Nortel Communication Server 1000

Nortel IP Phone 1230

User Guide
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December 2007
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Welcome

Your IP Phone 1230 brings voice and data to your desktop. The IP Phone 1230 can directly connect to a Local Area Network (LAN) through an Ethernet connection.

This guide contains the following topics:

- “Using your IP Phone 1230” on page 25
- “Installing your IP Phone 1230” on page 33
- “Customizing your IP Phone 1230—basic features” on page 39
- “Customizing your IP Phone 1230—advanced features” on page 64
- “Operating your IP Phone 1230” on page 84
- “Troubleshooting your IP Phone 1230” on page 150
- “IP Phone 1200 LCD Expansion Module” on page 156

In this guide, self-labeled line or programmable feature key labels are displayed beside the keys, and context-sensitive soft key labels are displayed directly above the keys.

Figure 1 on page 9 shows the key labels.

Figure 1: Programmable feature keys and context-sensitive soft keys
Feature overview

Your IP Phone 1230 supports the following features:

- four context-sensitive soft keys (self-labeled)
  
  **Note:** Context-sensitive soft keys are Nortel Communication Server dependent. Some IP Phones are not configured to support context-sensitive soft key functionality. Contact your system administrator for further details.

- six specialized fixed keys
  - Quit
  - Directory
  - Message (Inbox)
  - Redial
  - Services
  - Conference

- six fixed call-processing keys
  - Mute
  - Handsfree
  - Goodbye
  - Applications
  - Headset
  - Hold

- wall-mountable
- LCD display screen
- high-quality speaker phone
- volume control keys to adjust the ringer, speaker, handset, and headset volume
- hearing aid compatibility
- Second Page Functionality to access a second page of features using the left and right keys
- 20 programmable feature keys:
  - ten keys for user-defined feature key labels
- ten lines/features you can access through Second Page
  Functionality
  • headset jack
  • handset jack
  • 10/100 Ethernet ports
    - one Ethernet port for LAN connection
    - one Ethernet port for optional PC connection
  • Power over Ethernet (PoE) or power through a supported AC adapter
  • support to Network Diagnostic Utility
  • Accessory Expansion Module (AEM) port to connect the Expansion Module

Figure 1 on page 9 shows the IP Phone 1230.
Figure 2: IP Phone 1230
Regulatory and safety information

This equipment has been tested and complies with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, can cause harmful interference to radio communications. However, there is no guarantee that interference cannot occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which you can determine by turning the equipment off and on, you are encouraged to try to correct the interference by performing one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Warnings

- This is a Class B product. In a domestic environment this product can cause radio interference; in which case, you must take adequate measures.
- Operation is subject to the following two conditions: (1) this device cannot cause interference, and (2) this device must accept interference, including interference that can cause undesired operation of the device.
### Other Safety Approvals: IEC 60950-1: ITE equipment - Safety - Part 1: General requirements

Table 1 on page 14 shows the EMC compliance for various jurisdictions

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>UL 60950-1</td>
<td>ITE equipment - Safety - Part 1: General requirements</td>
</tr>
<tr>
<td>Canada</td>
<td>CSA 60950-1-03</td>
<td>ITE equipment - Safety - Part 1: General requirements</td>
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<td>European Community</td>
<td>EN 60950-1 +A11</td>
<td>ITE equipment - Safety - Part 1: General requirements</td>
</tr>
<tr>
<td>Australia/New Zealand</td>
<td>AS/NZS 60950.1:2003</td>
<td>Safety of Information Technology Equipment</td>
</tr>
</tbody>
</table>

Other Safety Approvals: IEC 60950-1: ITE equipment - Safety - Part 1: General requirements

**Table 1: EMC compliance for various jurisdictions (Part 1 of 2)**

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Standard</th>
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</tr>
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<tbody>
<tr>
<td>Canada</td>
<td>ICES-003</td>
<td>Class B Emissions: Interference-Causing Equipment Standard: Digital Apparatus</td>
</tr>
<tr>
<td>Australia/New Zealand</td>
<td>CISPR 22</td>
<td>Class B Emissions: Information technology equipment - Radio disturbance</td>
</tr>
</tbody>
</table>
### Table 1: EMC compliance for various jurisdictions (Part 2 of 2)

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>European Community</td>
<td>EN 55022</td>
<td>Class B Emissions: Information technology equipment - Radio disturbance</td>
</tr>
<tr>
<td></td>
<td>EN 55024</td>
<td>Information technology equipment - Immunity characteristics - Limits and methods of measurement</td>
</tr>
<tr>
<td></td>
<td>EN 61000-3-2</td>
<td>Limits for harmonic current emissions (equipment input current &lt;= 16 A per phase)</td>
</tr>
<tr>
<td></td>
<td>EN 61000-3-3</td>
<td>Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current &lt;= 16 A</td>
</tr>
<tr>
<td>Japan</td>
<td>VCCI</td>
<td>Regulations for voluntary control measures.</td>
</tr>
</tbody>
</table>

Table 2 on page 15 shows the Safety compliance for various jurisdictions.

### Table 2: Safety compliance for various jurisdictions (Part 1 of 2)

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>UL 60950-1</td>
<td>Safety of Information Technology Equipment</td>
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</table>
Table 2: Safety compliance for various jurisdictions (Part 2 of 2)

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</tr>
</tbody>
</table>


Other

US/Canada: Hearing Aid Compatibility (HAC) as per FCC Part 68

This equipment complies with the CE Marking requirements.

Australia: AS/ACIF S004: Voice Frequency Performance Requirements for Customer Equipment

EU Countries: This device complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. You can obtain a copy of the Declaration from www.nortel.com/corporate/community/environment/life_cycle/declarations.html or Nortel Networks GmbH address: Ingolstaedter Strasse 14-18, 80807 Munich Germany.

Table 3 on page 16 lists EMC compliance for various jurisdictions

Table 3: EMC compliance (Part 1 of 2)

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>FCC CFR 47 Part 15</td>
<td>Class A Emissions: FCC Rules for Radio Frequency Devices (see Notes 1 and 2)</td>
</tr>
</tbody>
</table>
Table 3: EMC compliance (Part 2 of 2)

<table>
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<tr>
<th>Jurisdiction</th>
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<td>Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current &lt;= 16 A</td>
</tr>
</tbody>
</table>

**Note 1:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case
the user will be required to correct the interference at his own expense.

The user should not make changes or modifications not expressly approved by Nortel Networks. Any such changes could void the user’s authority to operate the equipment

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Note 2:** The user should not make changes or modifications not expressly approved by Nortel Networks. Any such changes could void the user’s authority to operate the equipment

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada

**Warnings:**

- This is a Class A product. In a domestic environment this product can cause radio interference in which case the user must take adequate measures.
- Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- Privacy of communications may not be ensured when using this telephone.
- Use the following procedure to prevent radio interference to the licensed service, this device must be operated indoors only and should be kept away from windows to provide maximum shielding.

**Table 4: Safety standards**

<table>
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**Other**

**US/Canada:** Hearing Aid Compatibility (HAC) as per FCC Part 68 This equipment complies with the CE Marking requirements.

**EU Countries:** This device complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration may be obtained from Nortel Networks GmbH address: Ingolstaedter Strasse 14-18, 80807 Munich Germany
Connecting Power
Use only Nortel-approved Limited Power Source 48 VDC 520 mA (FSP Group Inc. Model: FSP025-1AD207A) with the IP Phone.

Connecting to the Local Area Network
Severe damage to your IP Phone can occur if you plug the phone into an ISDN connection. Consult your system administrator to ensure you plug your IP Phone 1230 into a 10/100 BaseT Ethernet jack.

Operation
The earpiece and mouthpiece of the handset can attract and retain small objects.
Location
Nortel recommends that you install your IP Phone 1230 away from direct sunlight.
How to get help

This section explains how to get help for Nortel products and services.

Getting Help from the Nortel Web site

The best way to get technical support for Nortel products is from the Nortel Technical Support Web site:

www.nortel.com/support

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. From this site, you can:

• download software, documentation, and product bulletins
• search the Technical Support Web site and the Nortel Knowledge Base for answers to technical issues
• sign up for automatic notification of new software and documentation for Nortel equipment
• open and manage technical support cases

Getting Help over the phone from a Nortel Solutions Center

If you do not find the required information on the Nortel Technical Support Web site, and you have a Nortel support contract, you can obtain help over the telephone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the following web site to obtain the telephone number for your region:

www.nortel.com/callus

Getting Help from a specialist by using an Express Routing Code

To access some Nortel Technical Solutions Centers, you can use an Express Routing Code (ERC) to quickly route your call to a specialist in your Nortel product or service. To locate the ERC for your product or service, go to
Getting Help through a Nortel distributor or reseller

If you purchased a service contract for your Nortel product from a distributor or an authorized reseller, contact the technical support staff of the distributor or reseller.
Using your IP Phone 1230

After you familiarize yourself with the IP Phone 1230 features, you can start to use the IP Phone. This section describes how to use the IP Phone 1230.

Getting started

The following section introduces the important details of the IP Phone 1230. Carefully read every section before you operate the new IP Phone 1230.

• “Before you begin” on page 25
• “IP Phone 1230 controls” on page 26
• “IP Phone 1230 display” on page 31
• “Installing your IP Phone 1230” on page 33

Before you begin

Take the appropriate precautionary measures before you connect the IP Phone 1230.

CAUTION
Consult your system administrator to ensure that you plug your IP Phone into a 10/100BaseT Ethernet jack. To avoid severe damage to your IP Phone, do not plug your IP Phone 1230 into a regular phone jack.

CAUTION
Use your IP Phone 1230 only in an indoor environment.
Using your IP Phone 1230

IP Phone 1230 controls

This section describes the controls on the IP Phone 1230. Depending on your geographic region, the IP Phone 1230 includes key caps with English text labels. In this document, text in parentheses indicates the labels that appear on the key caps; for example, (Services).

**Context-sensitive soft keys** are below the LCD. The soft key label is dynamic and depends on the active feature. The label length is a maximum of six characters.

A triangle before a soft key label, indicates the feature is active.

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

The ten keys on either side of the LCD are **self-labeled line** or **programmable feature keys**, with labels on the LCD. These keys also function as **line (DN)** keys. Press the Left or Right arrow keys to access the second page of feature keys. This feature is called Second Page Functionality.

A steadily lit icon beside a **line (DN) key** indicates the line is active. A flashing icon indicates the line is on hold. When a call arrives on a DN key which is not on the currently displayed page of keys, the IP Phone automatically displays the page with the active key.
A steadily lit icon beside a feature key indicates the feature is active. A flashing icon indicates the feature is being programmed. When a call arrives on a feature key that is not on the currently displayed page of keys, the IP Phone automatically displays the page with the active key.

Use the **Volume control** buttons to adjust the volume of the ringer, handset, headset, speaker, and Handsfree features. Press the upper button to increase the volume, and press the lower button to decrease the volume.

Press the **Mute** key to listen to the calling party without transmitting voice from your IP Phone. Press the **Mute** key again to return to a two-way conversation. **Mute** key functionality applies to handsfree, handset, and headset modes.

The Mute indicator LED, embedded in the **Mute** key, flashes to indicate that you have muted the sound.

Press the **Handsfree** key to activate handsfree mode.

**Note:** The Handsfree LED indicator, on the **Handsfree** key, lights to indicate that Handsfree is in use.
Use the **Navigation** keys to scroll through menus and lists that appear on the LCD screen. The outer part of this key cluster is used for up, down, left, and right movements.

Use the **Up** and **Down** keys to scroll up and down the menu, and the **Left** and **Right** keys to position the cursor. In some dialog boxes that appear on your IP Phone, you can also use the **Left** and **Right** keys to select editable fields. Press the **Right** key to select the field below the current selection, or the **Left** key to select the field above the current selection.

Press the **Enter** key, at the center of the navigation key cluster, to confirm menu selections.

In most menus, you can use the **Enter** key instead of the **Select** or **OK** soft key.

Press the **Hold** key to place an active call on hold. Press the **Hold** key again or press the flashing line (DN) key to return to the caller on hold.

Press the **Applications** key to access external server applications.
Press the **Headset** key to answer a call using the headset or to switch a call from the handset or handsfree to the headset.

The Headset LED indicator, embedded in the **Headset** key, lights to indicate that the headset is in use.

Press the **Goodbye** key to end an active call.

When a message is waiting, or there is an incoming call, the red **Message Waiting\Incoming Call Indicator** LED at the top center of the IP Phone flashes. The flash cadence for each alert is different.

Press the **Conference** key to initiate conference.

Press the **Quit** key to exit an active menu or dialog box. The status of the active call remains unaffected if you press the **Quit** key.

Press the **Redial key** to access the redial list.

Press the **Message** key to access your voice mailbox when the message waiting indicator flashes.
Press the **Directory** key to access directory services.

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

- **Telephone Options**
  - Volume adjustment
  - Contrast adjustment
  - Language
  - Date/Time
  - Display diagnostics
  - Local dialpad tone
  - Telephone Information
  - Diagnostics
  - Call Log Options
  - Ring type
  - Call Timer
  - On-hook default path
  - Change Feature Key Label
  - Name Display Format
  - Live Dialpad
  - Caller ID display order
  - Normal mode indication

- **Password Admin**
  - Station Control Password
Using your IP Phone 1230

Note: The Password Admin menu is not available on all IP Phone 1230 phones. Consult your system administrator.

- Display Network Diagnostics Utilities
  Only your system administrator or service provider can use Display Network Diagnostics Utilities to perform Internet diagnostics.

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

Press the Services key twice to access the Local Tools menu, and use the Navigation keys to access the following items:

- Preferences
- Local Diagnostics
- Network Configuration
- Lock Menu

If you attempt to access the Local Tools menu and a dialog box appears that prompts you for a password, contact your system administrator.

IP Phone 1230 display

Your IP Phone 1230 display is divided into three sections:

- Ten user-defined feature key labels appear on the upper section.
- Single-line information for items such as Date and Time, Calling Party Information, Feature Status Information, Options Information, and Directory Information appear in the middle section.
- The lower display area provides labels for the four context-sensitive soft keys.
Figure 3 on page 32 shows the IP Phone 1230 LCD screen

**Figure 3: IP Phone 1230 LCD screen**

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**Call features and Flexible Feature Codes**

Some features are not available on all telephones. Call features and Flexible Feature Codes (FFCs) must be assigned to your telephone and supported by system software. Contact your system administrator to configure these features and codes on your telephone.

Use Table 11 on page 153 to record the FFCs that your system administrator assigns to your phone.
Installing your IP Phone 1230

This section details the steps and precautionary measures to perform during IP Phone installation. The standard IP Phone 1230 package includes the following accessories:

- foot stand
- handset
- handset cord
- 2.1 m (7 ft.) CAT5 Ethernet cable
- number plate and lens

**CAUTION**

Ensure that the protective rubber cap on the Accessory Expansion Module (AEM) port is in place when the port is not in use. An improper connector can damage the IP Phone. Consult your system administrator for additional details.

Figure 4 on page 34 displays the connections on an IP Phone 1230.
Perform the following steps to connect the components of the phone and to install the phone.

- “Attaching the foot stand (optional)” on page 35
- “Connecting the handset” on page 35
- “Connecting the headset (optional)” on page 35
- “Connecting the power (optional)” on page 36
- “Connecting the LAN Ethernet cable” on page 37
- “Connecting the PC Ethernet cable” on page 37
- “Wall-mounting the IP Phone (optional)” on page 38
Attaching the foot stand (optional)

Attach the foot stand in the appropriate slots, depending on the desired angle for your IP Phone. If you insert the foot stand into the upper slots, your IP Phone sits at a 25-degree angle. If you insert the foot stand into the lower slots, your IP Phone sits at a 55-degree angle.

If you install your IP Phone on a wall, do not attach the foot stand.

1. Align the bottom tabs on the foot stand with the position 1 slots or the position 2 slots on the back of your IP Phone.
   - In position 1 the IP Phone sits at a 25-degree angle.
   - In position 2 the IP Phone sits at a 55-degree angle.
   
   Figure 4 on page 34 shows the slots on the back of the IP Phone.

2. Press the foot stand into the slots until it snaps into place.

Connecting the handset

Use the following procedure to connect the handset to the IP Phone 1230.

1. Plug the end of the handset cord with the short straight section into the handset.

2. Plug the other end of the handset cord with the long straight section into the handset jack marked with the symbol on the back of the IP Phone.

3. (Optional) Thread the cord through the channel in the foot stand (if installed) so that it exits on the side of the foot stand.

   Figure 4 on page 34 shows the connections on the back of the IP Phone 1230.

Connecting the headset (optional)

If you have a headset, you can connect the headset to the IP Phone 1230. For information on how to use your headset with your IP Phone, refer to “Using a headset” on page 93.
1. Plug the headset cord into the headset jack on the back of the IP Phone 1230 marked with the symbol.

---

Figure 4 on page 34 shows the connections on the back of the IP Phone 1230.

2. Thread the cord through the channel in the side of the foot stand.

3. Set up the headset according to the headset instructions.

### Connecting the power (optional)

Your IP Phone 1230 supports AC power and Power over Ethernet (PoE). For AC power, use only the Nortel-approved Global Power Supply (N0146475) and the country-specific IEC cable that you can order separately. To use PoE, your connected LAN must support PoE.

---

**CAUTION**

Use your IP Phone 1230 with the approved Nortel AC Adapter (model #N0089601).

---

**Note:** Your IP Phone 1230 supports AC power and PoE options, including IEEE 802.3 standard power. To use local AC power, you can order the optional AC adapter separately. To use PoE, where power is delivered over the CAT5 cable, the LAN must support PoE, and you do not need an AC adapter.

1. Connect the DC barrel connector to the power jack on the back of the IP Phone 1230.

2. Thread the cable through the channel in the foot stand to secure the cable.

3. Plug the country-specific IEC cable into the Global Power Supply, and then plug the Global Power Supply into the nearest AC power outlet.

---

**Figure 4 on page 34** shows the connections on the back of the IP Phone 1230.
Connecting the LAN Ethernet cable

*Note:* Your IP Phone 1230 supports both AC power and PoE options, including IEEE 802.3 standard power. To use local AC power, you can order the optional AC adapter separately. To use PoE, where power is delivered over the CAT5 cable, the LAN must support PoE, and you do not need an AC adapter.

Connect your IP Phone to your LAN using a CAT5e Ethernet cable to enable full functionality of your IP Phone. If your Ethernet port is equipped with Power over Ethernet (PoE), your IP Phone can be powered through the LAN port. Do not extend the LAN Ethernet cable outside the building.

1. Plug one end of the supplied LAN Ethernet cable into the LAN Ethernet port on the back of your IP Phone marked with the 🌟 symbol.
2. Thread the cable through the channel in the foot stand.
3. Connect the other end of the cable to your LAN Ethernet connection. The LAN LED on the back of the IP Phone lights when a LAN connection is established.
4. Connect the other end of the cable to your LAN Ethernet connection. The LAN LED on the back of the IP Phone lights when a LAN connection is established.

*Figure 4 on page 34* shows the connections on the back of the IP Phone.

Connecting the PC Ethernet cable

Connect the CAT5e PC Ethernet cable between your IP Phone and your computer to enable your computer to access the LAN.

1. Plug one end of the PC Ethernet cable (not supplied) into the PC Ethernet port on the back of your IP Phone marked with the 🌟 symbol.
2. Thread the cable through the channel in the foot stand.
3. Connect the other end of the cable to the LAN port on your computer.
Wall-mounting the IP Phone (optional)

You can install your IP Phone 1230 on a wall. Wall-mount the IP Phone using the two keyholes on the back of the IP Phone. You do not need the foot stand for wall-mounted applications.

1. Remove the foot stand.
2. Ensure all cables are properly routed and the IP Phone 1230 is functioning.
3. Make small marks on the wall where you want to align each keyhole slot.
4. Insert the screws (not provided) so that they protrude slightly from the wall.
5. Align the keyholes on the back of the IP Phone 1230 with the screws in the wall.
6. Slide the IP Phone onto the screws to secure the IP Phone 1230 in position.
Customizing your IP Phone 1230—basic features

This section explains how to customize the features on your IP Phone 1230 to meet your requirements.

**Note:** Call features and Flexible Feature Codes (FFC) must be assigned to your IP Phone 1230 and supported by system software. Contact your system administrator to configure these features and codes on your IP Phone 1230.

Your IP Phone 1230 has both server-based telephone features and local (telephone-based) tools. Server-based telephone features are accessed through the **Telephone Options** menu item on the Services menu. Press the **Services** key once to access the Services menu, which has the following menu items:

- **Telephone Options**
  You or your system administrator can use the Telephone Options menu to configure telephone preferences. For more information, see “Telephone Options” on page 40.

- **Password Admin**
  You or your system administrator can use the Password Admin menu to assign or modify the Station Control Password. For more information, see “Managing your Station Control Password” on page 65.

- **Virtual Office Login**
  The Virtual Office Login menu is available on the IP Phone 1230. You must configure the Class of Service for Virtual Office.

**Note:** The Password Admin, Virtual Office Login, and Test Local Mode menus are not available on every IP Phone 1230. Consult your system administrator.
Telephone Options

The Telephone Options menu item provides you with access to the following features on your IP Phone 1230:

- “Adjusting volume” on page 42
- “Adjusting the display screen contrast” on page 43
- “Selecting a language” on page 44
- “Selecting date and time format” on page 46
- “Accessing display diagnostics” on page 46
- “Selecting a local dialpad tone” on page 47
- “Viewing IP Phone information” on page 48
- “Performing diagnostics” on page 49
- “Configuring Call Log Options” on page 50
- “Selecting a ring type” on page 56
- “Enabling or disabling Call Timer” on page 57
- “Enabling OnHook Default Path” on page 58
- “Changing feature key labels” on page 58
- “Configuring the name display format” on page 60
- “Configuring Live Dialpad” on page 61
- “Configuring Caller ID display order” on page 62
- “Configuring Normal mode indication” on page 62
To use the Telephone Options menu, perform the following steps:

1. Press the Services key.
   
   ![Services](image)

2. Press the Up or Down keys to scroll and select Telephone Options.
   
   ![Up Down Keys](image)

3. Press the Enter key.
   
   ![Enter Key](image)

4. Press the Up or Down keys to scroll, and select an option (for example, Language).
   
   ![Up Down Keys](image)
5. Press the **Enter** key. The display provides information required to adjust your selection.

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

---

### Adjusting volume

To adjust the volume:

1. Press the **Services** key, select **Telephone Options**, and select **Volume adjustment**

2. Press the **Up** or **Down** keys to scroll and select one of the following:
   - **Ringer**
   - **Handset listen**
   - **Handsfree listen**
   - **Headset listen**
   - **Buzzer**

3. Press the **Enter** key.
Adjusting the display screen contrast

You can adjust the contrast using the Local Tools menu; however, Nortel recommends that you use the Telephone Options menu.

**Note:** If an Expansion Module is attached to your IP Phone 1230, changes that you make to the LCD screen contrast of the IP Phone 1230 also apply to the display screen contrast configuration of the Expansion Module.

Use the following procedure to adjust the display screen contrast.

1. Press the Services key, select Telephone Options, and select Contrast adjustment.
Selecting a language

Information that appears on the display is available in multiple languages. This language setting controls the language only for IP Phone 1230 features.

Use the following procedure to configure the language.

1. Press the Services key, select Telephone Options, and select Language.

2. Press the Up or Down keys to scroll, and select the desired language (for example, German [Deutsche]).

   Note: You cannot install some languages on your IP Phone. Contact your system administrator for additional information about available languages.
3. Press the **Select** soft key to save the desired language and return to the **Telephone Options** menu.

   or

   Press the **Cancel** soft key to cancel the modifications.
Selecting date and time format

Several date and time formats are available. Formats are based on the 12-hour and 24-hour clocks.

Use the following procedure to select a date and time format.

1. Press the Services key, select Telephone Options, and select Date/Time.

2. Press the Up or Down keys to scroll, and select the desired date/time format. Sample date/time formats appear on the upper-right side of the display area.

3. Press the Select soft key to save the format and return to the Telephone Options menu.
   or
   Press the Cancel soft key to cancel the modifications.

Accessing display diagnostics

The Display diagnostics command tests the IP Phone 1230 display screen and indicator lights.

Use the following procedure to use Display diagnostics.

1. Press the Services key, select Telephone Options, and select Display Diagnostics.
Selecting a local dialpad tone

When you press a key, the response can be a Dual-Tone Multi-Frequency (DTMF) sound, a single tone, or no sound. This is known as the Local Dialpad Tone.

Use the following procedure to choose a local dialpad tone.

1. Press the Services key, select Telephone Options, and select Local DialPad Tone.

2. Press the Up or Down keys to scroll and select 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 different DTMF tone for each key.
Viewing IP Phone information

The Local Set Info option displays the following IP Phone-specific information.

- General Info
- Set IP Info
- Ethernet Info
- Server Info
- Encryption Info
- Location Info

Use the following procedure to view IP Phone information.

1. Press the Services key, select Telephone Options, and select Local Set Info.

2. Press the Up or Down keys to scroll through the list and view IP Phone information.

3. Press the Cancel soft key to cancel the modifications.
Performing diagnostics

The Diagnostics command displays the following IP Phone-specific information.

- Diag Tools (Ping, do Route Traces)
- EtherStats (Speed, Auto Neg, CRC Errors, Collision)
- IP Stats (Packet Info)
- RUDP Stats (Message receive or transmit)
- QoS Stats

Use the following procedure to view diagnostic information.

1. Press the Services key, select Telephone Options, and select Local Diagnostics.

2. Press the Up or Down keys to scroll through the list of diagnostic information.

3. 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 50
- “Configuring New Call Indication” on page 51
- “Configuring Preferred Name Match” on page 52
- “Configuring the area codes” on page 53

Configuring the Callers List log

You can configure the Callers List to log all incoming calls or to log only unanswered calls. The default configuration is to log all calls.

Use the following procedure to configure the Callers List.

1. Press the Services key, select Telephone Options, and select Call Log Options.

2. Press the Up or Down keys to scroll and select the Incoming Calls option.

3. Press the Up or Down keys to scroll and select the Log Mode option.

4. Press the Enter key.

5. Press the Up or Down keys to scroll and select Log Unanswered Calls.
Configuring New Call Indication

You can configure your IP Phone 1230 to display a message that indicates a new call. By default, this option is On.

Use the following procedure to configure New Call Indication.

1. Press the Services key, select Telephone Options, and select Call Log Options.

2. Press the Up or Down keys to scroll and select the Incoming Calls option.

3. Press the Up or Down keys to scroll and select the New Call Indication option.

4. Press the Enter key.

5. Press the Up or Down keys to scroll and select one of the following:
   - New call indication: Off
   - New call indication: On

6. Press the Select soft key to save the configuration.
   or
   Press the Cancel soft key to keep existing configurations.
Customizing your IP Phone 1230—basic features

Configuring Preferred Name Match

You can configure your IP Phone 1230 to display the name of the caller as defined in your Personal Directory. By default, the option is Off.

Use the following procedure to configure Preferred Name Match.

1. Press the Services key, select Telephone Options, and select Call Log Options.

2. Press the Up or Down keys to scroll and select Preferred Name Match.

3. Press the Enter key.

4. Press the Up or Down keys to scroll and select one of the following:
   - Preferred name match: On
   - Preferred name match: Off

6. Press the Select soft key to save the configuration.
   or
   Press the Cancel soft key to keep existing configurations.
Configuring the area codes

Use the Area Code Setup menu to save up to three area codes. When a call arrives with an area code that matches one of the saved area codes, the calling 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 applies when you scroll through your Callers List.

Use the following procedure to configure default area codes (maximum of three).

1. Press the Services key, select Telephone Options, and select Call Log Options.

2. Press the Up or Down keys to scroll and select Area Code Setup.

3. Press the Enter key.

5. Press the Select soft key to save the configuration.
   or
   Press the Cancel soft key to keep existing configurations.
Use the following procedure to edit area code display.

1. Press the **Services** key, select **Telephone Options**, and select **Call Log Options**.

2. Press the **Up** or **Down** keys to scroll and select **Area Code Setup**.

4. Press the **Up** or **Down** keys to scroll and select one of the following:
   - 1st Code
   - 2nd Code
   - 3rd Code

5. Press the **Enter** key.

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

7. Press the **Select** soft key to save the configuration.
   or
   Press the **Cancel** soft key to keep existing configurations.
3. Press the **Enter** key.

4. Press the **Up** or **Down** keys to scroll and select one of the following:
   - 1st Code
   - 2nd Code
   - 3rd Code

5. Press the **Enter** key.

6. Use the dialpad to edit the number.

7. Press the **Select** soft key to save the configuration.
   or
   Press the **Cancel** soft key to keep existing configurations.
Selecting a ring type

Use the Ring type option to configure the IP Phone ring tone.

Use the following procedure to select a ring type.

1. Press the Services key, select Telephone Options, and select Ring type.

2. Press the Up or Down keys to scroll and select one of the ring types.

3. Press the Play soft key to sample the ring tone.

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

   or

   Press the Stop soft key and use the Up or Down keys to select a different ring type.

   or

   Press the Cancel soft key to cancel the modifications.
Enabling or disabling Call Timer

The call timer measures the call duration.

Use the following procedure to enable or disable Call Timer.

1. Press the Services key, select Telephone Options, and select Call timer.

2. Press the Up or Down keys to enable or disable the Call Timer.

3. Press the Select soft key to save the configuration and return to the Telephone Options menu.
   or
   Press the Cancel soft key to cancel the modifications.
Enabling OnHook Default Path

Use the OnHook Default Path option to enable Headset or Handsfree for your IP Phone 1230.

Use the following procedure to enable OnHook Default Path.

1. Press the Services key, select Telephone Options, and select On Hook default path.

2. Press the Up or Down keys to select one of the following:
   - Handsfree Enabled
   - Headset Enabled

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

   or

   Press the Cancel soft key to cancel the modifications.

Changing feature key labels

Use the Change Feature Key label option to rename the label that corresponds to the feature key. You can define labels with a maximum of nine characters. You can also restore the default labels (collectively or individually).

Note: If a feature key is configured as an autodial key, the label does not change if the autodial key configuration changes.
Use the following procedure to rename the labels.

1. Press the **Services** key, select **Telephone Options**, and select **Change Feature Key label**.

2. Press the **Enter** key.

3. Press the feature key to change the label.
   
   If you press a prime DN key, an error message appears.

4. Enter the new information for the feature key label. To enter special characters, press the **Up** key. For information about entering text, see “Using the telephone dialpad” on page 84.

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

   Press the **Cancel** soft key to cancel the modifications.

Use the following procedure to restore the default labels.

1. Press the **Services** key, select **Telephone Options**, and select **Change Feature Key label**.
Customizing your IP Phone 1230—basic features

Configuring the name display format

You can configure your IP Phone 1230 to display the name of the calling party in one of the following formats:

- first name, last name
- last name, first name

Use the following procedure to configure name display format.

1. Press the Services key, select Telephone Options, and select Name Display Format.
Configuring Live Dialpad

The Live Dialpad option activates the Primary DN key when you make a call by dialing a directory number on the dialpad without picking up the handset or pressing the Handsfree key.

Use the following procedure to configure Live Dialpad.

1. Press the Services key, select Telephone Options, and select Live Dial Pad.

2. Press the Up or Down keys to scroll and select one of the following:
   - On
   - Off (default)

3. Press the Select soft key to save the configuration.
   or
   Press the Cancel soft key to cancel the modifications.
Configuring Caller ID display order

Caller ID display order appears in 2 formats:

- Number, name (default)
- Name, Number

Use the following procedure to configure Caller ID display order.

1. Press the Services key, select Telephone Options and select Caller ID display order.
2. Press the Up/Down navigation keys to scroll and select one of the following:
   - Number, name (default)
   - Name, number
3. Press the Select soft key to save the configuration, else press the Cancel key to cancel the modifications.

Configuring Normal mode indication

The Normal mode display indication can be On or Off when the IP Phone is in normal mode.

Use the following procedure to configure Normal mode indication.
1. Press the **Services** key, select **Telephone Options**, and select **Normal mode** indication.

2. Press the **Up/Down** navigation keys to scroll and select one of the following:
   - **On**
   - **Off**

3. Press the **Select** soft key to save the configuration, else press the **Cancel** key to cancel the modifications.
Customizing your IP Phone 1230—advanced features

You can customize features on your IP Phone 1230 to meet your requirements. This section describes how to customize the advanced features.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Many of the options discussed in this section are for the system administrator only. Do not make changes unless you are told to do so by an administrator.</td>
</tr>
</tbody>
</table>

You and the system administrator can customize the following advanced features:

- **Password Admin**
  Use the Password Admin menu to assign or modify the Station Control Password. See “Managing your Station Control Password” on page 65.

- **Electronic Lock**
  Assign a lock on your IP Phone to secure your IP Phone and avoid misuse. See “Configuring an Electronic Lock on your IP Phone” on page 67.

- **Personal Directory**
  Customize the Personal Directory to store your choice of names. See “Customizing the Personal Directory” on page 69.

- **Local Tools menu**
  Use the Local Tools menu to configure personal preferences. See “Configuring the Local Tools menu” on page 74.

- **Virtual Office Login**
  The Virtual Office Login menu can be configured on IP Phone 1230. Class of Service must be configured for Virtual Office. See “Using Virtual Office” on page 79.
Note: The Password Admin and Virtual Office Login menus are not available on every IP Phone 1230. Consult your system administrator.

Managing your Station Control Password

You can assign a Station Control Password (SCPW) to:

- lock your IP Phone and prevent the misuse of your IP Phone
- use password-protected features such as customizing the Personal Directory, using the Redial List, and using the Callers List

Note: Your system administrator defines your initial SCPW. Contact your system administrator for detailed information.

Assigning an SCPW

Use the following procedure to assign an SCPW.

1. Press the Services key.

2. Press the Up or Down keys to scroll and select Password Admin.

3. Press the Enter key.

4. Press the Up or Down keys to scroll and select New Password.
5. Press the **Enter** key.

6. Enter your new password using the dialpad. To enter special characters, press the **Up** key. For information about entering text, see “Using the telephone dialpad” on page 84.

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

*Note:* If you are locked out of your IP Phone 1230, or if you forget your SCPW, contact your system administrator.

**Turning Password Protection on or off**

Use the following procedure to turn Password Protection on or off.

1. Press the **Directory** key.

2. Press the **Up or Down** keys to scroll and select **Change Protection Mode**.

3. Enter your new password using the dialpad (if Password Protection is enabled).
   To enter special characters, press the **Up** key. For information about entering text, see “Using the telephone dialpad” on page 84.
Configuring an Electronic Lock on your IP Phone

Use the Electronic Lock feature to prevent others from making calls from your IP Phone 1230. Your SCPW controls the Electronic Lock feature. To change your Station Control Password, see “Managing your Station Control Password” on page 65.

Locking your IP Phone 1230

Use the following procedure to lock your IP Phone 1230.

1. Lift the handset.

4. Press the Enter soft key.

5. Press the Up or Down keys to scroll and select one of the following:
   - Enable Password Protection
   - Disable Password Protection

6. Choose Yes to accept the selection or Choose No to return to the Directory menu

7. Press the Done soft key.

Note: The default configuration for Password Protection is off.
Unlocking your IP Phone 1230

Use the following procedure to unlock your IP Phone 1230.

1. Lift the handset.

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

   (Goodbye)

   or

   

   If you dial locally, press the **Goodbye** key.

   or

   If you dial the FCC remotely, dial your DN.

2. Dial the **Electronic Lock Activate** FFC.
Customizing your IP Phone 1230—advanced features

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

4. If you dial locally, press the **Goodbye** key.
   
   or
   
   If you dial the FCC remotely, dial your DN.

**Customizing the Personal Directory**

Use the Personal Directory feature to create and store up to 100 contacts of your choice. 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 the Personal Directory, press the **Directory** key and select **Personal Directory**.

**Adding an entry**

Use the following procedure to add an entry to the Personal Directory.

1. Press the **Directory** key and select **Personal Directory**.
2. Press the **Add** soft key.

   If the message “Directory is full” appears, delete one or more entries to accommodate a new entry.

3. Use the dialpad to enter the name.
   To enter special characters, press the **Up** navigation key. For information about entering text, see “Using the telephone dialpad” on page 84.

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

5. Use the dialpad to enter the telephone number.

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

   or

   Press the **Cancel** soft key to return to the Add screen without saving the new entry.

---

**Editing an entry**

Use the following procedure to edit an entry in the Personal Directory.

1. Press the **Directory** key and select **Personal Directory**.
Deleting an entry

Use the following procedure to delete an entry in the Personal Directory.

1. Press the Directory key and select Personal Directory.

2. Press the Up or Down keys to scroll and select the desired entry.

3. Press the Del soft key.

4. Press the Done soft key to save the changes.

or

Press the Cancel soft key to return to the Personal Directory without saving your changes.
Copying an entry

Use the following procedure to copy an entry in the Personal Directory.

1. Press the **Directory** key and select **Personal Directory**.

2. Press the **Up** or **Down** keys to scroll, and select the desired entry.

3. Press the **More** soft key.

4. Press the **Copy** soft key to configure the new entry.

5. Use the dialpad to enter the name. To enter special characters, press the **Up** navigation key. For information about entering text, see “Using the telephone dialpad” on page 84.
Searching for an entry

Use the following procedure to search for an entry in the Personal Directory.

1. Press the **Up or Down** keys to scroll and select the desired entry.

2. Press the **Dial** soft key to call the number.  
   or  
   Press the **Directory** soft key to exit without calling.

6. Press the **Done** soft key to save the changes.  
   or  
   Press the **Cancel** soft key to return to the Personal Directory without saving your changes.
Configuring the Local Tools menu

Your IP Phone 1230 has both local and server-based telephone tools and features. This section discusses the various tools and features available locally on your IP Phone 1230.

CAUTION
Many of the options discussed in this section are for administrator use only. Do not make changes unless you are instructed by an administrator.

Note: Your system administrator can establish a password for the Local Tools menu. When the password is enabled, a password prompt dialog box appears when you attempt to access this menu. If this happens, contact your system administrator.

Local tools and features are accessed through the Local Tools menu. Press the Services key twice to access this menu. Your system administrator can establish a password for the Local Tools menu. When the password is enabled, a password prompt appears when you attempt to access this menu. If this happens, contact your system administrator.

The Local Tools menu has the following menu options:

- “1. Preferences” on page 76
- “2. Local Diagnostics” on page 78
- “3. Network Configuration” on page 79
- “4. Lock Menu” on page 79

If a menu command has a number in front of it, you can select the command by pressing the associated key on the dialpad. For example, in the Local Tools menu, access Local Diagnostics by pressing 2 on the dialpad.
The function of some keys on the IP Phone 1230 differs based on the situation. Table 5 on page 75 describes the function of each key for navigating and using menus.

**Table 5: Navigation key functions in menus**

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Down</strong> arrow key</td>
<td>Select the next menu item.</td>
</tr>
<tr>
<td><strong>Up</strong> arrow key</td>
<td>Select the previous menu item.</td>
</tr>
<tr>
<td><strong>Right</strong> arrow key</td>
<td>Select the current menu item.</td>
</tr>
<tr>
<td><strong>Left</strong> arrow key</td>
<td>Close the menu.</td>
</tr>
<tr>
<td><strong>Enter</strong> key</td>
<td>Select the current menu item.</td>
</tr>
<tr>
<td>Enter digits on the dialpad</td>
<td>Select the associated menu item.</td>
</tr>
<tr>
<td><strong>Stop</strong> soft key</td>
<td>Close the menu.</td>
</tr>
<tr>
<td><strong>Cancel</strong> soft key</td>
<td>Close the menu.</td>
</tr>
<tr>
<td><strong>Select</strong> soft key</td>
<td>Select the current menu item.</td>
</tr>
</tbody>
</table>

Table 6 on page 75 describes the key functions in dialog boxes.

**Table 6: Navigation key functions in dialog boxes**

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Down</strong> arrow key</td>
<td>Scroll down in the window.</td>
</tr>
<tr>
<td><strong>Up</strong> arrow key</td>
<td>Scroll up in the window.</td>
</tr>
<tr>
<td><strong>Right</strong> arrow key</td>
<td>Go to the next Edit item.</td>
</tr>
<tr>
<td><strong>Left</strong> arrow key</td>
<td>Go to the previous Edit item.</td>
</tr>
<tr>
<td><strong>Enter</strong> key</td>
<td>Turn Edit mode on or off.</td>
</tr>
<tr>
<td></td>
<td>Select or clear a check box.</td>
</tr>
</tbody>
</table>
When you work in Edit mode, the first field of the item is selected and a blinking cursor appears to the right of the current edit position. Table 7 on page 76 describes the navigation key functions in Edit mode.

**Table 7: Navigation key functions in Edit mode**

<table>
<thead>
<tr>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Down</strong> arrow key</td>
<td>Open the list. Select the next menu item.</td>
</tr>
<tr>
<td><strong>Up</strong> arrow key</td>
<td>Select the previous menu item.</td>
</tr>
<tr>
<td><strong>Right</strong> arrow key</td>
<td>Select the current list item. Move the cursor to the right.</td>
</tr>
<tr>
<td><strong>Left</strong> arrow key</td>
<td>Delete the prior character in the edit field. Moves cursor to the left.</td>
</tr>
<tr>
<td><strong>Enter</strong> key</td>
<td>Select the current menu item. Save modifications to the menu item. Exit edit mode box.</td>
</tr>
<tr>
<td>Enter characters or digits on the dialpad</td>
<td>Insert characters or digits at the current cursor position.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Press the star (*) key to insert a period (.).</td>
</tr>
</tbody>
</table>

**Note:** Special characters are accessed by pressing 1. By repeatedly pressing 1, the characters circle in the following sequence: 1, _, -, ., !, @, $, %, &, +, :, /, \.

1. **Preferences**

Use the 1. Preferences menu to alter the following local preferences:

- 1. Contrast
- 2. Language

1. **Contrast**

Use the Contrast tool to alter the physical settings of the display.
**Note:** Changes made to the display **Contrast** using this method are lost if you reset the IP Phone. To avoid this situation, Nortel recommends that you use the Contrast Adjustment control in the **Telephone Options** menu for contrast adjustment.

Use the following procedure to adjust the Contrast setting.

1. Press the **Services** key twice to open the Local Tools menu, press the 1 key on the dialpad to select **Preferences**, and press the 1 key to select **Contrast**.

2. Press the right or left arrow keys to increase or decrease the contrast value.

3. Press the **Enter** key to save the changes.

**2. Language**

Information that appears on the IP Phone display is available in multiple languages.

Use the following procedure to select a language

1. Press the **Services** key twice to open the Local Tools menu, press the 1 key on the dialpad to select **1. Preferences**, and press the 2 key to select **2. Language**.

2. Press the up or down keys to scroll and select the desired language (for example, German [Deutsche]).
3. Press the **Enter** key to save the changes.

4. Press the **Cancel** key to exit the **Preferences** menu without saving the changes.

**Note:** This language setting only controls the language used in the local menus on your IP Phone. To select the language for features on your IP Phone, press the **Services** key, select **Telephone Options**, and select **Language**...

### 2. Local Diagnostics

The **2. Local Diagnostics** submenu offers the following choices:

- **IP Set and DHCP Information** - View reports about IP Phone 1230 and DHCP operation.
- **Network Diagnostic Tools** - Diagnose network problems using ping and trace route tools.
- **Ethernet Statistics tool** - View reports about Ethernet operation.
- **IP Network Statistics** - View reports about network operation.

Press the **Return** soft key at any time to return to the previous Local Diagnostics submenu if you customize the IP Phone using the Local Diagnostics submenu. You can gather information and run tests without exiting and re-entering the Local Tools menu. For example, you can check the Ethernet Statistics, and then press **Return** to enter the Network Diagnostics Tools to ping an IP address.

**CAUTION**

Local Diagnostics, Network Configuration, and the Lock Menu items are for system administrator use only.
3. Network Configuration

The Network Configuration tool displays information that was configured when you installed the IP Phone 1230. This tool is for administrator use only.

4. Lock Menu

Your system administrator can use the Lock Menu tool to protect the Local Tools menu items from accidental or unwanted changes. This tool is for administrator use only.

Using Virtual Office

Use the Virtual Office feature to transfer calls and your office IP Phone settings to a remote IP Phone. You can use the remote IP Phone as if it were your office IP Phone. You can use another IP Phone (the remote phone) to log on to your Office IP Phone. After you log on, you can access the DNs and autodial numbers, and you have the same key layout, feature keys, and voice mail features that are configured on your office IP Phone.

To use Virtual Office, you need your DN and a preconfigured SCPW. You must activate Virtual Office on your office IP Phone before you can connect to it from a remote IP Phone. See “Logging on to Virtual Office” on page 80.

Consult your system administrator to confirm the availability of the Virtual Office feature on your IP Phone.

The IP Phone used as a remote phone to connect to your IP Phone 1230 does not have to be another IP Phone 1230. Table 8 on page 79 shows the IP Phones on which you can use Virtual Office to connect to your IP Phone 1230.

Table 8: Virtual Office connection availability (Part 1 of 2)

<table>
<thead>
<tr>
<th>IP Phone</th>
<th>Can I log on to IP Phone 1230?</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Phone 1110</td>
<td>Yes, with extra key restrictions</td>
</tr>
</tbody>
</table>
### Table 8: Virtual Office connection availability (Part 2 of 2)

<table>
<thead>
<tr>
<th>IP Phone</th>
<th>Can I log on to IP Phone 1230?</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Phone 1120E</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 1140E</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 1150E</td>
<td>No</td>
</tr>
<tr>
<td>IP Phone 2001</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 2002</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 2004</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 2007</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Audio Conference Phone 2033</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP SoftPhone 2050</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 1210</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 1220</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 2210</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 2211</td>
<td>Yes, with extra key restrictions</td>
</tr>
<tr>
<td>IP Phone 2212</td>
<td>Yes, with extra key restrictions</td>
</tr>
</tbody>
</table>

### Logging on to Virtual Office

Use the following procedure to activate Virtual Office on your office IP Phone 1230 from your remote IP Phone.

1. Press the **Services** key.
2. Press the **Up or Down** keys to scroll and select **Virtual Office Login**.

3. Press the **Enter** key.

4. At the prompt, enter your user ID.

5. Press the **Enter** key.

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

   If the user ID is not found locally, the message **Locating Remote Server** appears.

   **Note:** After three failed logon attempts, you must wait for an hour before you try to log on again. Alternatively, contact your system administrator to reset your password. For more information, see “Assigning an SCPW” on page 65.

A successful logon transfers all the features, time, date, and tones of your office IP Phone 1230 to your remote IP Phone. Your Virtual Office session expires after a fixed period of time which your system administrator determines.
Using Virtual Office on your remote IP Phone

The display characteristics, including size of the display area, differ with IP Phone models. Your Virtual Office display depends on the remote IP Phone that you use to log on to your Virtual Office. All features are the same as they appear on your office IP Phone 1230.

An IP Phone 1120E that is logged on remotely to an IP Phone 1230 provides less information than the IP Phone 1230 because it has fewer display lines.

When an IP Softphone 2050 logs on remotely to an IP Phone 1230, the information display is arranged differently, but all the information is visible at one time.

Regardless of the IP Phone model that you use as a remote IP Phone, a user information line appears that lists the number of your office IP Phone.

Using Virtual Office on your office IP Phone

When activated for Virtual Office by a remote IP Phone, your office IP Phone logs off and is no longer operational. When you return to the office, disconnect the remote logon to regain control of your office phone. If you do not explicitly disconnect the remote logon, your Virtual Office session expires after a fixed period of time, which your system administrator determines.
Disconnecting your office IP Phone from a remote IP Phone

Use the following procedure to disconnect your office IP Phone from a remote IP Phone.

To disconnect your office IP Phone from the remote IP Phone

a. Press the **Home** key.

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

or

Press the **Virtual** soft key to log on to another IP Phone, and your IP Phone becomes a remote IP Phone.

Logging off Virtual Office

Use the following procedure to log off from Virtual Office when working on a remote IP Phone.

1. Press the **Services** key.

2. Press the **Up or Down** keys to scroll and select **Virtual Office Logout**.

3. Press the **Enter** key.
Operating your IP Phone 1230

This section describes how to operate your IP Phone 1230. It describes operations such as entering text, making a call, using the Corporate directory, and using the Redial List.

Entering and editing text

You can enter and edit text on your IP Phone 1230 using the following methods:

- “Using the telephone dialpad” on page 84
- “Using the soft keys” on page 84

Using the telephone dialpad

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

For example, to enter the letter A, press the 2 key once. To enter the letter C, press the 2 key three times.

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

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.

Use the following procedure to edit an entry in your Personal Directory.

1. Press the Directory key.
2. Select the desired entry from Personal Directory.
3. Press the Edit soft key.
4. Press the Left or Right keys to move through the text.
5. Select the appropriate editing soft key for the operation you want to perform.
6. If the key you want is not visible, press the More soft key to access the next layer of soft keys.

7. Press the Up key to access the symbols.

8. Press the Left or Right keys to move to a specific symbol.

9. Press the Choose soft key to select a symbol.

10. Press the Next soft key to submit your changes.

Table 9 on page 85 describes the soft key editing functions on the IP Phone 1230.

**Table 9: Editing soft key description**

<table>
<thead>
<tr>
<th>Soft key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancel</td>
<td>Cancel action.</td>
</tr>
<tr>
<td>Choose</td>
<td>Select a symbol.</td>
</tr>
<tr>
<td>Clear</td>
<td>Clear the input field.</td>
</tr>
<tr>
<td>Case</td>
<td>Switch the next character to either uppercase or lowercase.</td>
</tr>
<tr>
<td>Delete</td>
<td>Backspace one character.</td>
</tr>
<tr>
<td>Done/Select/Enter</td>
<td>Application-dependent.</td>
</tr>
<tr>
<td>More</td>
<td>Access additional soft keys.</td>
</tr>
</tbody>
</table>

**Making a call**

This section describes the various ways you can make a call from your IP Phone 1230:

- “Using the Callers List” on page 86
- “Using the Redial List” on page 88
- “Using Off-hook dialing” on page 90
- “Using On-hook dialing” on page 91
- “Using Handsfree dialing” on page 92
- “Using the Corporate Directory” on page 94
Using the Callers List

The Callers List logs all incoming calls. The Callers List can store up to 100 entries. When the list is full, the oldest entry is overwritten. Use the Callers List to review missed calls and make a call, if desired. The Callers List contains the following components:

- the caller’s last and first name (if available)
- the DN of the caller
- the time and date of the call
- the number of times the caller called

Callers List entries are sorted by call arrival time.

The format of names in the Callers List depends on the configuration of Preferred Name Match. The Calling Party Name Display (CPND) appears according to the configuration settings on your IP Phone if Preferred Name Match is active on your IP Phone. If Preferred Name Match is off, the CPND appears as determined by the system configuration.

To access the Callers List, press the Directory key, and select Callers List. If password control is enabled, you must enter your SCPW at the prompt.
Dialing an entry
Use the following procedure to dial an entry in the Callers List.

1. Press the **Up or Down** keys to scroll and select the desired entry.

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

Deleting an entry
Use the following procedure to delete an entry in the Callers List.

1. Press the **Up or Down** keys to scroll and select the desired entry.

2. Press the **Del** soft key.

3. Press the **Yes** soft key to confirm the entry deletion.

   or

   Press the **No** soft key to return to the Callers List without deleting the entry.
Deleting the entire Callers List

Use the following procedure to delete the entire Callers List.

1. Press the Del soft key.

2. Choose Yes to delete the entire Callers List or Choose No to return to the previous screen.

Using the Redial List

The Redial List logs a maximum of 20 outgoing calls. When the list is full, the system overwrites the oldest entry. Use the Redial List feature to review calls made and to redial numbers. The Redial List contains:

- the last and first names of the dialed party (if available)
- the DN of the dialed party
- the time and date of the last occurrence of the call

Entries in the Redial List are sorted based on the time of the call.

The format of names in the Redial List depends on the configuration of Preferred Name Match. The Calling Party Name Display (CPND) appears according to the configuration settings on your IP Phone if Preferred Name Match is active on your IP Phone. If Preferred Name Match is off, the CPND appears as determined by the system configuration.

To access the Redial List, press the Directory key and select Redial List. Alternatively, press the Outbox (Redial) key. If password control is enabled, you must enter your SCPW at the prompt.
Operating your IP Phone 1230

Dialing an entry
Use the following procedure to dial an entry in the Redial List

1. Press the Up or Down keys to scroll and select the desired entry.
2. Press the Dial soft key.

Deleting an entry
Use the following procedure to delete an entry in the Redial List.

1. Press the Up or Down keys to scroll and select the desired entry.
2. Press the Del soft key.
3. Choose Yes to confirm the entry deletion.
   or
   Choose No to return to the previous screen without entry deletion.
Deleting the entire Redial List
Use the following procedure to delete the entire Redial List.

1. Press the Del soft key.

2. Choose Yes to confirm the deletion of the entire Redial List.

   or

   Choose No to return to the previous screen without deletion.

Using Off-hook dialing
Perform the following steps to make a call by using the handset.

1. Lift the handset.

2. Dial the number.

3. To end the call, return the handset to the cradle

   or

   Press the Goodbye key.
**Using On-hook dialing**

Perform the following steps to make a call without lifting the handset.

1. Leave the handset in the cradle.

2. Press the line (DN) key.

3. Listen for the dial tone and dial the number.

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

5. To end the call, return the handset to the cradle
   or
   Press the **Goodbye** key.
Using Handsfree dialing

Use handsfree dialing to make a call using the built-in microphone and speaker or using a headset.

1. Press the **Handsfree** key.
   
   or

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

2. Dial the number.

During a call, you can perform the following tasks:

- “Terminating a handsfree call” on page 92
- “Muting a handsfree call” on page 93
- “Switching from handsfree to handset mode” on page 93
- “Switching from handset mode to handsfree” on page 93
- “Using a headset” on page 93
- “Switching from handsfree to headset” on page 94

**Terminating a handsfree call**

Use the following procedure to terminate a handsfree call.

1. Press the **Goodbye** key.

   (Goodbye)
Muting a handsfree call
Use the following procedure to mute a handsfree call.

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

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

Switching from handsfree to handset mode
Use the following procedure to switch from handsfree to handset mode.

1. Lift the handset.

Switching from handset mode to handsfree
Use the following procedure to switch from handset mode to handsfree.

1. Press the **Handsfree** key.

2. Replace the handset.

Using a headset
Use the following procedure to use a headset.

1. Connect the headset to the headset jack.
Operating your IP Phone 1230

Switching from handsfree to headset
Use the following procedure to switch from handsfree to headset.

1. Press the Headset key.

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

Searching for a specific number
Use the following procedure to search for a specific number in the Corporate Directory.

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

Search

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

The first match appears on the screen.
Making a call using the Corporate Directory

Use the following procedure to make a call using the Corporate Directory.

Note: This feature is not available on all IP Phones. Contact your system administrator to find out if this feature is available for your use.

1. Press the Up or Down keys to scroll and select a name in the Corporate Directory.

2. Press the Dial soft key to dial the resulting number.
   or
Press the Cancel soft key to exit without dialing.

Using the Personal Directory

You can use the Personal Directory feature to store a maximum of 100 entries that consist of names and telephone numbers. To use the
Personal Directory, press the **Directory** key, and select **Personal Directory**.

1. Press the *Up or Down* keys to scroll and select a name in the **Personal Directory**.

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

   or

   Press the **Directory** soft key to exit without dialing.

**Using Predial**

Use the Predial feature to enter, preview, and edit numbers before you make a call.

**Making a call**

Use the following procedure to make a call using the Predial feature.

1. Enter the number to be dialed without selecting the line key.

2. Press a line key to dial the number.

3. Lift the Handset when the called party answers, or begin to speak if you are in handsfree mode.
Editing a Predial number

Use the following procedure to edit a Predial number.

1. Use the dialpad to enter the number.

2. To erase all numbers, press the Clear soft key.
   Reenter the numbers to dial.
   or
   To change one number at a time, press the Delete soft key to backspace. Reenter the number.

3. Press a line key to dial the number.

Using AutoDial

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

Using AutoDial to make a call

Use the following procedure to make a call using the Autodial feature.

1. Lift the handset.

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

Use the following procedure to store an Autodial number.

1. Without lifting the handset, press the **AutoDial** key.
   
   The screen displays the word Autodial next to the appropriate key.

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

3. Press the **AutoDial** key a second time to store the number on the selected key.
   
   After you store a number, the word Autodial disappears, and the stored number appears.

4. Assign a label to the key.
   
   After you assign the label, the number disappears and only the label appears on the screen next to the key.

Displaying an AutoDial number

Use the following procedure to display an AutoDial number.

1. Press the **Display** key.

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

Use the Ring Again feature to automatically redial the number if you receive a busy tone, or if your called party does not answer. Your IP Phone 1230 rings when the person you called becomes available.

Activating Ring Again

Use the following procedure to activate Ring Again.

1. Dial a number.

The called party does not answer or you receive a busy tone.

2. Press the Ring Again soft key.

or

Enter the Ring Again Activate Flexible Feature Code.

Calling a Ring Again party after notification

Use the following procedure to call a Ring Again party after notification.

1. After you receive the notification ring, lift the handset; or, if you use a headset or are in handsfree mode, go to step 2.
Operating your IP Phone 1230

Deactivating Ring Again before notification
Use the following procedure to deactivate Ring Again before notification.

1. Press the Ring Again soft key a second time.
   
   or
   
   Press the Ring Again Deactivate FFC.

Using Last Number Redial
Use the Last Number Redial feature to automatically redial the most recently dialed number.

1. To redial using the handset, lift the handset and press the line (DN) key.

2. To redial without lifting the handset, press the line (DN) key twice.
Operating your IP Phone 1230

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

Storing a Speed Call number
Use the following procedure to store a Speed Call number.

1. Press the SpcCtl soft key.
2. At the prompt, enter a one-, two-, or three-digit code (0-999).
3. If required, dial the access code.
4. Enter the phone number (internal, external, or long-distance number).
5. Press the SpcCtl soft key again to save the code and number.

Making a call using Speed Call
Use the following procedure to make a call using Speed Call.

1. Lift the handset.
2. Press the SpcCtl 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 IP Phone.

1. Lift the handset.

2. Press the **System Speed Call** soft key.
   
   or

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

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

### Using HotLine

Use the Hot Line feature to automatically dial a number.

1. Press the **HotLine** soft key to automatically dial the number.
Using Intercom Calling

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

Making an intercom call

Use the following procedure to make an intercom call.

1. Lift the handset.

2. Press the **Intrcm** key.

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

Answering an intercom call during a call (non-intercom group line)

Use the following procedure to answer an intercom call during a call.

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

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

2. Press the **Intrcm** key and begin to speak.
Answering a call

Each incoming call causes the IP Phone to ring, the LCD indicator beside the line (DN) key to flash, and the Message Indicator lamp to flash.

1. Lift the handset.
   or
   Press the Handsfree button on the left side of the handset.
   or
   Press the line (DN) key beside the LCD indicator as it flashes.
   or
   Press the Headset key if a headset is connected to your IP Phone.

Managing calls while not on a call

Other than answering a call ("Answering a call" on page 104), you can efficiently handle an incoming call using one of the following methods:

- “Using Automatic Answerback” on page 104
- “Using Call Pickup” on page 105

Using Automatic Answerback

When the Automatic Answerback feature is active, your IP Phone automatically answers the call in Handsfree mode after one ring.
Activating Automatic Answerback
Use the following procedure to activate Automatic Answerback.

1. Press the **AutoAns** key.

Deactivating Automatic Answerback
Use the following procedure to deactivate Automatic Answerback.

1. Press the **AutoAns** key.

*Note:* Calls are not forwarded to the voice message service.

Using Call Pickup
Use the Call Pickup feature to pick up calls in your pickup group or another pickup group from your IP Phone.

Answering a call in your own call pickup group
Use the following procedure to answer a call in your own call pickup group.

1. Lift the handset.

2. Press the **Pickup** key.

   or

   Enter the **Pickup Ringing Number** FFC.
Answering a call in another call pickup group
Use the following procedure to answer a call in another call pickup group.

1. Lift the handset.

2. Press the GrpPkp soft key.
   or
   Enter the Pickup Group FFC.

3. Dial the pickup group number of the ringing IP Phone.

Answering a call at a specific extension in any pickup group
Use the following procedure to answer a call at a specific extension in any call pickup group.

1. Lift the handset.

2. Press the DN Pickup key.
   or
   Enter the Pickup Directory Number Flexible Feature Code.
You can use the following features during a call:

- “Using Call Hold” on page 107
- “Using Call Waiting” on page 108
- “Transferring a Call” on page 109
- “Using Timed Reminder Recall” on page 110
- “Using Attendant Recall” on page 112
- “Using Call Park” on page 112
- “Recording a Calling Party (Caller) Number” on page 115
- “Displaying call details” on page 115

**Using Call Hold**

Use the Hold feature to place the original call on hold and then answer the second call.
Placing a call on hold
Use the following procedure to place a call on hold.

1. Press the Hold key.

   The LCD indicator flashes beside the line on hold.

   Note: Enabling Automatic Hold automatically places the active call on hold when you answer the second call.

Retrieving a call on hold
Use the following procedure to retrieve a call on hold.

1. Press the Hold key to place an active call on hold. Press the Hold key again or press the flashing line (DN) key to return to the caller on hold.

Using Call Waiting
The Call Waiting feature produces a tone to alert you to an incoming call when you are already on a call. Call Waiting allows you to place the current call on hold while you answer the new call.
Answering an call during another call
Use the following procedure to answer a call during another call.

1. Upon receiving a call, press the Hold key to place the current call on hold.

   *Note:* Enabling Automatic Hold automatically puts the active call on hold when you answer the second call.

2. Press the Call Waiting key.

Returning to the original call
Use the following procedure to return to the original call.

1. Press the Hold key to place the second call on hold.
   
   or
   
   Press the Goodbye key to end the second call.

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

Transferring a Call
Use the Transfer feature to redirect a call to the appropriate person.
Transferring a call to a third party

Use the following procedure to transfer a call to a third party.

1. Press the Trans soft key during an active call.
   The calling party is placed on hold. You hear a dial tone. The indicator icon flashes steadily.

2. Dial the number to which you are transferring the call.

3. When that telephone rings or a person answers the call, press the Trans soft key.
   The calling party is connected to the appropriate person.

Returning to the original call if the transfer is incomplete

Use the following procedure to return to the original call if the transfer is incomplete.

1. If the called party does not answer the transferred call, press the line (DN) key (next to the LCD indicator) to reconnect to the calling party.

Using Timed Reminder Recall

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

Use the following procedure to transfer a call using Timed Reminder Recall.

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

2. Dial the number to which you are transferring the call.

3. Press the **Trans** 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 IP Phone rings.

Returning to the original call if the transferred call is unanswered

Use the following procedure to return to the original call if the transferred call is unanswered.

1. Lift the handset to reconnect to the calling party.
Using Attendant Recall

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

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

2. Press the Goodbye key.

   The caller connects to the attendant.

Using Call Park

Use the Call Park feature to hold (park) your active call temporarily and retrieve a call from any IP Phone. Using Call Park does not tie up a line.
Parking a call on the System Park DN
To park a call on the System Park DN or your own DN, perform the following procedure.

1. During an active call, press the Park soft key twice.
   The call is parked on your DN.

   **Note:** Enabling System Park DN automatically parks the calls on the system park DN.

Parking a call on a DN (not System Park DN or own DN)
To park a call on a DN (not System Park DN or own DN), perform the following procedure.

1. Press the Park soft key.
2. Dial the DN on which to park the call.
3. Press the Park soft key.
Parking a call using the SPRE code or FFC

To park a call using the SPRE code or FFC, perform the following procedure.

1. Press the Trans soft key.
   or
   Press the Conference soft key.

2. Dial the Call Park FFC.

3. To use an alternative 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.

4. Press the Transfer soft key.
   or
   Press the Conference soft key.

Retrieving a parked call

Use the following step to retrieve a parked call.

Note: When Call Park is configured network-wide, you can use this feature across networks. You can configure a System Park extension to automatically park most calls.

1. Lift the handset.
Operating your IP Phone 1230

Recording a Calling Party (Caller) Number
During a call, use the Calling Party Number feature to record the calling party number, or to charge the call to an account number.

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

2. Dial a charge account number or the caller number.
   **Note:** For information about using the Charge soft key, see “Using AutoDial Transfer” on page 142.

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

Displaying call details
During an active call, use the Display feature to display the caller’s number and name (if available) without interfering with the call.

1. Press the Display key.
Managing calls while away from your desk

You can use the following features when you are away from your desk to manage an incoming call and to ensure you do not miss a call:

- “Using Call Forward” on page 116
- “Using Internal Call Forward” on page 117
- “Using Remote Call Forward” on page 119

Using Call Forward

Use the Call Forward feature to direct incoming calls to ring on another line (DN). A call already on your IP Phone cannot be forwarded.

Activating Call Forward

Use the following procedure to activate Call forward or change the call follow number

1. Press the Fwd soft key.

   or

2. Press the flashing line (DN) key.

   The call information appears.

   If you use another feature, you can use the Display key to access information associated with those feature keys.
Deactivating Call Forward
Use the following procedure to deactivate Call Forward.

1. Press the Fwd soft key.

or

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

Reinstating a Call Forward number
Use the following procedure to reinstate a Call Forward number.

1. Press the Fwd soft key twice.

Using Internal Call Forward
Use Internal Call Forward to forward only those calls that originate from internal DNs. Calls that originate outside your IP Phone system (External Calls) ring on your IP Phone. You cannot forward the currently active call.
Forwarding internal calls only
Use the following procedure to forward internal calls only.

1. Press the IntForward key.
   or
   Lift the handset and enter the Internal Call Forward Activate FFC.

2. Dial the DN to which you want to forward your internal calls.

3. Press the IntForward key.

Deactivating Internal Call Forward
Use the following procedure to deactivate Internal Call Forward.

1. Press the IntForward key.
   or
   Lift the handset and enter the Internal Call Forward Deactivate FFC.

Reinstating Internal Call Forward number
Use the following procedure to reinstate an Internal Call Forward number.

1. Press the IntForward key twice.
Using Remote Call Forward

Use the Remote Call Forward feature to forward calls on your IP Phone to another DN from a remote telephone.

Activating Remote Call Forward

Use the following procedure to activate Remote Call Forward.

1. Lift the handset.

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

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

4. Dial your Station Control Password.
   
   You hear a dial tone.

5. Dial your DN.

   or

   To reinstate call forward to the previous call forward number, press the # key.
   (Do not perform steps 6 and 7.)
Deactivating Remote Call Forward
Use the following procedure to activate Remote Call Forward.

1. Lift the handset.

2. If you call 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 you hear the dial tone, dial your DN.
Managing multiparty calls

Use the following features to enable multiparty conversations
- “Using Call Join” on page 121
- “Setting up a Conference Call” on page 122
- “Using Conferee Selectable Display” on page 123
- “Using Group Call” on page 124

Using Call Join

Use the Call Join feature to connect a new caller to an active call. This connection creates a conference (conversation involving more than two parties) between the two callers and yourself.

1. To connect a call on hold to your current call, press the Conf soft key.

2. Press the line key of the caller you want to connect to your current call.

3. Press the Conf soft key again to join the person on hold to your conversation.
Setting up a Conference Call

Use the Conference feature to initiate a conference call for a group of three to six people including yourself. The maximum number of people supported in a conference call depends on the IP Phone configuration.

1. During a call, press the **Conference** key to place the party on hold.

   You hear a dial tone.

2. Dial the number of the person to add to the conference call.

   Alternatively, instead of dialing a number, you can press the **Directory** key, and use the **Corporate Directory** or **Personal Directory**, **Redial List**, and **Callers List** to find and dial the number of the person you want to add to the conference call.

   You can talk to the called person privately without being heard by the party on hold.

3. Press the **Conference** key again to connect all parties.

4. If the party you attempt to add to the conference is unavailable, press the **Goodbye** key.

   The attempted call ends.

5. Press the line (DN) key beside the flashing icon to return to your original call.
Using Conferee Selectable Display

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

Viewing active conferees

Use the following procedure to view active conferees.

1. During a conference call, press the Confdsp key to turn on the LCD indicator. Each key press changes the screen to show a different active conferee.

   This action has no effect on the display of other IP Phones involved in the conference.

2. Press the Goodbye key.

   If configured, the Conference Count Display returns an updated count of conferees. The LCD indicator turns off.

Disconnecting a conferee

Use the following procedure to disconnect a conferee.

1. During a conference call, press the Confdsp key until the conferee to disconnect appears on the screen.

2. Press the DN key on which the conference call is established.
Using Group Call

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

Calling group members

Use the following procedure to call group members.

1. Lift the handset.

2. Press the GrpCl 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 icon lights steadily.

   Note: When a person in your group is on a conference call or another group call, they are not connected to your group call.
Answering a group call
Use the following procedure 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 IP Phone.

— 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.

Ending a group call
Use the following procedure to end a group call.

1. 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.
Managing calls while busy at work

Using Make Set Busy
Use the Make Set Busy feature to make your IP Phone appear busy to all callers.

Activating Make Set Busy
Use the following procedure to activate Make Set Busy.

1. Press the MakeSetBsy key.
   or
   Lift the handset, and enter the Make Set Busy Activate FFC.

Deactivating Make Set Busy
Use the following procedure to deactivate Make Set Busy.

1. Press the MakeSetBsy key a second time to deactivate the feature.
   or
   Lift the handset and enter the Make Set Busy Deactivate FFC.
Hotel applications

Hotel applications are a group of hospitality features that increase the value of the IP Phone 1230. In a hotel environment, guests can access the following services:

- “Configuring Automatic Wake-Up” on page 127
- “Activating Message Registration” on page 129
- “Using Maid Identification” on page 131
- “Using Room Status” on page 133

Configuring Automatic Wake-Up

Use the Automatic Wake-Up feature to receive a timed reminder call. You can program your IP Phone to automatically place a call at a predetermined time. When you answer the call, prerecorded music plays for 30 seconds followed by a prerecorded announcement or the attendant on the line.

Entering Automatic Wake-Up call

Use the following procedure to enter an Automatic Wake-Up call.

1. Lift the handset.

2. Dial the Automatic Wake-Up Request FFC.
Cancelling Automatic Wake-Up call
Use the following procedure to cancel Automatic Wake-Up call.

1. Lift the handset.

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

3. Press the **Goodbye** key.
Verifying Automatic Wake-Up call
Use the following procedure to verify 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).
   
   You hear a confirmation tone if your query matches the preset time.
   
   To enter the time in a 24-hour time format, enter the hours followed by the minutes. For example, to configure the time to 7:30 a.m., enter 0730; to configure it to 9:45 p.m., enter 2145.

4. Press the **Goodbye** key.

Activating Message Registration
Use the Message Registration feature to read, change, or reset meters that log your IP Phone calls.

Reading meters
Use the following procedure to read meters.

1. Press the **MRK** key.
Changing meter

Use the following procedure to change a meter.

1. Press the **MRK** key.

2. Dial the **Directory Number** (DN) of the IP Phone in the hotel room.

3. Dial the correct meter count.

4. Press the * key.

5. Press the **MRK** key.
### Resetting a meter to zero

Use the following procedure to reset a meter to zero.

1. Press the **MRK** key.
2. Dial the **Directory Number** (DN) of the IP Phone in the hotel room.
3. Press the * key.
4. Press the **MRK** key.

### Using Maid Identification

Use the Maid Identification feature to track the cleaning status of rooms. The maid enters the information from the IP Phone in your room.

### Entering cleaning status

Use the following procedure to enter cleaning status.

1. Press the **RMK** key.
2. Dial the **Directory Number** (DN) of the room.
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
   You hear an interrupted dial tone.

4. Press the * key.

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

6. Press the RMK key.
Using Room Status

Use the Room Status feature to display the status of a room.

Displaying room status

Use the following procedure to enter cleaning status.

1. Press the RMK key.
2. Dial the Directory Number (DN) for the room.
   The DN appears 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
3. Press the RMK key.
Changing the status of a room

Use the following procedure to change the status of a room.

1. Press the **RMK** key.

2. Dial the **Directory Number** (DN) for the room.
   
The DN appears 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

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

4. Press the **RMK** key.
Paging Features

The IP Phone 1230 supports the following paging voice call features:

• “Using Call Page Connect to make an announcement” on page 135
• “Using Radio Page” on page 135
• “Using Voice Call” on page 138

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 IP Phones. The IP Phones must reaccess the page trunk.*

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.

Using Radio Page

Use the Radio Page feature to page a user and stay on the line until the called party answers. The paged user answers the call after entering a special Page Meet-Me code from any IP Phone.
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Using Automatic Preselection (Meet-Me page)
Perform the following procedure to use Automatic Preselection.

1. Lift the handset.

2. Dial the Radio Paging Access FFC.
   You hear the paging tone (two beeps followed by a dial tone).

3. Dial the number of the party you want to page.
   After dialing, you hear the ringback tone.
   The paged party can use any telephone to enter a Radio Paging Answer FFC and their own DN number.

4. If your call remains unanswered for a preset time period, during which you hear a 15-second high-pitched tone sounds followed by silence, press the Goodbye key or replace the handset.

Using Automatic Post-selection
The called party is either busy on the telephone or away from their desk. To page the called party, you do not need to redial the number of the called party.

1. Press the RadPag soft key.
   You hear a special dial tone.
Answering a Radio Page

If you carry a Radio Pager, a page indicates that a caller tried to reach you by dialing your DN. If the Radio Page system is configured to function in Meet-me mode, you can answer the page call from any IP Phone.

1. Lift the handset.
2. Dial the Radio Page Answer FFC.
   You hear the paging tone.
3. Dial your own DN to connect to the paging caller.
   If the caller disconnects, you hear a high-pitched (number unavailable) tone.

(Goodbye) or

Operating your IP Phone 1230

2. Dial the Radio Paging Access FFC.
   You hear the ringback tone.
   The paged party can use any telephone to enter a Radio Paging Answer FFC, and their own DN number.

3. If your call remains unanswered for a preset time period, during which you hear a 15-second high-pitched tone, followed by silence, press the Goodbye key or replace the handset.
Using Voice Call

Use the Voice Call feature to make an announcement from another IP Phone speaker.

Making a voice call

Use the following procedure to make a voice call.

1. Lift the handset.

2. Press the VceCall key and make the announcement.

3. Press the Goodbye key.

Responding to a voice call

Use the following procedure to respond a voice call.

1. Your IP Phone rings once and the caller's voice transmits through your speaker. Lift the handset to respond.

Call Override features

Use the Call Override features to connect to a busy user. You can connect to a user immediately, or after their current call ends. Some call override features are available only if your system administrator configures them. Contact your system administrator to determine if the following call override features are available:

- “Overriding a busy signal” on page 139
- “Using Forced Camp-on feature” on page 139
• “Using Enhanced Override” on page 141

Overriding a busy signal

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

1. Dial a number.
   You receive a busy tone.

2. Press the EnhOvr key.
   or
   Enter the Override FFC.
   The person in the targeted call receives a tone for approximately 1 second. After the Override feature connects you to the call, a short tone repeats every 16 seconds.

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

Using Forced Camp-on feature

Use the Forced Camp-on feature to automatically call a busy telephone (internal or external) immediately after the telephone disconnects from the current call.
Using Forced Camp-on
Follow the given procedure to use Forced Camp-on.

1. Dial a number.
   You receive a busy tone.

2. Press the EnhOvr key.
   or
   Enter the Override FFC to initiate a Forced Camp-on.
   The called party receives a tone. You hear a ring signal or a busy signal, depending on the options chosen. You are now camped-on to the number you dialed.

3. Return the handset to the cradle.

4. When the called party finishes the call, your IP Phone automatically dials the number and both telephones ring.

Answering a call camped-on to your extension
Use the following procedure to answer a call camped-on to your extension.

1. When your IP Phone rings, lift the handset.
   
   *Note:* You can program your IP Phone for either Camp-on or Call Waiting, but not both.
Using Enhanced Override

Use the Enhanced Override feature to override an active call after you attempt a Forced Camp-on.

1. Dial a number.
   You receive a busy signal.

2. Press the EnhOvr key.
   or
   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 or engaged) signal.

3. Press the EnhOvr key again.
   or
   Enter the Override FFC again.
   The other two people on the call receive an override tone and a conference call is established between the three of you. If anyone disconnects, the other two people remain connected.

4. To terminate the call, press the Goodbye key.
Using Centrex services

You can use a few Centrex services from your IP Phone. Contact your system administrator to determine if the following features are available:

- “Using Centrex or Exchange Line Switchhook Flash” on page 142
- “Using AutoDial Transfer” on page 142

Using Centrex or Exchange Line Switchhook Flash

Use the Centrex or Exchange Line Switchhook Flash feature during an active call to use Call Transfer or Three-Way Calling.

1. During a call, press the CentrexSHF key. You hear a special dial tone.
2. Dial the codes for your custom Centrex feature.
3. Press the Goodbye key to end the call.

Using AutoDial Transfer

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

1. Press the CentrexSHF key, and wait for an interrupted dial tone.
Operating your IP Phone 1230

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

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

---

**Miscellaneous call features**

Some call features are available only if your system administrator configures them. Contact your system administrator to determine if the following call features are available.

- “Tracing calls” on page 143
- “Charging a call or charging a forced call” on page 144
- “Using the Buzz signal” on page 148
- “Using Privacy Release” on page 149

**Tracing calls**

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

**Tracing with the Call Trace key**

Perform the following step to trace with the Call Trace key.

Press the **CallTrace** key.
Using Call Trace without a Call Trace key

Use the following procedure to use Call Trace without a Call Trace key.

1. Press the Trans soft key.

   or

   Press the Conf key.

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

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 an IP Phone that is restricted to local calls.

Charging a local or long-distance call to an account before you dial

Use the following procedure to charge a local or long-distance call to an account before you dial.

1. Lift the handset.

2. Press the Charge soft key.
Charging a call in progress

Use the following procedure to charge a call in progress.

1. Press the **Trans** soft key.
   or
   Press the **Conf** soft key.
   The call is placed on hold.

2. Press the **Charge** soft key.
   or
   Dial the **Call Detail Recording** FFC.
Charging a transferred call to an account

Use the following procedure to charge a transferred call to an account.

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

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

3. Dial the charge account number.
4. After you hear the dial tone, dial the number to which you are transferring the call.

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

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

### Charging a conference call to an account

Use the following procedure to charge a call to an account when you add someone to a conference call

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

2. Press the **Charge** soft key.
   
   or
   
   Dial the **Call Detail Recording** FFC.
Using the Buzz signal

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

1. Press the Buzz key.

The IP Phone linked to your IP Phone buzzes as long as you press the key.

3. Dial the charge account number.

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

5. Press the Conference soft key.
Using Privacy Release

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

1. Press the **PvRls** soft key during a call.

    People can join the call by pressing the shared number (DN) key on their IP Phone (Multiple Appearance DN feature).

Using External Server Applications

Use External Server Applications to directly access a variety of applications from your IP Phone 1230.

To learn more about the available features and services, contact your system administrator. Depending on which features are available on your system, your phone can provide information; for example, local news and weather, stock market information, or traffic reports.

For more information about the External Server Applications, see the *Nortel IP Phone External Server Applications User Guide* (NN-10300-023).
Troubleshooting your IP Phone 1230

This section provides basic information about troubleshooting your IP Phone 1230 if Virtual Office causes a problem. For additional help, see “How to get help” on page 22.

Virtual Office

Virtual Office can cause error messages to display on-screen. Table 10 on page 150 lists error messages and describes actions to correct the causes.

**Table 10: Troubleshooting Virtual Office (Part 1 of 4)**

<table>
<thead>
<tr>
<th>Displayed message</th>
<th>Probable cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Busy, try again</td>
<td>Remote IP Phone is active (not idle).</td>
<td>Wait for remote IP Phone to become idle and try again.</td>
</tr>
<tr>
<td></td>
<td>ACD is logged on.</td>
<td>Log off ACD IP Phone before you initiate Virtual Office from another IP Phone.</td>
</tr>
<tr>
<td></td>
<td>Make Set Busy is inactive on ACD IP Phone.</td>
<td>Configure Make Set Busy active on ACD IP Phone.</td>
</tr>
</tbody>
</table>
## Table 10: Troubleshooting Virtual Office (Part 2 of 4)

<table>
<thead>
<tr>
<th>Displayed message</th>
<th>Probable cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invalid ID (1)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td></td>
<td>User ID is not in Gatekeeper database.</td>
<td>Notify system administrator.</td>
</tr>
<tr>
<td>Invalid ID (2)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td>Invalid ID (3)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td></td>
<td>User ID in Gatekeeper database points to originating Call Server.</td>
<td>Notify system administrator.</td>
</tr>
<tr>
<td>Locked from Login</td>
<td>Three failed attempts to enter the correct Station Control Password.</td>
<td>Wait one hour for the lock to clear automatically, or notify system administrator to clear lock.</td>
</tr>
<tr>
<td>Permission Denied (1)</td>
<td>Remote IP Phone has no Station Control Password.</td>
<td>Notify system administrator.</td>
</tr>
</tbody>
</table>
### Table 10: Troubleshooting Virtual Office (Part 3 of 4)

<table>
<thead>
<tr>
<th>Displayed message</th>
<th>Probable cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permission Denied (3)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td></td>
<td>Remote IP Phone has no Station Control Password.</td>
<td>Notify system administrator.</td>
</tr>
<tr>
<td>Permission Denied (4)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td></td>
<td>Attempt to log on to a remote IP Phone 1120E or a IP Softphone 2050 from an IP Phone 1230(some restrictions apply).</td>
<td>Go to an IP Phone 1120E or a IP Softphone 2050 and try again, or consult your local system administrator.</td>
</tr>
<tr>
<td>Permission Denied (5)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td></td>
<td>Remote IP Phone does not have VOUA Class of Service.</td>
<td>Notify system administrator.</td>
</tr>
</tbody>
</table>
Table 10: Troubleshooting Virtual Office (Part 4 of 4)

<table>
<thead>
<tr>
<th>Displayed message</th>
<th>Probable cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permission Denied (6)</td>
<td>Incorrect User ID entered.</td>
<td>Enter correct User ID.</td>
</tr>
<tr>
<td></td>
<td>Incorrect Station Control Password entered.</td>
<td>Select Retry, and try again with the correct Station Control Password.</td>
</tr>
<tr>
<td>Server Unreachable (1)</td>
<td>Network problem.</td>
<td>Notify system administrator if the problem persists.</td>
</tr>
<tr>
<td>Server Unreachable (2)</td>
<td>Network problem.</td>
<td>Notify system administrator if the problem persists.</td>
</tr>
</tbody>
</table>

Flexible Feature Codes

Use the Table 11 to track and organize the FFCs assigned to features by your system administrator.

Table 11: Flexible Feature Codes (Part 1 of 3)

<table>
<thead>
<tr>
<th>FFC</th>
<th>Feature</th>
<th>FFC</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Wake-Up Activate</td>
<td>Make Set Busy Activate</td>
<td>Automatic Wake-Up Deactivate</td>
<td>Make Set Busy Deactivate</td>
</tr>
</tbody>
</table>
### Table 11: Flexible Feature Codes (Part 2 of 3)

<table>
<thead>
<tr>
<th>FFC</th>
<th>Feature</th>
<th>FFC</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Automatic Wake-Up Verify</td>
<td></td>
<td>Malicious Call Trace</td>
</tr>
<tr>
<td></td>
<td>Call Detail Recording Charge Account</td>
<td></td>
<td>Override</td>
</tr>
<tr>
<td></td>
<td>Call Forward All Calls Activate</td>
<td></td>
<td>Pickup Ringing Number</td>
</tr>
<tr>
<td></td>
<td>Call Forward All Calls Deactivate</td>
<td></td>
<td>Pickup Directory Number</td>
</tr>
<tr>
<td></td>
<td>Call Park</td>
<td></td>
<td>Pickup Group</td>
</tr>
<tr>
<td></td>
<td>Electronic Lock Activate</td>
<td></td>
<td>Radio Paging Access</td>
</tr>
<tr>
<td></td>
<td>Electronic Lock Deactivate</td>
<td></td>
<td>Radio Paging Answer</td>
</tr>
<tr>
<td></td>
<td>Group Call</td>
<td></td>
<td>Remote Call Forward Activate</td>
</tr>
<tr>
<td></td>
<td>Internal Call Forward Activate</td>
<td></td>
<td>Remote Call Forward Deactivate</td>
</tr>
<tr>
<td></td>
<td>Internal Call Forward Deactivate</td>
<td></td>
<td>RingAgain Activate</td>
</tr>
<tr>
<td></td>
<td>RingAgain Deactivate</td>
<td></td>
<td>Virtual Office Terminal Log Off</td>
</tr>
</tbody>
</table>
### Table 11: Flexible Feature Codes  (Part 3 of 3)

<table>
<thead>
<tr>
<th>FFC</th>
<th>Feature</th>
<th>FFC</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Station Control</td>
<td></td>
<td>Virtual Office Terminal Log On</td>
</tr>
<tr>
<td></td>
<td>Password Change</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
IP Phone 1200 LCD Expansion Module

This section provides information about the LCD Expansion Module (12-key self-labeling) supported by the IP Phone 1230.

The LCD Expansion Module is a hardware accessory that connects to the IP Phone 1230 and provides additional line appearances and feature keys.

Basic features

The LCD Expansion Module supports the following features:

- 12 user-defined feature keys
- wall or desk mountable
- a maximum of seven LCD Expansion Modules (12-key self-labeling) can be connected
Keys and descriptions

For the location of the keys and components on the LCD Expansion Module, see Figure 6 on page 157.

Figure 6: LCD Expansion Module (12-key self-labeling)
Table 12 on page 158 gives a description of the keys and components of the LCD Expansion Module.

**Table 12: LCD Expansion Module keys descriptions**

<table>
<thead>
<tr>
<th>Key or components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User-defined feature keys</td>
<td>The keys on the Expansion Modules are programmable, with LCD labels. The system administrator programs these keys as either memory, line, or intercom keys. A steadily lit icon beside a programmable line key indicates that the line is active. A flashing icon indicates the line is on hold or that the feature is being programmed. A steadily lit icon beside a feature key indicates that the feature is active. A flashing icon indicates that the feature is being programmed.</td>
</tr>
<tr>
<td>Display</td>
<td>The LCD display provides labels for the programmed keys and icons that show the feature state.</td>
</tr>
</tbody>
</table>

For information about connecting the Expansion Module, see the *Expansion Module for IP Phone 1200 Series Quick Installation Guide* (NN40050-303).
Terms you should know

Calling Party Name Display

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)

Cable and associated connecting hardware capable of transmitting at speeds up to 100 MHz, used by 10BaseT, 100BaseT4, 100BaseTX.

Category 5e (Cat5e)

Most Cat5 cable manufactured after 1996 also supports 1000BaseT (GigE) installations, and is designated Cat 5e. Cat5e cable normally has four pairs of copper wire.

Category 6 (Cat6)

Cable and associated connecting hardware capable of transmitting at speeds up to 200 MHz. Designed specifically to support 1000BaseT (GigE), it is also compatible with 10BaseT, 100BaseT4, and 100BaseTX installations. The cable normally has four pairs of copper wire.

Communication Server 1000

Your office communication system.

Date/time display

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

Directory Number (DN)

A number consisting of one to seven digits for an IP Phone, and also known as an extension number.
Feature display
An area that shows status information about the feature in use. It also displays the name and status of the active session.

Feature Status Lamp indicator
An LCD or an LED that indicates a data message, contact, or feature status by a flash, wink, steady on, or off.

Fixed key
The hard-labeled keys on your IP Phone.

Flexible Feature Codes (FFCs)
Specialized codes entered using the dialpad that enable features (for example, Ring Again).

Goodbye key
A fixed key used to end an active call.

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

Information display
Any display of call activity, lists, prompts, and status of calls. If the text message exceeds the available display area, a scroll arrow icon indicates that you must use the scroll keys to view the remaining text.

Interrupted dial tone
A broken or pulsed dial tone that sounds when you access some features on your IP Phone.

Message/Inbox
A fixed key on your IP Phone that connects to your voice messaging system when the key is pressed.
Navigation keys

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 user lifts up the handset, (b) the user presses a line key, (c) the call is automatically answered at the IP Phone, or (d) a line is automatically selected for an outgoing call.

Paging tone

A special tone (two beeps followed by dial tone) that sounds when you use the Radio Paging feature.

Ringback/ring tone

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

Services key

A fixed key used to access options such as Telephone Options, Password Admin, 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.

Special Prefix code (SPRE)

Special codes entered using the dialpad, followed by a two-digit access code, that enable features (for example, Call Forward All Calls requires entry of SPRE code + 74).

Soft keys

A set of keys programmed by your system administrator. These four keys, directly below the display area, have four
programmable layers. These keys are also used to configure parameters in the **Telephone Options** menu.

**Special dial tone**

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

**Station Control Password (SCPW)**

Enables security features on your IP Phone to prevent others from making calls from your IP Phone and to prevent access to protected features (for example, Remote Call Forward).

**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, and Ringer is OFF.

**System or Switch**

Your office communication system.

**Switchhook**

A button on which 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.

**Visual Alerter/Message Waiting indicator**

An LCD or an LED that flashes to indicate that a message is waiting or when the ringer is on.
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