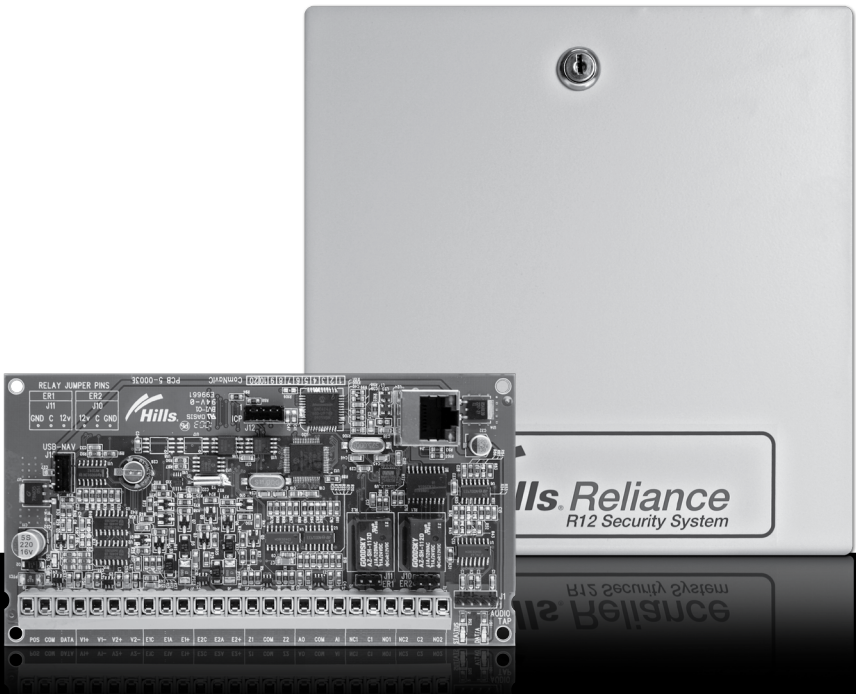


ComNav



Installation Manual

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Introduction

The Hills ComNav is an intuitive interface module that may be added to your Hills Reliance security system. It allows authorised users to remotely access and control the security system. Access to the ComNav can be via any off site touch-tone telephone, web browser or locally via WiFi using a powerful iPhone application.

When accessing the ComNav via a touch-tone phone, the inbuilt PVG (Personal Voice Guide) offers users a friendly, easy to operate interface to their security system. The PVG allows new users to access the full power of their Hills Reliance security system without having to constantly refer to this manual. You can dial in and check the status of your security system, change a users pin number, enter a new alarm phone number or simply arm your system with easy to follow voice prompts.

Plain English alarm / system messages can be sent to up to three different phone numbers. Messages can also be sent to three different numbers via SMS or Email.

Authorised users may customise voice recordings for user names, zone names, area names, room names, output names and system names. These recordings offer a level of system customisation usually reserved for more elaborate installations. The ComNav can also store (and forward to VoiceNav code pads) exit and entry messages. These messages can be left for other users of the security system.

ComNavs built in web server allows users to arm / disarm individual areas, check system status, enable / disable user codes, modify Email accounts and SMS / Voice phone numbers from any standard web browser.

Advanced intercom features are also incorporated within the ComNav. Imagine a visitor to your home pressing the button at your front door intercom, and then being able to talk to you on your mobile phone anywhere in the world. Maybe it's a courier delivering a parcel? You may wish to open the garage door and allow them to drop the parcel inside.

Feature & Benefits

Feature	Connection			
	Phone Line	+Network	+Intercom	+VoiceNav
Voice Reporting	Yes	Yes	Yes	Yes
SMS Reporting	Yes	Yes	Yes	Yes
Dial Up Control	Yes	Yes	Yes	Yes
Dial Up Programming	Yes	Yes	Yes	Yes
4 Extra Zones	Yes	Yes	Yes	Yes
Real Time Clock	Yes	Yes	Yes	Yes
2 Relays for Door Release	Yes	Yes	Yes	Yes
Email Reporting	-	Yes	Yes	Yes
DHCP	-	Yes	Yes	Yes
ComNav Config. Server	-	Yes	Yes	Yes
Call Divert	-	-	Yes	Yes
Remote Listen In to Outdoor Station	-	-	Yes	Yes
VoiceNav Access to Intercom and Door Release	-	-	-	Yes
Remote Listen In to VoiceNavs	-	-	-	Yes

1. Phone Line connection.

- Voice Reporting – ComNav can phone the user and announce in a human voice, selected event conditions. Users can customize individual name recordings for zones, areas, users, rooms and outputs. No more confusing beeps or sirens!
- SMS Reporting - With the flexibility of three different phone numbers and the added convenience of event selection per phone number, now you can group and send selected events to different users as required.
- Dial up control – The ComNav can be access by any outside touch tone telephone and once connected the inbuilt **Personl Voice Guide** (PVG) will navigate you through all available menu options. From basic Arming / Disarming control, to more advanced menus like zone bypassing and System recordings.
- Dial up programming – An invaluable feature for the installer is the ability to remotely access the ComNav from any outside touch tone telephone to carry out full system interrogation or advanced programming.
- Zones – There are two onboard zones that can be zone doubled to for use within the security system. Only available on the R12 and R128 control panels.
- RTC – “Real Time Clock” is an onboard component that holds the current time date setting. A built-in power-sense circuit detects power failures and automatically switches to the backup supply. This significantly reduces the chance of a "loss of date \ time" in periods of extended power outage.

2. Phone Line connection, and network connection.

- All of the above features plus
- Email Reporting – Up to three email addresses can be entered with individual event selection for each address. This versatility with event selection allows events to be sent to different email addresses, IE: Alarms to email1, open closes to Email2 and system faults to the 3rd address.
- DHCP - or Dynamic Host Configuration Protocol, is a computer network protocol used by devices to obtain configuration information for operation in an Internet Protocol network. This protocol reduces system administration workload, allowing networks to add devices with little or no manual intervention
- ComNav Configuration Server – Once connected to the network, users will enjoy the simple web user interface that is supplied with the ComNav. Enter the IP address of your ComNav into a web browser to access the ComNav Configuration Server. Here the user can configure pin codes, arm and disarm areas, view the last 185 event history, enter and change all voice, SMS and divert phone numbers and assign email address. Installers have further access to network settings, feature lists and outputs.
- Relays – The two onboard relays are fully configurable and come defaulted for door release one and door release two.

3. Phone Line connection, network connection and integrated into the door intercom system.

- All of the above features plus
- Call divert – This feature will call up to three different phone numbers when a visitor presses the call button on the outside door station whilst the Hills Reliance security system is armed. Once the call is connected, a bi directional conversation can take place and the called party has the ability to operate the onboard relay allowing access to the premises.
- Remote listen in / two way communication – this feature allows users to connect to the outdoor station from a remote location

4. Phone Line connection, network connection, integrated into the door intercom system with VoiceNav code pads.

- All of the above features plus
- VoiceNavs can be configured to answer a call initiated from either of the two door stations, they can also control the ComNavs onboard door release relays.
- Remote listen in / two way communication – this feature allows users to connect to any or all of the connected VoiceNavs from a remote location an “listen in” to any audio within that room / rooms.

Disclaimer

A level of TCP IP knowledge is required by the installer/s to set up some of the ComNav functionality. Direct Alarm Supplies limits its support to ComNav setup only, and is unable to offer further assistance on your clients DSL modem, Router, firewall or any other 3rd party software. Please consult your customers IT department or qualified IT professional about implementing this product onto your clients network.

Warning

Keep in mind, the level of security you will obtain with this system relates specifically with two major factors:

- The quantity, quality, and placement of security devices attached to this security system.
- The knowledge you have of the security system and how that knowledge is utilized in a weekly test of the complete system.

WARNINGS

This product is to be installed by qualified SERVICE PERSONNEL only

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 SERVICE PROVIDER FOR REPLACEMENT BATTERIES.



N3094

Warranty

Hills Industries guarantees this product against defective parts and workmanship for twenty-four (24) months from the date of purchase. If any defect appears during the warranty period contact your service provider. Hills Industries assumes no liability for consequential or indirect damage, and accepts no responsibility for repairing damage to the product caused by misuse, careless handling, or where repairs have been made by others.

No other guarantee, written or verbal, is authorised by Hills Industries.

Installing The ComNav Into The Enclosure

Inside the can, several 2-holed insertion points have been constructed. This allows for either vertical or horizontal placement of the modules. **Notice that the insertion points have two sizes of holes -- a larger hole and a smaller hole.**

Diagram 1: The black plastic PCB guides are grooved on one edge where the PC Board will be seated. The end with the half-moon protrusion fits into the larger hole. The smaller hole is for the screw.

Diagram 2: Place the *first* black plastic PCB guide in the top insertion point, grooved edge downward. The half-moon protrusion will be in the large hole. It does not require force. Insert one of the provided screws into the smaller hole (from inside the can) to secure it in place. A screwdriver should reach through the notch that runs the length of the guide to tighten the screw. The *second* PCB guide should be positioned opposite of the first (grooved edge up) and placed in the lower insertion point, using the same procedures described above. Once mounted, screw it in securely.

Diagram 3: The PC board should slide freely in the grooves of both guides.

Diagram 1

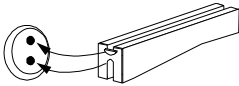


Diagram 2

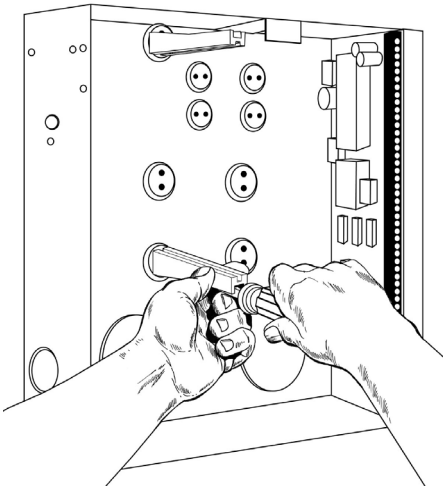
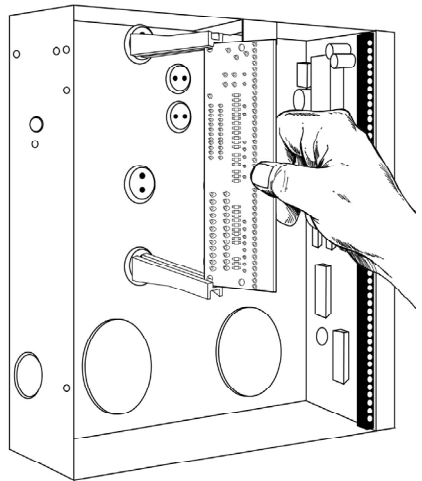


Diagram 3



Wiring The ComNav

Drop all power to the Hills Reliance security system and connect ComNav terminals POS, COMM & DATA to the Hills Reliance bus.

A 5-wire interconnecting cable is supplied with the ComNav. Connect one end to J1 (Audio Tap) on the ComNav and the other end to J4 (Audio Tap) on the Reliance board.

Important: Ensure the trace is aligned with pin 1 on both taps. Refer Diagrams 4,5,6 & 7 for correct orientation.

*Connect J14 (RJ45) to available network port via a patch cable.

*Connect E1C, E1A, E1+ in parallel to front door camera 1

*Connect E2C, E2A, E2+ in parallel to front door camera 2

*Connect V1+, V1- and V2+, V2 audio input in parallel with VoiceNav audio lines A and B

*Connect Zones as required

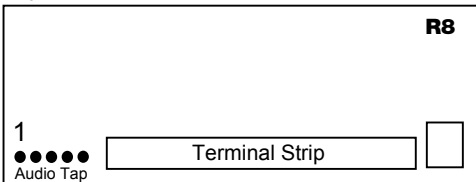
- a. 3.3K Single EOL's
- b. 3.7K Lower zone EOL's (when zone doubled)
- c. 6.9K Higher zone EOL's (when zone doubled)

*Select relay contact requirements via jumpers J10 and J11. Place link between GND and C for negative switch, and 12V+ and C for positive switch, remove link for dry contact switching. Reconnect power.

NOTE: *Only required if particular feature is being utilised

Hills Reliance Audio tap connection

Diagram 4



Important: Ensure the trace is aligned with pin 1 on both panel and ComNav audio taps**

Diagram 5

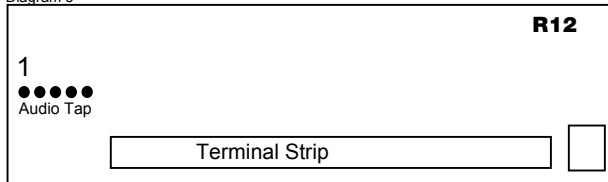
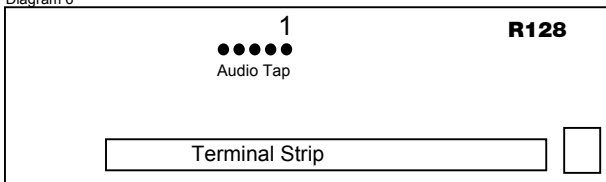


Diagram 6



PCB Layout

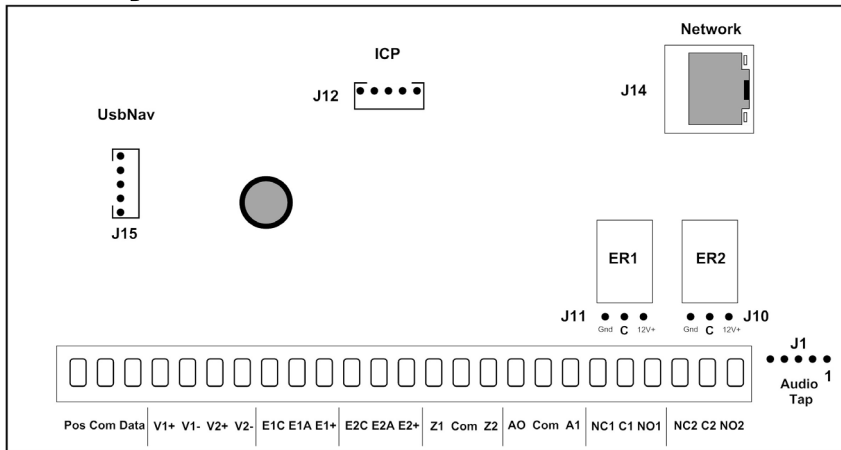


Diagram 7

Terminal Descriptions

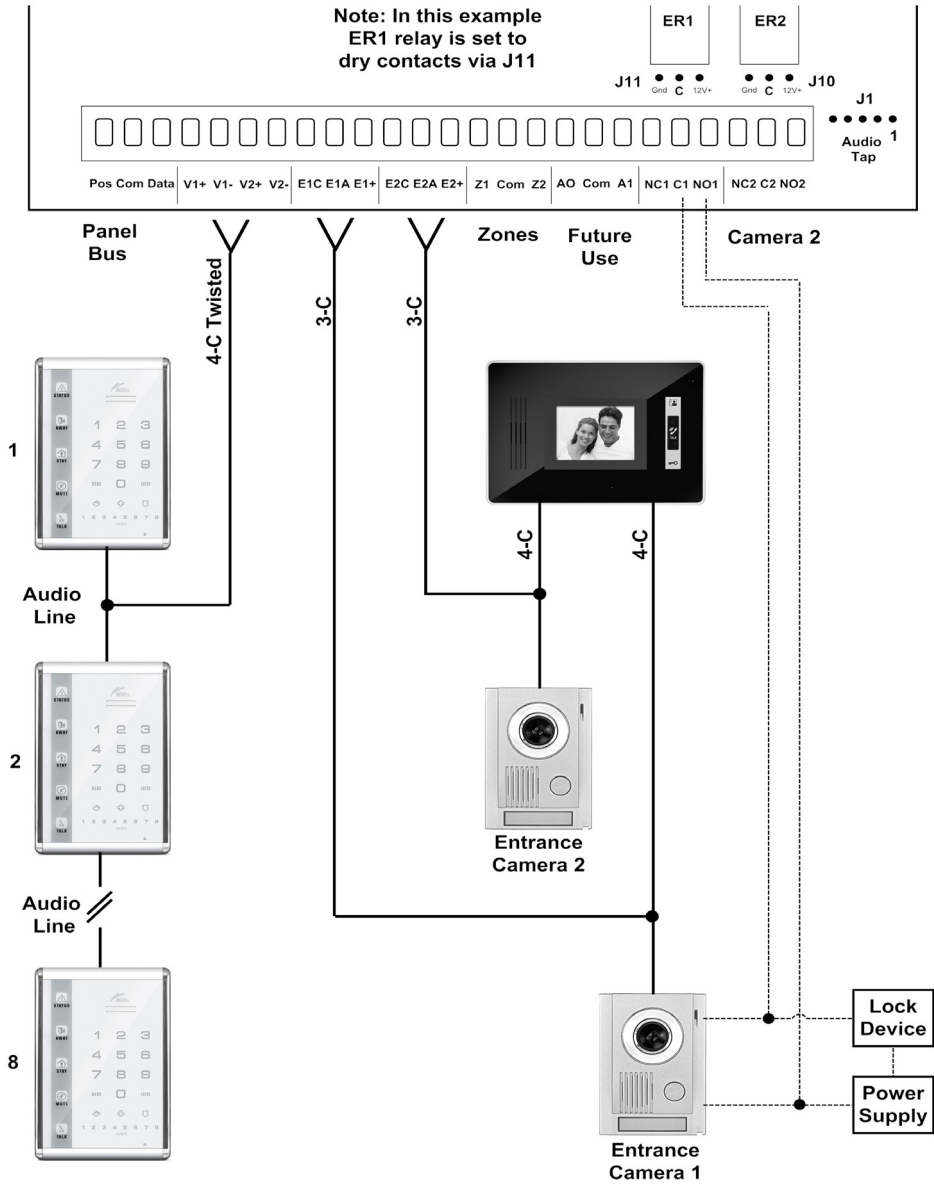
Terminal		Description
1	Pos	Positive terminal on the Hills Reliance panel
2	Com	Common terminal on the Hills Reliance panel
3	Data	Data terminal on the Hills Reliance panel
4	V1+	VoiceNav Audio Lines: Audio Line A, positive
5	V1-	VoiceNav Audio Lines: Audio Line A, negative
6	V2+	VoiceNav Audio Lines: Audio Line B, positive
7	V2-	VoiceNav Audio Lines: Audio Line B, negative
8	E1C	Entrance camera 1: Common terminal on outdoor station 1
9	E1A	Entrance camera 1: Audio terminal on outdoor station 1
10	E1+	Entrance camera 1: Positive terminal on outdoor station 1
11	E2C	Entrance camera 2: Common terminal on outdoor station 2
12	E2A	Entrance camera 2: Audio terminal on outdoor station 2
13	E2+	Entrance camera 2: Positive terminal on outdoor station 2
14	Z1	Additional Zones: 1 st / 3 rd Zone
15	Com	Additional Zones: Common (-) return for Zone loop
16	Z2	Additional Zones: 2 nd / 4 th Zone
17	AO	Future Use
18	Com	Future Use
19	A1	Future Use
20	NC1	ER1 Entry Relay 1: Normal closed,
21	C1	ER1 Entry Relay 1: Common
22	NO1	ER1 Entry Relay 1: Normal open
23	NC2	ER2 Entry Relay 2: Normal closed
24	C2	ER2 Entry Relay 2: Common
25	NO2	ER2 Entry Relay 2: Normal open

This relay is controlled from the VoiceNav communicating with outdoor station 1

This relay is controlled from the VoiceNav communicating with outdoor station 2

Wiring Structure

Diagram 8



Note: Video Intercom requires independent power source

Loading Factory Defaults (device 191)

The ComNav is automatically set to device number 191, and programming is carried out like all other Hills Reliance modules. The following examples show how to access the programming of the ComNav via a standard code pad or a VoiceNav code pad. The ComNav will require defaulting the first time it is accessed by entering [9][1][0][#] or [9][1][0] [ENTER] depending on the method chosen to enter programming. This will only be required once.

Using a VoiceNav Code Pad

Device Programming, Using VoiceNav code pad		
Defaulting to factory settings		
1.	[MENU]-[0]	Selects main menu - Option 0, Advanced system configuration ◀ <i>Enter your code, touch menu to exit.</i>
2.	[?]-[?]-[?]-[?]	Enter your 4 or 6 digit Programming code <i>Touch 1 for code pad configuration</i> ◀ <i>Touch 2 for panel and device configuration</i> <i>Touch 3 to configure service provider phone number</i> <i>Touch menu to exit.</i>
3.	[2]	Selects Panel and Device configuration ◀ <i>Select a device number followed by enter</i> <i>Touch menu to go back.</i>
4.	[1][9][1] [ENTER]	Connects to device 191 (ComNav) <i>Selected device 191 is connected</i> ◀ <i>Select a feature number followed by enter</i> <i>Touch menu to go back.</i>
5.	[9][1][0] [ENTER]	Defaults the device, Note: only required once
You are now ready to begin ComNav programming		
6.	[MENU]	Moves back to step 4, select a device number
7.	[MENU]	Moves back to step 3, Advanced system configuration selection.
8.	[MENU]	Exits from Advanced system configuration.

Using a Standard Code Pad

Step	Device Programming, Using standard code pad	
	Example	Defaulting to factory settings
1.	[*] [8]	Selects Panel and Device programming
2.	[?]-[?]-[?]-[?]	Enter your 4 or 6 digit Programming code
3.	[1][9][1] - [#]	Connects to device 191 (ComNav)
4.	[9][1][0] - [#]	Defaults the device, Note: only required once
<i>You are now ready to begin ComNav programming</i>		
5.	[Exit]	Moves back to step 3
6.	[Exit]	Exits programming

Enrolling the ComNav (device 191)

The Hills Reliance control panels have the ability to automatically find and store all modules that are connected to the communications bus, such as ComNav, keypads, zone expanders, wireless receivers, output boards and other modules. This allows for polled supervision of these modules, and if the Hills Reliance panel does not detect an enrolled module, a service condition will be generated.

To enrol the ComNav module, enter programming as previously described, upon exiting program mode the Hills Reliance control panel will automatically enrol any additional modules that have been connected to the communications bus, it will also delete modules that have been removed. Enrolling takes about 12 seconds and user codes will not be accepted during this time.

Accessing the ComNav – Via a Touch Tone Phone

This section describes how to access the ComNav via an off site touch-tone phone. The ComNav must be on an independent line to the touch-tone phone from which you are trying to connect. The ComNav must be pre-programmed by your security service provider to automatically answer the incoming call once the predetermined number of calls / rings have been reached. When the desired number of calls / rings has been reached the ComNav will grab the phone line and a connection has been established, the following will be announced

Note: Feature 2, Dial attempts must be set to the desired number of rings before the ComNav will answer an incoming call to begin a voice session. Feature 1, segment 2, answering machine defeat can also be used to bypass onsite answering machines.

An installer code is unrestricted and can access all areas of the ComNav, including menu 0.0 "Panel and device configuration"

After connecting, the ComNav will announce


◀ *Enter your code for system access, press star to cancel*

Enter your user / master code / Installer code (default master code is 1234 and default Installer code is 9713), the ComNav will announce the recorded **system name** (if recorded) and list all accessible main menus, you can now make your selection as required.

◀ *You are now connected to (system name).....*

*Press 1 for system status
Press 2 for system control
Press 3 for intercom control
Press 4 for output control
Press 5 for message bank
Press 0 for system configuration*
Press # to exit*

* Denotes master
code access only

The above sequence will be shown through out this manual as  [PIN]

Main Menu – Structure

1	System Status	
2	System Control	
	2.1	System Status
	2.2	Area Control
	2.3	Zone Bypass
	2.4	Event History
	2.4.1	Alarm Memory
	2.4.2	Event History
3	Intercom Control	
	3.1	Listen In
	3.2	Two way communication
4	Output Control	
5	Message Bank	
	5.1	Record an Exit Message
	5.2	Record an Entry Message
0	System Configuration	
	0.1	User Configuration
	0.1.1	User Pin
	0.1.2	User Area
	0.1.3	User Authority
	0.2	Time and Date
	0.2.1	Time
	0.2.2	Date
	0.3	Area Entry Time
	0.4	Area Exit Time
	0.5	Phone number configuration
	0.5.1	Alarm Phone Number One
	0.5.2	Alarm Phone Number Two
	0.5.3	Alarm Phone Number Three
	0.5.4	Divert Phone Number One
	0.5.5	Divert Phone Number Two
	0.5.6	Divert Phone Number Three
	0.5.7	SMS Phone Number One
	0.5.8	SMS Phone Number Two
	0.5.9	SMS Phone Number Three
▶	0.5.0	Service provider phone number <i>Installer access only</i>
	0.6	Voice Message
	0.6.1	Exit message
	0.6.2	Entry message
	0.6.3	User name
	0.6.4	Zone name
	0.6.5	Area name
	0.6.6	Output name
	0.6.7	Room name
	0.6.8	System name
▶	0.0	Panel and device configuration <i>Installer access only</i>

Main Menu - Additional Installer information

4

- Output Control

The two onboard relays are defaulted as Door 1 and Door 2 control and are controlled when an intercom session is established between an outdoor station and VoiceNav code pads.

Relay trigger events are selectable and can be chosen from a drop down "Activation events" list from within the web interface. Events can only be selected from within the ComNav web interface.

Note: From the activation event drop down list "" output 1 trigger" " and " output 2 trigger" are fixed X10 module commands 0 and 1. When selected, they can be controlled directly from within menu 4-output control when connected to a ComNav.

Drop down Event	X10 Module Number
Output 1 trigger	0
Output 2 trigger	1

Additional relay boards (NX-507) can be added, with a system total of 16. An output from a VoiceNav or ComNav is an X10 command, and these commands can be tied to different relays. Set the relay you wish to control to follow event **56 = follow X10 Command**. Then tie the relay to the output by setting the corresponding X10 module number (from the chart below) at the X10 address for the relay. Please refer to your NX-507 installation instructions for further details.

Note: NX – 508 output boards can also be used

Outputs	X10 Module Number
1	0
2	1
3	2
4	3
5	4
6	5
7	6
8	7





Outputs	X10 Module Number
9	8
10	9
11	10
12	11
13	12
14	13
15	14
16	15

- 0.1 User Configuration
- 0.2 Time & Date
- 0.3 Area Entry Time
- 0.4 Area Exit Time
- ↳ 0.5 Phone number configuration
 - 0.5.1 Alarm phone number One
 - 0.5.2 Alarm phone number Two
 - 0.5.3 Alarm phone number Three
 - 0.5.4 Divert phone number One
 - 0.5.5 Divert phone number Two
 - 0.5.6 Divert phone number Three
 - 0.5.7 SMS phone number One
 - 0.5.8 SMS phone number Two
 - 0.5.9 SMS phone number Three
 - ↳ **0.5.0 Service provider phone number**
- 0.6 Voice message recording
- 0.0 Panel and device configuration

Service provider phone number

Menu 0.5.0. This is the phone number you wish your clients to call for servicing; this number will be announced via your VoiceNav code pads, each arming and disarming cycle whilst a system fault is present.

How to: Enter Service provider phone number.





Step	Example	Enter service provider phone numbers
1.	 [PIN]	Call the ComNav via an offsite touch-tone phone to begin the session.
2.		Press [0] for system configuration menu Press [5] for phone number configuration Press [0] for service provider phone number
3.		Select a new alarm / divert / SMS phone number, followed by #
4.		1 st star. Move back to step 3, phone number selection 2 nd star, moves back to system configuration menu 3 rd star, moves back to main menu 4 th star, disconnects session

- 0.1 User Configuration
- 0.2 Time & Date
- 0.3 Area Entry Time
- 0.4 Area Exit Time
- 0.5 Phone number configuration
- 0.6 Voice message recording
- ↳ 0.0 Panel and device configuration

Panel and device configuration

This is the access point to program all other devices that are on the Hills Reliance bus, such as the control panel, radio receivers, output modules etc.

How to: Record an Exit message

Step	Example	To record a new eit message, from the Voice message recording menu
1.	 [PIN]	Call the ComNav via an offsite touch-tone phone to begin the session.
2.		Press [0] for system configuration menu Press [0] for panel and device configuration
3.		Select a device number followed by #
Device ? Is now connected and you are now ready to begin programming		
4.		1 st star, moves back to panel and device configuration 2 nd star, moves back to system configuration menu 3 rd star, moves back to main menu 4 th star, disconnects session The above steps presumes you have exited any feature menus within the device you are connected.

Accessing the ComNav - Via the Web pages

Setup

Before you are able to access the ComNav's onboard web server you must first set up the correct network settings.

Feature 19 – IP Feature Settings

Feature 20 – IP Gateway

Feature 21 – ComNav IP Address

Feature 22 – Subnet Mask

Note: Feature 21, 21 and 22 will be automatically assigned if on a DHCP network.

Please contact your system administrator for assistance with regard to these required settings.

Navigating to the ComNav

Enter the IP address of your ComNav into the web browser to access the ComNav Configuration Server, Example as per Diagram 9. Depending on setup, you may also be able to navigate directly to the ComNav by entering "ComNav" directly into the browsers address window as per Diagram 10.

Diagram 9

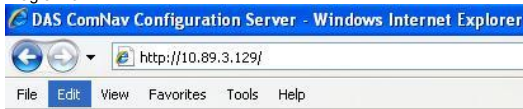
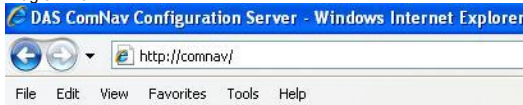


Diagram 10

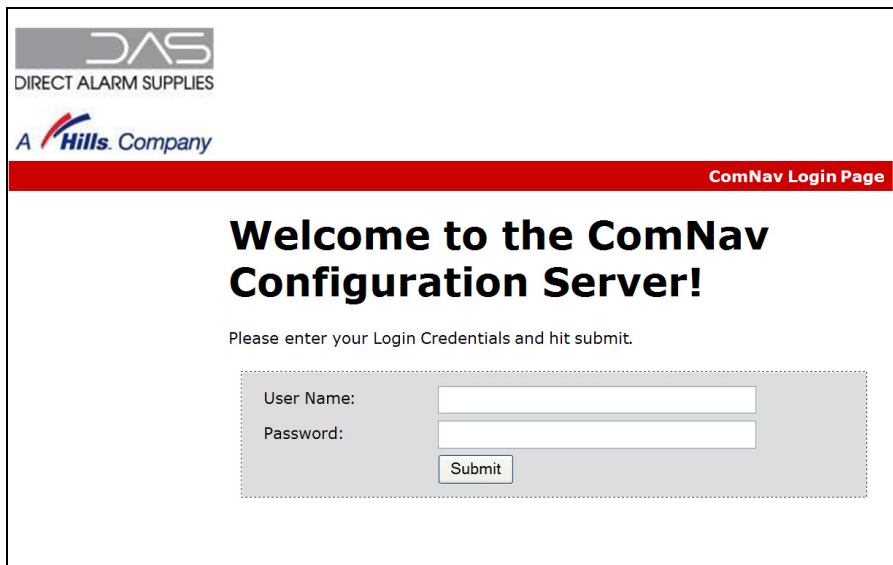


Note: SSL or Secure Sockets Layer is a security protocol for communications over networks such as the Internet. If SSL is enabled your URL will begin with *https*: instead of *http*: (Diagram 11) You will also receive a warning window "There is a problem with this websites security certificate", choose "continue to this website" to connect to the ComNav.

Diagram 11



Welcome page



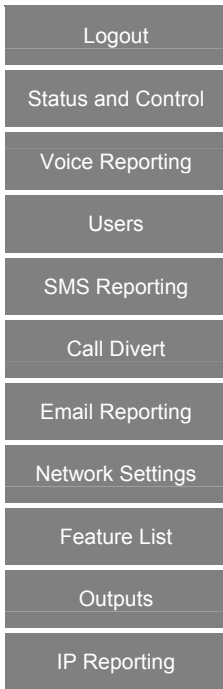
The screenshot shows the ComNav Login Page. At the top left is the DAS logo with the text 'DIRECT ALARM SUPPLIES' and 'A Hills Company' below it. A red banner at the top right says 'ComNav Login Page'. The main heading is 'Welcome to the ComNav Configuration Server!'. Below this is the instruction 'Please enter your Login Credentials and hit submit.' A login form with a dotted border contains 'User Name:' and 'Password:' labels, two text input fields, and a 'Submit' button.

When successfully connected, the ComNav will serve up the "welcome page" . To access the main menu enter the required user / installer name and password. By default there is only one Installer name and password.

User name: **dascomnav**
Password: **9713**

Note: Username is case sensitive

Main Menu (Web) – Accessed with Installer Code



Welcome to the ComNav Configuration Server!

This page is being served by the ComNav at the address specified. To configure a specific item select from the list to the left.

Click a menu on the left to continue

The screen shot above shows the ComNav's complete menu when accessed via an installer code. Network settings, feature list, outputs and IP reporting will not be presented when accessed via a master code and only Status and control will display if a standard user code is used to access the ComNav. Make your programming selection by clicking on one of the left tabs.

Note: The ComNav must either be in program mode, or alternately feature 19, option 6 must be enabled before the ComNav will present network settings, feature list, outputs or IP reporting, even when accessed via an installer code.

SMS Reporting

Logout
Status and Control
Voice Reporting
Users
SMS Reporting
Call Divert
Email Reporting
Network Settings
Feature List
Outputs
IP Reporting

SMS phone numbers 1, 2 and 3 will receive a SMS message upon the selected event in the associated SMS event window being enabled and activated. Enter the SMS server phone number (Telstra's SMS server number is 125107.) and the mobile numbers that are to receive SMS messages. Individual user names can be reported if entered under the "Users" tab of this web interface.

.

To report individual area numbers via SMS, enter the area account number in the corresponding feature number within the Hills Reliance control panel, feature 37 will need to be enabled in a single area system.

Area	1	2	3	4	5	6	7	8
Feature	37	38	41	44	47	50	53	56

Network Settings

Logout	MAC Address: 00:04:A3:10:6A:D1
Status and Control	Host Name: COMNAV
Voice Reporting	<input checked="" type="checkbox"/> Enable DHCP <input type="checkbox"/> Require SSL
Users	<input type="checkbox"/> Enable Web Update <input checked="" type="checkbox"/> Enable Ping
SMS Reporting	<input type="checkbox"/> Enable Web Time Updates
Call Divert	<input checked="" type="checkbox"/> Enable Hills Protocol Server
Email Reporting	IP Address:
Network Settings	Gateway:
Feature List	Subnet Mask:
Outputs	Primary DNS:
IP Reporting	Secondary DNS:
	SSL Port: 443
	<input type="button" value="Save Config"/>

MAC Address: Media Access Control address (MAC address) is a unique identifier assigned to most network interface cards by the manufacturer for identification.

Host Name: Fixed as “Comnav”

DHCP: DHCP or Dynamic Host Configuration Protocol, is a computer network protocol used by devices to obtain configuration information for operation in an Internet Protocol network. This protocol reduces system administration workload, allowing networks to add devices with little or no manual intervention

SSL Required: SSL or Secure Sockets Layer, is a security protocol for communications over networks such as the Internet. If SSL is selected your URL will begin with *https:* instead of *http:* SSL port is defaulted to port 443, however is selectable from the SSL port window further down this window. If SSL is not enabled, ComNav operates on port 80, and is non selectable.

Web Updates: When enabled, allows updating of the ComNav Configuration Server's web pages via FTP. Normally disabled.

Ping: The “ping” command is always functional whilst the Comnav is in program mode and is defaulted to NOT operate whilst the ComNav is in the normal run mode. Enable this option to allow

the ComNav to respond to "ping" commands in normal operation. For security reasons it is recommended this option remain disabled during normal operation.

Web Time Updates: The ComNav will check its internal and use the internet to compare it against GMT time. This is done every 15min and will update itself if the variance is greater than 3 minutes.

Hills Protocols: This protocol is disabled by default, but is active for the first 5min after power up. Allows devices such as iPhones and UHS devices to communicate with the ComNav via Hills protocols.

IP Address: An Internet Protocol (IP) address is a numerical label that is assigned to devices participating in a computer network. If DHCP is enabled and supported by your network, the comany IP address will be automatically assigned, other wise you will be required to enter your unique IP address here.

Subnet mask: Allows a network to be divided into subnets, and allows the flow of network traffic between hosts to be segregated based on a network configuration. Applying the subnet mask to an IP address splits the address into two parts, an "extended network address" and a host address. A typical subnet mask is 255.255.255.0

Primary DNS: IP address of the primary DNS server. DNS (Domain Name System) allows dedicated servers on the internet to be assign both an IP address and a corresponding name, called a domain name.

Secondary DNS: IP address of the secondary DNS server. DNS (Domain Name System) allows dedicated servers on the internet to be assign both an IP address and a corresponding name, called a domain name.

SSL Port: Selectable port configuration, defaulted port is 443.

Feature List

Logout
Status and Control
Voice Reporting
Users
SMS Reporting
Call Divert
Email Reporting
Network Settings
Feature List
Outputs
IP Reporting

☐ Enable Zone Doubling☐ Enable Ans Machine Defeat

Rings to Answer: 1

Start Zone: 0

Installer Name: dascomnav

Service Number: 1900789

GMT Offset Hours: 0 (GMT) Minutes: 0

DST Start Month: Disabled Week: first Sunday

DST End Month: Disabled Week: first Sunday

Save Config

Zone-doubling - this feature will allow the two onboard zones to double to four zones.

	Zone	Lower Zone	Higher Zone
Single EOL	3K3	N/A	N/A
Zone Doubled EOL's	N/A	3K7	6K9

Answering machine defeat - When answering machine defeat is enabled, accessing the ComNav remotely is accomplished by calling the phone number the ComNav is connected to and allowing it to ring once or twice, then hanging up. Wait 10 seconds. Then calling back the ComNav, which will now answer the next incoming call. The second call must be made within 60 seconds of the first call

Rings to Answer - The number of rings the ComNav must detect before answering the telephone line when initiating a communication session. A value of 1 – 15 can be entered.

Starting Zone - Used to enter the starting zone number of the additional zones on the ComNav.

Data	Zones	Data	Zones	Data	Zones	Data	Zones
9	= 9 - 12	41	= 41 - 44	73	= 73 - 76	105	= 105 -108
17	= 17 - 20	49	= 49 - 52	81	= 81 - 84	113	= 113 - 116
25	= 25 - 28	57	= 57 - 60	89	= 89 - 92	121	= 121 - 124
33	= 33 - 36	65	= 65 - 68	97	= 97 - 100		

Note: Additional zones are only available on the R128 and R12 panels (also NX12 and NX16). As R12 (and NX12) can only expand to a maximum of 16 zones, you may only enter a Starting Zone of 9. This feature is not available for NX4, NX8 or R8 panels.

Installer Name – Default installer name is **dasComNav** and is case sensitive. Installer name access will present all tabs. Master user name access will not present the Network settings, Feature list, Outputs or IP reporting tabs.

Service Number – The system service number will be announced at VoiceNav code pads when a system fault is present.

GMT Offset Hours/Minutes – Sets local GMT (Greenwich Mean Time).

Sydney	10.00
Victoria	10.00
Tasmania	10.00
Queensland	10.00
South Australia	09.30
Northern Territory	09.30
ACT	10.00
Western Australia	08.00
New Zealand	13.00

DST Start / End month – Selects the months daylight savings begins and ends for the particular installation region.

DST Start / End week – Selects which Sunday daylight savings begins and ends for the particular installation region.

Outputs

Logout
Status and Control
Voice Reporting
Users
SMS Reporting
Call Divert
Email Reporting
Network Settings
Feature List
Outputs
IP Reporting

Output 1 Programming			
Activation Event:	Unlock Door1		
Activation Time:	5		
Special Timing:			
<input type="checkbox"/> Minutes	<input type="checkbox"/> Latch	<input type="checkbox"/> Code Reset	
<input type="checkbox"/> Open Schedule	<input type="checkbox"/> Close Schedule	<input type="checkbox"/> Invert	
Activation Areas:			
<input checked="" type="checkbox"/> Area 1	<input checked="" type="checkbox"/> Area 2	<input checked="" type="checkbox"/> Area 3	<input checked="" type="checkbox"/> Area 4
<input checked="" type="checkbox"/> Area 5	<input checked="" type="checkbox"/> Area 6	<input checked="" type="checkbox"/> Area 7	<input checked="" type="checkbox"/> Area 8
Schedule:			
Open Hour:	8	Open Minute:	0
Close Hour:	17	Close Minute:	0
<input type="checkbox"/> Sun	<input checked="" type="checkbox"/> Mon	<input checked="" type="checkbox"/> Tue	<input checked="" type="checkbox"/> Wed
<input checked="" type="checkbox"/> Thu	<input checked="" type="checkbox"/> Fri	<input type="checkbox"/> Sat	
Output 2 Programming			
Activation Event:	Unlock Door2		
Activation Time:	5		
Special Timing:			
<input type="checkbox"/> Minutes	<input type="checkbox"/> Latch	<input type="checkbox"/> Code Reset	
<input type="checkbox"/> Open Schedule	<input type="checkbox"/> Close Schedule	<input type="checkbox"/> Invert	
Activation Areas:			
<input checked="" type="checkbox"/> Area 1	<input checked="" type="checkbox"/> Area 2	<input checked="" type="checkbox"/> Area 3	<input checked="" type="checkbox"/> Area 4
<input checked="" type="checkbox"/> Area 5	<input checked="" type="checkbox"/> Area 6	<input checked="" type="checkbox"/> Area 7	<input checked="" type="checkbox"/> Area 8
Schedule:			
Open Hour:	8	Open Minute:	0
Close Hour:	17	Close Minute:	0
<input type="checkbox"/> Sun	<input checked="" type="checkbox"/> Mon	<input checked="" type="checkbox"/> Tue	<input checked="" type="checkbox"/> Wed
<input checked="" type="checkbox"/> Thu	<input checked="" type="checkbox"/> Fri	<input type="checkbox"/> Sat	
<input type="button" value="Save Config"/>			

The two onboard relays are defaulted as Door 1 and Door 2 control and are controlled when an intercom session is established between an outdoor station and VoiceNav code pads.

Relay trigger events are selectable and can be chosen from a drop down "Activation events" list from within the web interface. Events can only be selected from within the ComNav web interface.

Note: From the activation event drop down list "" output 1 Trigger" " and " output 2 Trigger" are fixed X10 module commands 0 and 1. This allows you to send an X10 module command 0 or 1 remotely by using Menu 4-Output Control on the ComNav.

Drop down Event	X10 Module Number
Output 1 trigger	0
Output 2 trigger	1

Activation Event – Select the required event from the drop down list that will activate the corresponding relay

Activation Time – Time the relay will be active, options 0 –255

Special Timing

Minutes – On if output should be timed in minutes; off if timed in seconds

Latched – On if output should latch; off if output should be timed.

Code Reset – On if output should stop timing upon code entry; off if output should follow timer.

Open Schedule – On if output should only activate between the opening and closing time

Closing Schedule – On if output should only activate between the closing and opening time

Invert – On if output should be inverted

Activation Areas – Is used to select the area(s) the event must occur in before the output will activate.

Schedule – Sets the Opening / Closing hours and minutes (24 hour format) and the days of the week the event must occur in before the output will activate.

IP Reporting

- Logout
- Status and Control
- Voice Reporting
- Users
- SMS Reporting
- Call Divert
- Email Reporting
- Network Settings
- Feature List
- Outputs
- IP Reporting**

Serial Number:

yyyyyyyyyyyy

Receiver IP Addr:

0.0.0.0

Base Port:

10275

Reporting Selector:

<input checked="" type="checkbox"/> Alarms	<input checked="" type="checkbox"/> Restores	<input checked="" type="checkbox"/> Open/Close	<input checked="" type="checkbox"/> Bypass
<input checked="" type="checkbox"/> Zone Troub	<input checked="" type="checkbox"/> Power Troub	<input checked="" type="checkbox"/> Tamper	<input checked="" type="checkbox"/> Test Rept
<input checked="" type="checkbox"/> System Troub	<input checked="" type="checkbox"/> Report Fail	<input checked="" type="checkbox"/> Sensor Troub	<input checked="" type="checkbox"/> Prog Mode
<input checked="" type="checkbox"/> Cancel	<input checked="" type="checkbox"/> Recent Close	<input checked="" type="checkbox"/> Reserved	<input checked="" type="checkbox"/> Reserved

Save Config

NOT CURRENTLY SUPPORTED

Worksheets

Feature 1 - ComNav Features

Option 1 is used to set the zone-doubling feature. This feature will allow the two onboard zones to double to four zones. Please refer to feature 18 for starting zone number. If this feature is unselected, both onboard zones remain as single end of line zones and require 3K3 resistors.

When Zone doubling is enabled
Lower zones = 3K7
Higher zones = 6K9

Option 2. Answering machines usually answer calls after a long ring period. This segment is used to set the answering machine defeat feature and enable a connection to the ComNav before the answering machine answers the incoming call. When answering machine defeat is enabled, accessing the ComNav remotely is accomplished by calling the phone number the ComNav is connected to and allowing it to ring once or twice, then hanging up. Wait 10 seconds. Then calling back the ComNav, which will now answer the next incoming call. The second call must be made within 60 seconds of the first call.

Segments 2 & 3 are reserved

Segment 1	
(1)	Zone doubling
(2)	Answering machine defeat
(3)	Reserved
(4)	Reserved
(5)	Reserved
(6)	Reserved
(7)	Reserved
(8)	Reserved
Segment 2	Reserved
Segment 3	Reserved

Feature 2 - Number of Rings

Feature 2 contains the number of rings the ComNav must detect before answering the telephone line when initiating a communication session. A value of 1 – 15 can be entered in this segment.

Segment 1	
-----------	--

Feature 3 - Dial Attempts

Feature 3 is used to enter the number of dial attempts the ComNav will make before ending the communication session. A value from 1 – 15 may be used, and the default is 6.

Segment 1	6
-----------	---

Feature 4 - Voice Reporting Features

Event Selection for all Voice dialing numbers

Segment 1

(1)	Alarms
(2)	Alarm Restores
(3)	Open / Close (alarm system disarmed = Open, alarm system armed = close.
(4)	Zone Bypass and restores
(5)	Zone Trouble and restores
(6)	Power Trouble and restores (AC Failure or Low Battery)
(7)	Tamper and restores (Zones, Box, Code Pad and Zone Activity Monitor)
(8)	Test Reports

Segment 2

(1)	System Trouble and restores (Siren, Phone, Expander, Short Circuit)
(2)	Failure to Communicate
(3)	Sensor Lost or Sensor Low Battery
(4)	Program mode, Download and Log Full (full log must be enabled in system options)
(5)	Cancel Code (cancel reporting must be enabled in area options)
(6)	Recent Closing, Exit Error
(7)	Reserved
(8)	Reserved

Feature 5 - Alarm Phone Number One (1)

The first voice message phone number is programmed in feature 5

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 6 - Alarm Phone Number Two (2)

The second voice message phone number is programmed in feature 5

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 7 - Alarm Phone Number Three (3)

The third voice message phone number is programmed in feature 5

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Note: If multiple phone numbers are entered, the ComNav will call each number in turn until it is answered or the designated number of dial attempts set in Feature 3 has been reached. The ComNav will first call phone number 1, wait 25 seconds for a PIN to be entered, if not entered it will hang up for 6 seconds, then call phone number 2 and repeats this process for phone number 3.

Feature 8 - SMS server number

The in-dial number of the SMS server (125107)

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 9 - SMS Phone Number One (1)

The first SMS phone number is programmed in feature 9

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 10 - SMS Event Select for SMS phone number One (1)

Event selection for SMS phone number 1

Segment 1	
(1)	Alarms
(2)	Alarm Restores
(3)	Open / Close (alarm system disarmed = Open, alarm system armed = close.
(4)	Zone Bypass and restores
(5)	Zone Trouble and restores
(6)	Power Trouble and restores (AC Failure or Low Battery)
(7)	Tamper and restores (Zones, Box, Code Pad and Zone Activity Monitor)
(8)	Test Reports
Segment 2	
(1)	System Trouble and restores (Siren, Phone, Expander, Short Circuit)

(2)	Failure to Communicate
(3)	Sensor Lost or Sensor Low Battery
(4)	Program mode, Download and Log Full (full log must be enabled in system options)
(5)	Cancel Code (cancel reporting must be enabled in area options)
(6)	Recent Closing, Exit Error
(7)	Reserved
(8)	Reserved

Feature 11 - SMS Phone Number Two (2)

The second SMS phone number is programmed in feature 11

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 12 - SMS Event Select for SMS phone number Two (2)

Event selection for SMS phone number 2

Segment 1	
(1)	Alarms
(2)	Alarm Restores
(3)	Open / Close (alarm system disarmed = Open, alarm system armed = close.
(4)	Zone Bypass and restores
(5)	Zone Trouble and restores
(6)	Power Trouble and restores (AC Failure or Low Battery)
(7)	Tamper and restores (Zones, Box, Code Pad and Zone Activity Monitor)
(8)	Test Reports
Segment 2	
(1)	System Trouble and restores (Siren, Phone, Expander, Short Circuit)
(2)	Failure to Communicate
(3)	Sensor Lost or Sensor Low Battery
(4)	Program mode, Download and Log Full (full log must be enabled in system options)
(5)	Cancel Code (cancel reporting must be enabled in area options)
(6)	Recent Closing, Exit Error
(7)	Reserved
(8)	Reserved

Feature 13 - SMS Phone Number Three(3)

The third SMS phone number is programmed in feature 13

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 14 - SMS Event Select for SMS phone number Three (3)

Event selection for SMS phone number 3

Segment 1	
(1)	Alarms
(2)	Alarm Restores
(3)	Open / Close (alarm system disarmed = Open, alarm system armed = close.
(4)	Zone Bypass and restores
(5)	Zone Trouble and restores
(6)	Power Trouble and restores (AC Failure or Low Battery)
(7)	Tamper and restores (Zones, Box, Code Pad and Zone Activity Monitor)
(8)	Test Reports
Segment 2	
(1)	System Trouble and restores (Siren, Phone, Expander, Short Circuit)
(2)	Failure to Communicate
(3)	Sensor Lost or Sensor Low Battery
(4)	Program mode, Download and Log Full (full log must be enabled in system options)
(5)	Cancel Code (cancel reporting must be enabled in area options)
(6)	Recent Closing, Exit Error
(7)	Reserved
(8)	Reserved

Feature 15 - Divert Phone Number One (1)

The first Divert phone number is programmed in feature 15

A call divert phone numbers will be dialed when a call is initiated from an outdoor station. The outdoor station must be interfaced with the Hills Reliance security system via the ComNav. The Hills Reliance security system must also be in the armed condition

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 16 - Divert Phone Number Two (2)

The second Divert phone number is programmed in feature 16

A call divert phone numbers will be dialed when a call is initiated from an outdoor station. The outdoor station must be interfaced with the Hills Reliance security system via the ComNav. The Hills Reliance security system must also be in the armed condition

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 17 - Divert Phone Number Three (3)

The third Divert phone number is programmed in feature 17

A call divert phone numbers will be dialed when a call is initiated from an outdoor station. The outdoor station must be interfaced with the Hills Reliance security system via the ComNav. The Hills Reliance security system must also be in the armed condition

15 = Pulse dialing – in the segment where pulse dialing should begin

14 = Indicates the end of the phone number

13 = Creates a four second delay

12 = #

11 = *

Segments 1-20	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
---------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Feature 18 - Zone Starting Number

Feature 18 is used to enter the starting zone number of the additional zones on the ComNav. The two zones can also be zone doubled, please refer to feature 1 to enable the zone doubling feature.

Data	Zones	Data	Zones	Data	Zones	Data	Zones
9 =	9 - 12	41 =	41 - 44	73 =	73 - 76	105 =	105 - 108
17 =	17 - 20	49 =	49 - 52	81 =	81 - 84	113 =	113 - 116
25 =	25 - 28	57 =	57 - 60	89 =	89 - 92	121 =	121 - 124
33 =	33 - 36	65 =	65 - 68	97 =	97 - 100		

Note: Additional zones are only available on the R128 and R12 panels (also NX12 and NX16).

As R12 (and NX12) can only expand to a maximum of 16 zones,

only option 9 is available (zones 9 – 12)

This feature is not available for NX4, NX8 or R8 panels.

Segment 1	
-----------	--

Feature 19 - IP Feature Options

Feature 19 is used to set required network settings.

Enable DHCP: DHCP or Dynamic Host Configuration Protocol, is a computer network protocol used by devices to obtain configuration information for operation in an Internet Protocol network. This protocol reduces system administration workload, allowing networks to add devices with little or no manual intervention.

Enable SSL: or Secure Sockets Layer, is a security protocol for communications over networks such as the Internet. If SSL is selected your URL will begin with *https*: instead of *http*:. SSL port is defaulted to port 443, however is selectable from the SSL port window from within the web interface. If SSL is not enabled, ComNav operates on port 80, and is non selectable.

Enable Ping in the run mode: The “ping” command is always functional whilst the ComNav is in program mode and is defaulted to NOT operate whilst the ComNav is in the normal run mode. Enable this option to allow the ComNav to respond to “ping” commands in normal operation. For security reasons it is recommended this option remain disabled during normal operation.

Enable Web page updates without a login: When enabled, allows updating of the ComNav Configuration Server's web pages via FTP. Normally disabled.

Enable periodic update of clock via internet: The ComNav will check its internal and use the internet to compare it against GMT time. This is done every 15min and will update itself if the variance is greater than 3 minutes.

Enable Web programming: When enabled, access to Network settings, Feature list, Outputs and IP reporting via the ComNavs web pages is granted, other wise the ComNav will need to be in program mode to access these additional features.

Enable Hills protocol server: This protocol is disabled by default, but is active for the first 5min after power up. Allows devices such as iPhones and UHS devices to communicate with the ComNav via Hills protocols.

Segment 1	
(1)	Enable DHCP
(2)	Enable SSL
3	Enable Web page updates without a login
4	Enable Ping in run mode
5	Enable periodic update of clock via internet
6	Enable Web programming of Network settings, Feature list, Outputs and IP reporting without ComNav needing to be in program mode
7	Enable Hills protocol server
8	Reserved
Segment 2	Reserved

Feature 20 - IP Gateway

The 4 segments in feature 20 are used to set the IP address of the networks gateway.

In homes, the gateway is usually the Internet Service Provider (ISP) device that connects the user to the internet, such as a DSL or cable modem.

In an enterprise system, the gateway is the node that routes the traffic from a workstation to another network segment. The default gateway is commonly the node connecting the internal networks and the outside network (Internet).

Segments 1 - 4				
----------------	--	--	--	--

Feature 21 - ComNav IP Address

The 4 segments in feature 21 are used to set the IP address of the ComNav so as it can be identified on the network.

Segments 1 - 4				
----------------	--	--	--	--

Feature 22 - Subnet Mask

The 4 segments in feature 22 are used to set the Subnet mask.

Segments 1 - 4				
----------------	--	--	--	--

Feature 23 - DNS Server 1

The 4 segments in feature 23 are used to set the networks DNS server address.

Segments 1 - 4				
----------------	--	--	--	--

Feature 24 - DNS Server 2

The 4 segments in feature 24 are used to set the networks DNS server address.

Segments 1 - 4				
----------------	--	--	--	--

Feature 25 - UHS Client server IP address

The 4 segments in feature 21 are used to set the IP address of the ComNav so as it can be identified on the network by the UHS ultra agent.

Segments 1 - 4				
----------------	--	--	--	--

Feature 26 - UHS Client reporting selections

Event selection for UHS client reporting

Segment 1	
(1)	Alarms
(2)	Alarm Restores
(3)	Open / Close (alarm system disarmed = Open, alarm system armed = close.
(4)	Zone Bypass and restores
(5)	Zone Trouble and restores
(6)	Power Trouble and restores (AC Failure or Low Battery)
(7)	Tamper and restores (Zones, Box, Code Pad and Zone Activity Monitor)
(8)	Test Reports
Segment 2	
(1)	System Trouble and restores (Siren, Phone, Expander, Short Circuit)
(2)	Failure to Communicate
(3)	Sensor Lost or Sensor Low Battery
(4)	Program mode, Download and Log Full (full log must be enabled in system options)
(5)	Cancel Code (cancel reporting must be enabled in area options)
(6)	Recent Closing, Exit Error
(7)	Reserved
(8)	Reserved

System Status Messages Table

<i>Zone Number / Zone Name</i>
<p><i>In Alarm</i> – This zone has triggered a system alarm condition</p> <p><i>Is bypassed</i> – This zone is isolated (disabled) and will not activate an alarm</p> <p><i>Chime is set</i> – This zone is part of the chime group</p> <p><i>Is not secure</i> – This zone is not closed</p> <p><i>Fire alarm</i> – This zone has triggered a fire alarm</p> <p><i>Tamper</i> – This zone has triggered a tamper alarm</p> <p><i>Trouble fault</i> – This zone has an open circuit</p> <p><i>Loss of wireless supervision</i> – This zone is a wireless device and has lost its communication link with the control panel</p> <p><i>Low battery</i> – This zone is a wireless device and needs its battery changed</p>
<i>Area Number / Area Name</i>
<p><i>Is On in the away mode</i> – This area is armed in the away mode</p> <p><i>Is On in the stay mode</i> – This area is armed in the stay mode</p> <p><i>Is ready</i> – This area is secure and ready to be armed</p> <p><i>Is not ready</i> – This area is NOT ready to be armed, a zone is not secure</p> <p><i>All areas are on in the away mode</i> – All areas in this multi partition system are armed in the away mode</p> <p><i>All areas are on in the stay mode</i> – All areas in this multi partition system are armed in the stay mode</p> <p><i>All areas are ready</i> – All areas in this multi partition system are secure and ready to be armed</p>
<i>System</i>
<p><i>AC power fail</i> – The security system has lost its electricity power</p> <p><i>Low battery</i> – The security systems back up battery requires charging</p> <p><i>Battery test fail</i> – The security systems back up battery requires changing</p> <p><i>Box tamper</i> – The security systems cabinet tamper input has activated</p> <p><i>Siren trouble</i> – The security systems external siren has a problem</p> <p><i>Over current</i> – The security system is drawing too much current</p> <p><i>Time and date loss</i> The security system time and date need resetting</p> <p><i>Communication fault</i> – The security system has detected a problem with the phone line</p>
<i>Expander</i>
<p><i>Low battery</i> – A remote power supply's back up battery requires charging</p> <p><i>AC power fail</i> – A remote power supply has lost its electricity power</p> <p><i>Box tamper</i> – An expanders cabinet tamper input has activated</p>

Code Pad

Fire alarm – A fire alarm has been activated at the code pad

Panic – A panic alarm has been activated at the code pad

Medical – A medical alarm has been activated at the code pad



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