NØRTEL

Nortel Communication Server 1000

IP Phone 2002
User Guide

Revision history

July 2006

Standard 7.00. This document is up-issued to support Nortel Communication Server 1000 Release 4.5. Document number corrected (from NN-10300-050 to NN10300-050).

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Standard 6.00. This document is up-issued to support Nortel Communication Server 1000 Release 4.5. "Secure communications" section added to document support for SRTP with Pre-Shared keys. LOGOs and copyright data were updated. Document feedback link added to back page.

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Standard 1.00. This document is issued to support Meridian 1 Release 25.40 and Succession Communication Server for Enterprise 1000, Release 2.0.

Contents

About the Nortel IP Phone 2002

The Nortel IP Phone 2002 brings voice and data to the desktop by connecting directly to a Local Area Network (LAN) through an Ethernet connection.

> *Note 1:* All features are not configured on all IP Phone 2002 telephones. Consult your system administrator to verify which features are configured for your use.

> *Note 2:* In this guide, programmable line (DN)/feature key labels display beside the key, and soft key labels display directly above the key. Figure 1 shows key labels.

Figure 1: Programmable line (DN)/feature key and soft key labels
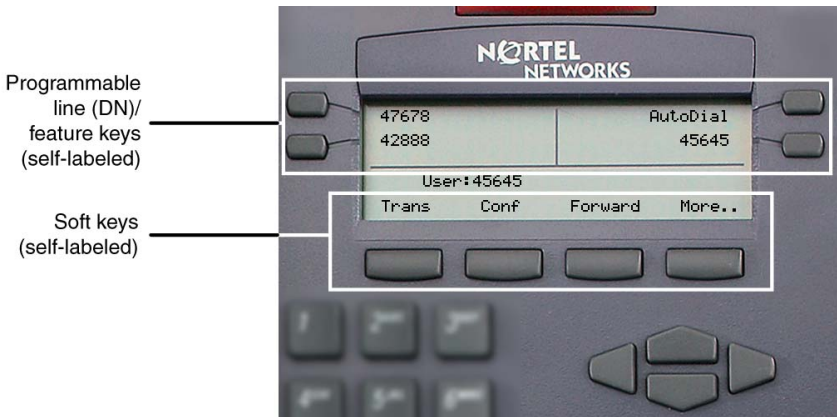
IP Phone 2002 models

There are two models of the IP Phone 2002, referred to as Phase 1 and Phase 2. The Phase 2 models have some features that are not available on the Phase 1 models. To determine the model of your phone, turn the phone over and locate the label containing the product code (NT code). The product code identifies the model of your phone.

Table 1: IP Phone 2002 product codes

Product code	Model
NTDU76xxxx	Phase 1
NTDU91xxxx	Phase 2

> *Note:* Where "xxxx" represents any valid character.

Basic features

The IP Phone 2002 supports the following features:

• four programmable line (DN)/feature keys (self-labeled)

• four soft keys (self-labeled) providing access to a maximum of nine features

> *Note 1:* Some IP Phone 2002 phones are not configured to support soft key functionality. Consult your system administrator.

• multi-field LCD display screen

• call timer to indicate the duration of each call

• speaker for on-hook dialing/listening

• volume control bar for adjusting ringer, speaker, handset, and headset volume

• six specialized fixed keys:

— Quit

— Directory

- — Message (Inbox)
- — Outbox/Shift (reserved for future development)
- — Services
- — Expand to PC
- four call processing fixed keys:
  - — Hold
  - — Goodbye
  - — Handsfree
  - — Mute
- shared LAN access with a PC
- headset jack with On/Off key
- automatic network configuration
- hearing-aid compatibility

Telephone display

The LCD screen on the IP Phone 2002 has three display areas:

• The upper display area is used for user-defined feature key labels.

• The middle display area is used for single-line information such as caller number, caller name, feature prompt string, user-entered digits, date and time (or call timer, if provisioned in the Telephone Options menu), and telephone information.

• The lower display area is used for soft key labels.

Figure 2: IP Phone 2002 LCD display areas

Upper display area
- user-defined feature
  key labels

Middle display area
-information display

Lower display area
-soft key labels
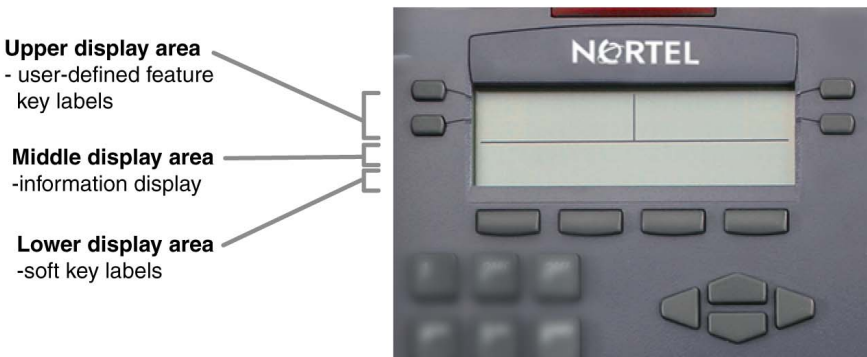
Figure 3: IP Phone 2002

Telephone controls

Note: Some IP Phone 2002 are equipped with optional key caps. Text in parenthesis indicates labels appearing on the key caps. For example, (Services).

Use the **Volume control** bar to adjust the volume of the ringer, handset, headset, speaker, and the Handsfree feature. Press the right side of the rocker bar to increase volume, the left side to decrease volume.

Programmable line (DN)/feature keys are extra DNs or feature keys used to access additional features.

2493 ☎ ⬭   A steady LCD light beside a line (DN) key indicates that the line is active. A flashing LCD indicates that the line is on hold.

CallWait ⬛ ⬭   A steady LCD light beside a feature key indicates that the feature is active. A flashing LCD indicates that the feature is being programmed.
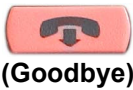
(Goodbye)   Use the **Goodbye** key to terminate an active call.

(Hold)   Press the **Hold** key to put an active call on hold. Press the line (DN) key beside the flashing LED indicator to return to the caller on hold.

(Message/Inbox)   Press the **Message (Inbox)** key to access your voice mailbox.

    Use the **Navigation** keys to scroll through menus and lists appearing on the LCD display screen.

(Services)

Press the **Services** key and use the navigation keys to access the following items:

- Telephone Options:

    — Volume adjustment

    — Contrast adjustment

    — Language

    — Date/Time

    — On-Hook Default Path

    — Call Timer

    — Display diagnostics

    — Local Dialpad Tone

    — Ring type

    — Change feature key label

    — Set Info

- Password Admin:

    — Station Control Password

    Note: The **Password Admin** menu is not available on all IP Phone 2002 phones. Consult your system administrator.

(Services)

Continued

- Virtual Office Login and Virtual Office Logout (if Virtual Office is configured).

- Test Local Mode and Resume Local Mode (if Media Gateway 1000B is configured).

    Note 1: Press the **Services** key to exit from any menu or menu item.

Press the **Headset** key to answer a call using the headset or to switch a call from the handset or handsfree to the headset.

Press the **Speaker** key to activate handsfree. The speaker LED indicator lights to indicate when handsfree is active.

(Directory)

Press the **Directory** key to access directory services.

(Mute)

Press the **Mute** key to listen to the receiving party without transmitting. Press the **Mute** key again to return to two-way conversation. The **Mute** key applies to handsfree, handset, and headset microphones. The Mute LED indicator flashes when the Mute option is in use.

Fwd

Soft keys (self-labeled) are located below the display area. The LCD label above the key changes, based on the active feature.

▶Fwd

> *Note:* When a triangle appears before a soft key label, the feature is active.

More..

Press the **More...** key to access the next layer of soft keys (self-labeled).

When a message is left for the user, the **Message waiting indicator** flashes. Also, this indicator flashes when the telephone ringer is ON.

(Quit)

Press the **Quit** key to end an active application. Pressing the **Quit** key does not affect the status of calls currently on your telephone.

(Expand to PC)

The **Expand to PC** key is a fixed key reserved for future development.

(Outbox/Shift)

The **Outbox/Shift** key is a fixed key that is reserved for future development.

Call features and Flexible Feature Codes

System administration is required for call features and Flexible Feature Codes (FFCs). Contact your system administrator to configure these features and codes on your telephone.

Call features and FFCs must be assigned to your telephone and supported by system software.

Security features

This section describes the following features, which are designed to enhance the security of your IP Phone 2002:

• Secure communication

• Managing your Station Control Password

Secure communication

Your IP Phone 2002 supports secure communication using SRTP and a Pre-Shared Key (PSK) media encryption feature. If the feature is enabled, a security icon ( ) appears on the screen when your call is secured using SRTP (PSK). Contact your system administrator to find out if this feature is enabled on your phone.

Managing your Station Control Password

Your Station Control Password (SCPW) enables the following security features:

• Electronic Lock to prevent others from making calls from your telephone.

• Password-protected telephone features (for example, Personal Directory, Redial List and Callers List).

Your initial SCPW is defined by your system administrator. Please contact your system administrator for detailed information.

To change your password (SCPW):

(Services)

1. Press the **Services** key.

2. Press the **Up/Down** navigation keys to scroll and highlight **Password Admin**.

Select

3. Press the **Select** soft key.

4. Use the dialpad to enter your password at the prompt.

5. Press the **Up/Down** navigation keys to scroll and highlight **New Password**.

Select

6. Press the **Select** soft key.

7. Use the dialpad to enter the new password.

Select

8. Press the **Select** soft key to accept the new password.

   Note: If you have been locked out of your IP Phone 2002, or have forgotten your SCPW, please contact your system administrator.

Note: The default configuration for Password Protection is off.

To turn Password Protection on or off:

(Directory)

1. Press the **Directory** key.

2. Press the **Up/Down** navigation keys to scroll and highlight **Change Protection Mode**.

3. Use the dialpad to enter your password (if Password Protection is enabled).

Enter

4. Press the **Enter** soft key.

5. Press the **Up/Down** navigation keys to highlight one of the following:

   — Enable Password Protection

   — Disable Password Protection

Yes **or** No

6. Choose one of the following soft keys:

— **Yes** to accept the selection.

— **No** to return to the Directory menu.

Done

7. Press the **Done** soft key.

Entering and editing text

You can enter and edit text on your IP Phone 2002 using the following methods:

- Enter and edit text using the telephone dialpad.

- Edit text using the soft keys.

Entering text using the dialpad

You can use the dialpad to enter text when you use features such as Personal Directory, Redial List, and Callers List.

For example, if you want to use the letter "A", press the number **2** key once. If you want the letter "C", press the number **2** key three times.

Note: No letters are associated with the number 1 or the 0 keys.

Editing text using the soft keys

You can use soft keys to edit text when you use features such as Personal Directory, Redial List, and Callers List.

To edit an entry in your Personal Directory, press the **Directory** key, and select the desired entry from your Personal Directory.

To edit text:

1. Press the **Edit** soft key.

2. Press the **Left/Right** navigation keys to move through the text.

3. Select the appropriate editing soft key for the operation you want to perform.

4. If the key you want is not visible, press the **More...** soft key to access additional soft keys (self-labeled).

5. Press the **Up** navigation key to access the symbols.

6. Press the **Left/Right** navigation keys to move to a specific symbol.

7. Press the **Choose** soft key to select a symbol.

8. Press the **Next** soft key to submit your changes.

Table 2 describes the soft key editing functions on the IP Phone 2002.

Table 2: Editing soft key description

Key	Description
Cancel	Action is cancelled.
Choose	Select a symbol.
Clear	Clear the input field.
Case	Switch the next character to either uppercase or lowercase.
Delete	Backspace one character.
Done/Select/Enter	Meaning depends on application.
More...	Access additional soft keys.

Connecting the components

Before you begin

⚠️ **CAUTION**
Damage to Equipment
Do not plug the IP Phone 2002 into a regular telephone jack. This results in severe damage to the IP Phone. Consult your system administrator to ensure that you plug your telephone into a 10/100BaseT Ethernet jack.

Connecting the components of the phone

1. Connect one end of the handset cord to the handset jack (identified with a handset icon) on the back of the telephone. Connect the other end to the jack on the handset.

2. Choose one of the following connections:

   a. *For a telephone not sharing LAN access with a PC*, connect one end of the CAT5 line cable to the LAN ethernet port located on the back of the telephone (identified with a LAN icon). Plug the other end of the CAT5 line cable into the IP network.

   b. *For a telephone sharing LAN access with a PC*, connect one end of the CAT5 line cable to the LAN ethernet port located on the back of the telephone (identified with a LAN icon) and the other end to the IP network. Insert a second CAT5 line cable into the PC ethernet port located on the back of the telephone (identified with a PC icon) and the other end into the computer's Ethernet port.

3. Contact your installation technician for the proper power option. This telephone can be powered by an AC adapter or over a LAN.

4. Thread the cord around the strain relief, retaining hook, and channel provided for a secure power connection.

5. Secure the telephone footstand to the telephone base. Use the angle grip on the top back of the telephone to change position.

Figure 4 shows connections on the IP Phone 2002.

Figure 4: IP Phone connections

Configuring options

The IP Phone 2002 **Services** menu lists the following submenus:

*   The **Telephone Options** menu enables you or your system administrator to configure telephone preferences.

*   **Password Admin** menu enables you or your system administrator to change the Station Control Password.

*   The **Virtual Office Login** and **Test Local Mode** (for Branch Office) menus are listed when an IP Phone 2002 Class of Service is configured for Virtual Office and Branch Office. For more information, see "Using Virtual Office" on page 111.

    Note: The **Password Admin**, **Virtual Office Login**, and **Test Local Mode** menus are not available on all IP Phone 2002 phones. Consult your system administrator.

The **Telephone Options** menu offers the following options:

Volume adjustment...	Display Diagnostics
Contrast adjustment	Local DialPad Tone
Language...	Ring type...
Date/Time format...	Change feature key label
OnHook Default Path	Set Info
Call Timer	
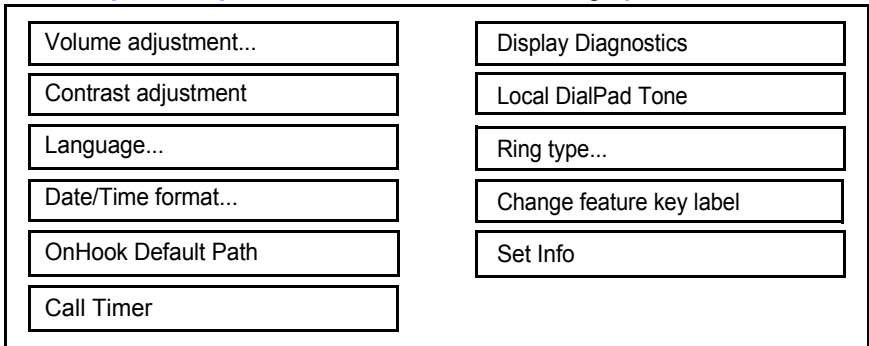
Using the Telephone Options menu

Use the Telephone Options menu to access the following:

*   "Adjusting volume" on page 30
*   "Adjusting the display screen contrast" on page 31
*   "Selecting a language" on page 32
*   "Selecting date/time format" on page 32

- • "Enabling OnHook Default Path" on page 33
- • "Enabling/disabling Call Timer" on page 33
- • "Choosing a local dialpad tone" on page 35
- • "Choosing a ring type" on page 35
- • "Changing feature key labels" on page 36
- • "Viewing telephone information" on page 38

When an option has a submenu, an ellipsis (...) appears after the option.

To use the Telephone Options menu:

(Services)

1. Press the **Services** key.

2. Press the **Up/Down** navigation keys to scroll and highlight **Telephone Options**.

Select

3. Press the **Select** soft key.

4. Use the **Up/Down** navigation keys to scroll and highlight an option (for example, **Language…**).

Select

5. Press the **Select** soft key. The display provides information required to adjust your selection.

6. Choose one of the following:

    Select   or   Cancel
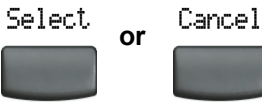
    — Press the **Select** soft key to save changes and return to the **Telephone Options** menu.

    — Press the **Cancel** soft key to keep existing configurations.

Adjusting volume

To adjust the volume, press the **Services** key and select **Volume adjustment…** from the **Telephone Options** menu.

To adjust the volume:

1. Press the **Up/Down** navigation keys to scroll and highlight one of the following:

    — **Ringer**

    — **Handset listen**

    — **Handsfree listen**

    — **Headset listen**

    — **Buzzer**

Select

2. Press the **Select** soft key.

Down   or   Up

or
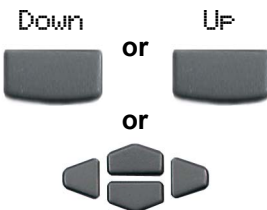
3. To increase or decrease the volume, do one of the following:

    — Press the **Down/Up** soft keys.

    — Press the **Up/Down** navigation keys.

4. Choose one of the following:

Select or Cancel
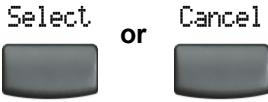
— Press the **Select** soft key to save the volume level and return to the **Telephone Options** menu.

— Press the **Cancel** soft key to keep existing configurations.

Adjusting the display screen contrast

To adjust the LCD display screen contrast, press the **Services** key and select **Contrast adjustment** from the **Telephone Options** menu.

Note: If you have a Nortel IP Phone KEM attached to your telephone, adjusting the telephone's LCD screen contrast also adjusts the display screen contrast configuration for the IP Phone KEM.

To adjust the display screen contrast:

Lower Higher

or

1. To increase or decrease the display contrast level, choose one of the following:

— Press the **Lower/Higher** soft keys.

— Press the **Up/Down** navigation keys.

Select or Cancel

2. Choose one of the following:
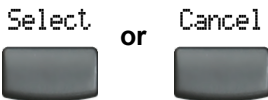
— Press the **Select** soft key to save the contrast level and return to the **Telephone Options** menu.

— Press the **Cancel** soft key to keep existing configurations.

Selecting a language

The display is available in multiple languages. To choose a language, press the **Services** key and select **Language…** from the **Telephone Options** menu.

To select a language:

1. Press the **Up/Down** navigation keys to scroll and highlight the desired language (for example, German [Deutsche]).

2. Choose one of the following:

   — Press the **Select** soft key to save the language and return to the **Telephone Options** menu.

   — Press the **Cancel** soft key to keep existing configurations.

Selecting date/time format

Several date/time formats are available. Formats are based on the 12-hour and 24-hour clocks. To select a date/time format, press the **Services** key and select **Date/Time…** from the **Telephone Options** menu.

To select date and time format:

1. Press the **Up/Down** navigation keys to scroll and highlight the desired format. Sample formats appear on the upper-right side of the display area.
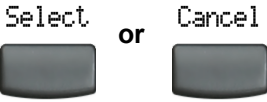
2. Choose one of the following:

— Press the **Select** soft key to save the format and return to the **Telephone Options** menu.

— Press the **Cancel** soft key to keep existing configurations.

Enabling OnHook Default Path

The OnHook Default Path option allows you to use a headset or the Handsfree feature to operate your IP Phone while it is on-hook. To enable OnHook Default Path, press the **Services** key and select **OnHook Default Path** from the **Telephone Options** menu.

To enable Onhook Default Path:

1. Press the **Up/Down** navigation keys to highlight one of the following:

— **Handsfree enable**
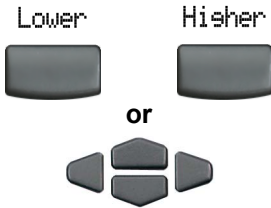
— **Headset** enable
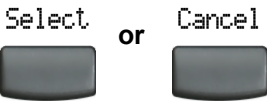
2. Choose one of the following:

— Press the **Select** soft key to save the default path and return to the **Telephone Options** menu.

— Press the **Cancel** soft key to keep existing configurations.

Enabling/disabling Call Timer

The call timer measures how long you are on each call. To enable or disable call timer, press the **Services** key and select **Call Timer** from the **Telephone Options** menu.

To enable/disable Call Timer:

1. Choose one of the following:

   — To enable the call timer, press the **On** soft key.

   — To disable the call timer, press the **Off** soft key.

2. Choose one of the following:

   — Press the **Select** soft key to save the configuration and return to the **Telephone Options** menu.

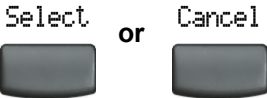   — Press the **Cancel** soft key to keep existing configurations.

Accessing display diagnostics

The Display Diagnostics option tests the telephone's display screen and indicator lights. To access display diagnostics, press the **Services** key and select **Display Diagnostics** from the **Telephone Options** menu.

To select display diagnostics:

1. Press the **Up/Down** navigation keys to scroll through the list to view display capabilities.

2. Press the **Cancel** soft key to return to the **Telephone Options** menu.

Choosing a local dialpad tone

The Local DialPad Tone option produces Dual-Tone Multi-Frequency (DTMF) sounds, a single tone, or no sound when you press a key on the dialpad. To choose a local dialpad tone, press the **Services** key and select **Local DialPad Tone** from the **Telephone Options** menu.

To choose a local dialpad tone:

1. Press the **Up/Down** navigation keys to highlight one of the following dialpad tones:

   — **None** to disable all tones.

   — **Short Click** to enable a single tone for all keys.

   — **DTMF** to turn on a separate DTMF tone for each key.

2. Choose one of the following:
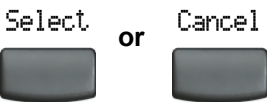
   — Press the **Select** soft key to save the tone selection and return to the **Telephone Options** menu.

   — Press the **Cancel** soft key to keep existing configurations.

Choosing a ring type

The Ring type… option configures the telephone's ring tone. To choose a ring type, press the **Services** key and select **Ring type…** from the **Telephone Options** menu.

To select a ring type:

1. Press the **Up/Down** navigation keys to scroll and highlight one of the ring types.
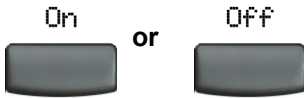
Play

2. Press the **Play** soft key to sample the ring tone.

3. Choose one of the following:

Select

— Press the **Select** soft key to save the ring type and return to the **Telephone Options** menu.

Stop

— Press the **Stop** soft key and use the **Up/Down** navigation keys to select a different ring type.

Cancel

— Press the **Cancel** soft key to keep existing configurations.

Changing feature key labels

The Change feature key label option renames the label displayed next to each feature key or restores the default labels to the keys. To rename feature key labels, press the **Services** key and select **Change feature key labels** from the **Telephone Options** menu.

Note: If a feature key is configured as an autodial key, the label does not change if the autodial key configuration changes.

To rename the labels:

Select

1. Press the **Select** soft key.

Home

2. Press the feature key that is being changed.

   Note: If you enter a prime DN key, an error message displays.

3. Enter the new information for the feature key label. To enter special characters, press the **Up** navigation key. For information about entering text, refer to "Entering text using the dialpad" on page 24.

4. Choose one of the following:

Select **or** Cancel

   — Press the **Select** soft key to save the changes and return to the **Telephone Options** menu.

   — Press the **Cancel** soft key to keep existing configurations.

To restore default labels, press the **Services** key and select **Change feature key labels** from the **Telephone Options** menu.

To Restore the default labels

Select

1. Press the **Select** soft key.

2. Use the **Up/Down** navigation keys to scroll and highlight one of the following:

   a. Restore all key labels

   — Press the **Yes** soft key to change all feature keys to default values.

   b. Restore one key label

   — Press the **Select** soft key.

   — Press the feature soft key.

   — Press the **Yes** soft key to change the selected feature key label to the default value.

   Note: When labels are changed to default values, you cannot undo the change. The labels must be re-entered.

Viewing telephone information

The Set Info option displays the following telephone-specific information:

- General Information
- Set IP Information
- Ethernet Information
- Server Information

To view telephone information, press the **Services** key, select **Telephone Options**, and then select **Set Info** from the menu.

To view telephone information:

1. Press the **Up/Down** navigation keys to scroll through the list to view telephone information.

Cancel

2. Press the **Cancel** soft key to return to the **Telephone Options** menu.

Configuring call log options

Use the call log option to configure the following preferences:

- "Configuring the Callers List log" on page 39
- "Configuring New Call indication" on page 40
- "Configuring Preferred Name Match" on page 41
- "Configuring Area Code setup" on page 42

Configuring the Callers List log

You can configure the Callers List to log all incoming calls or only unanswered calls. The default configuration is "Log all calls". To log unanswered calls only, press the **Services** key and select **Call Log Option** from the **Telephone Options** menu.

To log only unanswered calls:

1. Press the **Up/Down** navigation keys to scroll and highlight the **Log Mode** option.

Select

2. Press the **Select** soft key.

3. Press the **Up/Down** navigation keys to scroll and highlight **Log unanswered calls**.
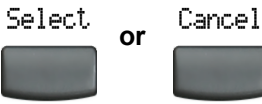
4. Choose one of the following:

— Press the **Select** soft key to save the configuration.

Select or **Cancel**

— Press the **Cancel** soft key to keep existing configurations.

Configuring New Call indication

You can configure the IP Phone 2002 to display a message to indicate that a new incoming call was received. The default configuration is On. To configure new call indication, press the **Services** key and select **Call Log Option** from the **Telephone Options** menu.

To configure New Call indication:

Select

1. Press the **Select** soft key to select Incoming Calls.

Select

2. Press the **Select** soft key.

3. Press the **Up/Down** navigation keys to scroll and highlight **New Call Indication**.

Select

4. Press the **Select** soft key.

5. Press the **Up/Down** navigation keys to scroll and highlight one of the following:

    — **New call indication off**

    — **New call indication on**

6. Choose one of the following:

    — Press the **Select** soft key to save the configuration.

    — Press the **Cancel** soft key to keep existing configurations.
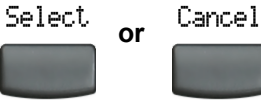
Configuring Preferred Name Match

You can configure the IP Phone 2002 to display the name of the caller as defined in your Personal Directory. The default configuration is Off. To configure Preferred Name Match, press the **Services** key and select **Call Log Option** from the **Telephone Options** menu.

To configure Preferred Name Match:

1. Press the **Up/Down** navigation keys to scroll and highlight **Preferred Name Match**.

2. Press the **Select** soft key.

3. Press the **Up/Down** navigation keys to scroll and highlight one of the following:

    — **Preferred name match on**

    — **Preferred name match off**
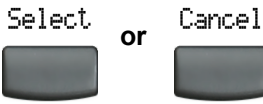
4. Choose one of the following:

— Press the **Select** soft key to save the configuration.

— Press the **Cancel** soft key to keep existing configurations.

Configuring Area Code setup

Use the **Area Code Setup** menu to save up to three area codes. When an incoming call arrives with an area code that matches one of the three stored area codes, the incoming call number is reordered to display the telephone number followed by the area code (as opposed to the area code followed by the telephone number). This reordering is also performed when a user scrolls through their Callers List. To configure the area code, press the **Services** key and select **Call Log Option** from the **Telephone Options** menu.

To configure default area codes (maximum of three):

1. Press the **Up/Down** navigation keys to scroll and highlight **Area Code Setup**.

2. Press the **Select** soft key.

3. Press the **Up/Down** navigation keys to scroll and highlight one of the following:

— Area Code # 1

— Area Code # 2

— Area Code # 3

Select

4. Press the **Select** soft key.

5. Use the dialpad to enter the number at the prompt.

6. Choose one of the following:

Select **or** Cancel

— Press the **Select** soft key to save the configuration.

— Press the **Cancel** soft key to keep the existing configurations.

To edit area code display:

1. Press the **Up/Down** navigation keys to scroll and highlight **Area Code Setup**.

Select

2. Press the **Select** soft key.

3. Press the **Up/Down** navigation keys to scroll and highlight one of the following:

— Area Code # 1

— Area Code # 2

— Area Code # 3

Select

4. Press the **Select** soft key.

5. Use the dialpad to edit the number.

6. Choose one of the following:

Select **or** Cancel

—   Press the **Select** soft key to save the configuration.

—   Press the **Cancel** soft key to keep existing configurations.

Configuring Name Display format

You can configure the IP Phone 2002 to display the name of the incoming calling party in the following formats:

•   first name/last name

•   last name/first name

To configure name display format, press the **Services** key and select **Telephone Options**.

To configure name display format:

1. Press the **Up/Down** navigation keys to scroll and highlight **Name display format**.

Select

2. Press the **Select** soft key.

3. Press the **Up/Down** navigation keys to scroll and highlight one of the following:

    — **first name, last name**

    — **last name, first name**

4. Choose one of the following:

    — Press the **Select** soft key to save the configuration.

    — Press the **Cancel** soft key to keep existing configurations.
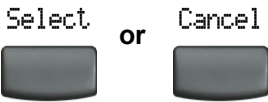
Making a call

This section describes features associated with making a call. You can make a call from an IP Phone 2002:

*   "Using off-hook dialing" on page 46
*   "Using on-hook dialing" on page 47
*   "Using Handsfree dialing" on page 48
*   "Using the Directory applications" on page 49
*   "Viewing the date and time of a call" on page 53
*   "Using AutoDial" on page 56
*   "Using Ring Again" on page 57
*   "Using Last Number Redial" on page 58
*   "Using Speed Call" on page 59
*   "Using System Speed Call" on page 60
*   "Using Hot Line" on page 61
*   "Using Intercom" on page 61

Using off-hook dialing

Use the off-hook dialing option to dial the number after you have lifted the handset.
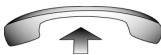
1. Lift the handset.

2. Dial the number.
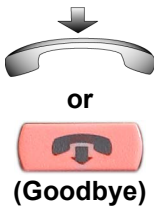
or

(Goodbye)

3. To terminate the call, choose one of the following:

    —   Replace the handset into the cradle.

    —   Press the **Goodbye** key.

Using on-hook dialing

Use on-hook dialing to dial the number before lifting the handset
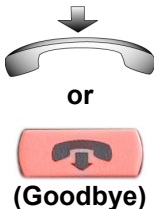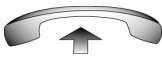
1. Leave the handset in the cradle.

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2. Press the line (DN) key.

3. Dial the number when the dial tone sounds.

4. When the called party answers, lift the handset.

or

(Goodbye)

5. To terminate the call, choose one of the following:

    —   Replace the handset into the cradle.

    —   Press the **Goodbye** key.

Using Handsfree dialing

Use Handsfree dialing to use a built-in microphone and speaker, or a headset, instead of the handset. While on an active call, you can switch between Handset and Handsfree mode.

1. Press the **Handsfree** key.

2. If a headset is connected, press the **Headset** key.

3. Dial the number.

To discontinue a handsfree call:

(Goodbye)

Press the **Goodbye** key.

To mute a handsfree call:

(Mute)

1. Press the **Mute** key. The LED indicator flashes.

(Mute)

2. Press the **Mute** key again to return to a two-way handsfree conversation.

To switch from Handsfree to Handset mode:
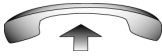
Lift the handset.

To switch from Handset mode to Handsfree mode:

1. Press the **Handsfree** key.
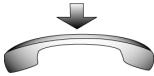
2. Replace the handset.

To use a headset:

1. Connect the **headset** to the headset jack or the handset jack.

2. Press the **Headset** key.

To switch from Handsfree to headset:

1. Press the **Headset** key.

Using the Directory applications

You can make calls using the following Directory applications available on your IP Phone 2002:

• "Making a call using the Personal Directory" on page 51

• "Making a call using the Callers List" on page 52

• "Making a call using the Redial List" on page 53

Making a call using the Corporate Directory

The Corporate Directory feature provides an alphabetical list of entries using last names. You can search by name, view additional information on each entry, and dial Corporate Directory numbers.To use Corporate Directory, press the **Directory** key and select **Corporate Directory**.

To search for a specific number:

1. When prompted, use the dialpad to enter the desired name in the last name/first name format.

Search

2. Press the **Search** soft key to find the desired name.

   Note: A successful search displays the first match on the screen.

3. Choose one of the following:
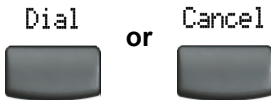
   Dial **or** Cancel

   — Press the **Dial** soft key to dial the resulting number.

   — Press the **Cancel** soft key to exit without dialing.

   Note: If there is no match to the search query, start a new search or change the information in the initial search.

To scroll to a specific number:

1. Press the **Up/Down** navigation keys to scroll and highlight a name in Corporate Directory.

2. Choose one of the following:

   — Press the **Dial** soft key to dial the resulting number.

   — Press the **Cancel** soft key to exit without dialing.

Making a call using the Personal Directory

The Personal Directory feature allows you to store a maximum of 100 entries consisting of names and numbers. To use Personal Directory, press the **Directory** key and select **Personal Directory**. For information on how to configure and use Personal Directory, refer to "Using the Personal Directory" on page 104.

To make a call using Personal Directory:

1. Press the **Up/Down** navigation keys to scroll and highlight a name in the **Personal Directory**.

2. Choose one of the following:

   — Press the **Dial** soft key to dial the resulting number.

   — Press the **Cancel** soft key to exit without dialing.
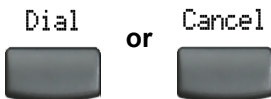
Making a call using the Callers List

The Callers List feature automatically stores up to a maximum of 100 callers. After 100 callers have been stored, each additional caller overwrites the oldest entry. To use Callers List, press the **Directory** key and select **Callers List**. For information on how to configure and use Callers List refer to "Using the Callers List" on page 107.

To make a call using the Callers List:

1. Press the **Up/Down** navigation keys to scroll and highlight a name in the **Callers List.**
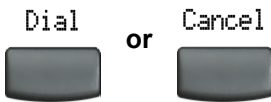
2. Choose one of the following:

   — Press the **Dial** soft key to dial the resulting number.

   — Press the **Cancel** soft key to exit without dialing.

Making a call using the Redial List

The Redial List feature automatically stores a maximum of 20 previously dialed telephone numbers. To use Redial List, press the **Directory** and select **Redial List**. For information on how to configure and use Redial List, refer to "Using the Redial List" on page 109.

To make a call using Redial List:

1. Press the **Up/Down** navigation keys to scroll and highlight a name in the **Redial List**.

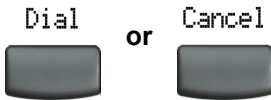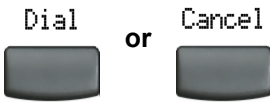2. Choose one of the following:

   — Press the **Dial** soft key to dial the resulting number.

   — Press the **Cancel** soft key to exit without dialing.

Viewing the date and time of a call

In both the Redial List and Caller List, you can check the date and time of a call.

To view date and time of a call:

1. Press the **Up/Down** navigation keys to scroll and highlight a name in the **Redial List** or **Caller List**.

2. Press the **Right** navigation key to display the DN of the selected entry.

3. Choose one of the following:

    — In the **Redial List**, press the **Down** navigation key to display the date and time the last call was placed to the selected entry.

    — In the **Caller List**, press the **Down** navigation key twice to display the date and time of the last call from the selected entry.

    Note: In the Caller List, the first press of the Down navigation key displays the number of times a caller has called.

Using Predial

Use the Predial feature to enter, preview, and edit numbers before dialing.

To use Predial:
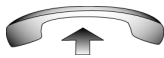
1. Without selecting the line key, enter the number to be dialed.

2. Press a line key to dial the number.

2498

3. Lift the handset when the called party answers or, if in Handsfree mode, begin to speak.

To edit a Predial number:

1. Use the dialpad to enter the number.

2. Choose one of the following:

   — To erase all numbers, press the **Clear** soft key. Re-enter the numbers to be dialed.

   — To change numbers one-at-a-time, press the **Delete** soft key to backspace. Re-enter the number.

Clear   Delete

or
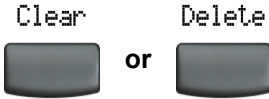
2498

3. Press a line key to dial the number.

Using AutoDial

Use the AutoDial feature to display, store, and automatically dial telephone numbers.

To store an AutoDial number:

AutoDial   ⬜

1. Without lifting the handset, press the appropriate **AutoDial** key.

   Note: The display screen displays the word "Autodial" next to the appropriate key.

2. Using the dialpad, dial the telephone number (including access code) to be stored on the selected **AutoDial** key.

AutoDial   ⬜

3. Press the **AutoDial** key a second time to store the number on the selected key.

   Note: Once a number has been stored, the word "Autodial" disappears, and the stored number displays.

4. Assign a label to the key.

   Note: After assigning the label, the number disappears and only the label appears on the screen next to the key.

To display an AutoDial number:

Display   ⬜

1. Press the **Display** key.

AutoDial

2. Press an **AutoDial** key in the upper display area to display the number associated with that key.

To use AutoDial:

1. Lift the handset.

AutoDial

2. Press an **AutoDial** key in the upper display area to dial the number associated with that key.

Using Ring Again

Use the Ring Again feature if you receive a busy tone or if there is no answer. Your IP Phone rings when the person you called becomes available. Ring Again automatically redials the number.

To activate Ring Again:

1. Dial a number and receive a busy tone or no answer.

RngAgn

2. Choose one of the following:

    — Press the **Ring Again** soft key.

or

    — Enter the **RingAgain Activate** FFC.

To call a Ring Again party when you receive notification:
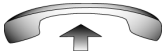
1. After receiving the notification ring, lift the handset, or if you are using the headset, go to Step 2.

RngAgn

2. Press the **Ring Again** soft key to automatically dial the number.

To deactivate Ring Again before notification:

Choose one of the following:

RngAgn

— Press the **RingAgain** soft key a second time.

or

— Enter the **RingAgain Deactivate** FFC.

Using Last Number Redial

Use the Last Number Redial feature to automatically redial the last dialed number.

To use Last Number Redial:

Choose one of the following:
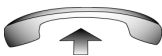
1. To redial using the handset:

   a. Lift the handset.

   b. Press the line (DN) key.

2493

2498　　⬜　　2. To redial without lifting the handset, press the line (DN) key twice (the last number dialed is automatically redialed).

Using Speed Call

Use the Speed Call feature to place internal and external calls by dialing a one-, two-, or three-digit code to store, edit, and automatically dial frequently called telephone numbers.

To store a Speed Call number:

SpcCtl
⬜

1. Press the **Speed Call Controller** soft key. The triangular icon flashes, indicating programming mode.

▦

2. At the prompt:

— Enter a one-, two-, or three-digit code (0-999).

— If required, dial the access code.

— Enter the telephone number (internal, external or long-distance number).

SpcCtl
⬜

3. Press the **Speed Call Controller** soft key again to save the code and number. The flashing icon turns off.

To make a Speed Call:
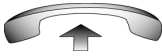
1. Lift the handset.

SpcCt1

2. Press the **Speed Call Controller** soft key.

3. Dial the **Speed Call** code to automatically dial the number.

Using System Speed Call

Use the System Speed Call feature to dial Speed Call codes that override dialing restrictions placed on your telephone.

To make a System Speed Call:

1. Lift the handset.

SScUsr   or   SScCt1

2. Choose one of the following:

   — Press the **System Speed Call** soft key.

   — Press the **System Speed Call Controller (SScCtl)** key.

3. Dial the **Speed Call** code to automatically dial the number.

Using Hot Line

Use the Hot Line feature to automatically dial a specific number.

To use Hot Line:

Hotlne   Press **Hot Line** to automatically dial the number.

Using Intercom

Use the Intercom feature to call a member of your intercom group by pressing the code assigned to each member.

To make an Intercom call:
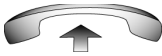
1. Lift the handset.

Intrcm   2. Press the **Intercom** key.

3. Dial the one- or two-digit code for the desired intercom group member.

To answer an Intercom call while on a line other than your Intercom group line:

(Hold)

or

(Goodbye)

1. Choose one of the following keys:

   — Press the **Hold** key to put the current call on hold.

   — Press the **Goodbye** key to end the call.

Intrcm

2. Press the **Intercom** key and begin to speak.

Answering a call

Each incoming call causes the telephone to ring, the LCD indicator ☎ beside the Line (DN) key to flash, and the Message Indicator lamp to flash.

To answer a call:

Choose one of the following four options:

• Lift the handset.

or

• Press the **Handsfree** button located on the left side of the handset.

or

2493

• Press the line (DN) key beside the LCD indicator as it flashes.

or

• Press the **Headset** key if a headset is connected to your telephone.

While on an active call

This section describes the following features, available during an active call:

Placing a call on hold

Use the Hold feature when talking on one line and another call arrives on a second line. Retain the original call by putting it on hold and then answer the second call.

To place a call on hold:

(Hold)

Press the **Hold** key. The LCD indicator flashes beside the line on hold.

Note: If **Automatic Hold** is enabled, the active call is automatically put on hold when you answer the second call.

To retrieve a call on hold:

2493

Press the line (DN) key beside the flashing LCD indicator.

Transferring a call

Use the Transfer feature to redirect a call to the appropriate person.

To use the Transfer feature to direct a call to a third party:

Trans
1. Press the **Transfer** soft key. The other party is on hold and a dial tone sounds. The LCD indicator light flashes steadily.

2. Dial the DN to which the call is to be transferred or use **Personal Directory, Redial List**, or **Callers List** to select a number to dial.

Trans
3. When that number rings or a person answers, press the **Transfer** soft key to connect the calling party.

To return to the original call, if the transfer is incomplete:

2493
If the person called is not available, press the line (DN) key (next to the LCD indicator) to reconnect to the original call.

Using Timed Reminder Recall

Use the Timed Reminder Recall feature to receive a reminder tone when a transferred call is not answered.

To use Timed Reminder Recall:

Trans

1. Press the **Transfer** soft key. The call is put on hold.

2. Dial the number to which the call is being transferred.

Trans

3. Choose one of the following to start the recall timer:

   — Press the **Transfer** soft key.

   or

   — Replace the handset before the extension answers.

   Note: If the transfer is complete, the recall timer stops.

If the transferred call is not answered, your telephone rings:
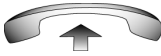
1. Lift the handset to reconnect to the original caller.

Trans

or

(Goodbye)

2. Choose one of the following:

   — Press the **Transfer** soft key and repeat the transfer.

   — If the transfer is picked up while you are on the line, press the **Goodbye** key to complete the transfer.

Using Attendant Recall

Use the Attendant Recall feature to contact an attendant during a call and to connect the call to the attendant.

To contact the attendant while on a call:

AttRcl

1. Press the **Attendant Recall** key and stay on the line until the attendant answers.

(Goodbye)

2. Press the **Goodbye** key. The caller remains connected to the attendant.

Using Call Park

Use the Call Park feature to hold temporarily (park) and retrieve a call from any telephone. Using Call Park does not tie up a line. When configured network-wide, Call Park can be used across networks. A System Park Extension can be configured to automatically park most calls.

To park a call on the System Park DN or your own DN:

Park   Park

During an active call, press the **Park** soft key twice.

Note: By default, the call is parked on your DN unless a **System Park** is enabled to automatically park calls on the system.

To park a call on a DN other than the System Park DN or your own DN:

Park

1. Press the **Park** soft key.

2. Dial the DN where you want to park the call.

Park

3. Press the **Park** soft key.

To park a call using the SPRE code or FFC:
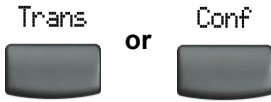
Trans **or** Conf

1. Choose one of the following.

 — Press the **Transfer** soft key.

 — Press the **Conference** soft key.

2. Dial the **Call Park** FFC.

3. To use an alternate DN from the **System Park** DN or your own DN, dial the DN where you want to park the call. Otherwise, proceed to Step 4.

Trans **or** Conf
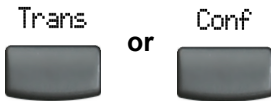
4. Choose one of the following.

 — Press the **Transfer** soft key.

 — Press the **Conference** soft key.

To retrieve a parked call:

1. Lift the handset.

Park

2. Press the **Park** soft key.

3. Dial the DN where you parked the call.

    Note: If a parked call is not retrieved within a specified period of time, it rings back to your telephone or to the attendant.

Recording a Calling Party Number

Use the Calling Party Number feature to record a caller's number, or to charge a call to an account number, during an established call.

To record a caller's number for accounting purposes:

CParty

1. Press the **Call Party** soft key. The caller is placed on hold.

2. Dial a charge account number or the caller's number.

    Note: For information on using the **Charge** key, see "Charging a call or charging a forced call" on page 93.

CParty

3. Press the **Call Party** soft key to return to the call.

Displaying incoming call information

Use the Display feature to display a second incoming caller's number and name (if available) during an active call, without interfering with the call in progress.

To view the information on an incoming call while on a call in progress:

Display   [button]   1. Press the **Display** key.

2493 ☎ [button]   2. Press the flashing line (DN) key. The call waiting information displays.

    Note: When used with other feature keys, the **Display** key displays information associated with those feature keys.

Tracing a malicious call

Use the Call Trace feature to trace nuisance calls within your system.

    Note: This is not a default feature. Contact your system administrator to configure this feature on your telephone.

To use Call Trace while on a call:

CallTrace   [button]   Press the **Call Trace** key.

To use Call Trace without a Call Trace key:
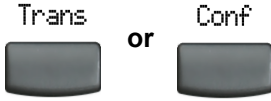
Trans   or   Conf

1. Choose one of the following:

   — Press the **Transfer** soft key.

   — Press the **Conference** soft key.

2. Dial the **SPRE code** followed by **83** or dial the **Call Trace** FFC to automatically reconnect.

Incoming calls

You can use the following features when you have an incoming call:

- "Using Automatic Answerback" on page 73
- "Using Call Pickup" on page 74
- "Using Call Waiting" on page 75

Using Automatic Answerback

When the Automatic Answerback feature is active, your telephone automatically answers in Handsfree mode after one ring; however, calls are *not* forwarded to the voice message service.

To activate Automatic Answerback:

AutoAns   Press the **Automatic Answerback** key.

To deactivate Automatic Answerback:

AutoAns   Press the **Automatic Answerback** key again.

Using Call Pickup

Use the Call Pickup feature to pick up calls from any telephone in the same pickup group or another pickup group.

To answer a call in your own call pickup group:

1. Lift the handset.

Pickup

or

2. Choose one of the following:
   — Press the **Pickup** key.
   — Enter the **Pickup Ringing Number** FFC.

To answer an incoming call in another call pickup group:

1. Lift the handset.

GrpPkp

2. Press the **Group Pickup** key or enter the **Pickup Group** FFC.

3. Dial the pickup group number of the ringing telephone.

To answer a call at a specific extension in any pickup group:

1. Lift the handset.

Pickup

or

2. Choose one of the following:

— Press the **Pickup** key.

— Enter the **Pickup Directory Number** FFC**.**

3. Dial the DN of the telephone that is ringing (in your call pickup group). If the pickup DN or group number is invalid (an overflow burst tone sounds and the screen displays *Goodbye and try again)*, press the **Goodbye** key.

Using Call Waiting

The Call Waiting feature alerts you to an incoming call by producing a tone. It also puts the current call on hold while you answer the new call.

To answer an incoming call while on another call:

(Hold)

1. When the incoming call tone sounds, press the **Hold** key to put the current call on hold.

   Note: If **Automatic Hold** is enabled, it is not necessary to press the **Hold** key.

CallWait

2. Press the **Call Waiting** key.

To return to the first telephone call:

(Hold)

or

(Goodbye)

1. Choose one of the following:

    —   Press the **Hold** key to put the second call on hold.

    —   Press the **Goodbye** key to end the second call.

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2. Press the line (DN) key associated with the first call.

If you do not have a Call Waiting key:

(Goodbye)

1. Press the **Goodbye** key to end the current call.

2493

2. Press the line (DN) key beside the flashing status icon to answer the incoming call.

While away from your desk

You can use the following features when you are away from your desk:

Using Call Forward

Use the Call Forward feature to direct incoming calls to ring on another line (DN). If the telephone is ringing, the call cannot be forwarded.

To forward your calls or change the forward number:

Fwd
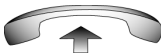
1. Choose one of the following:

    —   Press the **Forward** soft key.

    —   Lift the handset and enter the **Call Forward All Calls Activate** FFC.

2. Dial the DN where you want to forward your calls.

Fwd

3. Press the **Forward** soft key.

To deactivate Call Forward:
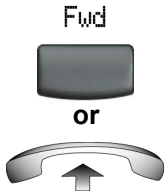
Fwd

or

Choose one of the following:

- Press the **Forward** soft key.

- Lift the handset and enter the **Call Forward All Calls Deactivate** FFC.

To reinstate Call Forward to the same number:

Fwd   Fwd

Press the **Forward** soft key twice.

Using Internal Call Forward

Use Internal Call Forward to accept only calls originating at internal DNs to ring at another DN. Calls originating outside your telephone system still ring at your telephone. Current incoming calls cannot be forwarded.

To forward internal calls:

IntForward

or
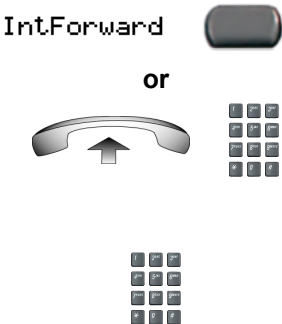
1. Choose one of the following:

   — Press the **Internal Call Forward** key.

   — Lift the handset and enter the **Internal Call Forward Activate** FFC.

2. Dial the DN to which your internal calls will be forwarded.

IntForward   3. Press the **Internal Call Forward** key.

To deactivate Internal Call Forward:

Choose one of the following:

IntForward   — Press the **Internal Call Forward**
                    key.

or   — Lift the handset and enter the
                    Internal Call Forward Deactivate
                    FFC.

To reinstate Call Forward to the same number:

IntForward   Press the **Internal Call Forward** key
                  twice.

Using Remote Call Forward

Use the Remote Call Forward feature to forward calls (from any
telephone other than your own) to any telephone.

To activate Remote Call Forward:

1. Lift the handset.

2. If calling from a telephone outside the
    system, dial your direct system access
    number and wait for dial tone.

3. Dial the **Remote Call Forward Activate** FFC to activate the feature.

4. Dial your **Station Control Password**. A dial tone sounds.

5. Choose one of the following:

   — Dial your DN.

   — To forward calls to the previous call forward telephone number, press the **#** key. (Do not perform steps 6 and 7.)

   or

   `#`

6. Dial the number to which calls are being forwarded. If calls are forwarded to an invalid number, a fast busy signal sounds.

7. Press the **#** key.

   `#`

To deactivate Remote Call Forward:

1. Lift the handset.

2. If calling from a telephone outside the system, dial the **direct system access** number and wait for the dial tone.

3. Dial the **Remote Call Forward Deactivate** FFC.

4. Dial your **Station Control Password**.

5. After hearing the dial tone, dial your DN.

6. Press the **#** key.

Securing your telephone

Use the Electronic Lock feature to prevent others from making calls from your telephone. The Electronic Lock feature is controlled using your Station Control Password (SCPW). To change your Station Control Password, please refer to "Security features" on page 20.

To lock your telephone:
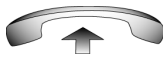
1. Lift the handset.

2. Dial the **Electronic Lock Activate** FFC.

3. Dial your **Station Control Password**.

(Goodbye)

or

4. Choose one of the following:

— If dialing locally, press the **Goodbye** key.

— If dialing the FFC remotely, dial your DN.

To unlock your telephone:

1. Lift the handset.

2. Dial the **Electronic Lock Deactivate** FFC.

3. Dial your **Station Control Password**.

(Goodbye)

or

4. Choose one of the following:

— If dialing locally, press the **Goodbye** key.

— If dialing the FFC remotely, dial your DN.

Talking with more than one person

Use the following features to enable conversations between more than two people:

*   "Using the Call Join feature" on page 83
*   "Setting up a conference call" on page 84
*   "Using the Conferee Selectable Display and Disconnect feature" on page 85
*   "Using Group Call" on page 86

Using the Call Join feature

Use the Call Join feature to connect a call to a current active call. This creates a conference between the two callers and yourself.

To connect a call on hold (on a different line) to your current call:

Conf
1. Press the **Conference** soft key.

2493 ☎
2. Press the line key that has the number of the caller you want to connect to your current call.

Conf
3. Press the **Conference** soft key to join the person on hold to your conversation.

Setting up a conference call

Use the Conference feature to set up a conference call. The maximum number of people the conference feature supports is either three or six, depending on the configuration of your telephone.

To set up a conference call:

Conf

1. While on a call, press the **Conference** soft key to place the party on hold. You receive a dial tone.

2. Dial the number of the person you want to add to the conference call. You can talk privately to the person you are adding at this time.

    Note: If you press the **Directory** key, you can also use **Corporate Directory, Personal Directory, Redial List,** and **Callers List** to find and dial the number of the person you want to add to the conference call.

Conf

3. Press the **Conference** soft key a second time to conference all parties together.

If the person you attempt to add to the conference is unavailable:

(Goodbye)

1. Press the **Goodbye** key.

2493 ☎ ⬭   2. Press the line (DN) key beside the flashing status icon to return to your original call.

Using the Conferee Selectable Display and Disconnect feature

Use the Conferee Selectable Display and Disconnect feature to list active conferees and disconnect a conferee from the conference call.

To view active conferees:

ConfDsp ⬭   1. While on a conference call, press the **Conferee Selectable Display** key to turn on the LCD indicator. Each key press changes the screen to show a different active conferee.

             Note: This action has no effect on the display of other telephones involved in the conference.

(Goodbye)   2. Press the **Goodbye** key. If configured, the **Conference Count Display** returns an updated total count of conferees. The LCD indicator turns off.

To disconnect a conferee:

ConfDsp ⬭   1. While on a conference call, press the **Conferee Selectable Display** key until the conferee you want to disconnect appears on the screen.

2493 📞 ⬜   2. Press the line (DN) key on which the conference call is established.

(Goodbye)   3. Choose one of the following:

— For a single conferee, press the **Goodbye** key. If configured, the **Conference Count Display** returns an updated total count of conferees. The LCD indicator turns off.

— For multiple conferees, repeat steps 1 and 2 until all conferees are disconnected. Then press the **Goodbye** key.

Using Group Call

Use the Group Call feature to automatically call members of a predefined group, one at a time, until they all answer.

To call group members:
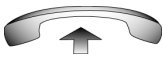
1. Lift the handset.

GrᴘC1   2. Press the **Group Call** key or enter the
                   Group Call FFC.

                   — The feature automatically calls all
                      group members. The icon flashes
                      until all members answer.

                   — The telephone numbers of the group
                      members appear on the display as
                      they answer. When the last person
                      answers, the **Group Call** indicator
                      lights steadily.

                   — When a person in your group is on a
                      conference call or another group
                      call, they are not connected to your
                      group call.

                   — After everyone in the group has
                      answered, only the person who
                      made the group call can put the call
                      on hold.

To answer a Group Call:

               1. Lift the handset. Note the following about
                   Notification Tones:

                   — If you are on a call and receive three
                      10-second tones, this is the
                      notification of a group call on your
                      current extension.

                   — If you are on a call on another line
                      when a group call is made, you
                      receive a long tone through the
                      handset or speaker.

                   — If you are already on a conference
                      call or another group call, you do not
                      receive notification of a group call.

To end a Group Call:

(Goodbye)

Press the **Goodbye** key.

Note: When the person who made the group call disconnects, the call terminates for all members of the group. However, the members of the group call can disconnect from the call and not affect other members on the call.

Working without interruption

This section describes the Activating Make Set Busy feature, which provides uninterrupted work time.

Activating Make Set Busy

Use the Make Set Busy feature to make your telephone appear busy to all callers.

To activate Make Set Busy:

MakeSetBsy

or
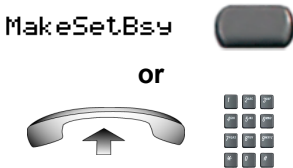
Choose one of the following:

— Press the **Make Set Busy** key.

— Lift the handset and enter the **Make Set Busy Activate** FFC.

To deactivate Make Set Busy:

MakeSetBsy

or
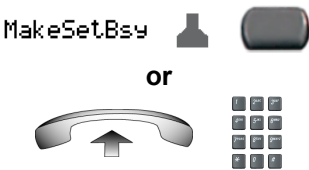
Choose one of the following:

— Press the **Make Set Busy** key a second time to deactivate the feature.

— Lift the handset and enter the **Make Set Busy Deactivate** FFC.

Additional call features

Contact your system administrator to determine if the following call features are available on your telephone.

Using AutoDial Transfer

Use the AutoDial Transfer feature to transmit digits through your AutoDial key to the Central Office after a Trunk Switchhook Flash. You must be on a Central Office/Exchange (CO) trunk call from or to a Central Office (CO) that offers Centrex or exchange line-type features.

To use AutoDial Transfer when picking up an incoming trunk call:

CentrexSHF

1. Press the **Centrex Switchhook Line Flash** key and wait for interrupted dial tone.

AutoDial

2. Press the **AutoDial** key to call the number desired.

(Goodbye)

3. Press the **Goodbye** key to end the call.

Using the Buzz feature

Use the Buzz feature to notify another person of a call, a visitor, or a request. Two telephones that are linked together enable one person to signal the other. The person signaled hears a buzz.

To buzz the telephone linked to your telephone:

Buzz

Press the **Buzz** key.The telephone linked to your telephone buzzes as long as you press the key.

Using Call Page Connect to make an announcement

Use the Call Page Connect feature to make an announcement over a paging system.

Note: A **Page** key on an attendant console overrides and disconnects the telephones. The telephones must re-access the page trunk.

To connect to Call Page:
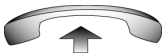
1. Lift the handset.

2. Dial the **Page Trunk Access Code** to complete the connection to the page system.

3. Make your announcement.

4. Press the **Goodbye** key.

(Goodbye)

Using Centrex/Exchange Line Switchhook Flash

Use the Centrex/Exchange Line Switchhook Flash feature during an established call to use a Centrex service, such as Call Transfer or Three-Way Calling.

To use Centrex/Exchange Line Switchhook Flash:

CentrexSHF

1. While on a call, press the **Centrex Line Switchhook Flash** key. A special dial tone sounds.

2. Dial the codes for your custom **Centrex** feature.

3. Press the **Goodbye** key to end the call.

(Goodbye)

Charging a call or charging a forced call

Use the Call Charge feature to charge a call to a specific account.
The Forced Charge feature charges long-distance calls from a telephone restricted to local calls.

To charge a local or long-distance call to an account before you dial:
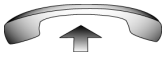
1. Lift the handset.

2. Press the **Charge** soft key or dial the **Call Detail Recording** FFC.

3. Dial the charge account number.

4. When the dial tone sounds, dial the number.

To charge a call in progress:

1. Choose one of the following:
   — Press the **Transfer** soft key.
   — Press the **Conference** soft key.

Charge

or

2. Choose one of the following:

— Press the **Charge** soft key.

— Dial the **Call Detail Recording** FFC.

3. Dial the charge account number.

2498

4. Press the line (DN) key to return to the call.

To charge a call to an account when you transfer a call:

Trans

1. Press the **Transfer** soft key. The call is on hold.

Charge

or

2. Choose one of the following:

— Press the **Charge** soft key.

— Dial the **Call Detail Recording** FFC.

3. Dial the charge account number.

4. After the dial tone, dial the number to where the call is to be transferred.

Trans

5. Press the **Transfer** soft key when you hear the telephone ring.

   Note: You can talk privately to the person at the transfer number before you press the **Transfer** soft key.

To charge a call to an account when you add someone to a conference call:

Conf

1. Press the **Conference** soft key. The call is placed on hold.

Charge

or

2. Choose one of the following:
   — Press the **Charge** soft key.
   — Dial the **Call Detail Recording** FFC.

3. Dial the charge account number.

4. Dial the number of the person you want to add to the conference.

Conf

5. Press the **Conference** soft key.

Using Enhanced Override

Use the Enhanced Override feature to override an active call after you attempt a Forced Camp-on. Use Enhanced Override to make a simple call or a consultation call, such as placing a call on hold and calling another party.

To use Enhanced Override:

You receive a busy signal after dialing a telephone number.

EnhOvr

or

1. Choose one of the following:

    —   Press the **Override** key.

    —   Enter the **Override** FFC to initiate a Forced Camp-on.

    If either person on the call disconnects at this time, you receive an overflow (fast busy/engaged) signal.

2. Choose one of the following:

EnhOvr

— Press the **Override** key again.

or

— Enter the **Override** FFC again.

The other two persons on the call receive an override tone and a conference call is established between the three of you. If anyone disconnects, the other two persons remain connected.

(Goodbye)

3. To terminate the call, press the **Goodbye** key.

Using Forced Camp-on feature

Use the Forced Camp-on feature to automatically ring another telephone (internal or external) immediately after that telephone disconnects from its current call.

To use Forced Camp-on:

You receive a busy signal after dialing a telephone number.

1. Choose one of the following:

EnhOvr

— Press the **Override** key.

or

— Enter the **Override** FFC, to initiate a Forced Camp-on.

Note: The person you called receives a tone, and you receive a ring/ringback signal or a busy/engaged signal, depending on the options chosen. You are now camped-on to the number you dialed.

2. Hang up the telephone.

3. When the person you called finishes their call, your telephone automatically dials the number and both telephones ring.

Answering a call camped-on to your extension:
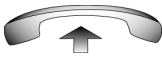
When your telephone rings, lift the handset.

Note: You can program your telephone for either Camp-on or Call Waiting, but not both.

Overriding a busy signal

Use the Override feature to override a busy signal and interrupt another call.

To override a busy/engaged signal:

	1. Dial a telephone number and receive a busy signal.
	2. Choose one of the following:
EnhOvr	— Press the **Override** key.
or	— Enter the **Override** FFC. The people in the targeted call receive a tone for approximately one second. After Override joins you to their call, a short tone repeats every 16 seconds.
(Goodbye)	3. To terminate the call, press the **Goodbye** key.

Using Privacy Release

Use the Privacy Release feature to enable one or more people who share your DN to join a call.

To use Privacy Release in an established state:

PrvRls

Press the **Privacy Release** soft key during a call. A person joins the call by pressing the shared number (DN) key on their telephone (Multiple Appearance DN feature).

Using Radio Page

Use the Radio Page feature to page a person and stay on the line until they answer. The paged person answers the call after entering a special Page Meet-me code from any telephone.

To use Automatic Preselection (Meet-me page):

1. Lift the handset.

2. Dial the **Radio Paging Access** FFC. The paging tone sounds (two beeps followed by a dial tone).

3. Dial the number of the party you want to page. After dialing, the ringback tone sounds.

    Note: The paged person can use any telephone to enter a **Radio Paging Answer** FFC, plus their own DN number.

(Goodbye)

or

4. If your call goes unanswered for a preset time period and a 15-second high-pitched tone sounds followed by silence, press the **Goodbye** key or replace the handset.

To use Automatic Post selection:

The called party is either busy on the telephone or away from their desk. To page the called party, there is no need to redial the number of the called party.

RadPae

1. Press the **Radio Page** soft key. A special dial tone sounds.

2. Dial the **Radio Paging Access** FFC. The ringback tone sounds.

   Note: The paged person can use any telephone to enter a **Radio Paging Answer** FFC, plus their own DN number.

(Goodbye)

or

3. If your call goes unanswered for a preset time period and a 15-second high-pitched tone sounds followed by silence, press the **Goodbye** key or replace the handset.

To answer a Radio Page:

If you carry a Radio Pager, a page indicates that someone dialed your DN. If the Radio Page system is configured to function in Meet-me mode, you can answer the page call from any telephone.

1. Lift the handset.

2. Dial the **Radio Paging Answer** FFC. The paging tone sounds.

3. Dial your own DN to connect to the paging caller. If the caller has hung up, a steady high-pitched (Number Unavailable) tone sounds.

Using Voice Call

Use the Voice Call feature to page another person or make an announcement through someone else's telephone speaker.

To make a voice call:

1. Lift the handset.

VceCal

2. Press the **Voice Call** key and make the announcement.

(Goodbye)

3. Press the **Goodbye** key.

To respond to a voice call:

Your telephone rings once and the caller's voice transmits through your speaker. Lift the handset.

Additional phone features

The following features are described in this section:

*   "Using the Personal Directory" on page 104
*   "Using the Callers List" on page 107
*   "Using the Redial List" on page 109
*   "Using Virtual Office" on page 111
*   "Using Media Gateway 1000B" on page 118

Using the Personal Directory

Use the Personal Directory feature to create and store up to 100 directory entries. A Personal Directory entry can contain:

*   last name (up to 24 characters)
*   first name (up to 24 characters)
*   telephone numbers (up to 31 characters)

To use Personal Directory, press the Directory key and select Personal Directory.

> *Note:* If password control has been enabled, enter your SCPW at the prompt.

To add an entry:

AddNew

1.   Press the **AddNew** soft key.

     Note: If the message "Directory is full" appears, one or more entries must be deleted to add a new entry.

Next

2. Press the **Next** soft key.

3. Use the dialpad to enter the telephone number.

Next

4. Press the **Next** soft key.

5. Use the dialpad to enter the name.

6. Choose one of the following:

Done **or** Cancel

— Press the **Done** soft key to save the new entry.

— Press the **Cancel** soft key to return to the Add screen.

To edit an entry:

1. Press the **Up/Down** navigation keys to scroll and highlight the desired entry.

Edit

2. Press the **Edit** soft key and perform your edits.

3. Choose one of the following:

Done **or** Cancel

— Press the **Done** soft key to save the changes.

— Press the **Cancel** soft key.

To delete an entry:

1. Press the **Up/Down** navigation keys to scroll and highlight the entry.

Delete

2. Press the **Delete** soft key.

3. Choose one of the following:

Confirm **or** Cancel

— Press the **Confirm** soft key.

— Press the **Cancel** soft key.

To search for an entry:
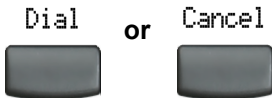
1. Press the **Up/Down** navigation keys to scroll and highlight the desired entry.

2. Choose one of the following:

Dial **or** Cancel

— Press the **Dial** soft key to dial the resulting number.

— Press the **Cancel** soft key to exit without dialing.

Using the Callers List

The Callers List feature logs all incoming calls. Callers List can store up to 100 entries in the list. When the list is full, the system over-writes the oldest entry. Use the Callers List feature to review missed calls and to dial calls. The Callers List contains:

• the caller's last and first name (if available)

• the DN of the caller

• the time/date of the call

• the number of times the caller calls

Entries in the Callers List are sorted by the time the call was received.

Note: Calling Party Name Display (CPND) is affected depending on the preferred name match option. If preferred name match is on, the CPND appears according to your configurations. If the preferred name match option is off, the CPND appears according to the system configurations.

To access the Callers List, press the Directory key and select Callers List.

Note: If password control has been enabled, enter your SCPW at the prompt.

To dial an entry:

1. Press the **Up/Down** navigation keys to scroll and highlight the desired entry.

Dial

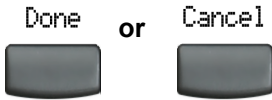2. Press the **Dial** soft key.

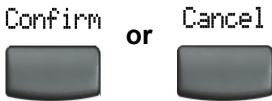**To delete an entry:**

1. Press the **Up/Down** navigation keys to scroll and highlight the desired entry.

Delete

2. Press the **Delete** soft key.

Confirm **or** Cancel

3. Choose one of the following:

— Press the **Confirm** soft key.

— Press the **Cancel** soft key.

To delete the entire Callers List:

Delete

1. Press the **Delete** soft key.

2. Choose one of the following soft keys:

Yes **or** No

— **Yes** to delete entire Callers List.

— **No** to return to the previous screen.

Using the Redial List

The Redial List feature logs all outgoing calls. Redial List can store up to 20 entries in the list. When the list is full, the system over-writes the oldest entry. Use the Redial List feature to review calls made and to redial previously dialed calls. The Redial List contains:

• the last and first name of the dialed party (if available)

• the DN of the dialed party

• the time/date of the last dialed occurrence

Entries in the Redial List are sorted by the time the call was received.

Note: Calling Party Name Display (CPND) is affected depending on the preferred name match option. If preferred name match is on, the CPND appears according to your configurations. If the preferred name match option is off, the CPND appears according to the system configurations.

To access Redial List, press the Directory key and select Redial List.

Note: If password control has been enabled, enter your SCPW at the prompt.

To dial an entry:

1. Press the **Up/Down** navigation keys to scroll and highlight the desired entry.

Dial

2. Press the **Dial** soft key.

To delete an entry:

1. Press the **Up/Down** navigation keys to scroll and highlight the desired entry.

Delete

2. Press the **Delete** soft key.

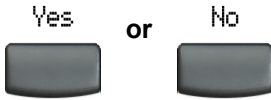Confirm **or** Cancel

3. Choose one of the following:
    — Press the **Confirm** soft key.
    — Press the **Cancel** soft key.

To delete the entire Redial List:.

Delete

1. Press the **Delete** soft key.

Yes **or** No

2. Choose one of the following soft keys:
    — **Yes** to delete entire Callers List.
    — **No** to return to the previous screen.

Using Virtual Office

When you are away from your office telephone, use the Virtual Office feature to transfer calls, and all of your office telephone's features, to a remote telephone.

> *Note 1:* Consult your system administrator to verify if the Virtual Office feature is available for your use.

> *Note 2:* When designated as the office telephone, the IP Phone 2002 can be activated for Virtual Office by an IP Phone 2004, an IP Softphone 2050, or another IP Phone 2002.

> *Note 3:* When logged into an IP Phone 2004 or an IP Softphone 2050 using Virtual Office, feature keys 4, 5, and the Shift key are not available to the IP Phone 2002.

> *Note 4:* A Virtual Office login from an IP Phone 2004 to an IP Phone 2002 or IP Softphone 2050 might be blocked in certain situations. Consult your system administrator.

Logging in to Virtual Office

To activate Virtual Office on your office telephone from your remote telephone:

(Services)

1. Press the **Services** key.

2. Press the **Up/Down** navigation keys to scroll and highlight **Virtual Office Login**.

Select

3. Press the **Select** soft key.

4. At the prompt, enter your User ID.

Select

5. Press the **Select** soft key.

6. At the prompt, enter the home **Station Control Password (SCPW)**.

   Note 1: If the User ID is not found locally, the message "Locating Remote Server" displays.

   Note 2: After three failed login attempts, wait one hour before attempting to log in again or contact your system administrator to reset your password. For more information, see "Security features" on page 20.
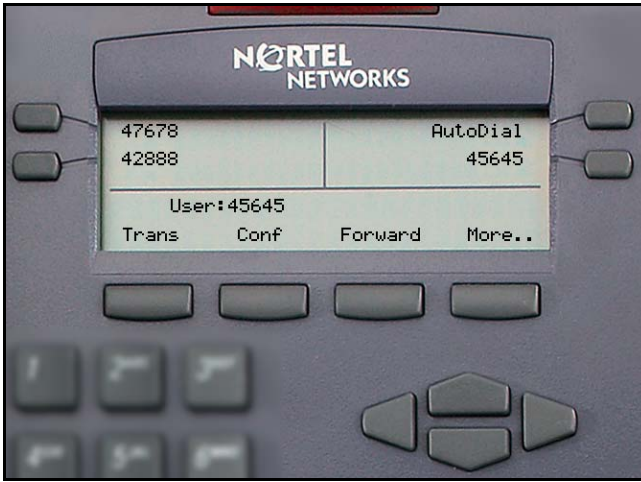
   A successful login transfers all the features, time, date, and tones to your remote telephone from your office telephone.

Using Virtual Office on your remote telephone

The following figures show various IP Phones logged on to an
IP Phone 2002 using Virtual Office.

Figure 5: Logged on to an IP Phone 2002

**Figure 6: Logged on to an IP Phone 2002 using an
IP Phone 2004**

Figure 7: Logged on to an IP Phone 2002 using an IP Softphone 2050
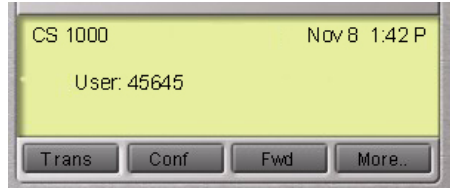
A User information line appears on all displays listing the number of your office telephone.

Using Virtual Office on your office telephone

When activated for Virtual Office by a remote telephone, your office telephone is *logged out* and no longer operational.

A Logged Out message displays on your telephone alerting you that it is being used for Virtual Office.

To regain operation of a telephone being used for Virtual Office:

Choose one of the following:

1. To completely disconnect your office telephone from the remote telephone:

   a. Press the **Home** key.

   b. Enter your User ID and password (this logs the office telephone back on to your office network).

Home

or

Vrtual

2. To use your office telephone as the remote telephone for Virtual Office, press the **Virtual** soft key to log in to another IP Phone.

Logging out of Virtual Office

To log out from a remote telephone:

(Services)

1. Press the **Services** key.

2. Press the **Up/Down** navigation keys to scroll and highlight **Virtual Office Logout**.

Select

3. Press the **Select** soft key.

Troubleshooting Virtual Office

Virtual Office can display error messages on-screen. Table 3 lists error messages and actions to correct the causes.

Table 3: Troubleshooting Virtual Office (Part 1 of 3)

Displayed Message	Probable Cause	Actions
Busy, try again	Remote IP Phone is active (not idle).	Wait for remote IP Phone to become idle and try again.
	ACD is logged in.	Log out ACD IP Phone before Virtual Office from another IP Phone.
	Make-Set-Busy is inactive on ACD IP Phone.	Configure Make-Set-Busy active on ACD IP Phone.
Invalid ID (1)	Incorrect User ID entered.	Enter correct User ID.
	User ID is not in Gatekeeper database.	Notify system administrator.
Invalid ID (2)	Incorrect User ID entered.	Enter correct User ID.
Invalid ID (3)	Incorrect User ID entered.	Enter correct User ID.
	User ID in Gatekeeper database points to originating Call Server.	Notify system administrator.

Table 3: Troubleshooting Virtual Office (Part 2 of 3)

Displayed Message	Probable Cause	Actions
Locked from Login	Three failed attempts to enter the correct Station Control Password.	Wait one hour for the lock to clear automatically, or notify system administrator to clear lock.
Permission Denied (1)	Remote telephone has no Station Control Password.	Notify system administrator.
Permission Denied (3)	Incorrect User ID entered.	Enter correct User ID.
	Remote telephone has no Station Control Password.	Notify system administrator.
Permission Denied (4)	Incorrect User ID entered.	Enter correct User ID.
	Attempt to log in to a remote IP Phone 2004 or IP Softphone 2050 from an IP Phone 2002 (some restrictions apply).	Go to an IP Phone 2004 or IP Softphone 2050 and try again, or consult your local system administrator.
Permission Denied (5)	Incorrect User ID entered.	Enter correct User ID.
	Remote telephone does not have VOUA Class of Service.	Notify system administrator.

Table 3: Troubleshooting Virtual Office (Part 3 of 3)

Displayed Message	Probable Cause	Actions
Permission Denied (6)	Incorrect User ID entered.	Enter correct User ID.
	Incorrect Station Control Password entered.	Select Retry, and try again with the correct Station Control Password.
Server Unreachable (1)	Network problem.	Notify system administrator, if problem persists.
Server Unreachable (2)	Network problem.	Notify system administrator, if problem persists.

Using Media Gateway 1000B

The Media Gateway 1000B (MG 1000B) telephone can operate in Normal or Local Mode.

Normal Mode

The telephone registers with the Main Office and receives telephone services from the Main Office. At any time during Normal Mode, you can check local mode functionality (make and receive calls) by enabling Local Mode and returning to Normal Mode. After testing, you can return to Normal Mode by using the *Resume Normal Mode* command or by waiting for 10 minutes.

Local Mode

If the WAN connection goes down, the IP Phone loses communication with the Main Office TPS. It then registers with the MG 1000B and receives telephone services from the MG 1000B. Features such as Personal Directory, Redial List, and Callers List are not available when operating in Local Mode. When in Local Mode, the telephone displays "LOCAL MODE".

Using Test Local Mode

Use Test Local Mode to check local mode functionality (make and receive telephone calls). This is useful when provisioning has changed for an IP Phone on an MG 1000B Controller.

(Services)

1. Press the **Services** key.

2. Press the **Up/Down** navigation keys to scroll and highlight **Test Local Mode**.

Select

3. Press the **Select** soft key (the telephone resets and registers to the branch office).

Using Resume Normal Mode

Use the Resume Normal Mode command to return to Normal Mode after testing survival functionality.

Note: If the Resume Normal Mode command is not performed after testing, the telephone automatically returns to Normal Mode in ten minutes.

(Services)

1. Press the **Services** key.

2. Press the **Up/Down** navigation key to scroll and highlight **Resume Normal Mode**.

```
Select
```

3. Press the **Select** soft key (the telephone registers back to the Main Office).

Troubleshooting MG 1000B

MG 1000B can display error messages on-screen. Table 4 lists error messages and actions to correct the causes.

Table 4: Troubleshooting MG 1000B

Display Message	Probable Cause	Actions
Local Mode	Test Local mode.	Press the **Services** key, and then select Resume Normal Mode.
	Network problem.	Contact system administrator if problem persists.
Local Mode Invalid ID (1)	Gatekeeper unable to find end point from Branch User ID.	Notify system administrator.
Local Mode Invalid ID (2)	Branch User ID not found in any equipped TN.	Notify system administrator.

Using Hospitality features

Hospitality features are intended for hotel operations. The following features are discussed in this section:

*   "Configuring Automatic Wake-Up" on page 121

*   "Activating Message Registration" on page 123

*   "Using Maid Identification" on page 125

*   "Displaying Room Status" on page 126

Configuring Automatic Wake-Up

Use the Automatic Wake-Up feature to receive a timed reminder call. From your telephone, you can program the system to automatically place a call to yourself at a predetermined time. When you answer the call, recorded music plays for up to 30 seconds, followed by a prerecorded announcement or the attendant.

To enter the time for an Automatic Wake-Up call:

1.   Lift the handset.

2.   Dial the **Automatic Wake-Up Request** FFC.

3.   Dial the **Automatic Wake-Up** time in a 24-hour time format (hhmm). A tone sounds to confirm your entered time.

     Note: In a 24-hour time format, 7:30 a.m. is entered as 0730; 9:45 p.m. is entered as 2145.

4. Press the **Goodbye** key.

(Goodbye)

To quit an Automatic Wake-Up call:

1. Lift the handset.

2. Dial the **Automatic Wake-Up Quit** FFC.

3. Press the **Goodbye** key.

(Goodbye)

To verify the time for the Automatic Wake-Up call:

1. Lift the handset.

2. Dial the **Automatic Wake-Up Verify** FFC.

3. Dial the **Automatic Wake-Up** time in a 24-hour time format (hhmm). If your query matches the preset time, a confirmation tone sounds.

   Note: In a 24-hour time format, 7:30 a.m. is entered as 0730; 9:45 p.m. is 2145.

MRK   4. Press the **Goodbye** key.

(Goodbye)

Activating Message Registration

Use the Message Registration feature to read, change, or reset meters
that log your hotel telephone calls.

To read meters:

MRK   1. Press the **Message Registration** key.

                       2. Dial the room DN.

MRK   3. Press the **Message Registration** key.

To change a meter:

MRK   1. Press the **Message Registration** key.

                       2. Dial the room DN.

                       3. Dial the correct meter count.

4. Press the ***** key.

5. Press the **Message Registration** key.

To reset a meter to zero:

1. Press the **Message Registration** key.

2. Dial the room DN.

3. Press the ***** key.

4. Press the **Message Registration** key.

Using Maid Identification

Use the Maid Identification feature to track the cleaning status of rooms. The maid enters the information from the telephone in each room.

To enter cleaning status:

RMK   1.   Press the **Room Status** key.

2.   Dial the DN for the room for which the cleaning status is being changed.

3.   Dial one of the following cleaning status codes:

       1 = Cleaning requested

       2 = Cleaning in progress

       3 = Room cleaned

       4 = Room passed inspection

       5 = Room failed inspection

       6 = Cleaning skipped

       7 = Not for sale

       The interrupted dial tone sounds.

4.   Press the * key.

5.   Dial the **Maid** ID. If you dial the wrong **Maid** ID, press the * key and redial the ID.

RMK   ⬜   6.   Press the **Room Status** key.

Displaying Room Status

Use the Room Status feature to print the status of a room using the Display Module.

To read the status of a room:

RMK   ⬜   1.   Press the **Room Status** key.

⬛⬛⬛
⬛⬛⬛
⬛⬛⬛
⬛⬛⬛

   2.   Dial the DN for the room. The DN displays followed by a two-digit code.The first digit indicates the occupancy status:

0 = Room vacant
1 = Room occupied

The second digit indicates the cleaning status of the room:

1 = Cleaning requested

2 = Cleaning in progress

3 = Room cleaned

4 = Room passed inspection

5 = Room failed inspection

6 = Cleaning skipped

7 = Not for sale

RMK   ⬜   3.   Press the **Room Status** key.

Changing the status of a room:

RMK   ⬭   1.   Press the **Room Status** key.

    ⊞   2.   Dial the DN for the room. The DN displays followed by a two-digit code.The second digit indicates the occupancy status:

                     0 = Room vacant
                     1 = Room occupied

                     The second digit indicates the cleaning status of the room:

                     1 = Cleaning requested

                     2 = Cleaning in progress

                     3 = Room cleaned

                     4 = Room passed inspection

                     5 = Room failed inspection

                     6 = Cleaning skipped

                     7 = Not for sale

    ⊞   3.   Dial the status code for the room. A three-digit code appears. The first digit indicates the occupancy status, the second is the old cleaning status, and the third is the new status.

RMK   ⬭   4.   Press the **Room Status** key.

Access External Server Applications

Use External Server Applications to access a variety of applications directly from your IP Phone 2002. For more information about the External Server Applications, consult the *Nortel IP Phone External Server Applications User Guide*.

Flexible Feature Codes (FFC)

Use Table 5 to keep track of the FFCs assigned by your system administrator.

Table 5: Flexible Feature Codes (Part 1 of 2)

FFC	Feature	FFC	Feature
	Automatic Wake-Up Activate		Make Set Busy Activate
	Automatic Wake-Up Deactivate		Make Set Busy Deactivate
	Automatic Wake-Up Verify		Malicious Call Trace
	Call Detail Recording Charge Account		Override
	Call Forward All Calls Activate		Pickup Ringing Number
	Call Forward All Calls Deactivate		Pickup Directory Number
	Call Park		Pickup Group
	Electronic Lock Activate		Radio Paging Access
	Electronic Lock Deactivate		Radio Paging Answer
	Group Call		Remote Call Forward Activate
	Internal Call Forward Activate		Remote Call Forward Deactivate
	Internal Call Forward Deactivate		RingAgain Activate

Table 5: Flexible Feature Codes (Part 2 of 2)

FFC	Feature	FFC	Feature
	RingAgain Deactivate		Virtual Office Terminal Log Off
	Station Control Password Change		Virtual Office Terminal Log On

Accessories

IP Phone Key Expansion Module (KEM)

The Nortel IP Phone Key Expansion Module (KEM) is an optional hardware module that provides additional line appearances and feature keys on your IP Phone 2002. You can connect up to two KEMs to your IP Phone 2002, providing a total of 48 additional keys.

Figure 8: The IP Phone KEM

For more information about the IP Phone Key Expansion Module, consult the *Nortel IP Phone Key Expansion Module (KEM) User Guide*.

Regulatory and safety information

VCCI Class B statement for Japan

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラス
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装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすこと
があります。
　取扱説明書に従って正しい取り扱いをして下さい。

DenAn regulatory notice for Japan

⚠ Warning

Please be careful of the following while installing the equipment:

- Please only use the Connecting cables, power cord, AC adaptors shipped with the equipment or specified by Nortel to be used with the equipment. If you use any other equipment, it may cause "failures, malfunctioning or fire".

- Power cords shipped with this equipment must not be used with any other equipment. In case the above guidelines are not followed, it may lead to death or severe injury

⚠ 警告

本製品を安全にご使用頂くため、以下のことにご注意ください。

- 接続ケーブル、電源コード、ACアダプタなどの部品は、必ず製品に同梱されております
添付品または指定品をご使用ください。添付品・指定品以外の部品をご使用になると故障
や動作不良、火災の原因となることがあります。

- 同梱されております付属の電源コードを他の機器には使用しないでください。
上記注意事項を守らないと、死亡や大怪我など人身事故の原因となることがあります。

Terms you should know

Attendant

A telephone operator in your organization.

AutoDial

A telephone number programmed on the **AutoDial** key for one-touch dialing.

Callers List

A list of all incoming calls (maximum 100 entries).

Calling Party Name Display (CPND)

Information appearing on the LCD display screen such as the caller's name and telephone number. The system must have CPND enabled.

Category 5 (CAT5)

Balanced 100 Ohm cable and associated connecting hardware whose transmission characteristics are specified up to 100 MHz. It is used by 10BaseT, 100BaseT4, and 100BaseTX installations. The cable normally has four pairs of copper wire. Category 5 is the most popular cable used in new installations today.

Communication Server 1000

An office communication system.

Date/Time display

The current date and time when the telephone is in an idle state.

Directory key

Enables access to Corporate Directory, Personal Directory, Redial List, and Callers List.

Directory Number (DN)

A number consisting of one to seven digits for a telephone. Also known as an *extension number*.

Expand to PC

A fixed key on your telephone reserved for future feature development. An audible non-working tone is generated along with a display message "Service not available" if this key is pressed.

Fastbusy

A signal given when all outgoing lines are busy.

Feature display

An area that shows status information about the feature in use. It also displays the name and status of the active session.

Fixed key

The hard-labeled keys on your telephone.

Flexible Feature Codes (FFCs)

Specialized codes entered using the dialpad that enable features (for example, Automatic Wake-Up call).

Goodbye key

A fixed key used to end an active call.

Handsfree

A method of conversing with the party on the other end of the line without lifting your handset.

Headset key

A fixed key used to answer a call using the headset.

Hold key

A fixed key used to place an active call on hold.

Information display

Any display of call activity, lists, prompts, and status of calls. On the IP Phone 2002, the information area is a 1-line by 24-character display. If the text message exceeds this area, a scroll arrow icon indicates that you must use the scroll keys to view the remaining text.

Information line

A 1-line by 24-character area that displays date and time or application information.

Interrupted dial tone

A broken or pulsed dial tone, heard when you access some features on your telephone.

IP Phone Key Expansion Module (KEM)

An optional hardware module which provides additional line appearances and feature keys to your IP Phone. Up to two KEMs can be attached to your IP Phone 2002, providing a total of 48 keys.

Message (Inbox)

A fixed key which connects to your voice messaging system when the key is pressed.

Message waiting indicator/Incoming call indicator

An LCD or an LED that indicates the status of a feature by the flash, wink, steady on, or off.

More...

An option allowing access to the multiple layers of the soft keys. Soft keys are the four keys located directly below the display area.

Mute key

A fixed key used to listen to the caller without transmitting.

Navigation keys

Up/Down and Left/Right keys used to scroll through menus and lists appearing on the LCD display screen.

Off-hook

Any line selected to make a call or receive an incoming call. The term *off-hook* is applied whether (a) the end-user lifts up the handset, (b) the end-user presses a line key, (c) the call is automatically answered at the set, or (d) a line is automatically selected for an outgoing call.

Outbox/Shift

A fixed key reserved for future feature development. An audible non-working tone is generated along with a display message "Service not available" if this key is pressed.

Paging tone

A special tone heard when using the Radio Paging feature. You hear two beeps followed by dial tone.

Password Admin

A menu used by you and the system administrator to change your Station Control Password (SCPW).

Personal Directory

A list of user-defined names and numbers (maximum of 100 entries).

Primary directory number

The main extension number on your telephone.

Private Line

A feature that can be assigned to your telephone. With this line, you can reach an outside number without dialing a code to access an outside line. Internal extensions cannot be dialed from a private line.

Programmable line (DN)/feature keys (self-labeled)

The four keys located at the sides of the upper area of the display.

Quit key

A fixed key on your telephone that is used to exit applications.

Redial List

A list of previously dialed telephone numbers (maximum 20 entries).

Ringback/ring tone

A sound indicating that a call you have made is ringing at its destination.

Secondary directory number

A second incoming/outgoing line for your telephone.

Services key

A fixed key used to access options such as Telephone Options, Password Admin, Display Network Diagnostics Utilities, Virtual Office Login, Virtual Office Logout, Test Local Mode, and Resume Normal Mode.

Shared directory number

A DN (extension) that is shared by two or more persons.

Soft keys (self-labeled)

A set of keys programmed by your system administrator. These four keys located directly below the display area have four programmable layers. The layers are accessed through the **More...** key. These keys are also used to configure parameters in the **Telephone Option** menu.

Speaker key

A fixed key used to activate Handsfree.

Special dial tone

The three consecutive tones followed by dial tone that you hear when accessing telephone features.

Station Control Password (SCPW)

Enables security features on your phone to prevent others from making calls from your telephone and to prevent access to your Personal Directory, Redial List, and Callers List.

Status Messages

A message displayed to inform the user of important information. A right arrow appears if more than one Status Message is present. Examples of Status Messages include: Message Waiting, All Lines Forwarded to: 6453, Do Not Disturb On, Ring Again active, Ringer is OFF, and Line x Unavailable.

System or Switch

Your office communication system.

Switchhook

A button that the handset presses down, disconnecting your call when you replace the handset. The handset (when lifted) releases the switchhook and you either answer an incoming call or you receive a dial tone to make a call.

User Interface

Screen displays that interact with the end user as a result of an action or event.

Volume control bar

A rocker bar you press to increase or decrease the volume of the ringer, handset, headset, speaker and the Handsfree feature.

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