



CODAN

## HF RADIO COMMUNICATIONS

# NGT System Programmer



# User Guide

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# 1 About this guide

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This guide describes how to use the NGT System Programmer (NSP) to program an NGT series Transceiver system or a 2110 series Manpack Transceiver. It assumes that you are familiar with Microsoft Windows® 2000 or later.

## **This guide contains the following topics:**

- Section 1**    [About this guide](#)—explains the terms and abbreviations used in this guide, and describes the components of the NSP window
- Section 2**    [The NGT System Programmer](#)—provides an overview of NSP and its uses
- Section 3**    [Getting started](#)—describes installing, upgrading, starting and exiting NSP
- Section 4**    [Working with profiles](#)—describes profiles and how to open, close, create, edit, save, export, load, compare, program and print profiles
- Section 5**    [Working with lists](#)—describes lists, how to open and edit lists, and how to find entries within lists
- Section 6**    [The Channel List](#)—describes the Channel List, how to create and edit entries, how to use the Channel Clipboard, and how to import channel lists
- Section 7**    [The Network List](#)—describes the Network List, and how to create and edit entries
- Section 8**    [The NET List](#)—describes the NET List, and how to create and edit entries
- Section 9**    [The Phone Link List](#)—describes the Phone Link List, and how to create and edit entries
- Section 10**    [The Address List](#)—describes the Address List, and how to create and edit entries
- Section 11**    [The Control List](#)—describes the Control List, and how to edit entries

- Section 12    [The Keypad List](#)—describes the Keypad List, assigning macros to keys, and how to move macros between profiles
- Section 13    [The Mode List](#)—describes the Mode List
- Section 14    [Access rights](#)—describes access rights and their uses, and how to apply them to lists, entries and fields
- Section 15    [Upgrading firmware](#)—describes upgrading firmware in NGT series devices and the 2110 series Manpack Transceiver
- Section 16    [Preferences](#)—describes the preferences available in NSP

There is an index at the end of this guide.


# Standards and icons

The following standards and icons are used in this guide:

<b>This typeface</b>	<b>Means...</b>
----------------------	-----------------

<i>Italic</i>	a cross-reference or text requiring emphasis
<b>Bold</b>	a key that you press on a computer keyboard, or a filename
<b>Bold</b>	a window or menu name, a menu option, software button, or a status message





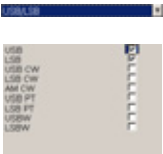
<b>This icon</b>	<b>Means...</b>
------------------	-----------------

	a step within a task
NOTE	the text provided next to this icon may be of interest to you
CAUTION	proceed with caution as your actions may lead to loss of data, privacy or signal quality

# Components of NSP windows

Table 1 shows the components of NSP windows and their functions.

Table 1: Components of NSP windows

Component	Example	Function
Minimise button		Reduces NSP to an icon on the Windows® Start bar.  To restart NSP, click on the NSP icon.
Close button		Exits NSP.  The <b>Close</b> button for a list is only visible when the lists are cascaded or tiled. The <b>Close</b> button is used to close the list that is currently open.
Maximise button		Maximises the NSP window if it has been restored down.  The <b>Maximise</b> button for a list is used to maximise the list if it is cascaded. A maximised list fills the NSP window.
Restore Down button		Reduces the NSP window in size.
Drop list		A drop list contains a set of choices. Click on the down arrow to see the choices available to you, and select the choice you want by clicking on it. If there is a check box, select the choice by clicking on the check box.



## Buttons on the toolbar

Table 2 shows the buttons on the toolbar. The toolbar is enabled by default in NSP.

Table 2: Toolbar buttons











Buttons	Example	Function
New Profile		Prompts you to select a transceiver type, then opens a profile for that transceiver.
Open		Enables you to open a saved profile.
Save		Saves the current profile if you have made changes. If the <b>Save</b> button is greyed out, you have already saved the last changes you made.
Print		Prints the lists in the current profile.
Print Preview		Displays a preview of the lists in the current profile.
Cut		Removes the selected item from the list and places it on the clipboard. To undo the cut, paste the item back into the list.
Copy		Copies the selected item to the clipboard.
Paste		Pastes the item from the clipboard to the currently selected list.
Find		Enables you to enter the name of the entry for which you want to search.
First		Goes to the first entry in the current list.

Table 2:     Toolbar buttons (cont.)


















Buttons	Example	Function
Prior		Goes to the previous entry in the current list.
Next		Goes to the next entry in the current list.
Last		Goes to the last entry in the current list.
Delete		Deletes the selected entry. This cannot be undone.
Cascade		Resizes the list windows and cascades them within the NSP window.
Tile Horizontally		Displays the open lists down the screen.
Tile Vertically		Displays the open lists across the screen.
Zoom to fit		Zooms the report to fit the entire page in the Print Preview window.
100%		Zooms the report to 100% in the Print Preview window.
Zoom to width		Zooms the report to fit the page width in the Print Preview window.
First page		Goes to the first page in the report generated using Print Preview.
Previous page		Goes to the previous page in the report generated using Print Preview.

Table 2:     Toolbar buttons (cont.)

Buttons	Example	Function
Next page		Goes to the next page in the report generated using Print Preview.
Last page		Goes to the last page in the report generated using Print Preview.
Printer setup		Shows a standard Windows® print setup window.
Save report		Saves the current report that you have generated using Print Preview.
Load report		Enables you to open a saved report file that was generated using Print Preview.

# Definitions

## Acronyms and abbreviations

<b>This term...</b>	<b>Means...</b>
AH	administrator hidden
AL	administrator locked
AM	amplitude modulation
AMD	automatic message display
CIB	Codan interconnect bus
ESN	electronic serial number
HF	high frequency
LBT	listen before transmit
LED	light-emitting diode
LQA	link quality analysis
LSB	lower sideband
LU	choice of upper or lower sideband
NSP	NGT System Programmer
PC	personal computer
PIN	personal identification number
PTT	press-to-talk
Rx	receive
SB	sideband
SSB	single sideband
TDM	time division multiplex

<b>This term...</b>	<b>Means...</b>
Tx	transmit
UH	user hidden
UL	user locked
USB	upper sideband
XP	X series transceiver programmer

## Glossary

<b>This term...</b>	<b>Means...</b>
access rights	Restrictions you can place on fields, entries and lists to prevent them from being displayed and/or changed by users or administrators.
address	The HF transceiver equivalent of a telephone number. Your station address is used by other stations to call you, and it is sent when you make calls to identify you as the caller. It is sometimes referred to as an ID, a station ID or a self ID.
Address List	A list that stores names and addresses of stations and other relevant information to enable the user to quickly and easily call other stations.
ALE/CALM call system	A call system where the user enters the address of the station they want to call, the transceiver automatically selects the best channel on which to make the call, and an alarm sounds at the receiving station to alert the station to the call.

<b>This term...</b>	<b>Means...</b>
call system	A method of making a call from a transceiver. For example, in the ALE/CALM call system, the transceiver automatically selects the channel on which to make a call. In a Codan Selcall call system, the user must select a channel.
call type	<p>A type of call that can be made from a transceiver. The call types available depend on the type of transceiver, and the options installed within the transceiver.</p> <p>The call types are: Channel Test, Emergency, Get Position, Get Status, Marine Emgcy, Message, Phone, RFDS Emgcy, Selective and Send Position.</p> <p>If you have the MIL-STD-188-141B ALE option installed, the special ALE address syntaxes enable ALL, ANY, Group Selective, NET, and Wildcard calls to be made through the Emergency, Message, Phone, Selective, and Send Position call types.</p>
call detect time	The length of time during scanning that the transceiver pauses on each channel in order to detect an incoming call. It is the inverse of the scan rate.
channel	A frequency range programmed in the transceiver to transmit and receive signals on air.
Channel Clipboard	A temporary list in which you can store channels while you set up a Channel List.
Channel List	A list that stores names, frequencies and modes of channels used to make calls.

<b>This term...</b>	<b>Means...</b>
Codan interconnect bus	The CIB is a proprietary Codan specification that uses a digital bus protocol and TDM audio bus to connect and communicate between Codan products that include a junction box or split-site interface controller.
Codan Selcall call system	A call system where the user enters the address of the station they want to call and selects the channel on which to make the call, and an alarm sounds at the receiving station to alert the station to the call.
Control List	A list that the system administrator sets up to control the way a transceiver operates.
control point	The devices in a transceiver that are used to control the transceiver.
edit mode	The cursor is in a field and the text is not highlighted. You can backspace over characters and/or enter new text.
fixed base station	A transceiver that is permanently installed and cannot be moved without significant effort.
frequency	The number of cycles per second of a radio wave, usually expressed in kilohertz.
handset	A hand-held device for use with an NGT series Transceiver that is used to control the functions of a transceiver. It consists of a microphone, a PTT button, a display and a keypad. The standard handset for the 2110 series Manpack Transceiver does not have a display or a keypad.

<b>This term...</b>	<b>Means...</b>
front panel	The panel on the 2110 series Manpack Transceiver that is used to control the functions of the transceiver. It consists of antenna and interface connectors, a display, and a keypad.
ID	See <a href="#">address</a> .
junction box	The device in an NGT series Transceiver to which a handset, RF unit, speaker and related devices are connected. The junction box receives the instructions that a user enters through the handset and sends these instructions to the relevant devices. In NGT series Transceivers that use a 2011 or 2012 RF Unit, the junction box is not used as the handset and speaker connect directly to the supplied cable. In this case, all instructions are processed by the RF unit.
Keypad List	A list that stores information about the keys on the handset/front panel, and the events that occur when the keys are pressed.
list	A collection of settings stored in a profile that control a particular area of a transceiver's operation. For example, the settings in the Channel List control the channels to which a transceiver can tune.
manpack transceiver	A self-contained portable transceiver that uses tactical antennas and grounding systems.
mobile station	A transceiver that is installed in a vehicle.



<b>This term...</b>	<b>Means...</b>
mode	A type of reception or transmission you can use with a channel, for example, USB.
Mode List	A list that stores information on the modes that are available.
NET List	A list that stores information about the NETs to which the user belongs, other NET members, and the settings used to control each NET.
NET member address list	The list containing the self address of each member station of the NET.
network	Two or more stations that use the same frequencies and call system to communicate.
network channel list	The channels and modes used by a network to communicate.
Network List	A list that stores information about the networks a user is in, and the channels and call systems used by each network.
Phone Link List	A list that stores details of telecommunication stations a user needs to contact in order to make telephone calls from their transceiver.
profile	A file that contains all the settings that a system administrator can change to control the way a transceiver operates. The settings are organised into groups called lists.

<b>This term...</b>	<b>Means...</b>
PTT button	Press-to-talk button, located on the left side of the handset. This button enables you to communicate during voice calls, switch mute off, cancel voice calls prior to the point where voice can be transmitted, cancel calls where data is being transmitted, and cancel out of editable screens without saving changes.
replace mode	The text in a field is highlighted and the entire field of text is replaced when you start typing.
RF unit	The device in an NGT series Transceiver that modulates audio signals onto radio frequencies that can be transmitted on air, and that demodulates the radio frequencies it receives into audio signals.
scan rate	See <i><a href="#">call detect time</a></i> .
Selective call	A call addressed to a specific station.
self ID	See <i><a href="#">address</a></i> .
slot width	The length of time during which a member station of a NET may respond to a NET call. The width depends upon settings within the NET List, that is, the length of member addresses, whether the exchange of LQA is on or off, and whether the slot width is set to fixed or variable.

This term...	Means...
split-site interface controller	The device in a split-site remote control system to which an 8571 NGT Split-site Remote Control Interface and NGT transceiver system connect. It translates CIB data and audio from the NGT transceiver system into a form that suits the 8571 NGT Split-site Remote Control Interface.
station	A power supply, a transceiver, an antenna and appropriate connecting cables.
station ID	See <a href="#">address</a> .
transceiver	An RF unit, handset, speaker, and appropriate connecting cables. The NGT <i>AR</i> , <i>SR</i> , <i>VR (2010)</i> , and <i>ASR</i> Transceivers also include a junction box.
transceiver unit	The device in a 2110 series Manpack Transceiver that modulates audio signals onto radio frequencies that can be transmitted on air, and that demodulates the radio frequencies it receives into audio signals.
Voice call system	A call system where the user selects the channel on which to make a call, <i>holds down</i> PTT, then speaks. For use in networks intended to be scanned for voice only.

# Units

Measurement	Unit	Abbreviation
Frequency	hertz	Hz
Voltage	volt	V
Distance	metre	m

# Unit multipliers

Unit	Name	Multiplier
M	mega	1 000 000
k	kilo	1 000
d	deci	0.1
m	milli	0.001

# About this issue

This is the first issue of the NGT System Programmer User Guide. It describes NSP V5.00 or later.

## Associated documents

This document is one in a series of documents associated with Codan HF transceivers. For more information on settings and operating the transceiver, see the documentation provided with the transceiver.

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## 2 The NGT System Programmer

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The NGT System Programmer is a software program that enables you to modify, via a serial port, the settings of any software-configurable NGT series Transceiver and 2110 series Manpack Transceiver. The NGT series Transceiver includes the 2010 RF Unit with the 2030 Junction Box, the 2011 RF Unit, and the 2012 RF Unit. It is used by anyone who needs to configure or reconfigure transceiver information, Codan agents and field service personnel. In this guide, the NGT System Programmer is referred to as NSP.

Using NSP, you can modify channels, modes, networks, NET information, station addresses, phone link information, hot key settings and control settings in NGT series Transceivers and 2110 series Manpack Transceivers.

You can also use it to:

- print a report of the settings in a transceiver system
- store the settings for a transceiver system in NSP using an electronic file
- compare the settings in a transceiver system with those in NSP
- import Codan XP channel list files into NGT series and 2110 series Channel Lists
- load profiles from transceiver systems and edit them
- program an entire transceiver system

## **Lists**

In an NGT series Transceiver and a 2110 series Manpack Transceiver, the settings that control the operation of the transceiver are organised into lists. The lists are stored in various devices throughout the NGT series Transceiver or in the 2110 series Manpack Transceiver.

There are eight lists:

- Address List
- Channel List
- Control List
- Keypad List
- Mode List
- NET List
- Network List
- Phone Link List



Each list stores information related to a particular area of the system's operation:

- The Address List stores names and addresses of stations and other relevant information to enable the user to quickly and easily call other stations.
- The Channel List stores names, frequencies and modes of channels used to make calls.
- The Control List stores settings the system administrator sets up to control the way a transceiver operates (for example, passwords and the time and date).
- The Keypad List stores information about the keys on the handset/front panel, and the events that occur when the keys are pressed.
- The Mode List stores information on the modes that are available.
- The NET List stores information about the NETs to which the user belongs, self addresses of other NET members, and the settings used to control each NET.
- The Network List stores information about the networks a user is in, and the channels and call systems used by each network.
- The Phone Link List stores details of telecommunication stations the user needs to contact in order to make telephone calls from their transceiver.

Each list contains entries. The entries in the Address List provide a quick method of making calls to frequently called stations. The entries in the Channel List are the channels the user can select.

Each entry consists of an entry name and one or more settings. The entry name is a unique name that distinguishes the entry from others in the list. For example, 'Chan 1' and 'Chan 2' in the Channel List, and 'Home', 'Work' and 'Headquarters' in the Address List.

When you open a list in NSP, the entries are displayed. The first field of each entry is the entry name. The remaining fields are the settings for the entry (see [Figure 1 on page 26](#)).

## Profiles

The collection of lists used to configure a transceiver system is called a profile.

NSP is installed with default profiles: one for each type of transceiver.

The operations you can perform with profiles are:

- opening an existing profile
- editing a profile
- saving a profile
- programming a profile to a transceiver
- comparing a profile in NSP with a profile in a transceiver
- loading a profile from a transceiver
- deleting a profile

# 3 Getting started

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**This section contains the following topics:**

[Installing and upgrading NSP \(24\)](#)

[Starting NSP \(25\)](#)

[Features of the NSP window \(26\)](#)

[Customising NSP \(27\)](#)

[Shortcuts in NSP \(28\)](#)

[Viewing the devices connected to an NGT series Transceiver \(30\)](#)

[Exiting NSP \(31\)](#)

# Installing and upgrading NSP

Use the following steps to install or upgrade NSP in Windows<sup>®</sup> 2000, XP, or Vista.

**CAUTION** Before beginning to upgrade NSP, back up all of the existing profiles that you wish to keep. You are prompted to uninstall the old version of NSP before installing the new version.

**NOTE** If you are upgrading NSP, profiles that have been created and saved under \NSP\Profiles are not removed during the uninstall process. These files can be used with the new installation.

**CAUTION** Default profiles, for example AR.nsp, are overwritten with new default profiles during installation of a new version of NSP.

To install or upgrade NSP:

- ☐ Insert the NSP CD into the CD drive.

An introductory window is displayed.

- ☐ Click on **Install NSP**.

If the NSP installer does not start automatically, locate and double-click the **Setup.exe** file found at the root of the CD.

- ☐ Complete the installation by following the on-screen instructions.

# Starting NSP

To start NSP:

- ❑ Double-click on the NSP icon on the desktop, or navigate to the program folder in which the NSP icons are stored, then double-click on the NSP icon.

NSP creates a new, unnamed profile for the transceiver type selected in the preferences (see [page 139, \*Selecting the transceiver type\*](#)), and displays the Channel List of this profile on the main NSP window.

**NOTE** You can only run one copy of NSP at a time. If you try to run a second copy, the first copy is displayed.

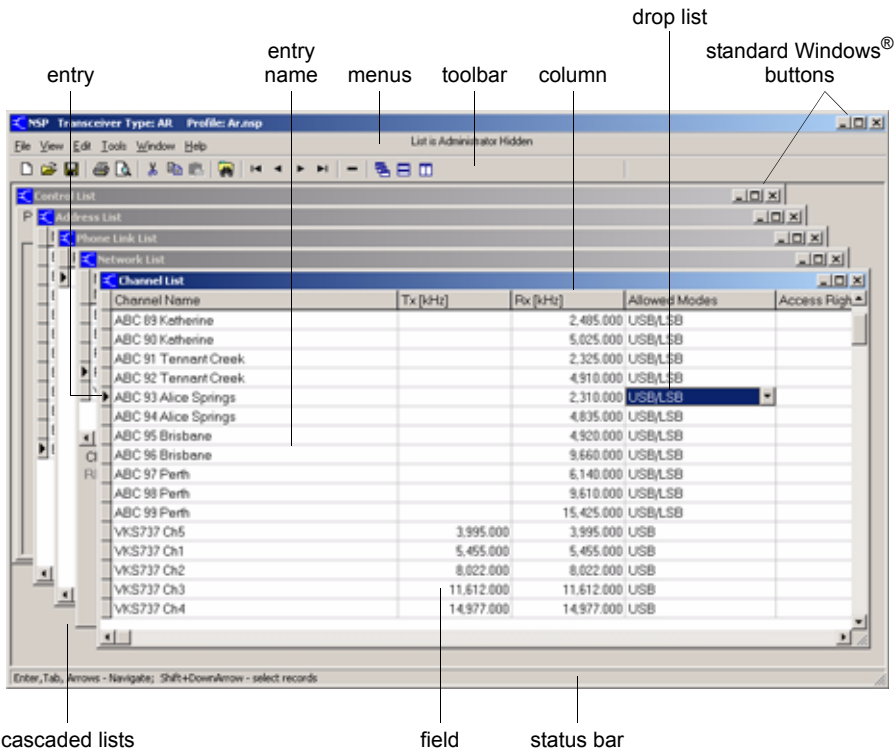
- ❑ Do one of the following:
  - To create a new profile for the transceiver type displayed, enter channels into the Channel List, or open any of the lists in the profile (for help see [page 56, \*Opening a list\*](#)).
  - To create a profile for a different transceiver type see [page 37, \*Creating a new profile\*](#).
  - To open the default profile for a different transceiver type, from the **File** menu, select **Open (Ctrl+O)** (for help see [page 35, \*Opening a profile\*](#)).

**NOTE** You can change the default transceiver profile used by NSP when the program starts up (see [page 139, \*Selecting the transceiver type\*](#)).

# Features of the NSP window

Figure 1 shows the features of the NSP window. For descriptions of the buttons in the NSP window see [Table 1 on page 4](#) and [Table 2 on page 5](#).

Figure 1: Features of the NSP window



## Menus

All the tasks that you can perform in NSP are listed under the six menu headings across the top of the NSP window. The keyboard shortcuts available are listed beside the name of the menu option (see [Table 3 on page 29](#)).

# Customising NSP

The NSP window can be customised for:

- ease of access to frequently used toolbar buttons
- changes to column widths so that all the information for a list is visible on the screen at the same time

For information on changes to the default operation of NSP see [page 137](#), *Preferences*.

## Enabling/disabling the toolbar

The toolbar is displayed by default. You can perform all basic operations using the toolbar including cutting, copying and pasting (see [Table 2 on page 5](#)).

To enable/disable the toolbar:

- ☐ From the **View** menu, select **Preferences...**
- ☐ Select the **General** tab and select/deselect **Enable toolbar**.

NOTE

Shortcut: right-click on the toolbar and select **Toolbar**.

## Changing the width of columns

The width of columns in all NSP lists (except the Control List) can be changed.

To change the column width:

- ☐ Click and hold on the line to the right of the title in the column you want to change.
- ☐ Drag the cursor to the right or left to increase or decrease the width of the field.

# Shortcuts in NSP

## Toolbar buttons

[Table 2 on page 5](#) describes all the buttons available on the toolbar.

## Pop-up menu

**NOTE** A pop-up menu is not available in the Keypad List or the Control List.

Right-clicking anywhere in a list displays a pop-up menu. The pop-up menu provides shortcuts for:

- cutting entries
- copying entries
- pasting entries
- deleting entries
- selecting all entries in a list



## Keyboard shortcut keys

[Table 3](#) lists all the keyboard shortcut keys available in NSP.

Table 3:      Shortcut keys

Function	Shortcut keys
New	Ctrl+N
Open	Ctrl+O
Save	Ctrl+S
Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V
Delete	Ctrl+D
Select All	Ctrl+A
Find	Ctrl+F

## Viewing the devices connected to an NGT series Transceiver

NOTE Only NGT series Transceivers that use a 2010 RF Unit with a 2030 Junction Box can support devices connected via the CIB.

To view the devices connected to an NGT series Transceiver:

- ☐ Set up your NGT series Transceiver to operate with a PC running NSP (see [page 39, Using NSP and a transceiver to work with profiles](#)).
- ☐ From the **View** menu, select **System View...**

This displays a list of the devices you have connected to the CIB in your NGT series Transceiver system.

NOTE If you want to display the properties of a device, select the device, then right-click on the device name to display the pop-up menu. Select **Properties...** You can rename the device if required.

NOTE You can view the ESN of a device by placing the mouse pointer over the device name in the **CIB Devices** window. The ESN is displayed in the status bar.

# Exiting NSP

To exit NSP:

- ☐ Do one of the following:
  - From the **File** menu, select **Exit**.
  - Click on the **Close** button.

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## 4 Working with profiles

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**This section contains the following topics:**

[What is a profile? \(34\)](#)

[Opening a profile \(35\)](#)

[Closing a profile \(36\)](#)

[Creating a new profile \(37\)](#)

[Saving a profile \(38\)](#)

[Using NSP and a transceiver to work with profiles \(39\)](#)

[Loading a profile from a transceiver \(42\)](#)

[Programming a transceiver \(45\)](#)

[Comparing a profile in NSP with a profile in a transceiver \(48\)](#)

[Print previewing and printing a profile \(50\)](#)

[Copying, moving or deleting a profile \(53\)](#)

## What is a profile?

A profile is a file that contains all the user-definable settings that control a transceiver system. The settings are organised into lists within the profile. A basic transceiver profile contains Channel, Network, Phone Link, Address, Control, Keypad, and Mode information. Profiles that use the MIL-STD-188-141B ALE option may include NET information.

## Opening a profile

Only one profile may be open in NSP at a time. When a profile is open, the name of the profile is displayed at the top of the main window. If you try to create, open or load a profile while another is open, NSP prompts you to save your changes if you have not already done so. It then closes the profile and creates, opens or loads the next one.

### NOTE

At NSP V4.00, the functionality of the Selcall Lockout entry in the Control List moved to the Cfg LBT Mode entry. If you use NSP V4.00 or later to open a profile created in an earlier version of NSP, the Selcall Lockout entry is renamed to Cfg LBT Mode when the profile is programmed to a transceiver with firmware V4.00 or later.

A default profile for each transceiver type is provided at C:\Program Files\Codan\NSP\Profiles if the default path was used during installation.

To open a profile:

- ☐ From the **File** menu, select **Open (Ctrl+O)**.
- ☐ Select the profile you want to open, then click **OK**.

### NOTE

Shortcut: double-click on the profile.

### CAUTION

If the profile that you are opening was created in an earlier version of NSP, you are notified of this. Any new configuration items added in the later version of NSP are set to their default value.

The Channel List for the profile is displayed.

## Closing a profile

To close a profile:

- From the **File** menu, select **Close**.

**NOTE** If you use the **Close** option in the **File** menu, NSP prompts you to select a transceiver type and creates a new profile for the transceiver selected.

**NOTE** Closing all the open windows of an existing profile does *not* close the profile.



## Creating a new profile

To create a new profile:

- ☐ From the **File** menu, select **New (Ctrl+N)**.
- ☐ From the **Select Transceiver Type** window, select the type of transceiver for which you want to create a profile.
- ☐ Click **OK**.

NSP creates a new, unnamed profile for the type of transceiver you selected and displays the Channel List for the profile.

**NOTE** If you want all new profiles to automatically default to your transceiver type see [page 139, \*Selecting the transceiver type\*](#).

## Saving a profile

Profiles are saved in the NSP folder.

**NOTE** When you save a profile, type the name of the profile only. Do not specify a path and folder.

**CAUTION** Do not overwrite or modify the default profiles provided in NSP. For example, save the default profile SR.nsp as SR\_Mob1.nsp before making any changes.

To save a profile in NSP:

- ☐ Do one of the following:
  - To save a profile that has been changed, from the **File** menu, select **Save (Ctrl+S)**. Type a name for the profile, then click **Save**.
  - To save a profile with a new name, from the **File** menu, select **Save As...** Type the new name for the profile, then click **Save**. This creates a new profile containing the same information.

**NOTE** When a profile is saved, *all* the lists are automatically saved.

## Using NSP and a transceiver to work with profiles

Before you load, compare or program a profile, you must connect the transceiver to a PC in which NSP has been installed, and in NSP, you must select the serial port to which the transceiver has been connected.

### Connecting a transceiver to a PC

A PC may be connected to an NGT series Transceiver (see [Figure 2](#)) or a 2110 series Transceiver (see [Figure 3](#)).

Figure 2: Connecting a PC to an NGT series Transceiver

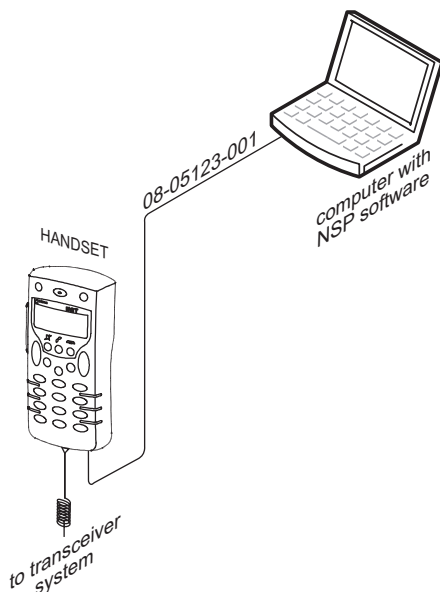
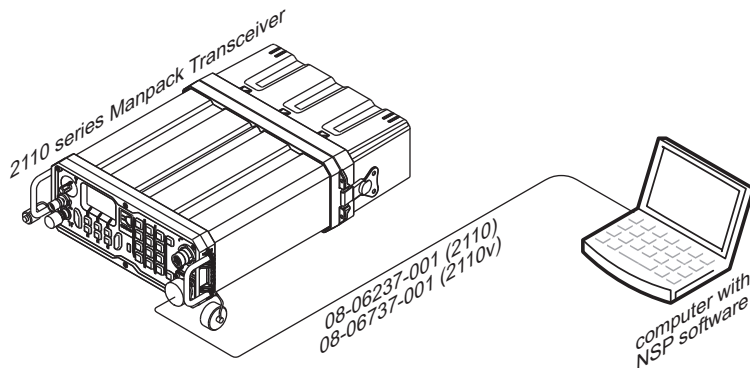


Figure 3: Connecting a PC to a 2110 series Transceiver



To connect the transceiver to the PC:

- ☐ For an NGT series Transceiver, use the programming cable (Codan part number 08-05123-001) to connect the programming jack at the base of the handset to the 9-way serial port on a PC in which NSP has been installed.
- ☐ For a 2110 Manpack Transceiver, use the programming cable (Codan part number 08-06237-001) to connect the 19-way GPIO connector on the front panel to the 9-way serial port on a PC in which NSP has been installed.
- ☐ For a 2110v Manpack Transceiver, use the programming cable (Codan part number 08-06737-001) to connect the 5-way connector on the front panel to the 9-way serial port on a PC in which NSP has been installed.

## Selecting a serial port in NSP

To select a serial port:

- ☐ In NSP, from the **View** menu, select **Preferences...**
- ☐ Select the **Communications** tab.
- ☐ Select the serial port to which the transceiver has been connected.
- ☐ Click **OK**.

## Accessing the transceiver

Before you can load, compare, or program a transceiver, you may be prompted to enter the admin password for the transceiver, if one has been set. You are not able to access the transceiver if you cannot match this password. If this is the case, contact your Codan representative.

## Selecting/deselecting lists

When you load, compare or program profiles, you may want to select the lists to use in the process. If you cannot alter the selection status of a list, you may need to change the default preference for selecting lists (see [page 138, \*Selecting lists\*](#)).

To select or deselect a list when loading, comparing or programming profiles:

- ☐ Select the check box for each list you want to process.  
To deselect a list, clear the check box for the particular list.
- ☐ Click **Load**, **Compare** or **Program** as required.

## Loading a profile from a transceiver

**NOTE** Before loading a profile, set up your transceiver to operate with a PC using NSP (see [page 39, Using NSP and a transceiver to work with profiles](#)).

The profile that is loaded into NSP is a *copy* of the profile in the transceiver system.

**NOTE** The transceiver is not ‘deprogrammed’ when you load the profile from it.

If you want to save the profile in NSP, use the **Save (Ctrl+S)** or **Save As...** option in the **File** menu (see [page 38, Saving a profile](#)).

If you make changes to the profile and want to update the profile in the transceiver, use the **Program Transceiver...** option in the **File** menu (see [page 45, Programming a transceiver](#)).

**NOTE** All the lists are pre-selected and loaded by default.

**NOTE** You may need to change the default preference for selecting lists (see [page 138, Selecting lists](#)).

To load a profile from a transceiver:

- ☐ From the **File** menu, select **Load From Transceiver**.

Depending on whether or not you have stored a default admin password (see [page 141, Storing a default admin password](#)), you may be prompted to enter the admin password of the transceiver.

The transceiver type is automatically loaded from the transceiver and a new profile is created for that type.

Depending on the current preference, one of the following occurs:

- The **Start Loading** window is displayed showing the pre-selected lists that will be loaded from the transceiver.

**NOTE** You cannot change the lists that are selected. To have the option to change the lists see [page 138, \*Selecting lists\*](#).

- The **Select Lists To Load** window is displayed, which enables you to select the lists in the profile that you want to load from the transceiver (see [page 41, \*Selecting/deselecting lists\*](#)).

**NOTE** When you load a profile from a transceiver, the Mode List is automatically loaded with the Channel List.

- ☐ If you *do not* want to load the profile from all the devices connected in an NGT series Transceiver system, click on the **Advanced** button and select the device from which you *do not* want to load the profile, then click on **Deselect**.

If you want to locate a device in an NGT series Transceiver system from which the profile will be loaded, select the device from the list then click on **Locate Device**. The selected device is identified by the flashing LED on the front panel of the device.

Click **OK** or **Cancel** as required to exit the **Select CIB devices** window.

- ❑ Click **Load**.

If loading is successful, **Done** is displayed next to the name of each list.

**NOTE** If a list fails to load, an **Aborted** or **Failed** warning is displayed next to the name of the list.

- ❑ Click **OK**.
- ❑ Save the profile if required (see [page 38, Saving a profile](#)).



# Programming a transceiver

**NOTE** Before programming a profile, set up your transceiver to operate with a PC running NSP (see [page 39, Using NSP and a transceiver to work with profiles](#)).

Programming a transceiver is the process of transferring a profile from NSP to a transceiver.

**NOTE** Except for the Mode List, the lists in the profile replace the existing lists in the transceiver. The Mode List is *not* programmed.

**NOTE** *All* the lists, except the Mode List, are pre-selected and programmed by default.

**NOTE** You may need to change the default preference for selecting lists (see [page 138, Selecting lists](#)).

To program a transceiver:

☐ In NSP, open or load the profile you want to program to the transceiver (for help on opening or loading a profile see [page 33, Working with profiles](#)).

☐ From the **File** menu, select **Program Transceiver...**

Depending on whether or not you have stored a default admin password (see [page 141, Storing a default admin password](#)), you may be prompted to enter the admin password of the transceiver.

Depending on the current preference, one of the following occurs:

- The **Start Programming** window is displayed showing the pre-selected lists that will be programmed.

**NOTE**

You cannot change the lists that are selected. To have the option to change the lists see [page 138, \*Selecting lists\*](#).

- The **Select Lists To Program** window is displayed, which enables you to select the lists in the profile that you want to program (see [page 41, \*Selecting/deselecting lists\*](#)).

- ☐ If you *do not* want to program the profile to all the devices connected in the NGT series Transceiver system, click on **Advanced** and select the devices that you *do not* want to program with the profile, then click on **Deselect**.

If you want to locate devices in an NGT series Transceiver system that will be programmed with the profile, select the device from the list then click on **Locate Device**. The selected device is identified by the flashing LED on the front panel of the device.

Click **OK** or **Cancel** as required to exit the **Select CIB devices** window.

- ☐ Click **Program**.

If the admin password set in the profile does not match the admin password set in the transceiver, a warning message is displayed before programming continues.

**CAUTION**

You should confirm that you know the admin password in the profile, as this will overwrite the admin password in the transceiver.

If the transceiver types of the selected profile and the transceiver are different, a warning message is displayed before programming continues.

If programming is successful, **Done** is displayed next to the name of each list.

**NOTE**

If a list fails to be programmed, an **Aborted** or **Failed** warning is displayed next to the name of the list.

- ☐ Click **OK**.
- ☐ Switch the transceiver off then on again for the changes to take effect.

## Comparing a profile in NSP with a profile in a transceiver

**NOTE** Before comparing a profile, set up your transceiver to operate with a PC running NSP (see [page 39, Using NSP and a transceiver to work with profiles](#)).

NSP enables you to compare a profile on disk with a profile in a transceiver. When the comparison is complete, NSP displays a window that indicates which lists are identical and those that are not.

**NOTE** All the lists are pre-selected and compared by default.

**NOTE** You may need to change the default preference for selecting lists (see [page 138, Selecting lists](#)).

To compare a profile on disk with a profile stored in a transceiver:

- ☐ In NSP, open or load the profile you want to compare with the profile in the transceiver (for help on opening or loading a profile see [page 33, Working with profiles](#)).
- ☐ From the **File** menu, select **Compare With Transceiver...**

Depending on whether or not you have stored a default admin password (see [page 141, Storing a default admin password](#)), you may be prompted to enter the admin password of the transceiver.

Depending on the current preference, one of the following occurs:

- The **Start Comparing** window is displayed showing the pre-selected lists that will be compared.

**NOTE**

You cannot change the lists that are selected. To have the option to change the lists see [page 138, \*Selecting lists\*](#).

- The **Select Lists To Compare** window is displayed, which enables you to select the lists in the profiles that you want to compare (see [page 41, \*Selecting/deselecting lists\*](#)).

- ☐ If you *do not* want to compare the profile with all the devices connected in the NGT series Transceiver system, click on **Advanced** and select the devices from which you *do not* want to compare the profile, then click on **Deselect**.

If you want to locate a device in an NGT series Transceiver system from which the profile will be compared, select the device from the list then click on **Locate Device**. The selected device is identified by the flashing LED on the front panel of the device.

Click **OK** or **Cancel** as required to exit the **Select CIB devices** window.

- ☐ Click **Compare**.

If a list in NSP is identical to the corresponding list in the transceiver, **Same** is displayed next to the name of the list. If a list in NSP is different from the corresponding list in the transceiver, **Different** is displayed next to the name of the list.

**NOTE**

If a comparison between lists fails, an **Aborted** or **Failed** warning is displayed next to the name of the list.

- ☐ Click **OK**.

## Print previewing and printing a profile

NSP enables you to print a report of the settings in a profile. You can print all the settings, or just the settings from specific lists. You can also view the report on the screen before you print it.

### Print previewing a profile

**NOTE** You may need to change the default preference for selecting lists (see [page 138, \*Selecting lists\*](#)).

**NOTE** For information on toolbar buttons see [Table 2 on page 5](#).

To preview a report before printing:

- ☐ Make sure that the profile that you want to preview is open.
- ☐ From the **File** menu, select **Print Preview**.

Depending on the current preference, one of the following occurs:

- The **Start Previewing** window is displayed showing the pre-selected lists that will be previewed.

**NOTE** You cannot change the lists that are selected. To have the option to change the lists see [page 138, \*Selecting lists\*](#).

- The **Select Lists To Preview** window is displayed, which enables you to select the lists in the profile that you want to preview (see [page 41, \*Selecting/deselecting lists\*](#)).

- ☐ Click **Preview**.

- ☐ Do one or more of the following:
  - To enlarge or reduce a report, use the zoom buttons at the top left of the screen.
  - To scroll through the pages in a report, use the arrow buttons.
  - To print the report, click **Print**, or if you want to check the settings, click **Printer setup**. Select the options you want, then click **OK**.
  - To save the report, click **Save Report**. The **Save report** window is displayed. Enter a name for the report and the location in which you want to save it, then click **Save**.
  - To view another report, click **Load Report**. Select the report you want to open, then click **Open**.
  - To close the **Print Preview** window, click **Close**, or press **Esc**.

## Printing a profile

**NOTE** You may need to change the default preference for selecting lists (see [page 138, \*Selecting lists\*](#)).

To print a report:

- ☐ Make sure that the profile that you want to print is open.
- ☐ From the **File** menu, select **Print**.

Depending on the current preference, one of the following occurs:

- The **Start Printing** window is displayed showing the pre-selected lists that will be printed.

**NOTE**

You cannot change the lists that are selected. To have the option to change the lists see [page 138, \*Selecting lists\*](#).

- The **Select Lists To Print** window is displayed, which enables you to select the lists in the profile that you want to print (see [page 41, \*Selecting/deselecting lists\*](#)).

- ☐ Click **Print**.

**NOTE**

The report can only be printed in landscape format.



## Copying, moving or deleting a profile

A profile is a regular file so it can be copied, moved or deleted like any other file using Windows<sup>®</sup> Explorer or similar file management tools.

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# 5 Working with lists

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**This section contains the following topics:**

[Opening a list \(56\)](#)

[Making a list active \(56\)](#)

[Displaying lists \(56\)](#)

[Sorting a list \(57\)](#)

[Selecting entries in a list \(58\)](#)

[Finding a specific value \(60\)](#)

[Key functions \(61\)](#)

[Editing in NSP \(64\)](#)

## Opening a list

To open a list:

- From the **View** menu, select the list you want to open.

## Making a list active

A list must be active or on the top layer before you can edit it. When you open or click on a list, it is placed on top of any other lists that are open. It remains on top until you open or click on another list. Only one list can be active at a time.

There are three ways to make a list active:

- From the **View** menu, select the list you want to edit. The **View** menu displays the lists in the profile. Selecting any of these lists will open it, if it is not already open, and make it active.
- If other lists are open and visible, click anywhere on the list to make it active.
- Press **Ctrl+F6**: the list that is underneath replaces the top list as the active list.

## Displaying lists

Lists can be maximised, cascaded, minimised or tiled using the common Windows<sup>®</sup> control buttons provided.

# Sorting a list

## CAUTION

The NET member address list must be in the same order for all members of the NET so that response times can be calculated automatically for the NET. If you choose to change the order of this list, you may need to reprogram all of the transceivers that are members of the same NET.

Entries in lists can be sorted by entry name, in ascending order. Once you have sorted the entries in a list you cannot undo the sort.

To sort the entries in a list in ascending order:

- ☐ Make sure the list you want to sort is on top.
- ☐ From the **Edit** menu, select **Sort List**.

The entries are sorted.

## Selecting entries in a list

### Selecting one entry

To select an entry in a list:

- ☐ Click in the first field of the entry you want to select.

The whole entry is selected and highlighted. If the field displays a drop list or up and down arrows, then only that field is highlighted although the whole entry is selected.

### Selecting multiple entries

#### Selecting individual entries

**NOTE** You cannot select multiple entries in the network channel list in the Network List, or the NET member address list in the NET List.

To select individual entries in a list:

- ☐ Click in the first field of the first entry you want to select.  
The whole entry is highlighted.
- ☐ Hold down the **Ctrl** key, then click in the first field of each entry you want to select.

The entries in which you click are highlighted.

**NOTE** To deselect an entry, hold down the **Ctrl** key, then click in the first field of the entry.  
To deselect all the entries, click in any entry *without* holding down the **Ctrl** key.

## Selecting adjacent entries


**NOTE** You cannot select multiple entries in the network channel list in the Network List, or the NET member address list in the NET List.

To select adjacent entries in a list:

- ☐ Click in the first field of the first entry you want to select.

**NOTE** If you click in a field that displays a drop list or up and down arrows, you are not able to select adjacent entries.

The whole entry is highlighted.

- ☐ Do one of the following:
  - Press **Shift** +  until you have selected the entries you want.
  - Press **Shift**, then click in the first field of the last entry in the group you want to select. The first and last entries you clicked, and the entries between them, are highlighted.

**NOTE** To deselect an entry, hold down the **Ctrl** key, then click in the first field of the entry.  
To deselect all the entries, click in any entry *without* holding down the **Shift** or **Ctrl** keys.

## Selecting all entries

To select all the entries in a list:

- ☐ Click in any entry of a list.
- ☐ From the **Edit** menu, select **Select All (Ctrl+A)**.

All the entries in the list are selected.

## Finding a specific value

If you want to find a specific value in the Channel, Address, Network, NET or Phone Link List, use the **Find** option in the **Edit** menu. You can use the **Find** option in most fields.

To find a value:

- ☐ Make sure the list in which you want to search is active.
- ☐ Click in the column in which you want to search.  
For example, to find a channel with a particular name in the Channel List, click in the **Channel Name** column.
- ☐ From the **Edit** menu, select **Find (Ctrl+F)**.

**NOTE**            Shortcut: click on the title button of the column.

- ☐ Type the information you want to find.
- ☐ In the **Direction** box, select the direction of the search, that is, up or down the list, by clicking on the appropriate option.
- ☐ Click **Find Next**.

**NOTE**            To refine your search, change the information you entered and/or enter more information.

If the search reaches the end or beginning of the list without finding a match, a confirmation window is displayed asking if you want the search to continue from the beginning or end of the list. Click **OK** to continue the search.



# Key functions

Table 4 lists the keys on a computer keyboard that are used to edit and move around the lists in NSP.

Table 4: Keys used in NSP

Key	Function
<b>Enter</b>	<p>When a field or text in a field is highlighted, pressing <b>Enter</b> moves the cursor to the next field. When the cursor reaches the last field in the entry, pressing <b>Enter</b> moves the cursor to the first field of the next entry.</p> <p>When the cursor reaches the end of the list, pressing <b>Enter</b> creates a new entry and the first field of that entry is highlighted.</p>
→	<p>When a field is highlighted (that is, you are in replace mode), pressing → moves the cursor to the next field in the entry. The cursor does not move beyond the last field in the entry.</p> <p>When the text in a field is not highlighted (that is, you are in edit mode), pressing → moves the cursor to the next character in the field.</p>
←	<p>When the text in a field is highlighted (that is, you are in replace mode), pressing ← moves the cursor to the previous field in the entry. The cursor does not move beyond the first field in the entry.</p> <p>When the text in a field is not highlighted (that is, you are in edit mode), pressing ← moves the cursor to the previous character in the field.</p>

Table 4: Keys used in NSP (cont.)

Key	Function
<b>Tab</b>	Pressing <b>Tab</b> moves the cursor to the next field in the entry. When the cursor reaches the last field in the entry, pressing <b>Tab</b> moves the cursor to the first field of the next entry.  When the cursor reaches the end of the list, pressing <b>Tab</b> creates a new entry and the first field of the entry is highlighted.
↓	Moves the cursor to the next entry in a list. If the cursor is on the last entry in a list, a new entry is inserted under it.
↑	Moves the cursor to the previous entry in a list. If the cursor is on the first entry in a list, a new entry is not inserted above it.
<b>Home</b>	Moves the cursor to the first field in an entry.
<b>End</b>	Moves the cursor to the last field in an entry.
<b>Ctrl+Home</b>	Moves the cursor to the first entry in a list if the selected field is any field other than the first field of an entry.
<b>Ctrl+End</b>	Moves the cursor to the last entry in a list if the selected field is any field other than the first field of an entry.
<b>Page Up/PgUp</b>	Moves the cursor up through the entries a screen at a time.
<b>Page Down/PgDn</b>	Moves the cursor down through the entries a screen at a time.
<b>Ctrl+PgUp</b>	Moves the cursor to the first entry displayed on the screen.
<b>Ctrl+PgDn</b>	Moves the cursor to the last entry displayed on the screen.

Table 4: Keys used in NSP (cont.)

Key	Function
<b>Insert/Ins</b>	Inserts a new entry above the entry in which the cursor is currently located.
<b>Delete/Del</b>	<p>When the text in a field is highlighted, pressing <b>Delete</b> deletes the text.</p> <p>When the text in a field is not highlighted, pressing <b>Delete</b> deletes the character after the cursor.</p>
<b>Esc</b>	<p>If you have changed a field and have not moved the cursor to another field, pressing <b>Esc</b> will undo the changes to the field.</p> <p>If you have changed one or more fields and have moved the cursor to another field in the same entry, pressing <b>Esc</b> displays a message asking you to confirm that you want to discard the changes made to the entire entry. If you click <b>Yes</b>, the changes you have made are undone.</p> <p>You cannot use <b>Esc</b> to undo changes to an entry once you have moved the cursor off the entry.</p>

## Editing in NSP

### Editing a field

When the text in a field is highlighted, you are in replace mode: whatever you type next replaces the contents of the field. When the text is not highlighted, you are in edit mode: you can edit the characters in the field character by character.

To edit a field in a list:

- ☐ Click in the field you want to edit.
- ☐ Do one of the following:
  - To erase the contents of the field and enter a new value, start typing.
  - To edit the contents of the field, click in the field another two times then make the necessary changes.

**NOTE** To ensure that NSP recognises that a field has been edited, click in another field.

### Inserting a new entry

#### Inserting a new entry at the beginning of a list

To insert a new entry at the beginning of a list:

- ☐ Click in the entry at the top of the list.
- ☐ Press **Insert**.

A new entry is inserted above the entry in which you clicked.

## Inserting a new entry in a list

To insert a new entry anywhere in a list:

- ☐ Click in the entry that you want to have in the list immediately after the new entry.
- ☐ Press **Insert**.

A new entry is inserted above the entry in which you clicked.

## Inserting a new entry at the end of a list

To insert a new entry at the end of a list:

- ☐ Move to the last entry in the list, then press the ↓ key.

A new entry is inserted at the end of the list.

## Copying, cutting and pasting an entry

An entry can be copied, cut and pasted:

- between the Channel List and Channel Clipboard
- from the Channel List to a network channel list in the Network List
- from one part of a list to another part of the same list (in all lists except the Keypad and Control Lists)

**NOTE** Shortcut: When copying, cutting, pasting or deleting an entry, right-click in the list to display the pop-up menu. Click on the editing function you want.

**NOTE** You can copy, cut, paste or delete more than one entry at a time.

**NOTE** You can only cut, copy and paste channels between profiles using the Channel Clipboard.

## Copying an entry

To copy an entry between the Channel List and Channel Clipboard see [page 77, \*Copying a channel to the Channel Clipboard\*](#).

To copy an entry from the Channel List to a network channel list in the Network List see [page 86, \*Copying channels from the Channel List\*](#).

To copy an entry from one part of a list to another part of the same list:

- ☐ Select the entry you want to copy (see [page 58, \*Selecting entries in a list\*](#)).
- ☐ From the **Edit** menu, select **Copy (Ctrl+C)**.  
The entry is copied onto the clipboard.
- ☐ Click in the entry that you want to have in the list immediately after the copied entry.
- ☐ From the **Edit** menu, select **Paste (Ctrl+V)**.  
The entry is pasted into the list.

### NOTE

The first field of the entry being pasted is named <Entry Name> 1, as the first field of each entry must be unique.

## Cutting an entry from a list

To cut an entry from a list:

- ☐ Select the entry you want to cut (see [page 58, \*Selecting entries in a list\*](#)).
- ☐ From the **Edit** menu, select **Cut (Ctrl+X)**.

The entry is cut from the list.

**NOTE** When you use **Cut** to remove an entry, the entry is pasted into the clipboard. To undo the cut, paste the entry back into the list.

**CAUTION** When cutting an entry from the Channel or Network List, it is also removed from associated lists, for example, the Address List or the Phone Link List.

## Pasting an entry into a list

To paste an entry into a list:

- ☐ Select the entry you want to paste (see [page 58, \*Selecting entries in a list\*](#)).
- ☐ From the **Edit** menu, select **Cut (Ctrl+X)** or **Copy (Ctrl+C)**.
- ☐ Click in the entry that you want to have in the list immediately after the new entry.
- ☐ From the **Edit** menu, select **Paste (Ctrl+V)**.

The entry is pasted into the list.

**NOTE** If the first field of the entry you are pasting matches the first field of an entry in the list, it is named <Entry Name> 1, as the first field of each entry must be unique.

## Deleting an entry

To delete an entry from a list:

- ❑ Select the entry you want to delete (see [page 58](#), *Selecting entries in a list*).
- ❑ From the **Edit** menu, select **Delete (Ctrl+D)**.

The entry is deleted.

### NOTE

If you use this method to delete an entry you cannot undo the deletion. However, if you delete an entry using **Cut (Ctrl+X)**, the entry is cut to the clipboard. To undo the deletion, paste the entry back into the list.

### CAUTION

When deleting an entry from the Channel, Network or NET List, it is also removed from associated lists, for example, the Address List or the Phone Link List.



## Clearing the contents of a list

If you want to delete all the entries in a list, use the **Clear List** option in the **Edit** menu.

**NOTE** The Network List contains the network channel list. Clearing the Network List also clears the network channel list. Clearing the network channel list does not clear the Network List.

**NOTE** The NET List contains the NET member address list. Clearing the NET List also clears the NET member address list. Clearing the NET member address list does not clear the NET List.

To clear the contents of a list:

- ☐ From the **Edit** menu, select **Clear List**.

A message is displayed asking you to confirm that you want to clear the list.

- ☐ Click **OK**.

The list is cleared.

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## 6 The Channel List

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**This section contains the following topics:**

[Overview \(72\)](#)

[Creating an entry in the Channel List \(74\)](#)

[Editing an entry in the Channel List \(76\)](#)

[Copying a channel to the Channel Clipboard \(77\)](#)

[Importing a Codan XP channel list into the Channel List \(78\)](#)

# Overview

The Channel List stores information about channels used to make and receive calls. It stores the name of the channel, the receive frequency, the transmit frequency, and the modes for the channel.

The Channel List in NSP enables you to:

- create and edit channels
- import channel lists from Codan XP format into Channel Lists for NGT series and 2110 series Manpack Transceivers

**NOTE** When loading a profile from a transceiver, the Mode List is automatically loaded with the Channel List.

**CAUTION** When cutting or deleting an entry from the Channel List, it is also removed from associated lists, for example, the Address List, Network List, or the Phone Link List.

## The Channel Clipboard

The Channel Clipboard is used for copying channels from one profile to another. The Channel Clipboard is a clipboard for channel entries. It has the same fields as the Channel List but, like a clipboard, is a temporary storage space only.

When you set up a Channel List you can cut, copy and paste channel entries between the Channel List and Channel Clipboard.

**CAUTION** When you close NSP, anything stored in the Channel Clipboard is lost.

The Channel Clipboard is only used within NSP. It cannot be downloaded to a transceiver, or copied to other applications.

## Modes

In NGT series Transceivers and 2110 series Manpack Transceivers, the sideband for a channel, and the width and centre frequency of the IF filter, are combined into one setting called a mode. You can select as many modes as you require for each channel, if permitted.

### NOTE

The Mode List can only be changed in the factory. NSP reads the Mode List to enable use of the modes available, but it does not allow you to change the list or program it into the transceiver.

# Creating an entry in the Channel List

The number of channels you can create in a profile is limited by the type of transceiver for which you are creating channels.

For information on moving between fields and entries, and cutting, copying and pasting entries see [page 55, Working with lists](#).

To create an entry in the Channel List:

- ☐ Create, open or load the profile in which you want to create a channel (for help see [page 33, Working with profiles](#)).
- ☐ Insert a new entry if necessary, then type a name for the channel in the **Channel Name** field (see [page 64, Inserting a new entry](#)).

You can type up to 20 characters including spaces.

- ☐ In the **Tx [kHz]** field, type the transmit frequency for the channel.

**NOTE** To prevent transmission on this channel, leave this field blank by moving the cursor to the next field. *Do not* type **0**.

- ☐ In the **Rx [kHz]** field, type the receive frequency for the channel.

**NOTE** If you do not enter a receive frequency and have clicked in another entry, NSP automatically inserts the value that you have entered for the transmit frequency.

- ☐ To enter the modes for the channel, click in the **Allowed Modes** field, then click on the drop list arrow.

The modes available to you are the modes that have been fitted in your transceiver.

- ☐ Do one or more of the following:
  - To select a mode, select the check box for the mode.
  - To deselect a mode, clear the check box for the mode.

**NOTE** You can select more than one mode for the channel, if available.

**NOTE** If you do not enter a mode and have clicked in another entry, NSP automatically inserts the first mode in the **Allowed Modes** drop list.

- ☐ Click outside the drop list to close the **Allowed Modes** drop list.
- ☐ If you want to apply an access right to the entry see [page 128, \*Applying access rights to an entry\*](#).
- ☐ To save the new Channel List entries, from the **File** menu, select **Save (Ctrl+S)**.

## Editing an entry in the Channel List

To edit an entry in the Channel List:

- ☐ Open or load the profile that contains the channel you want to edit (see [page 33, Working with profiles](#)).

The Channel List is displayed.

- ☐ Find the channel you want to edit, then make the necessary changes.

For information on:

- finding channels see [page 60, Finding a specific value](#)
  - moving between fields and entries, and cutting, copying and pasting entries see [page 55, Working with lists](#)
- ☐ To apply or change access rights see [page 125, Access rights](#).
  - ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.



# Copying a channel to the Channel Clipboard

The Channel Clipboard is a clipboard for channel entries. While you are setting up a Channel List you can cut, copy and paste entries between the Channel List and the Channel Clipboard.

**CAUTION** When you close NSP, channels stored in the Channel Clipboard are erased.

To copy a channel to the Channel Clipboard:

- ☐ Select the Channel List.
- ☐ Select the entry you want to copy (see [page 58, \*Selecting entries in a list\*](#)).
- ☐ From the **Edit** menu, select **Copy (Ctrl+C)**.  
The entry is copied into the clipboard.
- ☐ From the **View** menu, select **Channel Clipboard**.  
The Channel Clipboard is displayed.
- ☐ Click in the entry that you want to have in the list immediately after the copied entry.
- ☐ From the **Edit** menu, select **Paste (Ctrl+V)**.

**NOTE** If there is an entry in the Channel Clipboard list with the same channel name as the entry you are pasting, for example, Chan 2, the entry being pasted is named Chan 2 1, as each channel name must be unique.

The entry is pasted into the Channel Clipboard.

## Importing a Codan XP channel list into the Channel List

Channel lists in Codan XP software format can be imported into Channel Lists for NGT series Transceivers and 2110 series Manpack Transceivers.

### CAUTION

When you import a Codan XP channel list into an NGT series or 2110 series Channel List, the Codan XP channels are copied over any existing channels in the Channel List. If you do not want to lose the existing channels in the Channel List, copy them to the Channel Clipboard (for help see [page 77, Copying a channel to the Channel Clipboard](#)). When you have imported the Codan XP channels, you can copy the channels back from the Channel Clipboard.

To import a Codan XP channel list into an NGT series or 2110 series Channel List:

- ☐ Make sure that the Codan XP channel list you want to import into a Channel List is loaded onto your hard disk or a floppy disk.
- ☐ Create, open or load the profile into which you want to import the Codan XP channels (for help see [page 33, Working with profiles](#)).

The Channel List is displayed.

- ☐ From the **File** menu, select **Import XP Channels...**
- ☐ Navigate to, then select the file containing the Codan XP channel list that you want to import, then click **OK**.

A message is displayed asking you to confirm that you want to copy over the channels in the Channel List.

- ☐ Click **Yes**.

The Codan XP channels are imported into the Channel List.

# 7 The Network List

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**This section contains the following topics:**

[Overview \(80\)](#)

[Creating an entry in the Network List \(81\)](#)

[Editing an entry in the Network List \(88\)](#)

## Overview

The Network List stores information about the networks the user is in, and the channels used by each network. A network is two or more stations that have agreed to use the same frequencies and call system to communicate with each other. The Network List stores the names of these networks, the frequencies they use (that is, the channels), and information about the call systems they use. The channels are stored in the network channel list of each network.

## Creating an entry in the Network List

The number of networks you can create in a profile is limited by the type of transceiver for which you are creating networks.

For information on moving between fields and entries, and cutting, copying and pasting entries see [page 55, \*Working with lists\*](#).

### Creating an entry

To create an entry in the Network List:

- ☐ Create, open or load the profile in which you want to create a network (for help see [page 33, \*Working with profiles\*](#)).
- ☐ From the **View** menu, select **Networks**.
- ☐ Insert a new entry (see [page 64, \*Inserting a new entry\*](#)), then type the name of the network in the **Network Name** field.

You can type up to 20 characters including spaces.

- ☐ Set up how you want the network to operate by clicking in the field and either typing text or selecting from a drop list. Use the information in the following table as a guide.

NOTE	You can only enter details into the fields that apply to the call system: NSP locks the remaining fields. Locked fields appear greyed out.
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Table 5: Details required in the Network List

Field	Options	Details
Scan	Don't scan	Select this option if you do not want the network to be scanned when scanning is switched on.
	Scan	Select this option if you want the network to be scanned when scanning is switched on.
	Scan voice	Select this option if you want the network to be scanned at a slower rate for voice detection when scanning is switched on.
Call System		<p>To enter a call system, click on the drop list arrow and select the call system you want.</p> <p>You can select any call system. If the name appears <i>italic</i> in the drop list, this indicates that the option associated with the call system is not typically enabled for the transceiver type of the profile in which you are working. If you want to use a call system that is not enabled for your target transceiver, contact your Codan representative.</p> <p><b>NOTE</b></p>
Call Detect Time	0.01 to 9.99 seconds	<p>Select the amount of time (seconds) that your transceiver uses to detect an incoming call.</p> <p>Do one of the following:</p> <ul style="list-style-type: none"> <li>enter a value using the up and down buttons or type in a value</li> <li>leave the field blank, or enter <b>0</b> for the transceiver to use the default time for the selected calling system</li> </ul>

Table 5: Details required in the Network List (cont.)

Field	Options	Details
Sounding Interval	0.5	Select the interval at which you want soundings to occur in an ALE/CALM network. A sounding is a set of test signals sent by a transceiver that enables other stations to check the quality of each channel in a network. The sounding interval is the frequency of these sounding calls.
	1.0	
	2.5	
	5.0	
	7.0	
	11 hours	You can select to switch off soundings.
	OFF	If you leave this field blank, NSP enters a default interval of 1 hour.
Privacy Mode		Select the privacy mode for the network. The privacy mode enables you to select the type of encryption for the data content of calls between stations.
	None	Select this option if you do not want to use a privacy mode.
	Group	Select this option if you want the data content in calls to be encrypted with the privacy password.
	Registered	Select this option if you have registered with a radio telephone service provider who offers secure radio identification.
	Plain	Select this option if you want to use AMD messaging in ALE/CALM networks.  This option is only available when the MIL-STD-188-141B ALE option is installed.
Privacy Password		Type in a password if you have selected <b>Group</b> or <b>Registered</b> as the Privacy Mode. The password is used to encrypt the data content of calls.  When you click outside the <b>Privacy Password</b> field, the characters you have entered are hidden behind asterisks.

Table 5: Details required in the Network List (cont.)

Field	Options	Details
Preamble	1 to 30 seconds	<p>A preamble is the initial part of the signal that is transmitted by a transceiver when it makes a call addressed to a station in a Codan Selcall or ALE/CALM network. The preamble informs the receiving station of the incoming call, and needs to be long enough for the receiving station to scan through the channels in the network and detect the call.</p> <p>Do one of the following:</p> <ul style="list-style-type: none"><li>• Use the up and down buttons or type the minimum preamble time.</li><li>• Leave this field blank if you want the transceiver to select the most suitable preamble length.</li></ul>

- ☐ If you want to apply an access right to an entry see [page 128, Applying access rights to an entry](#).
- ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.

## Adding channels and modes to a network

Channels and their modes are allocated to networks using the network channel list at the bottom of the Network List.

To add channels and modes to a network:

- ☐ In the Network List, click in the network in which you want to enter channels.  
  
The network channel list for that network is displayed. The name of the selected network appears at the left of the network channel list.
- ☐ In the network channel list, click in the **Channel Name** field.



- ❑ Click on the drop list arrow, then select the first channel you want to enter from the Channel List.

NOTE                      The channels from which you can select are those listed in the Channel List. You *cannot* change the details of these channels or create new channels using the Network List.

The receive and transmit frequencies for the channel are automatically displayed.

NOTE                      For more information on creating network channel lists and copying multiple channels from the Channel List see [page 86, \*Working with network channel lists\*](#).

- ❑ Click in the **Mode** field, then select the mode for the channel.

NOTE                      The modes from which you can select are those in the **Allowed Modes** field for the channel in the Channel List.

- ❑ Repeat these steps to add the channels and modes you want to the network channel list.
- ❑ To save the new entries, from the **File** menu, select **Save (Ctrl+S)**.

## Working with network channel lists

Each network has a network channel list. The network channel list contains the channels and modes that the network uses to communicate. When you click in the entry for a network, the network channel list for that network is displayed at the bottom of the Network List.

### Copying channels from the Channel List

If you want to enter several channels into a network channel list at once (instead of selecting them one by one) you can copy them directly from the Channel List and paste them into a network channel list.

To copy channels from the Channel List into a network channel list:

- ☐ Make sure that the Channel List is active.
- ☐ Select the entries you want to copy (for help see [page 58, \*Selecting entries in a list\*](#)).
- ☐ From the **Edit** menu, select **Copy (Ctrl+C)**.

The entries are copied onto the clipboard.

- ☐ From the **View** menu, select **Networks**.
- ☐ Select the network into which you want to copy the channels by clicking on the network.

The network channel list for that network is displayed.

- ☐ In the network channel list, click in the entry that you want to have in the list immediately after the copied channels.

If the network channel list is empty, click in the first entry.

- ☐ From the **Edit** menu, select **Paste (Ctrl+V)**.

The entries are pasted into the network channel list.

## Sorting the channels in a network channel list

To sort the channels in a network channel list:

- ☐ Click in a field in the network channel list.
- ☐ From the **Edit** menu, select **Sort List**.

## Deleting a channel from a network channel list

To delete a channel from a network channel list:

- ☐ Click in the channel you want to delete.
- ☐ From the **Edit** menu, select **Delete (Ctrl+D)**.

The channel is deleted from the network channel list and all associated lists, for example, the Address List and Phone Link List.

## Clearing a network channel list

If you want to erase the channels in a network channel list, but not erase the network itself, use the **Clear List** option in the **Edit** menu.

To clear a network channel list:

- ☐ Click in the network channel list that you want to clear.
- ☐ From the **Edit** menu, select **Clear List**.

A message is displayed asking you to confirm that you want to clear the network channel list.

- ☐ Click **OK**.

The network channel list is cleared.

## Editing an entry in the Network List

To edit an entry in the Network List:

- ☐ Open or load the profile that contains the network you want to edit (for help see [page 33, Working with profiles](#)).

The Channel List is displayed.

- ☐ From the **View** menu, select **Networks**.
- ☐ Find the network you want to edit, then make the necessary changes.

For information on:

- moving between fields and entries, and cutting, copying and pasting entries see [page 55, Working with lists](#)
  - editing the network channel list see [page 86, Working with network channel lists](#)
- ☐ To apply or change access rights see [page 128, Applying access rights to an entry](#).
  - ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.

## 8 The NET List

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**This section contains the following topics:**

[Overview \(90\)](#)

[Creating an entry in the NET List \(91\)](#)

[Editing an entry in the NET List \(99\)](#)

## Overview

A NET is a special ALE addressing capability that is available if the MIL-STD-188-141B ALE option is installed. With NET addressing, two or more stations are pre-configured to respond to the same NET address. A station is a member of a NET when their self address is included in the NET member address list. When a station calls a NET, all stations with that NET address *and* their self address in the NET member address list, respond in their designated response slot. Stations that have the NET programmed in the NET List, but do not have their self address in the NET member address list, enter the link at the same time as member stations, if enabled to do so.

In the NGT series Transceiver and the 2110 series Manpack Transceiver, a NET contains the configuration information required for making and receiving NET calls. It stores information about the NETs that a user is in, the network associated with each NET, the NET address, and configuration information for calculating the response slots.

# Creating an entry in the NET List

For information on moving between fields and entries, and cutting, copying and pasting entries see [page 55, \*Working with lists\*](#).

## Creating an entry

To create an entry in the NET List:

- ☐ Create, open or load the profile in which you want to create a NET (for help see [page 33, \*Working with profiles\*](#)).
- ☐ From the **View** menu, select **NETs**.
- ☐ Insert a new entry (see [page 64, \*Inserting a new entry\*](#)), then type the name of the NET in the **NET Name** field.

You can type up to 20 characters including spaces.

- ☐ Set up how you want the NET to operate by clicking in the field and either typing text or selecting from a drop list. Use the information in the following table as a guide.

NOTE	You can only enter details into the fields that are not greyed out.
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Table 6:      Details required in the NET List

Field	Options	Details
Address		<p>Enter the address of the NET using characters within A–Z, 0–9.</p> <p><b>NOTE</b>      You may enter up to 15 alphanumeric characters however, for efficiency of link establishment during NET calls, it is preferable that the address be limited to three characters. You should choose an address that is not the same as any self addresses in the NET or wider communication audience.</p>
Network		<b>CAUTION</b> This setting must be the same in all member stations.
		Select the network that you want to use for this NET from the drop list.
Outgoing Calls	Disabled	Select this option if you do not want the station to be able to send NET calls through this NET.
	Enabled	Select this option if you want the station to be able to send NET calls through this NET.
Incoming Calls	Enabled	Select this option if you want the station to be able to receive all NET calls from the NET.
	Members only	Select this option if you want the station to be able to receive NET calls from the NET only if it is a member of that NET.
	Disabled	Select this option if you want the station to ignore all NET calls from the NET.



Table 6: Details required in the NET List (cont.)

Field	Options	Details
Link		<b>CAUTION</b> This setting must be the same in all member stations.
	Only if response	Select this option if you want the initiating station to send an acknowledgement to establish the link only if it receives a response from a member station.
	Even if no response	Select this option if you want the initiating station to establish a link on the first channel tried even if a response is not received from a member station.
	Immediately	Select this option if you want the initiating station to link implicitly with any stations that have the NET programmed.
Response	Don't send	Select this option if you do not want the station to send a response during link establishment for a NET call.
	Send	Select this option if you want the station to send a response during link establishment for a NET call.
		<p><b>NOTE</b> If a receiving station does not send a response, the station does not need to tune and it cannot exchange LQA data.</p> <p><b>NOTE</b> At least one member station in a NET must be set to send a response if the <b>Link</b> field is set to <b>Only if response</b>.</p>
Tune Time		<b>CAUTION</b> This setting must be the same in all member stations.
	0 to 20 seconds	<p>Set the length of time for stations in the NET to tune their antenna.</p> <p>After this time, each member station starts to send their slotted response.</p>

Table 6: Details required in the NET List (cont.)

Field	Options	Details
LQA Exchange		<b>CAUTION</b> This setting must be the same in all member stations.
	Enabled	Select this option if you want the station to exchange LQA data during link establishment.
	Disabled	Select this option if you do not want the station to exchange LQA data during link establishment.
		<b>NOTE</b> If LQA Exchange is enabled, the transceiver adds an appropriate amount of time to the slot widths so that LQA information can be exchanged.
Slot Width		<b>CAUTION</b> This setting must be the same in all member stations.
	Fixed	Select this option if you want the transceiver to set the slot width for all responses to that required for the largest member address in the NET. This operation may be required for interoperability with other transceivers.
	Variable	Select this option if you want the transceiver to calculate the exact slot width required for the response from each member station.

- ☐ If you want to apply an access right to an entry see [page 128, Applying access rights to an entry.](#)

**NOTE** If you want to avoid accidental changes being made to the settings that must be the same for all members of the NET, lock the relevant field or the entire list before programming the profile to the transceiver.

- ☐ To save the new entries, from the **File** menu, select **Save (Ctrl+S)**.

## Adding members to a NET

Members are allocated to NETs using the NET member address list at the bottom of the NET List.

To add members to a NET:

- ☐ In the NET List, click in the NET in which you want to enter members.

The NET member address list for that NET is displayed. The name of the selected NET appears at the left of the NET member address list.
- ☐ In the NET member address list, click in the **Member Address** field.
- ☐ Type the self address of a member station.

You may enter up to 15 alphanumeric characters however, for efficiency of NET calls, it is preferable that the address be limited to three characters.
- ☐ Repeat these steps to add members to the NET member address list.
- ☐ To save the new entries, from the **File** menu, select **Save (Ctrl+S)**.

## Working with NET member address lists

Each NET has a NET member address list. The NET member address list contains the self addresses of members of the NET. When you click in the entry for a NET, the NET member address list for that NET is displayed at the bottom of the NET List.

When a station initiates a NET call, it sends a leading part of a handshake to the NET address. All stations with that NET programmed in the NET List may detect the call. Those stations with their self address in the NET member address list respond to the call, if enabled to do so.

The NET member address list is used by the receiving station to automatically calculate when it should send a response back to the initiating station, based on information in the **Link**, **Tune Time**, **LQA Exchange** and **Slot Width** fields, and the station's position in the NET member address list.

**CAUTION** To avoid response collisions, it is necessary that the NET member address list of a particular NET be identical in all member stations of the NET.

If you want to maintain a slot position when you remove a member from the NET member address list, you should replace the self address with the null address @@@.

## Sorting the NET member address list

### CAUTION

The NET member address list must be in the same order for all members of the NET so that response times can be calculated automatically for the NET. If you choose to change the order of this list, you may need to reprogram all of the transceivers that are members of this NET.

To sort the members in a NET member address list:

- ☐ Click in a field in the NET member address list.
- ☐ From the **Edit** menu, select **Sort List**.

## Deleting a member from a NET member address list

### CAUTION

For a NET to remain operational, each member station must have the same change made to the NET member address list for that NET.

### NOTE

If you want to maintain a slot position when you remove a member from the NET member address list, you should replace the self address with the null address @@@.

To delete a member from a NET member address list:

- ☐ Click on the member you want to delete.
- ☐ From the **Edit** menu, select **Delete (Ctrl+D)**.

The member is deleted from the NET member address list.

## Clearing a NET member address list

If you want to erase the members in a NET member address list, but not erase the NET itself, use the **Clear List** option in the **Edit** menu.

To clear a NET member address list:

- ☐ Click in the NET member address list that you want to clear.
- ☐ From the **Edit** menu, select **Clear List**.  
A message is displayed asking you to confirm that you want to clear the NET member address list.
- ☐ Click **OK**.

The NET member address list is cleared.

## Editing an entry in the NET List

To edit an entry in the NET List:

- ☐ Open or load the profile that contains the NET you want to edit (for help see [page 33, Working with profiles](#)).

The Channel List is displayed.

- ☐ From the **View** menu, select **NETs**.
- ☐ Find the NET you want to edit, then make the necessary changes.

For information on:

- moving between fields and entries, and cutting, copying and pasting entries see [page 55, Working with lists](#)
- editing the NET member address list see [page 95, Working with NET member address lists](#)

- ☐ To apply or change access rights see [page 128, Applying access rights to an entry](#).

### NOTE

If you want to avoid accidental changes being made to the settings that must be the same for all members of the NET, lock the relevant NET field or the entire list before programming the profile to the transceiver.

- ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.

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## 9 The Phone Link List

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**This section contains the following topics:**

[Overview \(102\)](#)

[Creating an entry in the Phone Link List \(103\)](#)

[Editing an entry in the Phone Link List \(105\)](#)

## Overview

The Phone Link List stores the details of telecommunication stations that users can contact to make Phone calls from their transceivers.

A telecommunication station is a station equipped with a telephone interconnect unit for routing HF transceiver calls through to public telephone networks. When a user makes a Phone call, they specify the telecommunication station through which they want the call routed. Their transceiver calls this station and sends the phone number the user wants to call. The interconnect unit then routes the call to a public telephone network and connects the user to the phone number.

## Creating an entry in the Phone Link List

The number of phone links you can enter in a profile is limited by the type of transceiver for which you are creating phone links.

For information on moving between fields and entries, and cutting, copying and pasting entries see [page 55, \*Working with lists\*](#).

To create an entry in the Phone Link List:

- ☐ Create, open or load the profile in which you want to enter the phone link (for help see [page 33, \*Working with profiles\*](#)).

The Channel List is displayed.

- ☐ From the **View** menu, select **Phone Links**.
- ☐ Insert a new entry (see [page 64, \*Inserting a new entry\*](#)), then type the name of the phone link station in the **Phone Link Name** field.

You can type up to 15 characters including spaces.

- ☐ Click in the **Interconnect Address** field, then type the address of the phone link station.

**NOTE** If you want the user to be prompted to enter a call address when they use this entry to make a call, leave this field blank.

- ☐ Click in the **Network** field.
- ☐ Click on the drop list arrow, then select the network in which the call will be made.

**NOTE** The networks from which you can select are those in the Network List.

**NOTE** If you want the user to be prompted to select a network when they use this entry to make a call, leave this field blank.

- ☐ Click in the **Channel** field.
- ☐ Click on the drop list arrow, then select the channel on which the call will be made.

The channels from which you can select are those in the network you selected.

**NOTE** If you want the user to be prompted to select a channel when they use this entry to make a call, or if you have previously selected an ALE/CALM network in this entry, leave this field blank.

- ☐ If you want to apply an access right to an entry see [page 128, \*Applying access rights to an entry.\*](#)
- ☐ To save the new entries, from the **File** menu, select **Save (Ctrl+S)**.

## Editing an entry in the Phone Link List

To edit an entry in the Phone Link List:

- ☐ Open or load the profile that contains the phone link you want to edit (for help see [page 33, Working with profiles](#)).

The Channel List is displayed.

- ☐ From the **View** menu, select **Phone Links**.
- ☐ Find the phone link you want to edit, then make the necessary changes.

For information on:

- finding a phone link see [page 60, Finding a specific value](#)
  - moving between fields and entries, and cutting, copying and pasting entries see [page 55, Working with lists](#)
- ☐ To apply or change access rights see [page 128, Applying access rights to an entry](#).
  - ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.

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# 10 The Address List

---



**This section contains the following topics:**

[Overview \(108\)](#)

[Creating an entry in the Address List \(108\)](#)

[Editing an entry in the Address List \(111\)](#)

## Overview

The Address List is like a personal address book: it stores the names and addresses of stations the user often calls.

## Creating an entry in the Address List

The number of addresses you can enter in a profile is limited by the type of transceiver for which you are creating addresses.

For information on moving between fields and entries, and cutting, copying and pasting entries see [page 55, \*Working with lists\*](#).

To create an entry in the Address List:

- ☐ Create, open or load the profile in which you want to enter an Address List entry (for help see [page 33, \*Working with profiles\*](#)).
- The Channel List is displayed.
- ☐ From the **View** menu, select **Addresses**.
- ☐ Insert a new entry (see [page 64, \*Inserting a new entry\*](#)), then type the name of the entry (that is, the station to be called) in the **Name** field.

You can type up to 20 characters including spaces.

**NOTE** For information on the My GPS entry see the Reference Manual provided with the transceiver.

- ☐ Set up how you want the call to operate by clicking in the field and either typing text or selecting from a drop list. Use the information in the following table as a guide.



**NOTE** You can only enter details into the fields that apply to the call type: NSP locks the remaining fields. The locked fields appear greyed out.

**NOTE** If you leave any field blank, you will be prompted for information at the time of the call.

**Table 7: Details required in the Address List**

<b>Field</b>	<b>Options</b>	<b>Details</b>
Call	Selective Marine Emgcy Get Status Emergency Message Phone RFDS Emgcy Channel Test Send Position Get Position	Click on the drop list arrow and select the call type you want.

Table 7: Details required in the Address List (cont.)

Field	Options	Details
Address/ Phone Number		<p>Enter the following details:</p> <ul style="list-style-type: none"> <li>• the address of the station you want to call, or</li> <li>• the telephone number to be contacted if you selected Phone as the call type</li> </ul> <p><b>NOTE</b> For information on using a special ALE address syntax see the Reference Manual provided with the transceiver.</p> <p><b>NOTE</b> If you are creating a My GPS entry, leave this field blank.</p>
Message		<p>Enter the message. The message length you can enter depends on the type of call system, the privacy mode selected, and the character set.</p> <p><b>NOTE</b> If you are creating a My GPS entry, enter the GPS information in this field.</p>
Network		Select the network.
Channel/ Mode		Select the channel.
Phone Link		Select the phone link.

- ☐ If you want to apply an access right to an entry see [page 128, \*Applying access rights to an entry\*](#).
- ☐ To save the new Address List entries, from the **File** menu, select **Save (Ctrl+S)**.

# Editing an entry in the Address List

To edit an entry in the Address List:

- ☐ Open or load the profile that contains the Address List entry you want to edit (for help see [page 33, Working with profiles](#)).

The Channel List is displayed.

- ☐ From the **View** menu, select **Addresses**.
- ☐ Find the Address List entry you want to edit, then make the necessary changes.

For information on:

- finding Address List entries see [page 60, Finding a specific value](#)
  - moving between fields and entries, and cutting, copying and pasting entries see [page 55, Working with lists](#)
- ☐ To apply or change access rights see [page 128, Applying access rights to an entry](#).
  - ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.

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# 11 The Control List

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**This section contains the following topics:**

[Overview \(114\)](#)

[Editing a setting in the Control List \(114\)](#)

# Overview

The Control List stores all the settings that control the transceiver, such as passwords and the time and date. These settings are usually configured by a system administrator.

You cannot add or delete entries in the Control List. You cannot edit fields that are greyed out.

If access rights have been applied to an entry, these appear to the left of the field.

## Editing a setting in the Control List

### NOTE

The settings that are displayed in the Control List depend on the access rights set in the **Preferences** option in the **View** menu. To set how information is displayed in the Control List see [page 140, \*Setting the view of access rights in the Control List\*](#).

To edit a setting in the Control List:

- ☐ Create, open or load the profile that contains the setting you want to edit (for help see [page 33, \*Working with profiles\*](#)).

The Channel List is displayed.

- ☐ From the **View** menu, select **Controls**.
- ☐ Find the setting you want to edit, then make the necessary changes, if permitted.

**NOTE** You *cannot* edit fields that are greyed out.

- ☐ To apply or change access rights see [page 128, \*Applying access rights to an entry\*](#).
- ☐ To save the changes, from the **File** menu, select **Save (Ctrl+S)**.

# 12 The Keypad List

---



**This section contains the following topics:**

[Overview \(116\)](#)

[Assigning a macro \(117\)](#)

[Changing the macros assigned to a key \(118\)](#)

[Working with macros \(119\)](#)

## Overview

The Keypad List stores information about the keys on the handset/front panel, and the events that occur when the keys are pressed. It stores:

- the characters a user can enter when they press a key (for example, the characters Q, Z and 1 by pressing the **1** key)
- macros that have been assigned to keys (for example, **EASITALK** on the **\*** key, and **TUNE** on the **1** key)
- pre-defined macros that can be assigned to keys or incorporated into other macros
- special macros that perform tasks a user cannot perform on the handset/front panel

When you create a new profile, the Keypad List contains default characters and macros assigned to keys. These defaults enable access to the most commonly used transceiver functions.

**CAUTION** Take care when editing the Keypad List to ensure that critical functions are still available in the transceiver when it has been programmed.

NSP does not allow macros to be created. New macros that are created on the handset/front panel of the transceiver can be loaded into a profile by NSP, then re-assigned to another key.



## Assigning a macro

You can select from the list of pre-defined macros and assign up to 12 macros per key. Pressing this key on the handset performs the function of the selected macro. For example, if a user frequently needs to view the Calls Out Log, the Call Logs - Out macro can be assigned to the **1** key. When you press this key, the Calls Out Log is displayed.

To create a macro:

- ☐ Open or load the profile that contains the Keypad List you want to change (for help see [page 33, \*Working with profiles\*](#)).
- ☐ From the **View** menu, select **Keypad**.
- ☐ Click in the first empty macro field of the key to which you want to assign the macro, then click on the drop list arrow and scroll to the macro you want to assign. Select the macro you want by clicking on it.

The macro is now assigned to this key.

If you want to assign another macro to this key, click in the next macro field and select the macro from the drop list.

- ☐ If you want to apply an access right to an entry see [page 128, \*Applying access rights to an entry\*](#).
- ☐ To save the new entries, from the **File** menu, select **Save (Ctrl+S)**.

## Changing the macros assigned to a key

The macros that are assigned to a key can be changed.

To change a macro assigned to a key:

- ☐ Open or load the profile that contains the Keypad List you want to change (for help see [page 33, Working with profiles](#)).
- ☐ From the **View** menu, select **Keypad**.
- ☐ Click on the macro you want to change, then click on the drop list arrow and scroll to the macro you want to assign to this key. Select the macro you want by clicking on it.

The macro is now assigned to this key.

- ☐ To apply or change access rights see [page 128, Applying access rights to an entry](#).
- ☐ To save your changes, from the **File** menu, select **Save (Ctrl+S)**.

# Working with macros

## Deleting a macro


### CAUTION

Be careful when deleting a default macro from a profile. This can lead to the loss of critical functions in the transceiver.

### CAUTION

Macros that have been entered via the handset/front panel are not default macros and are only available on the key to which they have been assigned, or the **Unassigned** entry. If you delete one of these macros, you must re-enter the macro via the handset/front panel.

To delete a macro from a key:

- ☐ Click in the macro field containing the macro you want to delete.
- ☐ Do one of the following:
  - From the **Edit** menu, select **Delete (Ctrl+D)**.
  - In the toolbar, click .

The macro is deleted.

### CAUTION

If you have deleted any of the default macros from a Keypad List, then programmed the list to a transceiver, these default macros are lost. To restore default macros to a profile see [page 120, Restoring a default macro](#).

## Restoring a default macro

If you delete any of the default macros from a Keypad List, then program the list to a transceiver, these default macros are lost.

To restore default macros to the Keypad List in a profile that has been programmed to a transceiver:

- ☐ Create a new profile, or open the default profile you want in \Program Files\Codan\NSP\Profiles.
- ☐ Program the Keypad List of the new or default profile to the transceiver (see [page 45, \*Programming a transceiver\*](#)).

This Keypad List replaces the existing Keypad List in the transceiver. The default macros are now restored to the profile.

To restore all the default macros to the Keypad List in a profile that has not yet been programmed to a transceiver:

- ☐ Program the transceiver (see [page 45, \*Programming a transceiver\*](#)) ensuring that the Keypad List is *not* selected (see [page 138, \*Selecting lists\*](#)).
- ☐ From the **File** menu, select **New (Ctrl+N)**.
- ☐ Load all the lists from the transceiver except for the Keypad List (see [page 42, \*Loading a profile from a transceiver\*](#)).

All the default macros in the Keypad List are now restored to this profile.

## Clearing all macros from the Keypad List

To clear all the macros from a Keypad List:

- ☐ From the **Edit** menu, select **Clear List**.

A message is displayed asking you to confirm that you want to clear the list.

### CAUTION

When you clear the Keypad List, the default macros that are set in the factory are also deleted. It is recommended that these macros are not deleted as they perform critical functions in the transceiver.

- ☐ Click **OK**.

The macros are deleted.

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## 13 The Mode List

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A mode is a combination of a sideband, IF filter width, and IF centre frequency. Each channel in a profile must have at least one mode assigned to it.

Each profile has its own Mode List. The Mode List stores up to 32 modes.

**NOTE** The modes in the Mode List are set in the factory. You *cannot* edit or program the Mode List.

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# 14 Access rights

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**This section contains the following topics:**

[Overview \(126\)](#)

[Applying access rights \(128\)](#)

# Overview

Access rights enable you to restrict the type of access that the user has to lists, entries and fields in a profile. You can lock lists, entries and fields to prevent them from being edited in a transceiver, and hide them so they cannot be seen.

The access rights from which you can select are shown in [Table 8](#).

Table 8: Access rights

Access right	Acronym
Factory Locked	FL
Admin Hidden	AH
Admin Locked	AL
User Hidden	UH
User Locked	UL

The effect that access rights have in a transceiver depends on whether the operator has logged into the transceiver at user or administrator level.

**NOTE** A user can use the List Manager in the transceiver to switch full view on, or switch locks off. The items that can be viewed or edited depend on the level of access rights that have been applied, that is, user or administrator level.

Full view in the transceiver displays icons at the top right of the handset/front panel screen when an access right is set. The icons indicate the type and level of access rights that have been applied.

Locks off temporarily unlocks all locks in a list at either user or administrator level.

[Table 9](#) describes the access rights you need to select in order to place particular restrictions on users and administrators.

Table 9: How to use access rights

If you want to prevent...	Select...
a user from editing a list/entry/field, but enable them to edit it when unlocked	User Locked
a user from seeing a list/entry/field in normal view, but enable them to see it in full view	User Hidden
a user from editing a list/entry/field	Admin Locked
a user from seeing a list/entry/field in normal or full view	Admin Hidden
a system administrator from editing a list/entry/field in normal view, but enable them to edit it when unlocked	Admin Locked
a system administrator from seeing a list/entry/field in normal view, but enable them to see it in full view	Admin Hidden

#### NOTE

Items to which User Locked and/or User Hidden have been applied can be edited and viewed by administrators in full and normal view.

# Applying access rights

## Applying access rights to a list

To apply access rights to a list:

- ☐ Make sure that the list to which you want to apply an access right is selected.
- ☐ From the **Edit** menu, select **Access Rights—List...**
- ☐ Click in the check box for the access right you want to apply.  
  
To remove an access right, clear the check box.
- ☐ Click **OK**.
- ☐ To save the changes to the access rights, from the **File** menu, select **Save (Ctrl+S)**.

## Applying access rights to an entry

You can apply access rights to a specific entry in a list by:

- using the **Access Rights** option in the **Edit** menu
- double-clicking in the **Access Rights** field in every list except the Control List and Mode List
- clicking in the field in the Control List, right-clicking, then using the **Access Rights** option in the pop-up menu

## Using the Edit menu

To apply access rights to an entry using the Edit menu:

- ☐ Click in the entry to which you want to apply an access right.
- ☐ From the **Edit** menu, select **Access Rights—Entry...**
- ☐ Click in the check box for the access right you want to apply.

To remove an access right, clear the check box.

- ☐ Click **OK**.
- ☐ To save the changes to the access rights, from the **File** menu, select **Save (Ctrl+S)**.

## Using the Access Rights field

To apply an access right to an entry using the Access Rights field:

- ☐ Double-click in the **Access Rights** field of the entry to which you want to apply an access right.
- ☐ Click in the check box for the access right you want to apply.

To remove an access right, clear the check box.

- ☐ Click **OK**.
- ☐ To save the changes to the access rights, from the **File** menu, select **Save (Ctrl+S)**.

## Using the pop-up menu in the Control List

The access rights applied to each entry are displayed to the left of each field.

To apply or change an access right in the Control List:

- ☐ Select the field, then right-click on the entry field to display the pop-up menu, then select **Access Rights**.
- ☐ Click in the check box for the access right you want to apply.

To remove an access right, clear the check box.

- ☐ Click **OK**.
- ☐ To save the changes to the access rights, from the **File** menu, select **Save (Ctrl+S)**.

## Applying access rights to a field

When you apply access rights to a field, they are applied to that field across the entire list. For example, if you lock the **Tx [kHz]** field in an entry in the Channel List, the **Tx [kHz]** field in every other entry in the Channel List is also locked.

To apply access rights to a field:

- ☐ Click in the field to which you want to apply an access right.
- ☐ From the **Edit** menu, select **Access Rights—Field...**
- ☐ Click in the check box for the access right you want to apply.

To remove an access right, clear the check box.

- ☐ Click **OK**.
- ☐ To save the changes to the access rights, from the **File** menu, select **Save (Ctrl+S)**.

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# 15 Upgrading firmware

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**This section contains the following topics:**

[Overview \(134\)](#)

[Special devices \(134\)](#)

[Upgrading firmware \(135\)](#)

## Overview

When you are supplied with a computer file containing new firmware for an NGT series Transceiver or a 2110 series Manpack Transceiver, you need to use NSP to upgrade the device.

## Special devices

The split-site interface controller is considered a special device when programming with NSP. When using the split-site interface controller firmware upgrade, you *must* have the handset that you are using for programming connected directly to the interface controller. The interface controller, and any other interface controllers attached to the same CIB will be upgraded.

### CAUTION

If you have the handset connected directly to a junction box, and you use the split-site interface controller firmware upgrade, the junction box is reprogrammed as an interface controller. To reverse this, use the junction box firmware upgrade to reprogram the junction box.

# Upgrading firmware

Before you upgrade a device with firmware, make sure you have a copy of the transceiver's profile, as data in the profile could be lost during the upgrade.

## CAUTION

After the upgrade you can program the transceiver with the profile to restore any lost data.

To perform the firmware upgrade:

- ☐ Make a copy of the profile for the transceiver you are upgrading (for help see [page 42, Loading a profile from a transceiver](#) and [page 38, Saving a profile](#)).
- ☐ From the **Tools** menu, select **Firmware Upgrade...**  
Locate the firmware file, select it, then click **Open**.
- ☐ Check the firmware part number and version in the **Firmware Upgrade** window against the documentation you received in the upgrade package to ensure that you are programming the correct firmware.

## CAUTION

For NGT series Transceivers that support CIB devices, check that the handset is attached to the appropriate junction box or split-site interface controller.

- ☐ Click **Program**.

The upgrade begins. It takes several minutes.

**NOTE** To abort the upgrade, click **Abort**.

When the upgrade is completed, a message is displayed to inform you of this.

- ☐ Click **OK** to remove the message.
- ☐ Click **Close** to close the **Firmware Upgrade** window.

- ☐ Switch the transceiver off then on again for the changes to take effect.
- ☐ Program the transceiver with the profile you saved (for help see [page 45, \*Programming a transceiver\*](#)).

**NOTE**

New configuration items are usually added when a new firmware version is released. If you reprogram devices containing an older profile, any of the new configuration items are set to their default value.

**This section contains the following topics:**

[Selecting lists \(138\)](#)

[Selecting the transceiver type \(139\)](#)

[Setting the view of access rights in the Control List \(140\)](#)

[Storing a default admin password \(141\)](#)

[Selecting a serial COM port \(142\)](#)

## Selecting lists

*All* the lists in a profile are loaded, programmed, or compared by default. If you want to select the lists before profiles are processed, you *must* change the default preference. You can also pre-select the lists that are presented for loading, programming or comparing.

To select the lists for processing:

- ☐ From the **View** menu, select **Preferences...**
- ☐ Select the **List Processing** tab.
- ☐ Select the check box for **Allow selection of lists before processing**.
- ☐ Click **OK**.

You can now select and deselect the required lists in a profile:

- before you load a profile from a transceiver
- before you program a profile to a transceiver
- before you compare a profile on disk with a profile in a transceiver
- before you preview a profile report

## Selecting the transceiver type

The default preference requires you to select the transceiver type each time you create a new profile. You can change the default preference so that the transceiver type automatically defaults to your transceiver type.

**CAUTION** When creating a profile for an NGT *VR* Transceiver, you must select the profile according to the type of RF unit, that is, VR (2010) or VR (2011) VR Mobile.

To select the transceiver type:

- ☐ From the **View** menu, select **Preferences...**
- ☐ Select the **Transceiver Type** tab.
- ☐ Clear the check box for **Prompt for transceiver type when creating a new profile**.
- ☐ From the **Default transceiver type** options, select the type of your transceiver.

Each time you create a new profile, NSP defaults to this transceiver type.

- ☐ Click **OK**.

## Setting the view of access rights in the Control List

The settings displayed in the Control List vary depending on the preferences selected.

To set the preferences for the view of access rights in the Control List:

- ☐ From the **View** menu, select **Preferences...**
- ☐ Select the **Access Rights** tab.
- ☐ Select the check boxes for the access rights you want to view in the Control List.
- ☐ Click **OK**.



## Storing a default admin password

It is recommended that you store a default admin password in NSP that corresponds to the admin password in the transceiver. When loading, programming or comparing a profile, this password is automatically checked against the password in the transceiver. Otherwise, you are prompted to enter the admin password each time you load, program or compare a profile. If the passwords do not match, an error message is displayed and loading, programming or comparing does not proceed.

To store a default admin password:

- ☐ From the **View** menu, select **Preferences...**
- ☐ Select the **Access Rights** tab.
- ☐ Enter the default admin password.
- ☐ Click **OK**.

## Selecting a serial COM port

To select a serial COM port:

- ☐ In NSP, from the **View** menu, select **Preferences...**
- ☐ Select the **Communications** tab.
- ☐ Select the serial COM port that you want to use to communicate with the transceiver.
- ☐ Click **OK**.

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