings Advanced Setting Ultra Sync	gs	Connection Status	Offline	
Video/Audio Image Event Storage		Enabling the UltraSync 'UltraSync' and 'rtspVie Disabling the UltraSync accounts and disable a	feature will create f w' for remote mana : feature will remove Il remote managem	two user accounts named igement purposes. e the 'UltraSync' and 'rtspView' ient features.

After a short while a QR should appear indicating the camera is successfully connected to UltraSync. Don't scan this QR code as this is not needed for using the camera in combination with xGenConnect.

Live View	Playback	Snapshot	Log	Configuration	
Local Configuration System Network Basic Settings Advanced Setting	s	Uttra Sync Enable Connection Status Apply	Connecting		
Video/Audio Image Event Storage		Enabling the UltraSync 'UltraSync' and 'ttspVie Disabling the UltraSync accounts and disable al	feature will create tw w' for remote manag feature will remove ill remote manageme	vo user accounts named ement purposes. the "UltraSync" and 'rtspView' nt features.	IMPORTANT: The installer will need to pair this camera on UltraSync via this QR code. The camera cannot steam video over UltraSync without this pairing. This RC code is for the installer only.

14. Now close the camera web page.

Adding camera to the local Wi-Fi network:

Repeat steps 1 to 11 above.

12. Go to Configuration > Network > Advanced > Wi-Fi and Search for local Wi-Fi networks.

Select the desired local Wi-Fi network from the list of available networks. Only
 GHz networks will work. After selecting the network, check the enable checkbox, fill in the Wi-Fi network password in field Key 1, and save settings.

UltraSync IP Camera								
Live View Playbac	k Snap	shot Log	Config	guration				
Local Configuration System	SNMP	FTP Email HTTPS	QoS Wi-Fi	WLAN AP Integ	gration Protocol	Network Service	HTTP Listenin	g
Network	🗾 Enab	le The W	lan Hotspot will be	disabled after the Wi-	Fi being enabled.			
Basic Settings	Wirek	ess List						Search
	No.	SSID	Working Mode	Security Mode	Channel	Signal Strength	Speed(Mbps)	Connection Statu
UltraSync	1	Orange-d8e06	Manage	WPA2-personal		51	150	Disconnected
Video/Audio	2	Guest-Orange-d8e06	Manage	WPA2-personal		49	150	Disconnected
Image	3	devolo-384	Manage	WPA2-personal		20	150	Disconnected
Finage	4	AP_1612686624	Manage	not-encrypted		19	150	Disconnected
Event	5	devolo-384	Manage	WPA2-personal			150	Disconnected
Storage	6		Manage	WPA2-personal			150	Disconnected
	7	Proximus Public Wi-Fi	Manage	WPA2-enterprise			150	Disconnected
	8	Proximus Public Wi-Fi	Manage	WPA2-enterprise		16	150	Disconnected
	9							
	10		Manage	WPA2-personal		14	150	Disconnected
	11		Manage	WPA2-personal			150	Disconnected
	12	devolo-384	Manage	WPA2-personal			150	Disconnected
	WI-FI		4.0000					
	SSID	WIFI-2	2.4-0CB0					
	Network	Mode O Mar	nage					
	Security	Mode WPA	2-personal	~				
	Encryptic	n Type TKIP		~				
	Key 1 🔿	8 to 63 A	•• SCII characters or 8	≤ to 64				
		hexadec	imal characters					
		Save						

- 14. Upon successful connection to the Wi-Fi network the camera shows status "Connected" in the table.
- 15. Unplug the LAN cable and rescan in TruVision Device manager the network for new cameras. The camera should still show up since it is now connected via Wi-Fi. It will probably have a different Wi-Fi IP address than the previous LAN IP address we used.

Linking camera to the panel:

- 1. From your iOS or Android device, open the UltraSync+ app.
- 2. Add the panel details with the installer account / PIN.
- 3. Log in to the site as the installer.
- 4. Touch Menu then Settings.

5. Select Cameras under the Settings Selector.



- 6. 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.
- 7. Enter a Camera Name.
- 8. Optionally, enable notifications, trigger video clips in case of motion detection of doorbell button press.
- 9. Click Save.

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

- 10. Close and relaunch the app.
- 11. 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.
- 4. Touch the Play button under each camera to show the history log with all latest recorded clips from that camera. Press the event to watch the recorded clip.

≡ <sub>History</sub> <b>♀</b>	
Video Event** TVUC DOME 09:48:42 AM 15 Sep 2023	
Video Event** TVUC DOME 07:43:56 PM 14 Sep 2023	P. D. SOOT P. Hander
Video Event** TVUC DOME 06:43:15 PM 14 Sep 2023	The love
Video Event** TVUC DOME 06:17:45 PM 14 Sep 2023	
Matched 20 from 20 event(s)	< <u>II</u> 🖻

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.

Cameras Cameras	SITES	
IP Camera 1	DEVICES	Settinge Science
	Overview	
	Liehts	Save
	Thermostate	
	Comment	
	Cameras	Select Scene to Configure:
	Locks	5 Record Video
	Sensors	Scene Name
		Record Video
	USERS	
	CHANGE PIN	Scene Trigger
Clips		Activate Schedule
	HICTORY	Always On
		Activate Event Type
	SETTINGS	Area Not Ready
		Activate Area
	ADVANCED	1 Home
	NEW DEVICE SETUP	Seens Action 1
	AMAZON® ALEXA	Action Device
		Alarm Suctam
		Adami System

- 1. Log in to the UltraSync+ app.
- 2. Touch Menu 🗏 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/Partition/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.



**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.

## **Camera configuration**



A number of optional camera settings can be configured from the application. Tap the camera icon on the bottom of the screen. Tap on the Configuration icon for the camera that needs to be configured. • Enable Audio enables the camera 2-way audio. This feature allows you to listen in, talk from the mobile device through the camera speaker, as well as have recorded audio with the clips being stored on the SD card.

< Done	Cancel
Name IP Camera 1	
Check local privacy laws before ena	bling audio.
Enable Audio	$\bigcirc$
Motion and Event Setup	>
Audio-Video Settings	>
Camera Maintenance	>

 Audio-Video settings allow you to change basic settings from the camera, such as pre-post recording time, image brightness and contrast, and microphone volume, enable or disable date and time, IR light, and LED indicator.

≡ Audio-Video Setting	js
C Done (	Cancel
Night Mode Auto	
Pre Clip Timing (Secs) 5	
Post Clip Timing (Secs) 5	
HD Resolution 2560*1440	
HD Frames Per Second 15	
HD Recorded Clips	
Brightness 50	-
Contrast 50	-
Mic Volume 75	
Show Date and Time	
IR Light	$\bigcirc$
LED Indicator On	~

• Motion and Event setup allows you to enable the built-in camera motion detection feature. Select if a video clip should be recorded, and should push

notification be received. Define the detection area and modify the motion sensitivity as required.



 From the Camera Maintenance menu the camera can be rebooted or reset to factory settings. Also, the SD card can be formatted.



#### Notes

- Video and log files are stored on the microSD card inside the UltraSync camera and can only be accessed using the UltraSync+ app when validated with the panel.
- For security reasons, the microSD card will be encrypted when the camera has been successfully added through the App setup wizard. Stored video files cannot be retrieved from the microSD card in case it would be removed from the camera.

## **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 requires 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**

Note: The system needs to be provisioned in UltraSync.

- 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	
Zones	op Down Save
Cameras	Select Channel to Configure.
History	Channel Name
Users	Email 1
Settings	Account Number
Advanced	0 Format
	Email
	Language
	Next Channel

- 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 Osborne-Hoffman Reporting. This is done by entering specially formatted text in Channel > Destination.

# Setting Up OH Reporting

Note: The system needs to be provisioned in UltraSync.

Go to https://webportal.ultra-sync.com/ and log in with your dealer account.

Site type			
Panel	~		
Central Station			
Self Monitoring	~		
End User Name			
hdb			
Address			
Country			
Belgium	*		
Flemish Region	~		
City			
ZIP			
Phone			
Mobile			
SID	1		
236081978839			
Timezone			
Europe/Brussels	~		
Service Grade			
Core Intrusion	~		
ld-on services (additional charg	jes may apply)		
(This feature is subject to additional feet supported only by xGenConnect, Zero	es, please contact your sales n Whe, NXSOGE and xGen.)	presentative for further details. It's currently	
OH Reporting (OHR)			
Reset Features			

- 1. Select Site Type: Panel.
- 2. Select Central Station: Self Monitoring.

- 3. Select Service Grade: Core Intrusion (for Dual or Cellular only) or Core Intrusion IP (for LAN only).
- 4. From the Add-on services section, enable OH Reporting.
- 5. Click on Create when complete.

In addition, change the panel configuration in the Channels menu:

- 1. Click Settings > Channels to view Channel 1.
- 2. Select one the OH options in the channels report format field. Between CID and SIA; and between Cellular, IP, and Dual path.
- 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.

Note: The system needs to be provisioned in UltraSync.

- Fully configured smartphone with internet access and Apple / Google account details. This must be signed into 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.



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  $\blacksquare$  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.

Logout	Settings Selector
.rm/Disarm	Up Down Save
ensors	
meras	Select Channel to Configure:
ms	4 smartphone_u1  Channel Name 1 Central Station Primary
ry	2 Central Station Backup 1 3 Central Station Backup 2
je PIN	4 smartphone_u1 Account Numbe 5 cmail 2 6 Email 3
ings	7 Email 4 Format 8 Email 5
nced	Destination 10 Email 6 10 Email 7 11 Email 8
	12 Email 9 Language 13 Email 10 14 Email 11
	Next Channel 15 Email 12 16 Email 13
	Event List
	Attempts
	3

5. Delete the content of the Destination field.

Logout	Channels 💌
Arm/Disarm	Lin Down Save
Sensors	
Cameras	Select Channel to Configure:
Rooms	4 smartphone_u1  Channel Name
History	smartphone_u1
Change PIN	Account Number
Settings	0 Format
Advanced	Email
	smartphone@u1
	Language
	Next Channel disabled
	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.



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.

# **Programming Scenes**

xGenConnect can perform automation features such as turning on a device 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.
- 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, "Partition Not Ready" and "Partition 1".
- 8. Under Scene Action 1, select Alarm System 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 behaviour is desired.

8	ettings Selector
	Scenes
	Save
Se	ect Scene to Configure:
	5 Record Video
Sc	ane Name
	Record Video
_	
	Scene Trigger
Ac	tivate Schedule
	Always On
Ac	tivate Event Type
	Area Not Ready
A	livate Area
AC	
AC	1 Home
AC	1 Home
AC	Scene Action 1
Ac	Scene Action 1
Ac	Scene Action 1 ion Device
Ac Ac	Scene Action 1 ion 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.

#### **User Reporting**

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

# **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

System1					×
d Read Clock Option	ns Display				
T I					
ystem Clock System and Sin	en Options Timers	Service and Automation			
Sustan				-2	
System     Second Zone Deubling	E.	Sustan Nam Latah			
Panel Box Tamper	, i* [*	Zone Inactivity			
System Zone Tamper	in the second se	Allow Aming With System Fault			
Enable Celsius Scale		Reserved			
Enable Jam Detection	Γ	Engineer Tamper Reset			
Disable Hardwired Zones		NetworX 6 Digit PIN			
Two Wire Smoke	<b>V</b>	Enable NX Screensaver			
Strobe on Away & Off		Reserved			
Siren					
Siren Once per Zone Siren Box Tamper Report		Z-Wave Siren Chirps Entry and Ex Reserved	cit		
Siren At System Away/Di	sam 🔽	Reserved			
Siren At End of Exit	Г	Reserved			
Siren At Arm Report		Reserved			
Walk Test Siren Chirp		Reserved			
I Reserved	1	Reserved			
Voltage Siren Output	1	Reserved			
Menu Language	EOL resistor value				
English (U.K.)	Normal	Standard		]	
Voice Language	Zone Doubling	Standard	-	]	
None					
Country	Secure Key Mode	Panel-specific key	-	]	

5. Select the settings you want to enable

#### 6. Go to Timers

nd <u>R</u> ead <u>C</u> lock <u>O</u> ptions <u>D</u> ispl	ay		
直 西			
ystem Clock System and Siren Options	Timers S	ervice and Automation	
Siren Time [0-99] Minutes	4	Walk Test Time [0-99] Minutes	15
Strobe Time [0-99] Hours	1	Battery Missing Time [0-65] Seconds	10
Battery Test Time [0-99] Minutes	2	AC Fail Report Delay [0-999] Secs	30
Reserved	0	Reserved	0
Cross Zone Time [30-999] Secs	300	Report Delay [0-99] Secs	30
Holdup Delay [0-999] Secs	0	Fire Verify Delay [0,120-255] Secs	0
Reserved	0	Zone Inactivity Time [0-65535]	0
Reserved	0	Fire Supervise Time [120-65535] Secs	14400
Burg Supervise Time [120-65535] Sec	7200	Short Supervision Time [20-120] Minutes	20
Swinger Shutdown [0-10]	5	Program Mode Time [0,15-255] Minutes	0

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

🔀 System - 1	-		×
Send Read Clock Options Display			
î d			
System Clock   System and Siren Options   Timers Service and	d Automation	n	
Diagnostic email interval(Days)	٥		
Diagnostic email time 12:00:00	AM	•	
Service Phone Number [0-9]			
Automation Menu			
Automation User Name			
Automation User PIN 00000000			

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 Voice Language English Voice Language
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
System Options Panel Zone Doubling Panel Box Tamper
System Zone Tamper  Disable Hardwired Zones Zone Inactivity System Reporting

# **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, Partition Groups, Door Groups, Menus, and Action Groups. Alternatively you can use the preset groups.

### **Programming Sequence**



### Instructions

1. Open Permissions

d <u>R</u> ead Option	is <u>D</u> isplay			
Ů Ů	<u> </u>	$ \langle \langle \rangle$	1 of 6	4 > >
oups Options/Time	ers			
Permission	125 All Partitions		<b>_</b>	
Name				
Menu Groups	Menu 1		<b>~</b>	
Arm	125 All Partitions		•	
Disam	125 All Partitions		-	
Reset Only	125 All Partitions		-	
Timed disarm	125 All Partitions		•	
Man down	125 All Partitions		•	
Guard tour	125 All Partitions		•	
Partition Display	125 All Partitions		•	
Report Channel	Channel Group 1		•	
Stay Arm Partition	125 All Partitions		•	
Action	Disabled		•	
Door	17 All Doors		•	

- 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 Partitions that are selected inside the Partition Group and no others.

5. Click the Options/Timers tab

🔀 Permissions - 1	– 🗆 X
Send Read Options Display	
Qû U D	$\left \left<\left< \begin{array}{c} 1 \end{array}  ight $ of 128 $\left> \end{array} \right>$
Groups Options/Timers	
Permission 1	
Options	
Reserved	Display Name Greeting
Remote Access	I Display Zone Status On Arming
Beset System Alams	V Disam Action Trigger
Auto Unbypass	Am Action Trigger
Disam Area In Alarm	Report Am-Disam
Reserved	Report Am-Disam Exceptions
Reserved	Reserved
	Log PIN Use
- Timers	
Disarm Time [0-999] Minutes	0
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. U	ser	
a) Setup	$\rightarrow$	a) Groups	$\rightarrow$	a	) Main	$\rightarrow$
b) Security		b) Options/Timers		b	) Advanced	
c) History…		13. Menus			11. Permissions	
d) Communications		12. Partition Gro	ups		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					_		$\times$
end Read Options Display							
li d d	< <	1	of 64	$\geq$	$\geq$		
Menu Selections							
Menu 1	Name						_
,	_	Che	eck all		Unched	ck all	
✓ Reserved		ercom					
Reserved	🔽 Si	noke Rese	et				
History	V U	ers					
	✓ Te	sting					
I∕ Reserved	R	porting					
I∕ Lights	S S	enes					
IV HVAC	I <u></u> R	eserved					
Keserved	l <b>∨</b> d	ock					
Holidavs		wood Sett	ina				
		served	ling				
Entry Exit	R R	served					
Reserved	V S	atus					
ZWave	R B	served					
Reserved	L V	vanced					
Reserved							
1. Labela							

- 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

ĊĹ.	4	Ĵ		< <		1 of 4	> $>$		
lolidays									
Holiday	1	•	Name		ſ				
Datas									
Dates	Start date		End date			Start o	late	End	date
1.	1/01/2016	•	1/01/2016	•	9.	1/01/2016	-	1/01/201	6 💌
2.	1/01/2016	•	1/01/2016	•	10	1/01/2016	•	1/01/201	6 💌
3.	1/01/2016	•	1/01/2016	•	11	1/01/2016	•	1/01/201	6 💌
4.	1/01/2016	•	1/01/2016	•	12	1/01/2016	•	1/01/201	6 💌
5.	1/01/2016	•	1/01/2016	•	13	1/01/2016	•	1/01/201	6 💌
6.	1/01/2016	•	1/01/2016	•	14	1/01/2016	•	1/01/201	6 🔻
7.	1/01/2016	•	1/01/2016	•	15	1/01/2016	•	1/01/201	6 💌
8.	1/01/2016	-	1/01/2016	-	16	1/01/2016	-	1/01/201	6 👻

- 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 Partitions 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.

🗶 Holida	ay - 1						_	
Send Rea	d Options Dis	splay		_	_			
QÛ	<b>I</b>	Ĵ	<<	1	of 4 🔶	$\geq$		
Holidays								
Holiday	1	▼ Name	e					
Dates -	Start date	End date	,		Start date		End da	te
1.	1/01/2016	▼ 1/01/2016	•	9.	1/01/2016	•	1/01/2016	<b>•</b>
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	•
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	•
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	•
						_		

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

🔀 Schedules ·	· 1						_		×
Send Read O	Options Display								
QŮĿ	J		$ \langle \langle  $	1	of 96 $>$ $>$				
Schedules									
Schedule	1 💌		Schedule name		Office Schedule 1				
			Follow Action Num	ber	Disabled			•	-
Time and Da	ys		1-4		<b>•</b>				
	1		2		3		4		_
Start time	8:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AN	1 ÷	[
End time	8:00:00 PM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AN	1 ÷	
	All Days		All Days		All Days		All Days		
	All Weekdays	$\checkmark$	All Weekdays		All Weekdays		All Weekday	s 🗆	
	All Weekends		All Weekends		All Weekends		All Weekend	ls 🗆	
	Monday		Monday		Monday		Monday		
	Tuesday		Tuesday		Tuesday		Tuesday		1
	Wednesday		Wednesday		Wednesday		Wednesday		1
	Thursday		Thursday		Thursday		Thursday		1
	Friday		Friday		Friday		Friday		1
	Saturday		Saturday		Saturday		Saturday	Г	1
	Sunday		Sunday		Sunday		Sunday	Г	1
	Holidays 1	$\checkmark$	Holidays 1		Holidays 1		Holidays 1		
	Holidays 2		Holidays 2		Holidays 2	Γ	Holidays 2		
	Holidays 3		Holidays 3		Holidays 3		Holidays 3		1
	Holidays 4		Holidays 4		Holidays 4		Holidays 4		1

Then assign that schedule to the User:

X Users - 1 Send Read Options Display	_		×
	11	of 12	> >
Main Advanced			1
Profile       Disabled         1       Schedule       Office Schedule 1         Start date and time       Ind date and time       Ind date and time         1/01/2000       Ind date and time       Ind date and time         1/2:00:00 AM       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time         Image: Start date and time       Ind date and time       Ind date and time			

# **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	/				
	〕 💮	<<[	1	of 3 $>$	$\geq$
Main Advanced List					
User Number 1 Name User 1					
PIN 1234	Туре	Master		<b>-</b>	
	Language	English (U.K.)		~	
Partition Group All Partition	IS			•	
Door Group All Doors				•	
Card number 0		Card Enable	d		

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. If the user type is not Custom, select the desired Partition Group and Door Group.
- Card number and Card Enabled parameters may be set. Note: DLX900 does not allow securing cards or fobs remotely. It is recommended to use the NXG-1832 / NXG-1833-EUR keypad or panel web browser to assign cards to users.
- 8. Click the Advanced tab.

d Read Options Dis	splay					
. Ó 🖞 🗳	0 D	<<	1	of 3	>>	>
ain Advanced List						
Start date and time	End dat	e and time	_			
Start date and time	End dat	e and time	-			
- Start date and time	End dat 7/02 06:00	e and time 2/2106 _	-			
Start date and time	End dat 7/02 06:00	e and time 2/2106 •	•			
Start date and time	End dat 7/02 06:00	e and time 2/2106 AM –	- 			
- Start date and time 1/01/2017 12:00 AM - Options Display Area List Area Type Ovenide	End dat 7/02 06:00	e and time 2/2106 _ AM _ Ie App Scene B	■ ■ Buttons			
- Start date and time //01/2017 12:00 AM - Options - Display Area List - Area Type Ovenide - Disable Zone Bypass	End dat 7/02 06:00	e and time 2/2106 AM – Ie App Scene B	• • • Buttons			

- 9. 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.
- 10. You can program up to 4 levels of access for each user. Permission 1 is applied when Schedule 1 is true. **Note:** Available for Custom user type only.

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

Arm/Disarm	
Zones	
Cameras	
History	
Users	
Settings	
Advanced	

Configure U	sers
Add Edit	Delete Save
Select User [	Sort By Name
User 1 (1)	~
User Number	
First Name	1
Loot Norro	User 1
Last Name	
PIN	1234
Language	1237
English User Type	Custom 💌
2000-01-01	Midniaht 🔽
End:	
2106-02-07	6:00 AM 💌
Profile 1:	- 0
All Partitions	sun 🞽
Profile 2:	
Alway	s On 🔽
disabled	*
Profile 3:	
disabled	
Profile 4:	
Alway	s On 🔽
disabled	*

# **Programming Instructions for Zones**

Goal

Program zones and add them to Partitions.

### **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**

7. S	chedules	÷	15 - -	. Zone Types Partition Armed Partition disarmed	÷	16. 2	Zone options	÷
	14. Holidays							
3. Zo a b	ones ) Profile 1 ) Profile 2	→	4.	Partitions a) Partition Options b) Partition Timers c) Partition Reporting	÷	12. 1	Partition Groups	
	<ol> <li>Zone Type</li> <li>Zone Option</li> <li>Partition</li> <li>Group</li> <li>Schedule</li> <li>User</li> </ol>	15		7. Schedule 18. Channel Groups				

### Instructions

1. Go to Zones.

. 빈, 별	<u>j</u>	$ \langle \langle \rangle $	1 of 4	в >	$\geq$	
rst Zone Profile Se	cond Zone Profile Sho	ock Sensor/EOL   Fir	st Zone Profile	List		
Zone	1 •					
Zone Name						
Zone type	3 Entry Exit Delay 1		•			
Zone Options	1 Bypass		-			
Partition Group	1 Partition1		-			
			-	8		
Schedule	Always On		10000			

入亡也	<u> </u>	$ \langle \langle  $	1 of 4	в >	$\geq$	
First Zone Profile Sec	and Zone Profile Shoc	k Sensor/EOL Fin	st Zone Profile	List		
Zone	1					
Zone Name						
⊢ Shock Sensor Optio	ns				1	
Gross Attack Court	10.91	Pulse Court (0.22)				
GIUSS ALLACK COUNT	10-31	ruise courit [0-32]	i la	)		
					di l	
- EOL resistor value -					T.	

- 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 option preset.
- 6. Select a Partition group for the zone. If you want a zone to be in its own Partition, then select a Partition group with only one Partition. To create a zone in a common Partition, select a Partition group with multiple Partitions. 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.

logout	Settings Selector
Logour	Zones 🗸
vrm/Disarm	Sava
ones	Save
ameras	Zone Add/Remove Functions
Rooms	Learn Cancel
listory	Transmitter Type Zone
hange PIN	
ettings	Select Zone to Configure:
	Zone Name
lvanced	Zone Name
	Zone Type
	3 Entry Exit Delay 1
	Zone Options
	1 Bypass
	Partition Group
	1 Partition1
	Serial Number
	0
	Tamper
	Disable Internal Reed
	Disable Supervision
	Wired Shock Sensor Settings:
	Gross Attack Count 10-91
	0
	Pulse Count [0-32]
	0

#### Next

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

## **Programming Instructions for Custom Zones**

### Goal

Program zones with advanced customization, including setting zone behaviour 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 Disp	olay				
QŮĿ		<<	1	of 32 >	$\geq$
Zone Type Profiles					
Profile	Day Zone			•	
Name					
Area Armed					
Zone Attribute	Instant			•	
Siren Attribute	Yelping			-	
<ul> <li>✓ Code Pad Sounder</li> <li>✓ Report delay</li> <li>✓ No Code Pad Displa</li> <li>✓ Momentary Switch</li> </ul>	У	☐ Zone Inł ▼ Swinger	nibit Shutdown		
Area Disarmed					
Zone Attribute	Trouble Zone			-	
Siren Attribute	Silent			•	
Code Pad Sounder Report Delay No Code Pad Displa	у	Cone Inf	nibit Shutdown		

### 2. Go to Zone Options.

2 直 西	j	$ \langle \langle \rangle$	1	of 32 >	)	
Zone Options Profiles						
Profile	1 Bypass				•	
Name	Γ					
Zone Report Event	130:BA	•				
- Options	.000					
Bypassed Stay	Mode	Zone Inacti	vity			
Forced Arm Er	abled	Follow Any Armed Partition				
Bypass		Final Set Do	oor			
Cross Zone Tir	ne	Single EOL				
EOL		Delayed in	Stay			
Automatic Zon	e Test	Fire Reporting Only				
∏ Night Mode						
Reporting						
Alarms		🔽 Zone Lost-l	Low Batter	y .		
Aarm Restores	3	🔽 Zone Troub	le and Re	store		
Bypass-Unbyp	ass					
Contact Options						
Normally Open	í.	Fast Loop				

- 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 Optio	ns Display			
QŮĿ	j)	<	1 of 176 🔪	$\rightarrow$
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	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.

- Select a Partition Group for the zone. If you want a zone to be in its own Partition, then select a Partition Group with only one Partition. To create a zone in a common Partition, select a Partition Group with multiple Partitions. 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			-	- 0	×		
Send Read Options Display							
QŮĿ	<u>ل</u> ا	$ \langle \langle \rangle $	1	of 176	> >		
First Zone Profile	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 Partitions using Partition Groups. If necessary, program Partitions and Partition Groups, then assign a Partition Group to each zone (step 8).

## **Programming Instructions for Partitions**

### Goal

Program Partitions, Entry/Exit Times, Reporting Options, and Partition Groups.

### **Pre-conditions**

Programmed Communicator, Channels, and Channel Groups.

### **Programming Sequence**



### Instructions

1. Go to Partitions.

🔀 Areas - 1			- 0	×
Send Read Options Display				
Qûy 🗗	$ \langle \langle \rangle $	1	of 16 $ ightarrow$	$\geq$
Area Options Area Type and Timers	Area Event Reporting			
Area Number	•			
Area Name				
Am-Disam Reports	Silent exit			
Quick Away	Manual Fire			
Quick Stay Mode Disarm	Manual Panic			
Siren Chirp Away	Use Area 1 Option	s		
<ul> <li>Siren Chirp Stay</li> <li>Force Arm With Bypass</li> </ul>	Bypass Requires P	'IN lent		
Force Arm Without Bypass	🗌 Arm In instant If No	Exit		

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

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

X Partitions1					1000		×
Send Read Options Display							
Qůd đ	]]	$ \langle \langle  $	1	of 8	$\geq$	$\geq$	
Partition Options Partition Type An	id Timers	Partition Event Repor	ting				
Partition Number	1	<b>•</b>					
Entry Time 1 [0-90] Seconds	30	Exit Time 1 [0-240] Se	econds	60			
Entry Time 2 [0-360] Seconds	60	Exit Time 2 [0-240] Se	econds	60	-		
Stay Entry Time [0-45] Seconds	30	Stay Exit Time [0,10-2 Seconds	255]	0			
		Local Alarm Reminde Hours	er [0-12]	0			
_ Туре							
Partition Type	Standa	ard			-		
Partition Type Schedule	Always On				-		
Auto Arm Warning [0-99] Minutes				2			

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

X Partitions1				1 <u>998</u> 1		×
end <u>R</u> ead Option	is <u>D</u> isplay	177			XI	
	L) <sup>ji</sup>	155	1 0	18 /	2	
Partition Options   Part	ition Type And Timers	artition Event Rep	oorting			
Partition Number	1					
D-18- A	0	_				
Partition Account	lo.					
Partition Channels	Channel Group 1		•			

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

### Next

Customize Partition Groups if needed.

### Webpage

	Settings Selector
Logout	Partitions
Arm/Disarm	Savo
Zones	Save
Cameras	Select Partition to Configure:
Rooms	1 Partition ✔ Partition Name
History	
Change PIN	Partition Timers
Settings	Entry Time 1 [0-90] Seconds
ootango	Evit Time 1 [0.240] Seconds
Advanced	10
	Entry Time 2 [0-360] Seconds
	10
	Exit Time 2 [0-240] Seconds
	Stav Entry Time [0, 90] Seconds
	Stay Lifty Time [0-50] Seconds
	Stay Exit Time [0, 10-255] Seconds
	Partition Options
	Quick Arm
	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. ٠

• xGenConnect automatically handles schedules that span midnight (for example, 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 -	1						— C	) X
Send Read C	Options Display							
QŮĿ	j		$ \langle \langle  $	1	of 96 $>$ $>$			
Schedules								
Schedule	1 💌		Schedule name		Office Schedule 1			
			Follow Action Num	ber	Disabled			•
Time and Day	ys		1-4		•			
	1		2		3		4	
Start time	8:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•
End time	8:00:00 PM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•
	All Days		All Days	Г	All Days	Г	All Davs	
	All Weekdays	~	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	~	Holidays 1		Holidays 1	Γ	Holidays 1	
	Holidays 2		Holidays 2		Holidays 2	Γ	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 an 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	Ιſ
Advanced	

Up	Down	Save
Select Schedu Schedule Nam	le to Configure [ e	e: 1 Schedule 💌
T Start Time (hh: End Time (hh: Monday Tuesday Wednesday Thursday Friday Saturday Sunday Holidays 1 Holidays 2	ïme and Days mm) : nm) :	1 00 00 00 00 00 00 00 00 00 00 00 00 00
T Start Time (hh: End Time (hh: Monday Tuesday Wednesday Wednesday Thursday Friday Saturday Saturday Holidays 1 Holidays 2	ime and Days mm) : nm) :	2 00 00 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0
T Start Time (hh: End Time (hh: Monday Tuesday Wednesday Wednesday Thursday Friday Saturday Saturday Sunday Holidays 1 Holidays 2	ïme and Days mm) : nm) :	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 Wednesday Thursday Friday Saturday Sunday Holidays 1 Holidays 2	ime and Days mm) : nm) :	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**

Partitions 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 Partition 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, Partition Groups and Permissions for faster programming.
- xGenConnect will sound a warning prior to the Arm-Disarm from arming a Partition. This is set in Partitions > Partition Timers > Partition Type Delay.
- If a user with Partition Type Override option disarms a Partition with Arm-Disarm, then the Arm-Disarm will no longer function on that Partition. To reenable Arm-Disarm that Partition must be manually armed.

### **Programming Sequence**



#### Instructions

1. Create a Partition Group and select the Partitions you want to be Armed according to the schedule you will create later.



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

X	Permissions - 1			-	- 🗆	×	,
Send	d Read Optior	ns Display					
Q	t t	j I<	$[\langle \rangle]$	2	of 128	> >	
Gro	oups Options/Tim	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				
Qů b ľ			12 of 1	13 >	$\geq$
Main Advanced					
User Number Name Auto Arm User	99				
PIN 9999	Туре	Custom	•		
	Language	English (Australia	a) 🔻		

5. Go to the Advanced tab.

🔀 Users - 1			_	- 🗆	×
Send Read Options D	isplay				
Qît 🖞 🖱	J W	$ \langle \rangle $	12	of 13 $ ightarrow$	$\geq$
Main Advanced					
⊢ Profile				_	
Permission	Disabled		-		
Schedule	Always On		-		
Start date and time	- End da	te and time			
1/01/2000 -	7/0	2/2106 -			
			7		
12:00:00 AM	6:2	8:15 AM	i		

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			_	- 🗆	×
Send Read Options Dis	play				
QÛ 🖞 🖱	J W	$ \langle \langle \rangle$	12	of 13 $>$	$\geq$
Main Advanced					,
Profile				_	
Permission	Partition 1		-		
Schedule	Always On		<b>_</b>		
Start data and time	- End da	to and time			
	End da	te and time			
1/01/2000 -	7/0	2/2106 👻			
12:00:00 AM	6:28	3:15 AM	Į I		
			1		

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

X Schedules -	1 Intions Display						_	
Qİ	juons bisplay		< <	1	of 96 $>$ $>$			
Schedules								
Schedule	1 💌		Schedule name		Office Schedule 1			
- Time and Da			Follow Action Nur	ber	Disabled			-
- Time and Da	ys		1-4		•			
	1		2		3		4-	
Start time	8:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	•	12:00:00 AM	·
End 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	play					
QÛĿ	Ĵ	$ \langle \langle  $	1	of 16	>	$\geq$
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 Partitions 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 Partition 1, 2, and 3 at any time or day.

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



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

User 55 – Arm-Disarm User

Permission 99 - Full Access

Arm Partition Group 1 1, 2, 3

Disarm Partition Group 1 1, 2, 3

Schedule 1 – Full Access 7 days, 24 hours

- → See "Programming Instructions for Schedules" on page 118 to program
- → See "Programming Instructions for Users" on page 105 to program
- → See "Programming Instructions for Permissions" on page 98 to program

→ See "Programming Instructions for Schedules" on page 118 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-		×
<u>S</u> end <u>R</u> ead <u>Options D</u> isplay		
Options       IP Config       Radio       Remote Access       System Event Reporting         Options <ul> <li>First Disam Last Am</li> <li>Report Once Per Zone</li> <li>Suppress Force Am Bypass</li> <li>Video Verification</li> <li>Reserved</li> </ul> Video Verification		
Auto test Interval Daily Time 2:00:00		

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

Bend     Read     Options     Display       Options     IP Config     Radio     Remo       Host name     I       Gateway     0     0       Primary DNS     0     0	ote Access   System	n Event Reporting   IP address Subnet mask	0 0	0	0
Options IP Config Radio Remo Host name Gateway 0 . 0 Primary DNS 0 . 0	ote Access   System	n Event Reporting   IP address Subnet mask	0.0	0.	0
Options IP Config Radio Remo Host name Gateway 0 . 0 Primary DNS 0 . 0	ote Access   System	n Event Reporting   IP address Subnet mask	0.0	0.	0
Host name Gateway O O O Primary DNS O O O	. 0 . 0	IP address Subnet mask	0.0.	0.	0
Gateway         0         0           Primary DNS         0         0           W/E_SSID         0         0	. 0 . 0	Subnet mask	255 255		
Primary DNS 0 . 0	. 0 . 0			255 .	0
WIE SSID		Secondary DNS	0.0.	0.	0
WITSOD			HTTP Port	80	
WiFi Security Type None		•			
WiFi Password					
WiFi Internal Access Point SSID					
WiFi Internal Access Point Security	/ Туре	WPA2-PSK		•	
WiFi Internal Access Point Passwo	rd				
Internet Time Server	pool.ntp.org				_
- IP Options	8				_
Finable DHCP	F	Always Allow DLXS	900		
Reserved	F	Monitor LAN			
Reserved	1	✓ UltraSync			
IV Enable Ping	1	Enable Wifi Extern	al Connection		
Enable Clock Updates	1	Enable Wifi Interna	S ON LAN		
	1	Enable Status Broa	adcast		

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 D	isplay		
ĉ d			
Options IP Config Radio	Remote Access System Event Reporting		
User name			
Password			
APN			
	1		

### 7. Click Remote Access

🔀 Communicator - 1			_		$\times$
Send Read Options Di	splay				
t t					
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 download					
Lock Local Programm	ning	Reserved			
Lock Communicator F	Programming	Reserved			

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		_	×
Send Read Options Display			
С́ ч			
Options   IP Config   Radio   Remote Access	System Event Reporting		
Attempts 6			
System Channels Channel Group 1	<b>•</b>		

10. Click Extended Options.

🔀 Communicator1	=		×
<u>S</u> end <u>R</u> ead <u>O</u> ptions <u>D</u> isplay			
t d			
Options   IP Config   Radio   Remote Access   System Event Reporting Options RF Loss Reports Tamper System Confirm EE Confirm TA Confirm	Extended Options	1	
Timers AB Verification Time [0-255] Minutes 30			

- RF Loss Reports Tamper: A sensor loss of wireless supervision will report as tamper instead of trouble.

- System Confirm, EE Confirm, TA Confirm, AB Confirmation time: settings for AB alarm confirmation. See "AB Alarm Confirmation" on page 64 for details.

11. 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 105).

xGenConnect is connected to internet and has been allocated an IP address (see "Programming Instructions for Communicator" on page 127, 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.

Jeoninanicator	1-					- 1977) - 1977)		
d <u>R</u> ead Option	s <u>D</u> isplay	/						
<u>í</u> Ľ								
ptions IP Config R	ladio   Rer	note A	ccess	Syste	em Event Reporting			
Host name	1				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
WiFi SSID						HTTP Port	80	_
WiFi Security Type	None				•			
WiFi Password								
WiEi Internal Access	Doint CCID							
Min internal Access i	0111 3310							
WiFi Internal Access I	Point Secur	ity Typ	be		WPA2-PSK		-	
WiFi Internal Access I	Point Passw	vord						
Internet Time Server		pool	.ntp.org	3				
- IP Options								
Finable DHCP					Always Allow DLX	900		
Reserved					Monitor LAN			
Reserved					l✔ UltraSync			
I Enable Ping	10112				Enable Wifi Extern	al Connection		
M Enable Clock U	pdates				Disable Web Page	es on LAN		
Enable web Pro	nuram					al access Foint		

- 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 t			
Web Access Passcode	0000000		
Ethemet Server 1	eu1.ultraconnect.com:443		
Ethemet Server 2	eu1.zerowire.com:443		
Ethemet Server 3			
Ethemet Server 4			
Wireless Server 1	eu1w.ultraconnect.com:8081		
Wireless Server 2	eu1w.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 153.

## **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	- 🗆 X
nd Read Options Display	
. ú u d	$ \langle\langle 1 $ of 16 $\rangle$ $\rangle $
vent Lists	
Profile Name	
,	Check all Uncheck all
I▼ Alams	✓ Cancel Code
✓ Alarm Restores	Recent Am-Exit Error
Arm-Disarm	Tampers
<ul> <li>Bypass and UnBypass</li> </ul>	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 127).

Event Lists must be programmed (see "Programming Instructions for Event Lists" on page 133).

#### Notes

- Partition Account Number will take priority over Account Number entered here for Zone events. If no Partition 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	$\geq$	$\geq$
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
Send Read Options Display	
Qûy 🖞	$ \langle\langle$ 1 of 16 $\rangle$ $\rangle $
Communicator Channel Groups	
Group Name	
	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 Partitions 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 108), by default you should not need to modify these.
- The zone must be allocated a valid Partition Group (see "Programming Instructions for Zones" on page 108).

🔀 Zones - 1				- 0	×					
Send Read Options Display										
QŮĿ	<u>ل</u>	$ \langle \langle \rangle $	1	of 176	> $> $					
First Zone Profile S	econd Zone Profile									
Zone	<b></b>									
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 135).

#### Notes

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

#### **Programming Sequence**

3. Zones		4.	Par	titions	
	$\rightarrow$		a)	Partition Options	
			b)	Partition Timers	
			C)	Partition Reporting	
12. Partition Groups				7. Schedule	
				18. Channel Groups	

#### Instructions

1. Open the lowest Partition number for the Zone.

u Reau Options Display			2.1	
ŭ y	< <   1 of	8 >	$\geq$	
artition Options Partition Type And	Timers   Partition Event Reporting			
1				
Partition Number	•			
Partition Name				
Options '				
Arm-Disarm Reports	Silent exit			
Quick Arm	Manual Fire			
Arm In Stay If No Exit	Manual Auxiliary			
Quick Stay Mode Disarm	Manual Panic			
Siren Chirp Away	Use Partition 1 Options			
Siren Chirp Stay	Bypass Requires PIN			
Force Arm With Bypass	Manual Panic is Slient     Arra la instant K Na Fuit			
Force Arm Without Bypass	Arm in instant if No Exit			
Options				
LED Extinguish NX Keypad				
Disable EN Arm Cancel				

2. Go to Partition Reporting.

🗶 Areas - 1			-	- [		$\times$				
Send Read Option	s Display									
QŮĿ	Ū	<<	1	of 16	$\geq$	$\geq$				
Area Options Area Type and Timers Area Event Reporting										
Area Number	<b>Ⅰ</b>									
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 Partition 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 127).

Event Lists must be programmed (see "Programming Instructions for Event Lists" on page 133).

Channels and Channel Groups must be programmed (see "Programming Instructions for Channels" on page 135).

#### 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 Groups -	>
			<ol> <li>Communicator</li> <li>Event Lists</li> </ol>			
<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 Grou </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).

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

#### **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 $\rightarrow$		$\rightarrow$	
monitored			

#### Instructions

1. Open Actions.

X Actions - 1	Display			-		×
		$\langle$ 1 of 256 $\rangle$ $\rangle$				
Event Result						
Action Number	ot Ready - Chime On	•	Action Name			
Action Function Foll	DW 🔽		Minutes 0	Seconds	0	
Event Equation ( Fa	aulted )					
Event 1			Fund Dance			
Event Category	Zone Events	Event 1 Logic	Event Range	[1024		
Event Type	Faulted	▼ OR ▼	Statt			
Event 2 Event Category Event Type	OR  Cone Events Disabled	• •	Event Range Start 0	End 0		
- Event 3						
Event Category	Zone Events	•	Event Range			
Event Type	Disabled	<b>_</b>	Start 0	End 0		
- Event 4	OR 🗸 🕂					
Event Category	Zone Events	•	Event Range			
Event Type	Disabled	<b>~</b>	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 Partitions 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.

🔀 Actions1			×
<u>S</u> end <u>R</u> ead <u>O</u> pti	ons <u>D</u> isplay		
QŮĽ	$ \langle \langle 33 \text{ of 64} \rangle \rangle $		
Event Result			
Action Number	Action 33		
Result Category	Zone Results Start	0	
Result Type	Disabled  The End	0	
	User Number	0	
	Coptions		
	Log Restore		

- 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 an NXG-18xx screen.

#### **Programming Sequence**

8. Actions	÷	19. Action Groups	<b>→</b> :	<pre>11.Permissions →    a) Groups    b) Options/Timers</pre>
				<ol> <li>Menus</li> <li>Partition Groups</li> <li>Channel Groups</li> </ol>
				x. Action Groups
<ol> <li>Devices</li> <li>Outputs</li> <li>zone expanders,</li> <li>keypads, transmitters</li> </ol>	÷	<ol> <li>User         <ul> <li>a) Main</li> <li>b) Advanced</li> </ul> </li> </ol>		
<ol> <li>Permissions</li> <li>Schedules</li> </ol>		<ol> <li>Permissions</li> <li>Schedules</li> </ol>		

#### Instructions

1. Open Action Groups.

X	Action G	roup - 1						_		×
Send	Read	Options	Display							
Q	Ċ ŀ	1	Ū.	<<	1	of 64	$\geq$	$\geq$		
	Actions Actions	129-160 s 1-32	Actions 161-192 Actions 33-64		Actions Actions	193-224 65-96		Action Action	is 225-256 is 97-128	;
	Group		Name		Cł	neck all		Uncheck	c all	
F F F F F F F	Action Action Action Action Action Action Action Action	1 2 3 4 5 6 7 8		Ac     Ac	ion 9 ion 10 ion 11 ion 12 ion 13 ion 14 ion 15 ion 16					
	Any Sire Action Action Action Action Action Action Action	en 18 19 20 21 22 23 24			ion 25 ion 26 ion 27 ion 28 ion 29 ion 30 ion 31 ion 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.

#### Notes

User 99 will be reported for alarm system control events.

#### **Programming Sequence**



#### Instructions

1. Open Scenes.

Scenes - 1	Display				_	×
Q th th		1 of 1	6 > >			
Scenes		· .				
Scene	1 •		Name	Record Closing		_
Scene Trigger Type	Exit Delay 1	•	When Should Scene V	/ork Always Or	1	•
Activate Area	Area 1	•				
Scene Results		Scana Basulta	14			
	_1	-2	3		4	 
Device	(1) Alarm System 💌	Disabled	▼ Disable	d 🔻	Disabled	-
Action Type	Trigger Camera Video Cl 💌					
Action-Zn/Area/User						
Cool Set Point						
Heat Set Point						
	☐ 5 ☐ 6					
	9					
	□ 10 □ 11					
	□ 12 □ 12					
	□ 13 □ 14					
	□ 15 □ 16					
	,					

- 2. Select Event Type and the Partition.
- 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 Partition, 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**

8. Actions		7. Schedules		10.	Devices
	$\rightarrow$		$\rightarrow$	Outp	uts
				zone	expanders,
				keyp	ads, transmitters
		14. Holidays			11. Permissions
					7. Schedules

#### 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, Partitions, 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 999 to the Central Monitoring Station. SOS functions also report as user 999.

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.

#### **Partition Number. Partition Name**

- Is on in the away mode: This Partition is armed in the away mode.
- Is on in the stay mode: This Partition is armed in the stay mode.
- Is ready: This Partition is secure and ready to be armed.
- Is not ready: This Partition is NOT ready to be armed, a zone is not secure.
- All Partitions are on in the away mode: All Partitions in this multi partition system are armed in the away mode.
- All Partitions are on in the stay mode: All Partitions in this multi partition system are armed in the stay mode.
- All Partitions are ready: All Partitions in this multi partition 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 []"

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	

# **Appendix 3: NetworX Modules Compatibility**

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**

#### 1. Users

#### 2. System

- 1. System Clock
- 2. General Options
- 3. System Timers

- 7. System Counts
- 8. Language

  - 1. Language
- 1. Language
   8. Download Options
   2. Noticely

   2. Voice Language
   6. System Event
   3. Date Rar

   9. Automation Menu
   1. System Channel
   1. Zone Types
- 3. Zones

#### 4. Partitions

- 9. Automation Menu1. System Channel1. Zone Type Name2. Zone Name2. Attempts2. Zone Type Name3. First Zone Profile1. Schedules3. Zone Type Disarmed4. Zone Type2. Schedule Name3. Follow Action Number5. User Number3. Follow Action Number1. Zone Options Number4. Schedule Number3. Follow Action Number1. Zone Options Number5. User Number3. Follow Action Number3. Zone Options Number4. Schedule Number3. Follow Action Number3. Zone Options Number5. User Number3. Action Number3. Zone Options Number6. Second Zone Profile3. Function4. Zone Reporting9. Partition Number3. Function4. Duration Minutes5. Duration Seconds6. Event 17. Event 21. Event List Number7. Event 28. Event 318. Channel Groups
- .. rartition Options 5. Partition Timers 6. Partition Type Settings 7. Partition Event Reporting Channel •

#### 5 Channels

- Channel Number
   Channel Name
   Account Number
- 4. Format
- 5. Device Number
- 6. Destination
- 7. Next Channel
- 8. Event List
- 9. Attempts
- 10. Language

#### 6. Communicator

- 1. General Options
- 2. Auto Test
- IP Configuration
   IP Host Name

  - 2. IP Address
  - 3. Gateway
  - 4. Subnet
  - 5. Primary DNS
  - Filmary DNS
     Secondary DNS
     Ports

  - 8. Time Server4. Keypa9. IP Options11. Permissions
- 4. Radio Configuration 1. Permission Number
  - GPRS Username
     GPRS Password
  - 3. APN

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- 5. Remote Access
  - 1. Panel Device
  - Number
  - 2. Download Access Code

12. Partition Groups

1. Partition Group Number

2. Partition Group Name

3. Partition List

3. Menu Selections

1. Zone Type Number

5. Zone Contact Options

1. Channel Group Number

1. Action Group Number 2. Action Group Name

3. Action Group List

3. Activate Schedule

4. Activate Event Type

1. Scene Number

5. Activate Zone

6. Scene Actions

1. Web Access PIN

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2. Ethernet Server 1

3. Ethernet Server 2

4. Ethernet Server 3

5. Ethernet Server 4 6. Wireless Server 1

2. Scene Name

2. Channel Group Name 3. Channel List

18. Channel Groups

- 3. Call Back Number
- 1. Silen options3. Call Back Number1. Menu Number5. Service and Test4. Callback Server2. Menu NumberOptions5. Number Of Rings3. Menu Selection6. Status7. System Counts7. Appropriate View 7. Answering Machine 14. Holidays

  - 7. Ansv Defeat 8. Down
- Defeat 8. Download Options System Event

  - 1. System Channel

  - - 9. Even 10. Result
  - - Arm-Disarm
       1.

       1.
       Arm-Disarm Number

       1.
       Action Groups

       1.
       Action Croups

  - 1. Arm-Disarm Number19. Action2. Name1. Action3. User Number2. Action4. Schedule Number3. Action10. Devices20. Scenes1. System Devices1. Scen1. Control2. Scen 1. Control 2. Keypad

1. Transmitter

4. Tablet Keypads

2. Serial Number

3. Partition Group 4. Keypad Options

2. Serial Number

3. User 4. Options 5. Scene

Number

1. Name

2. Permission Name

3. Control Groups 4. Permission Options

5. User Timer Options

3. Activat3. Zone Exp4. Activat4. Output Exp5. Power Supply6. Scene A2. InterlogixTransmitters1. Transmitt

J. Scene7. Wireless Server 1J. Scene7. Wireless Server 26. Signal Strength8. Wireless Server 3Tablet Keypads9. Wireless Server 3

# **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 156.

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.

#### Wireless sensor learning

There are two sensor learning modes:

• Single sensor learning.

To program a single sensor, go to the menu Program / Devices / Interlogix Transmitters, and select the sensor you want to learn. Enter value "1" in the transmitter serial number field, and then press Enter.

• Multiple sensors learning.

To program multiple sensors, go to the menu Program / Devices / Interlogix Transmitters, and select the starting number for multiple sensors learning. Enter value "2" in the transmitter serial number field, and then press Enter.

The keypad will show "Learn Mode Active / Activate Sensor" message.

Activate the wireless sensor. Refer to the appropriate sensor manual for information.

When a sensor is tripped for learning, the keypad shows "New Device Found / Number: X, SID: Y". The sensor Y is now enrolled as a transmitter number X.

In the single sensor learning mode, the information disappears after 10 s, and you return to the Interlogix Transmitters menu.

In the multiple sensors learning mode, another sensor can be tripped and learned in the position X+1.

The multiple sensors learning mode will stop when the transmitter address reaches the limit for the particular control panel model, or when the Cancel button is pressed.

**Note:** Ensure that the particular device is enrolled in the proper transmitter number range, for example, in the NXG-8 panel variant, sensors must be enrolled within the range 1 to 48, and keyfobs must be enrolled within the range 49 to 64. Trying to enroll a device in the wrong transmitter range will cause an error "Invalid Device Type".

#### **Deleting wireless sensor**

To delete a single sensor from the system, go to the menu Program / Devices / Interlogix Transmitters, and select the sensor you want to remove. Enter value "0" in the transmitter serial number field, and then press Enter.

The sensor is now permanently removed from the system.

#### **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 2<sup>nd</sup> 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 colours or shades of grey 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: Size on disk: Resolution:	6/15/2020 6:27 PM 0.0KB 96 DPI	
Units O Inches O Centimeters O Pixels	Colors Black and wh Color	nite
Width: 256	Height: 48	Default
	ОК	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 sav 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.

#### Configuring cards or tags using the NXG-1832 / NXG-1833-EUR keypads

A master user has access to the User Cards menu from an NXG-1832 / NXG-1833-EUR keypad with built-in Mifare reader.

The User Cards menu allows to add, delete, modify, and view a user card or tag assigned to an existing user.

The menu also contains the method to assign multiple cards to users in fast and convenient way. For more details, see *NXG-183x Series Keypad User Guide*.

# Glossary

A-Alarm	A-alarm active (unverified alarm), reset after disarm or expiration of AB timer and no B-alarm.
Action	An action allows the system to perform automation functions. These can monitor the status up to 4 input conditions called Action Events, change state (Action State), and perform a function (Action Result) such as arming a range of partitions.
Action group	An action group is one or more actions that can be accessed by a device or user. They are assigned to a user or device via permissions.
Alarm	The state of a security system when a device connected to a zone is activated and the condition of the partition is such that activation should be signalled. For example, a door or window is being opened, causing a siren to sound.
Alarm control	The control over alarm functions.
Alarm reporting	A procedure to transmit alarm events or other events to the central station by means of a communicator and a set of rules called a protocol. Alarm reporting can also be provided my means of push notification towards an end-user smart phone
Arm	To turn your security system On.
Armed	The condition of a partition where a change in the status of any zone (from normal to active) causes an alarm. A partition or premise is only armed when it is unoccupied. Some zones (like vaults) can remain armed continuously.
Automatic arm-disarm	Automatically arm and disarm partitions by a specific user according to a specified schedule. The partitions armed and disarmed will be the ones that the user has access to via their permissions.
Away mode	To turn your security system on when you are leaving the premises.
B-alarm	B-alarm active (verified alarm), reset after disarm.
Burglar alarm	An alarm triggered by a security device like a motion detector or door contact, indicating someone has entered without authorized access. May also be referred to as an intrusion alarm.
Bypass	Zones can be temporarily disabled so they will not be monitored by the security system. For example, an interior door is left open, bypass it to temporarily ignore it and allow arming of the security system. Bypassed zones are not capable of activating an alarm. Zones will return to normal operation when the system is disarmed. This prevents unintentional permanent disabling of a zone.
Card	A medium holding credentials by which a user can be identified in a security system. A card is associated in the user configuration to a user by which the access rights are defined. Also referred to as a badge. Cards are used on readers or keypads with built-in readers.
Central station	A company to which alarm signals are sent during an alarm report. Also known as Central Monitoring Station (CMS) or Alarm Receiving Centre (ARC).
Channel	A channel is a communication path for events to be sent from the control panel to a selected destination. A channel has an associated event list which contains the events it is allowed to forward on.

Channel group	A channel group is one or more destinations for event messages to be sent to. When a message is sent to a channel group, it is sent to all the channels that it contains. It forms the basis of multi-path reporting.		
Chime group	All the zones that will activate chime, when in chime mode.		
Chime mode	An operational mode that will emit a ding-dong sound at the keypad when specific zones are activated.		
Closed	A zone in a normal state is "closed". The security system monitors each zone for changes in state from closed to open, and can respon- with certain actions such as sounding the siren. For example, a reed switch on a front door may change from a closed state to an open state when the door opens.		
Communicator	An electronic device that allows the control panel to transmit alarms and other events to a central station. It sends event messages to the specified destination including details such as where the event originated from and the type of event. The receiver will then log the time and date when it receives the event. For example, Alarm from Zone 2 in Partition 1 at 3:00am on 5/5/2022 from Account 1234.		
Control panel	An electronic device that is used to gather all data from sensors in the premises. Depending on programming and status of partitions, it generates alarm signals. If required, alarms and other events can be reported to the central station. It stores all programming, may provide network or other connectivity options for reporting, provides physical terminals for connecting power, backup battery, zones, siren, strobe, outputs, and system bus for expansion devices.		
Cursor	A flashing underline character on the liquid crystal display (LCD) that indicates where the next character entered on the keypad will appear.		
Disarm	To turn your security system Off.		
Disarmed	The condition of a partition when it is occupied, and normal activity does not set off an alarm.		
DLO (Door Left Open)	Door kept open for the time longer than configured.		
Door contact	A magnetic contact used to detect if a door or window is opened.		
Door control	The control of entry to, or exit from, a security area through doors.		
Door group	Door groups specify when access to a specific door is granted. Door groups are assigned to users. Each Door group may have a different time period (schedule) when access to the door may be granted.		
Door shunt	Prevents from generation of intrusion alarm if the door was opened legitimately.		
Dual	Dual detector. A security device used to detect intruders in a certain part of a partition or premises. The technique used is based on two techniques like PIR and RADAR or PIR and Ultrasonic.		
Duress	A situation where a user is being forced to breach the system security (for example, forced at gunpoint to open the door). The security system duress facility allows a signal to be activated (for example, notification to a central station) by the user. This is done by entering a duress PIN.		
Duress code	A predetermined user PIN that will arm / disarm the security system whilst sending a special code to the central monitoring station indicating the user is entering / leaving the premises under duress. Only applicable on monitored systems.		

Engineer	Personnel from an installer that can install and service the control panel.
Entry delay	The time allowed to disarm your security system after the first detection device has been activated.
Event	Events are messages that are sent by the security system due to system or partition conditions. These include partitions in alarm, opening and closing, zone bypass, low battery, tamper, communication trouble, and power issues.
Event list	Event lists contain events that a channel is allowed to send to the specified destination. If a channel receives an event that is not in the associated event list, then the channel will ignore the event.
Exit delay	The time allowed to exit the premises after the security system is armed.
Fire alarm	An alarm triggered by fire or smoke detectors indicating a fire.
Fob	See keyfob.
Forced arming	An option that permits arming even when there are open zones. Generally assigned to zones that cover the security system (for example, motion zones, front door reed switches), allowing the user to arm the security system without the need to wait for those zones to be closed.
Forced door	Door opened without valid permission
History	A list of past alarm, door control, video, and other system events stored in memory that can be viewed from a keypad, from the application, or through DLX900 connections.
Hold-up	A silent alarm that is triggered by a hold-up button. Normally it does not trigger any siren, only sends a message to a central station. Sometimes also referred to as Panic button.
Installer	A company that installs and services security equipment.
Key switch	A device using a switch to arm or disarm partitions. The switch needs a key to switch.
Keyfob	A personal wireless device, which is used to perform programmed functions, for example, arm or disarm partitions.
Keypad	A device that is the user interface for security options for partitions or for access points (doors). The keypad can be a console (keypad used to program the control panel, perform user options, view alarms, etc.) or any other device that can be used to perform security function, such as arm or disarm partitions, open doors, etc.
LCD	Liquid crystal display. The part of a keypad where messages are displayed.
Local alarm	An alarm that is signalled only within premises and occurs when a partition is occupied. The circumstances that cause a local alarm may be checked and rectified by personnel on site and it is therefore unnecessary for the alarm to be reported to a central station.
Master code	A PIN that is used by a user to arm or disarm the security system. Its main feature is the ability to create, alter, and delete user PINs. Can also be used as a function code for all features.

Menus	Security system has a large range of features sorted into various menus such as Users, System, and Zones. Each menu item can be seen when using the Web Server or the UltraSync+ app.
	Menus are used to restrict what is displayed by a device and what features a user has access to.
Monitored	A security system that is configured to send all alarm signals to a central monitoring station.
Nuisance alarm	An alarm that is triggered by a security device, without any burglar. It could be caused by open windows, pets, or incorrect projection of security equipment.
Online / offline	Operational/non-operational. A device may be offline due to a malfunction in the device itself or it may be disconnected from the control.
Open	A detector which is triggered will turn the zone to open. The security system monitors each zone for changes in state from closed to open and can respond with certain actions such as sounding the siren. For example, when a PIR zone detects movement, the zone will change from a closed state to an open state.
Output	Outputs on the control panel can be connected to a siren and strobe, and activate when an alarm condition occurs in the system.
Panic button	See hold-up.
Partition	Zones are grouped into partitions which can be secured independently from each other. This allows you to split your security system into smaller components that can be separately managed. For example, your system can be divided into an upstairs partition and downstairs partition.
Partition group	A partition group is one or more partitions that can be accessed by a device or user. They are assigned to a user or device via permissions.
Perimeter	Typically, this refers to zones located around the boundary of the protected partition such as zones on doors and windows, and excludes interior motion zones.
Permission	A permission includes a list of features a user or device is allowed to access. This includes programming menus, partitions, reporting channels, actions, reporting options, access control options, special options, and special timers.
PIN	A 4 to 6 digit number given to, or selected by, a user. It is necessary to enter a PIN on a keypad as a prerequisite to perform most security system options. In the system configuration the PIN is associated with a user number, which identifies the PIN holder to the system.
PIR	Passive infrared detector. A security device used to detect intruders in a certain part of a partition or premise. The technique used is based on infrared detection.
Profile	Each user can have up to four (4) permission profiles. Each profile contains a set of permissions and a corresponding schedule. This allows advanced user programming and provides specific access to different features of the security system during specific dates/time. With advanced programming, profiles can be enabled or disabled in response to system conditions.
Quick arm	An option that allows you to turn on (arm) the security system by pressing the Away or Stay button on the keypad or UltraSync+ app.

Reader	A device used for door control that can read cards to allow access. May be integrated into a keypad.
Reporting	See Alarm reporting.
RTE (Request-to-Exit zone)	A zone that is programmed to open a door using a button or motion detector. Used to allow users to exit without using the door reader. Request to exit is often abbreviated to RTE. Also called egress.
Scene	Each scene can trigger up to 16 actions to create an automation event. This can save users time by automatically running multiple actions. A scene can be triggered manually, through a schedule, or via a system event.
Schedule	A schedule is a list of up to 16 sets of days and times. Typically, these are used to provide access to users only within the specified sets of days and times. Outside of the schedule a user will not have access to the system. Schedules are used to automatically arm and disarm specified partitions using the Arm-Disarm feature. Scenes can perform a set of actions according to a specified schedule. Schedules themselves can be enabled and disabled through actions. This powerful feature allows you to provide conditional access to various users and devices based on system conditions.
Screensaver	The screensaver activates on a keypad after a predefined idle time. In this mode, the information displayed on the keypad is very limited for security reasons. A user intervention is necessary to return to a normal display mode.
Service provider	The installation / maintenance company servicing your security system.
Shunt	A procedure that automatically bypasses a zone from generating an alarm when it is activated. For example, shunts stop a door generating an alarm when opened for a short time.
Stay mode	To turn your security system on when you are staying in the premises, this will automatically bypass pre-programmed zones and arm others. Often used to arm only the perimeter while allowing movement inside the premises.
Tamper	A situation where a zone, a keypad, control panel, expander or associated wiring are tampered with, or accidentally damaged. The security system tamper facility activates a signal when tamper occurs. Tamper alarms from zones are called zone tampers.
UltraSync	A secure cloud service with full redundancy to route encrypted alarm messages from your security system to a Central Monitoring Station. It also provides secure connections between the UltraSync+ app, control panel and cameras. No programming, email addresses, user names, or PINs are stored for security and data privacy reasons.
UltraSync+ app	Mobile app for smartphones to control the security system. View status, control zones and outputs, view cameras, program users and other alarm features.

User	An authorised person who can interact with the security system and perform various tasks according to the permissions assigned to them. Each user has a set of profile levels. These control what the user has access to, a list of functions, and when the user is allowed to perform these functions. A user is typically a person who is assigned a PIN and arms/disarms the system with this PIN, card, or keyfob device. Users can also be automatic functions of the system. For example, security system can automatically arm specific partitions a user has access to at a specified time. No human interaction is required, all the permissions of the programmed user will still be applied and enforced.
User code	See PIN.
User group	User groups define the options and permissions available to users.
Walk test	A test performed by a user or installer. To pass the test, the user or installer must walk past detectors, open doors and windows to activate these. The intention is to test the functionality of the security system.
Web Server	The control panel has a built-in web server which provides access to its features via a web browser interface (PC) or from UltraSync+ app. This allows you to program and control the system without being physically in front of a keypad.
Zone	A detection device such as a motion detector (PIR), reed switch, smoke detector, panic button, etc. Zones may be physically wired to the security system. Also known as an input or sensor on other security panels.

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