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  Preventing certain calls from being made 209
  Making additional telephones ring 209
  Changing the lines used by outgoing calls 210
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Getting started with Norstar

Your Norstar digital key system has many powerful features that can be customized to keep up with changes in your workplace.

Using this guide

The person who is responsible for adding or moving telephones or making changes to the system is called the system coordinator. This guide is designed to give the system coordinator all the information he or she needs to carry out these kinds of jobs.

The first section contains step-by-step instructions about changing the time and date, deciding how many rings it takes before a call is forwarded, and other day-to-day programming. Once you understand these basic steps, you can move on to the many other features described in the second section of the guide, and refer to the first section only from time to time.

You can look at the contents page for an overview of the features that are available, or check the index for specific features or messages displayed on your telephone.

Emergency 911 Dialing

Emergency 911 Dialing is the capability to access a public emergency response system by dialing the digits 9 1 1.

Emergency 911 Dialing

State and local requirements for support of Emergency 911 Dialing service by Customer Premises Equipment vary. Consult your local telecommunications service provider regarding compliance with applicable laws and regulations.
Understanding programming

When your system is installed, your installer or customer service representative programs it to work with your telephone lines, with your private network, if you have one, and with optional equipment. They customize the system for your office. All programming is recorded in the *Modular ICS 7.0 Programming Record*.

You may want to further customize your system. For example, you can change how some features work, or adapt the system to changes in your office. Programming allows you to change settings that probably need to be updated regularly because of staff turnover or new business contacts. You can also assign features and program buttons on individual telephones.

There are four ways to customize and maintain your Norstar system:

- Initial programming is performed for you by your installer or customer service representative. It deals mostly with how the system interacts with lines, telephones, and other equipment.

- Your programming as a system coordinator changes how features work for the system, as needed. It requires a System Coordinator password.

- A Basic programming password is available to allow individuals other than the system coordinator to make changes without giving access to sensitive programming capabilities.

- Personal programming is available to anyone through the Feature button on their Norstar telephone. It allows individuals to change how their telephone works to suit themselves.
Before you start

Before you begin programming, plan what changes you want to make. Record the changes in the Norstar Programming Record so that you have the information at hand. For example, if you are going to program system speed dial numbers, fill out the page in the Norstar Programming Record so that you have all the numbers and codes handy once you start programming.

What you need to do programming

Programming is performed using a telephone that can show two lines of information on its display. Examples of telephones with two-line displays are shown on page 16.

You need a programming overlay to show which buttons to press when you are performing programming. See The programming overlay on page 19.

When you use a telephone for programming, it is taken out of service. This means it is unable to receive or make calls, and the call forward features do not work. Do not use the main reception telephone for programming because you may lose incoming calls.
Using Buttons

The two-line telephone you use for everyday calling can be used for changes and maintenance. Examples of telephones with two-line displays are shown in the illustration.

Digital phones used for programming and maintenance

![7316 Phone](image1.png)

![7316E Phone](image2.png)
The next illustration numbers the buttons that are used for both day-to-day communication and programming on the 7316E digital phone. The following table describes what each numbered area is used for.

### 7316E digital phone buttons

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Display</td>
<td>Shows instructions for everyday calling as well as for programming.</td>
</tr>
<tr>
<td>2 Display buttons</td>
<td>Have a variety of uses. The current use is shown on the display above each button.</td>
</tr>
<tr>
<td>3 Dialpad</td>
<td>Used for dialing numbers when you are making calls. For programming, the dialpad is also used for entering numbers and letters</td>
</tr>
<tr>
<td>4 Memory buttons</td>
<td>Dial a number or feature code stored on the button.</td>
</tr>
<tr>
<td>5 Feature button</td>
<td>Allows you to enter a feature code while using or programming the telephone.</td>
</tr>
<tr>
<td>6 Hold button</td>
<td>Puts an active call on hold.</td>
</tr>
<tr>
<td>7 Release button</td>
<td>Hangs up an active call or ends programming.</td>
</tr>
</tbody>
</table>
This guide uses the icons for 7316E digital phone buttons in feature code examples. Your telephone may have different labels, or the buttons may be in slightly different locations:

<table>
<thead>
<tr>
<th>Button description</th>
<th>7316 and 7316E Digital phones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature</td>
<td>![Feature Icon]</td>
</tr>
<tr>
<td>Hold</td>
<td>![Hold Icon]</td>
</tr>
<tr>
<td>Volume Control</td>
<td>![Volume Control Icon]</td>
</tr>
<tr>
<td>Release</td>
<td>![Release Icon]</td>
</tr>
</tbody>
</table>
Using the buttons under the display

The three display buttons are used both for telephone features and programming. What each button does depends on what the display shows. Some display instructions that you may see when making changes on the system include OK, CHANGE, or COPY. In this guide, display button instructions are underlined.

Display buttons

The programming overlay

When you begin programming, a group of buttons on the telephone become the buttons for moving through programming headings and settings. The programming overlay is a paper cutout that is included with the Programming record. It relabels the four buttons to name the actions you use during programming.
The diagram below shows how the headings are used to navigate the programming menus.

Press **Heading** to move up one level of the menu structure.

Press **Back** to move to the previous item on the same menu level.

Press **Show** to move to the next level under the current heading.

Press **Next** to move to the next item on the same menu level.
Programming buttons are active or inactive at different stages of programming. A button is active (meaning you can use that option), when the indicator next to it is lit (◆ or ◅).

### A map for using programming

The tables on the following three pages show the headings that display when you move through the display menu after pressing ◄ ◆ ◆ ◆ ◆ ◆ ◆ and entering the password (the default password is A D M I N or 2 3 6 4 6).

The default Basic password (B A S I C or 2 2 7 4 2) can be used with a limited number of feature codes, including ♦ ♦ T I M E and the codes for turning call services on and off. For more information, see *Using passwords* on page 217.

<table>
<thead>
<tr>
<th>Terminals&amp;Sets</th>
<th>Customize each telephone on the system. You can change where a call is forwarded, give a telephone a name, or allow certain features to be used at a telephone. You can change the button programming on any telephone on the system.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lines</td>
<td>Show the active lines. Coordinator can rename lines.</td>
</tr>
<tr>
<td>Services</td>
<td>Turn services on or off: Ringing service, Restriction service, and Routing Service.</td>
</tr>
<tr>
<td>Sys speed dial</td>
<td>Program up to 255 different telephone numbers so internal users can dial them with a three-digit code (001-255).</td>
</tr>
<tr>
<td>Passwords</td>
<td>Change or erase the password you use for programming, or the one you use for Call log.</td>
</tr>
<tr>
<td>Time&amp;Date</td>
<td>Change the time, date, or both.</td>
</tr>
<tr>
<td>System prgrmning</td>
<td>Access the headings that define Hunt Groups, Hospitality services. Enter the BusName, which displays on caller ID lines.</td>
</tr>
</tbody>
</table>
## System Coordinator user interface

<table>
<thead>
<tr>
<th>Terminals &amp; Sets</th>
<th>Show set</th>
<th>Capabilities</th>
<th>Fwd no answer</th>
<th>Fwd to</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fwd on busy</td>
<td>Fwd to</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DND on busy</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Handsfree</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>HF answer back</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pickup grp</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Page zone</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Paging</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D-Dial</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Priority call</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Hotline</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Intrn #</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Extrnl# ....</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Use prime line</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aux. ringer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Allow redirect</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Redirect ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATA settings</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATA ans timer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Msg Indicate</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Call 1-16</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td></td>
<td></td>
<td># of buttons</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B01 ... BXX</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CLR TEL#</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FEATR</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>KIM X or CAP X</td>
<td></td>
</tr>
<tr>
<td>User preferences</td>
<td></td>
<td></td>
<td># of speed dialers</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spd # 255-279</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No one answered</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unanswered by me</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Log all calls</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No autologging</td>
<td></td>
</tr>
<tr>
<td>Call log opt'ns</td>
<td></td>
<td></td>
<td>Standard dial</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pre-dial</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Automatic dial</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td></td>
<td></td>
<td>Dflt: Handsfree</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Headset</td>
<td></td>
</tr>
<tr>
<td>Display cntrst</td>
<td></td>
<td></td>
<td>Set restrictions</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Set lock (Partial, Full, None)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Allow last no</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Allow saved no</td>
<td></td>
</tr>
<tr>
<td>Restrictions</td>
<td></td>
<td></td>
<td>Allow link</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1st Display</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Called ID</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Call log set</td>
<td></td>
</tr>
</tbody>
</table>
Note: Some headings will only show if required by the selected options for the previous heading.

<table>
<thead>
<tr>
<th>Lines</th>
<th>Show lines</th>
<th>Name</th>
<th>Lines</th>
<th>Show lines</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Services</td>
<td>Ringing service</td>
<td>Sched: Night Evening Lunch Sched 4 Sched 5 Sched 6</td>
<td>Off, Manual, Auto</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restn services</td>
<td>Sched: Night Evening Lunch Sched 4 Sched 5 Sched 6</td>
<td>Off, Manual, Auto</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Routing service</td>
<td>Sched: Night Evening Lunch Sched 4 Sched 5 Sched 6</td>
<td>Off, Manual, Auto</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sys speed dial (001-255)</td>
<td>Speed dial # Enter digits or press LIST</td>
<td>add/change tel #</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passwords</td>
<td>Call Log pswds</td>
<td>Sys admin: 23646</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Progrming pswds</td>
<td>Basic: 22742</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reg. pswd (MICS-IX, only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hospitality</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SM pswd: 745368</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time&amp;Date</td>
<td>Hour</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Minutes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Year</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Month</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Day</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Starting and ending a session

As system coordinator the first steps in making any change to the Norstar system are always the same.

Press \( \odot \).

Press \( \# \circ \odot \odot \odot \circ \) C O N F I G . This is the same as pressing \( \# \circ \odot \odot \odot \odot \odot \odot \) 2 6 6 3 4 4 .

Press A D M I N . This is the same as pressing 2 3 6 4 6 . Press RETRY to re-enter the password if you enter an incorrect character.

The display shows the first of the seven headings available for administration programming.

A D M I N is the password, unless the password has been changed. Check the Programming Record for the most recent password.
**Ending a session**

Press \(\text{CTRL}\) to end the session.

After a few seconds, the time and date reappears on the display.

The system makes any changes you indicated in programming as soon as you move away from a setting, either by using the navigation buttons or by pressing \(\text{CTRL}\).

You can see if the changes you made to telephone programming have taken effect by pressing the **UPDATE** display key. The display shows you how many telephones have not been updated.

Press **DIAL** to see the specific extensions where programming changes have not taken effect yet. Items disappear from the list as they are updated.

Record any changes you make in the *Modular ICS 7.0 Programming Record*. If there is a problem with the system, the installer needs to see a history of the changes you have made.

Remember to inform people in your office of any changes you have made that affect them. For example, you may change system speed dial codes or change the number of rings before an unanswered telephone is forwarded.
Frequently used programming operations

The following sections highlight the most frequently used programming operations. To consult these or other programming operations, see either the Table of Contents or the Index.

Changing the display time & date

Jan 1 12:00pm

Press \( \text{è} \).

Feature: Press \( \text{@} \) 8 4 6 3 (which is the same as \( \text{@} \) TIME).

Password: Press 2 2 7 4 2 (B A S I C) or 2 3 6 4 6 (A D M I N).

The passwords can be changed. See Using passwords on page 217 for more information.

Entering letters and numbers using the dialpad

first press second press third press fourth press
In this example, you are changing the time to 1:30 p.m.

Press **CHANGE**

Press the dialpad buttons to enter the hour. Use two digits for all hours. The clock on the display shows either one or two digits.

The display prompts you to choose a.m. or p.m. Press **CHANGE** and **OK** to select p.m.

Press **NEXT**

Press **CHANGE**

Press the dialpad buttons to enter the minutes.

If you are only changing the time and not the date, press **end** to end your session.

In this example, you are changing the date to July 15, 1998.

Press **NEXT**

Press **CHANGE**

Press the dialpad buttons to enter the year.

Press **NEXT**

Press **CHANGE**

Press the dialpad buttons to enter the month.

Use numbers for the months: 01 is January; 12 is December.
The clock controls the schedules used for services such as ringing and routing services.

After a power failure, the clock is behind by the length of time power was lost. For example, if the power is out for two minutes, the clock is two minutes behind.

Adding or changing a system speed dial

You program a speed dial on your Norstar so that anyone in your office can dial a frequently used number using a three-digit code (001-255).

To change a speed dial that already exists, follow the same steps. The new programming overwrites the previous number and settings.

Begin the programming session

Press CHANGE.

Press the dialpad buttons to enter the day.

Press ▲ to end your session.

The clock controls the schedules used for services such as ringing and routing services.

After a power failure, the clock is behind by the length of time power was lost. For example, if the power is out for two minutes, the clock is two minutes behind.

Adding or changing a system speed dial

You program a speed dial on your Norstar so that anyone in your office can dial a frequently used number using a three-digit code (001-255).

To change a speed dial that already exists, follow the same steps. The new programming overwrites the previous number and settings.

Begin the programming session

Press 6.

Press * * 2 6 6 3 4 4.

Press 2 3 6 4 6.

Press ▲ to end your session.
**Choose a speed dial code**

Press \[\text{Next}\] three times.

Press \[\text{Show}\].

Press \(0 \ 0 \ 1\).

You can pick any system speed dial code between 001 and 255.

Press \[\text{Show}\].

**Add or change the telephone number**

Press \[\text{CHANGE}\].

Use the dialpad to program the telephone number that you want to add. The telephone number can be up to 24 digits long.

Your display shows the telephone number, which is represented by the row of n-characters shown here. Press \[\text{OK}\].

**Select a line for the speed dial code**

Press \[\text{Next}\].

Press \[\text{CHANGE}\] to see your options: Use prime line, a specific line (for example Use line: 01), a line pool (for example Pool code: 71), or Use routing tbl.

Stop pressing \[\text{CHANGE}\] when the display shows the prime line again.

In this example, the system selects the prime line automatically to dial speed dial code 001. This is the most common choice.

If you assign a specific line to a system speed dial number, only telephones with an appearance of that line can use the speed dial number.
Choose what shows up on the display

Use prime line

CHANGE

Press \( \text{Next} \).

Display digits: Y

CHANGE

Your choices are Yes and No. Yes means the display shows the telephone number.

Press \( \text{CHANGE} \).

Display digits: N

CHANGE

No means the display shows a name for the code.

Program a name for a speed dial

The system has a standard name to display, so it is not necessary for you to program one. However, if you have chosen not to display the telephone number, you may want a specific name.

**Alpha tagging feature:** This feature offers name display for calls coming in over lines that offer number-only display services.

If you specify a name for a speed dial, and that person calls in on an external line, the speed dial name you specify acts as the name display for the call if the call number matches the number in the speed dial list. If the telephone has also been configured to display Caller ID (Caller ID set) with the name of a caller first (1st display), then the name you program for the speed dial code is the name that displays.

For example: If you create a speed dial for the courier company you use, and assign the name Courier with the following process, when that company calls you, Courier would appear on the display for the call.

Press \( \text{Next} \).

Press \( \Rightarrow \).

This is the name the display shows if you do not change it. Press \( \text{CHANGE} \).

Press \( \Rightarrow \).

Press \( \Rightarrow \).
Changing the name of a telephone

Begin the programming session

Jan 1  12:00pm
Press ❌.

Feature:
Press * 2 6 6 3 4 4.

Password:
Press 2 8 6 4 6.

Change the name of a telephone

Terminals&Sets▼
Press Show.

Show set:___
Enter the internal number (DN) of the telephone or voice mail extension. In this example, the DN is 221.

If the set has already been given a name, it appears after DN: on the display.

Name:221
Press Show then Next.

This is the name the display shows if you do not change it. Press CHANGE.
Decide what name you want to give to the telephone number.

Name:___ --> Press the numeric dialpad button that has the first letter of the name until the display shows the letter you want.

Name:J BKSP --> Press -->.

Name:J___ <-- BKSP --> Use the dialpad and --> until you have the entire name.

Name:JEAN B <-- BKSP --> Press Next to use the name you have entered.

The name can be up to seven characters long, including spaces.

Name:JEAN B CLR CHANGE Press → to end your session.

You can press Heading once to continue programming this telephone, or press Heading twice to return to the Terminals&Sets heading.

End of session

#### Changing the name of a line

**Begin the programming session**

Jan 1 12:00pm Press 0.

Feature: Press * * 2 6 6 3 4 4.

Password: Press 2 3 6 4 6.

**Change the name of a line**

Terminals&Sets Press Next.

Lines Press Show.
Enter the three-digit number of the line you want to name. In this example, the line is 002.

This is the name the display shows if you don’t change it.

Decide what name you want to give to the line.

The name can be up to seven characters long, including spaces.

You can press once to continue programming this line, or press twice to return to the Lines heading.

End of session
Making changes to Call Forward No Answer

Begin the programming session

Press \[\text{[0]}\].

Press \[\text{*[266]}\].

Press \[\text{[286]}\].

Press \[\text{[225]}\]. Enter the internal number (DN) of the telephone or voice mail extension. In this example the DN is 225.

If the set has been given a name, it appears on the display.

Press \[\text{[225]}\].

Press \[\text{[225]}\].

Press \[\text{[FIND]}\].

Press \[\text{[Show]}\].

Press \[\text{[Show]}\].

Press \[\text{[Show]}\].

Press \[\text{[CHANGE]}\] and enter the internal number where you want the calls to be sent. In this example the internal number is 221.

You can press \[\text{CLR}\] to change the destination back to \text{None}. 
Change the number of times the telephone rings before it is forwarded

| Fwd to:221 | Press Next. |
| CLR | CHANGE |
| Forward delay:4 | Use the CHANGE button to choose the number of times the telephone rings before it is forwarded. |
| CHANGE |

Your choices are 2, 3, 4, 6 and 10 rings.

| Forward delay:3 | Press ↪ to end your session. |
| CHANGE |

You can press Heading to continue programming capabilities for this telephone, or press Heading four times to return to the Terminals and Sets heading.

End of session

**Tip** - If the Norstar set is a member of a Hunt Group, the Call Forward no answer feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information about Hunt Groups, see Programming Hunt Groups on page 165.
Making changes to Call Forward on Busy

Begin the programming session

Press 0.

Press * 2 6 6 3 4 4.

Press 2 3 6 4 6.

Enter the internal number, which gets assigned as the intercom number, of the telephone extension. In this example, the intercom number is 225.

If the set has been given a name, it appears on the display.

Press Show.

Enter the internal number where you want the calls to be sent. In this example, the internal number is 221.

Press CHANGE and enter the internal number where you want the calls to be sent. In this example, the internal number is 221.

You can press CLR to change the destination back to None.

Press 2 2 1.

Press to end your session.
You can press [Next] to continue programming capabilities for this telephone, or press [Heading] three times to return to the Terminals and Sets heading.

End of session

Tip - If the Norstar set is a member of a Hunt Group, the Call Forward on busy feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

Making Changes to Do Not Disturb on Busy

When you are on a call and a second call comes in, your telephone rings softly to alert you to the second call. You can turn this feature on or off for each telephone.

Begin the programming session

Jan 1  12:00pm          Press [6].

Change Do Not Disturb on Busy

Press [Show].

Show set:__ LIST

Enter the internal number of the telephone extension. This becomes the number for the intercom button. In this example, number is 225.

If the set has been given a name, it appears on the display.
Frequently used programming operations

Some of the most common programming tasks are listed below. For a comprehensive list of settings and instructions, see either the Table of Contents on page 3 or the Index on page 271.

- Redirect calls coming in on a line. See Turning on Line Redirection on page 117.
- Allow individuals to answer calls that are ringing at another telephone. See Picking up a call ringing at another telephone on page 56.
- Assign telephones to different zones for paging. See Paging on page 123.
- Turn the night service on and off. See Making additional telephones ring on page 209.
- Use a Basic password so others can take care of programming such as changing user speed dials, changing names, and changing the time and date. See Using passwords on page 217.

End of session

For more information about Call Forward and similar settings, see Forwarding your calls within the system on page 111.
Answering calls

Answering calls in Hunt Groups

Your Norstar system now allows you to establish Hunt Groups in your system. Hunt Groups are a group of Norstar set DNs that can be called by a single directory number. The Hunt Groups feature ensures calls are easily routed to the appropriate people. You can program:

- the members for a Hunt Group
- member position within a Hunt Group
- how calls are distributed
- how long a call spends looking for available members
- what happens if all members are busy

For more information about Hunt Groups see Programming Hunt Groups on page 165.

Answering an incoming call

There are three indications of an incoming call: ringing, a line button flashing, and a message on the display. You do not necessarily receive all three indications for any particular call. For example, you may have a line that has been set up not to ring at your telephone. If so, you see only a flashing line button. There are many possible combinations, depending on how your system is set up. See Choosing a line using a line button on page 77 for more information on the use of lines.

If you receive a priority call and your telephone has no free internal line buttons, you cannot transfer the priority call, you must accept or release it.
Line buttons

One line button for each line is assigned to your telephone. Press the line button to select the line you want to answer or use to make a call. Having several line buttons gives you immediate access to more than one line.

The 7000 and 7100 digital telephones, analog telephones, and Digital Mobility phones have two assigned intercom paths which are used instead of line buttons to answer and make calls. Each set can be assigned two lines. You can press ➔ to switch between two calls, one active and one on hold.

Note: - On the Digital Mobility phone, the R (Recall) key provides the same function as the Hold key on the digital phones.

What line indicators mean

▶ Flashing on and off for equal lengths of time
  There is an incoming call on the line

▶ Flashing on and off more quickly
  You have placed a call on hold

▶ Flashing on for longer than off
  Someone else has put a call on hold on that line

▶ On, not flashing
  You are connected to the call on that line or the line is in use elsewhere

Off
  The line is free
The **7316E digital phones** display a set of icons in place of flashing arrows when it is connected to a system with version 6.1 or newer software. If you connect a 7316E digital phone to a system that is running version 6.0 or previous versions, the standard line indicators display.

The **KIM** also displays some of these icons. Note that this piece of hardware is only supported by version 6.1 and newer software.

- **Active call**: The line is active and/or you are connected to this telephone.
- **Ringing**: A call is coming into this line.
- **Hold**: The call on this line is on Hold at this telephone.
- **Call forward**: The call on this line has been forwarded.
- **Active button**: The feature assigned to this button is active.

**Flash rate indicators for 7316E digital phone and KIM icons**

- **On, not flashing**: You are connected to the call on that line or the line is in use elsewhere or the service indicated is active.
- **Off**: The line is free.
- **Flashing on and off for equal lengths of time**: Existing alert rate.
- **Flashing on and off more quickly (twinkle)**: I-hold.
- **Flashing on for longer than off (blink)**: U-hold.

**Rings you may hear**

- **A double beep every 10 seconds**: A call has been camped to your telephone.
- **A long single ring**: There is an external call on the line for you.
- **A shorter double ring**: There is an internal call on the line for you or a call is being transferred to you.
Sorting calls by distinctive ring patterns

When lines, telephones and Hunt groups are configured on your system, they can be assigned one of four distinctive ring patterns (DRP). The default for all telephones is 1 and the default for lines and Hunt groups is **None**, which is the lowest priority. The highest priority is 4.

**Call ringing:** When multiple calls are presented to the telephone, the call with the highest priority DRP setting will be the call that rings at the telephone.

**Call answering:** When multiple calls are presented to a telephone, and the user picks up the handset, the call with the highest priority DRP setting is the call that is presented.

**Note:** External calls always have a higher priority than internal calls.

**Note:** If the ring type is changed on a telephone after the DRPs are set on the line, the line DRPs are overwritten by the telephone settings. If the DRPs are set for a line after telephone programming, then the telephone ring programming is overridden by the line DRP program. Refer to the *Modular ICS 7.0 Installation Guide* for information about setting distinctive ring for lines. If the call is to a Hunt group, and the Hunt group DRP is higher than the line DRP, the Hunt group DRP will take precedence within the Hunt group. Refer to *Assigning a distinctive ring pattern to a Hunt Group* on page 175.

<table>
<thead>
<tr>
<th>Ring Pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A brief single ring</td>
<td>A call is being redirected on one of your redirected lines. You cannot answer this call.</td>
</tr>
<tr>
<td>Three beeps descending in tone</td>
<td>You are receiving a priority call.</td>
</tr>
</tbody>
</table>
Answering calls at a prime telephone

Each line in a Norstar system can be assigned a prime telephone. Calls not answered at their normal destinations are transferred to the prime telephone. The prime telephone is usually the attendant’s telephone. The installer or customer service representative programs a prime telephone for a line.

Displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DND from 221</td>
<td>The person at telephone 221 has forwarded a call to you using Do Not Disturb.</td>
</tr>
<tr>
<td>DND transfer</td>
<td>The system has transferred a call to you from a telephone with Do Not Disturb turned on.</td>
</tr>
<tr>
<td>DRT Line001</td>
<td>Nobody answered this call so the system transferred it to you.</td>
</tr>
<tr>
<td>Line001 callback</td>
<td>Someone has camped, parked or transferred a call on line 001, but no one has answered it. Press <strong>CALLBACK</strong> or the line button to connect to the call.</td>
</tr>
<tr>
<td>Line001 to prime</td>
<td>There is no telephone that can receive a call on line 001 so the system has transferred it to you.</td>
</tr>
<tr>
<td>Line002&gt;Line157</td>
<td>The call coming in on line 002 was intended for target line 157. Line 157 is busy, so the call has come to you.</td>
</tr>
</tbody>
</table>

For other displays, see *Common feature displays* on page 249.
Expanding telephone capacity

You can add additional memory buttons to 7316E digital phones connected to KIMs (T24 key indicator modules). If you add the modules without identifying them as enhanced central answering positions (eCAPs) in programming, the user can program the module buttons as an expanded memory button set.

However, if you want to designate one or more users to be central answering positions for your system, you can program the CAPS as eCAPS. Enhanced CAPS support line appearances, multiple target line appearances and Hunt group designators. You can have five eCAPs on a Norstar Modular system. It is best if one of the eCAPs is the prime telephone and direct-dial telephone for the lines and telephones it serves.

Features for eCAPs are briefly described in this section. For details about configuring the KIM as an eKIM, refer to the Modular ICS 7.0 Installer Guide.

Using a 7316E+KIM as a central answering position

When you deploy a 7316E+KIM digital phone it can be configured as an eCAP by your installer. In this configuration, the KIM is referred to as an eKIM and each module supports line appearances, multiple appearances of target lines, and hunt group designators, as well as memory button programming. You can connect up to four eKIMs to a 7316.

If you do not need lines or hunt group appearances on the KIMs, there is no requirement for any system configuration. This configuration of the KIM is called an ordinary KIM (OKIM) and you can install up to nine modules on a 7316.
On all KIMs, at each telephone you can use the memory programming feature to:

- provide feature access (Refer to Programming a feature code onto a memory button on page 147)
- provide access to line pools (Refer to Programming a memory button with a line pool on page 79)
- provide one-press external autodial (Refer to Storing a number on a memory button for Autodial on page 87)
- configure system-wide call appearances (SWCA) by assigning SWCA feature codes
Cold starting the KIM

If your KIM fails, or if you want to erase programming on the KIM, there are two types of cold starts.

**TIPs -** If you are cold starting an eKIM that has line or Hunt group assignments, the cold start will erase current programming, and insert the line appearances, starting with the top, left button. After all the line appearances are assigned to lines, the system adds target line or Hunt Group appearances. If any buttons are left, the system will populate the buttons with autodialer assignments.

*Use \( \text{Button} \) to view button assignments after a cold start.*

For both types of cold starts:

1. Unplug and replug the 7316E line cable.

   The telephone will restart and all the icons will flash. When the telephone icons stop flashing, the KIM module icons start flashing.

2. At this point, do one of the following:
   - **KIM single-module cold start**

   If you just want to cold start an individual module, on that module, simultaneously press the two top and two bottom buttons on the lower button set, as shown in the following diagram. The KIM displays a random pattern of icons as the KIM resets.
- **KIM multi-module cold start**
  If you want to cold start all the KIMs attached to your telephone, simultaneously press the top two buttons on the upper button set, and the bottom two buttons on the lower button set, as shown in the following diagram.

![Diagram showing KIM multi-module cold start](image)

**Customizing your eKIM**

You can move external lines, target lines or hunt group appearances onto the eKIM by using \textcode{9 8 1}. See *Moving line buttons* on page 156.

Any of the buttons on the eKIM that do not have line assignments can be programmed to dial internal or external numbers automatically. You also still can program features directly onto eKIM and OKIM buttons. Refer to *Time savers for making calls* on page 87 and *Customizing your telephone* on page 145 for information about programming memory buttons.

**eKIM button programming for CAP**

Any lines and target lines assigned to the 7316E, which overflow to the eKIM, must be assigned by your installer. You can, however, use the Coordinator password to assign the telephone to the hunt groups for which you want to provide an appearance. Refer to *Programming Hunt Groups* on page 165 for information about programming hunt group appearances.
Designating features or autodial numbers to the eKIM buttons, can be programmed using the **Button Program**ing, which is found under **User Preferences** under **Terminals&Sets**.

1. Place the programming overlay over the appropriate buttons on your two-line-display telephone.

2. Press \( \text{[} \text{[} \text{[} 6 \text{] [3] [6] [4] [6]} \text{]} \text{[} \text{[} \text{[} 2 \text{] [6] [6] [3] [4] [4]} \text{]} \).

3. Press \( \text{[} \text{[} \text{[} 2 \text{] [3] [6] [4] [6]} \text{]} \text{[} \text{[} \text{[} \text{[} \text{[} 6 \text{]} \text{]} \text{]} \text{]} \) (the default System Coordinator password). **Terminals&Sets** displays.

4. Press **Show**. **Show set:** displays.

5. Enter the DN number of the 7316E which is attached to the eKIM you want to program, then press **OK**.

6. Press **Show**. **Capabilities** displays.

7. Press **Next** two times until the display shows **User Preferences**.

8. Press **Show**. **Model** displays (7316E+<n>KIM).

9. Press **Next**. **Button Programming** displays.

10. Press the **KIM** softkey for the KIM for which you want to program buttons.

    **TIP** - *If no KIM softkeys appear, it means the telephone was not configured as a CAP under CAP/KIM assign in System Programming.*

11. Press **Next** until you find the button you want to program.

12. Press **TEL#** to enter an autodial number, or press **FEATR** to enter a feature code and feature programming. To make the button blank, press **CLR**.
Monitoring telephones from the KIM

The indicator icons beside the buttons on your KIM show the status of system telephones or lines assigned to the eKIM. Refer to What line indicators mean on page 42 for a description of the 7316E and KIM icons.

Release button

Pressing ends a call. You do not have to put the receiver down. also ends feature programming.

While you are on a call, do not press to end a feature you are using. If you do, you disconnect the call. Use instead.

Hearing aid compatibility

The receivers on all system digital phones are compatible with hearing aids as defined in the FCC rules, Part 68, section 68.316. Not all hearing aids are optimized for use with a telephone.

Viewing information about a call on the display

If you subscribe to Call Display services from your local telephone company, one line of information about an external caller is displayed after you answer. Depending on the setting, and the external information available, either the caller’s name or telephone number is displayed.

When you transfer an external call to another Norstar user, this information is displayed on the target telephone.
Call Display information becomes available between the first and second ring of an incoming call. If you answer before the Call Display information is available on your display, and you press \[\text{[8][1][1]}\], you see only the line number or line name.

To use logging features with Call Display, see Using Call Log on page 137.

**Using Call Information for a particular call**

\[\text{[8][1][1]}\]

Call Information allows you to see information about incoming calls. This information is more detailed than the Call Display information you can receive automatically. For external calls, you can display the name of the called-party telephone, telephone number, and the line name. For an internal call, you can display the name of the called-party telephone and the internal number of that telephone. You can see information for ringing, answered, or held calls.

Call Information is available for calls even if they have been transferred, forwarded or rerouted in some way.

Names and numbers for external calls are displayed only if you have subscribed to Call Display services from your telephone company.

**Tip** - Call Log displays the same information as Call Information, along with the date and time of the call, and the number of times the caller called.

Once you answer a call, new calls coming in on lines configured with CLID to telephones with CLID allowed, present the prompt: \text{LineXXX Calling} for two rings, and then the CLID of the caller will display for three seconds (XXX).
If the call is being forwarded, the CLID will also display the number from which the call was forwarded (XXXXX>YYY).

This transient prompt will disappear if you press a programmed feature button, external autodialer, answer DN button, line button, intercom button, any dialpad button, or handsfree button. As well, an incoming Priority call or Voice call will clear the display and display the information for the Priority or Voice call.

**Displaying Call Information before or after answering**

To find out who is calling or to display information about your current call:

1. Press  
2. Press  or  to display more information about an external call.

Call Display information becomes available between the first and second ring of an incoming call. If you answer before the Call Display information is available on your display, and you press  , you see only the line number or line name.

**Displaying Call Information for a call on hold**

1. Press  . The display reads  Select a call.
2. Select the line on hold. Information about the call is displayed.
3. Press  or  to display more information about an external call.
Tip - If your telephone automatically displays Call Display information for a call, you still need to press \[\text{(0 8 1 1)}\] before you can press \(\#\) or \(\text{VIEW}\) to display more information about the call.

Making Call Display information appear automatically

Each telephone that rings for an external line can display Call Display information for that line. After the call is answered, Call Display information is always shown at the telephone that answered the call. Your installer or customer service representative can program telephones to have automatic Call Display.

This feature is not available to ISDN terminals.
Changing which information is shown first about a call

Depending on the services you subscribe to, Call Display information may contain up to three parts:

- the name of the caller
- the number of the caller
- the name of the line in your system that the call is on.

For each telephone, you can determine which information is displayed first.

1. Place the programming overlay over the appropriate buttons on your two-line-display telephone.
2. Press \[\text{\# \# \#} \text{2 6 6 3 4 4}\].
3. Press \[\text{2 3 6 4 6}\] (the default System Coordinator password).
4. Press \[\text{Show}\] and enter the internal number of the telephone you want to program.
5. Press \[\text{Show}\].
6. Press \[\text{Next}\] four times.
7. Press \[\text{Show}\].
8. Choose a setting at \text{1stDisplay:} using the \text{CHANGE} button. The choices are \text{Name}, \text{Numbr} or \text{Line}.

You may see \text{Unknown name} or \text{Unknown number} on the display if the information is not available from your telephone company. You may see \text{Private name} or \text{Private number} on the display if the caller blocks that information.
Picking up a call ringing at another telephone

You can pick up a call ringing at another telephone by using Directed Pickup or Group Pickup.

Answering ringing telephones using Directed Pickup

You can answer any telephone that is ringing in your Norstar system, except private lines.

1. Press 76.
2. Enter the internal number of the ringing telephone.

To use Call Pickup (Directed Pickup), the telephone must be ringing. If, for example, the auxiliary ringer is ringing, but the call is not ringing at a telephone, the call cannot be answered using Directed Pickup. It must be answered normally at a telephone that has a flashing indicator for the call, or by using Trunk Answer. You can answer a call that is ringing because someone has transferred the call to a telephone and the call is ringing on an intercom button.

Tip - Directed pickup can retrieve calls that are ringing on an Answer DN. While you may enter the internal number of the telephone you hear ringing, it may be calls from another telephone you are answering.
Answering any ringing telephone using Group Pickup

Your Norstar system can be divided into nine pickup groups. If you are a member of a pickup group, you can pick up a call that is ringing at any telephone in your pickup group.

1. Press \[ \text{\text{Group Pickup}} \] \[7\][5].

Group Pickup cannot be used to retrieve a camped call.

If there is more than one incoming call at a telephone in a pickup group, a call ringing on an external line is answered first, followed by calls on the prime line and, finally, calls on internal lines.

**Tip** - *A Hunt Group call ringing at a Norstar set DN that is also a member of a call pickup group can be picked up by any Norstar set in that call pickup group. For more information about Hunt Groups, see Programming Hunt Groups on page 165.*

---

**Privacy issue**

Target lines can be designated as Private (default is Public), however, such features as Call Pickup can still answer these lines at remote telephones. Only physical, analog lines set to Private are blocked from Call Pickup.
Changing a telephone pickup group

Telephones can be put into and taken out of pickup groups.

1. Place the programming overlay over the appropriate buttons on your two-line-display telephone.

2. Press \texttt{\textasciicircum\#\#\#266344}.

3. Press \texttt{23646} (the default System Coordinator password).

4. Press \texttt{Show} and enter the internal number of the telephone you want to program.

5. Press \texttt{Show} twice.

6. Press \texttt{Next} five times.

7. Press \texttt{CHANGE} at \texttt{Pickup grp}: to assign the telephone to pickup group (1-9) or remove it from a pickup group (\texttt{None}).

Displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{Already joined}</td>
<td>You are already connected to the telephone that made the call you are trying to pick up. This can happen if you are on a call to a co-worker and your co-worker dials the number of a telephone in your pickup group, and you attempt to pick up that call.</td>
</tr>
<tr>
<td>\texttt{Pickup denied}</td>
<td>There is no call that you can pick up or the ringing call was answered. You have tried to pick up a call on someone else’s private line.</td>
</tr>
<tr>
<td>\texttt{Pickup:}</td>
<td>Enter the internal number of the telephone that is ringing. (You may use an internal autodial button to do this.) If you decide not to answer a ringing call after activating Directed Pickup, press \texttt{#}.</td>
</tr>
</tbody>
</table>
**Trunk Answer**

The Trunk Answer feature allows you to answer a ringing call anywhere in the system from any telephone in the system. The line you are answering does not have to appear or ring at the telephone you are using.

Trunk Answer works only with calls that are ringing on lines for which a Ringing Service schedule is active and if Trunk Answer is enabled by your installer or customer service representative.

**Answering a call using Trunk Answer**

Press 800.

**Tip** - If there is more than one incoming call on lines in a Ringing Service, the Trunk Answer feature picks up the external call that has been ringing the longest.

**Displays**

<table>
<thead>
<tr>
<th>Line denied</th>
<th>You have tried to pick up a call on someone else’s private line.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pickup denied</td>
<td>The call that is ringing is on a line that is not in a Ringing Service.</td>
</tr>
</tbody>
</table>
Answer DNs and Answer keys

If you have Answer DNs assigned to memory buttons with displays, you can use an Answer DN button to monitor calls on another telephone. The calls that come to the monitored telephone that provide an appearance on the Answer DN button are determined by the system-wide Anskey setting.

Answer DN buttons are useful for attendants who monitor incoming calls for one or several other people. For example, a secretary may have appearances for three different bosses on her answer buttons. Once a call for boss A is answered by the secretary, the appearance stops at that set. This allows for another (simultaneous) call to come in on the same line. The same is true for boss B and boss C. When incoming call traffic becomes high, the calls can then be routed to a Hunt Group to optimize call handling. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

Systems running MICS 7.0 and newer software can also use an Answer DN to autodial the telephone. The Answer DN must be idle (no indicator) for this feature to work. This feature does not prevent you from assigning a memory button as an autodial button for the same DN.

Digital Mobility phones and 7000 and 7100 digital phones can also have Answer DNs assigned. However, since these telephones do not have memory buttons with display keys, the Answer DN must be set to Ring Only. These telephones also only have two assigned intercom buttons. Therefore, a maximum of two Answer DNs can be answered and active at the same time.

Answer DNs are assigned under Terminals & Sets under Lines, Line Assign. This setting assigns the DN of another telephone to one of your telephone buttons.
Answer keys are assigned under System programming, Feature settings. This setting determines which calls will appear at the bottom. There are three levels: Basic, Enhanced, and Extended.

You need an Installer password to perform this programming. See the Modular ICS 7.0 Installer Guide for more information.

ISDN terminals cannot be assigned Answer DNs to monitor other telephones, but ISDN terminals can be monitored.

If more than one call is ringing at a telephone, the first call appears on the attendant Answer DN button. Any subsequent calls appear on intercom buttons, if they are available.

Tip - More than one attendant may have an Answer DN button for the same telephone. This allows two or more attendants to handle calls for a busy person.

Each telephone can handle calls for up to eight other people using a separate Answer DN button for each person.

Creating a Conference Call

You can talk to two people at once.

1. Make sure you have two calls, one active and one on hold.
2. Press 3 .
3. Press the appropriate button to retrieve the held call.

   This action occurs automatically on the 7000 and 7100 digital phones.

You can create a conference when you are on a call.

1. Make a second call.
2. Press 3 .
3. Press the button where the first call is on hold to create a conference.

Only the person who established the conference can process the conference by using the procedures described in this section.

**Tip -** You can create a conference by releasing privacy on a call. See Turning Privacy on or off for a call on page 72.

**Disconnecting one party**

You can disconnect one party from a conference and continue talking to the other.

You can activate this feature on all system digital phones except for 7000 or 7100 digital phones and Digital Mobility phones.

1. Press the line button of the call that you want to disconnect. The call that you want to keep is automatically put on hold.
2. Press the line button of the held call to speak to the remaining person.

On a 7000 or 7100 digital phone or a Digital Mobility phone:

1. Press the line button of the call that you want to disconnect. The call that you want to keep is automatically put on hold.
2. Press the line button of the held call to speak to the remaining person.
Independently holding two calls

For all telephones except the 7000 and 7100 digital phones and Digital Mobility phones, you can put the two people in a conference call on hold independently so that they cannot talk to each other.

1. Press the line button of one person. The other person is automatically put on hold.

2. Press ≥. The second person is put on hold.

You can re-establish the conference.

1. Take one call off hold.

2. Press ≥ 3.

3. Take the other call off hold.

Putting a conference on hold

You can put a conference on hold, allowing the other two people to continue speaking to each other by pressing ≥.

You can reconnect to the conference by pressing either of the held line buttons. For the 7000 and 7100 digital phones, press ≥. For Digital Mobility phones, press R.
Splitting a conference

You can talk with one person while the other person is on hold.

You can activate this feature on all Norstar and Business Series terminals except for 7000 and 7100 digital phones and Digital Mobility phones.

TIP - Refer to the Nortel Networks Digital Mobility Phone User Guide for details about the handset icons. On the Digital Mobility phone, the R (Recall) button performs the function of a Hold key.

1. Press the line button of the person you want to speak to. The other person is automatically put on hold.

On 7000 and 7100 digital phones and Digital Mobility phones:

1. Press ¹ # 3 . The first party is on hold.

2. Press , if necessary, to switch parties.

You can re-establish the conference.

1. Press ¹ 3 .

2. Take the held call off hold. This is not necessary for the 7000 and 7100 digital phones and Digital Mobility phones.
Removing yourself from a conference

You can remove yourself from a conference, and connect the other two callers through your Norstar system.

1. Enter the Transfer feature code 670.

When you remove yourself from a conference using the Transfer feature, and both callers are from outside your system, one of the callers must have called you on a disconnect supervised line, or the call is be disconnected.

Displays

3 parties only
You are trying to add a fourth party to your conference call, or to join two conferences together. Release one call from the conference before adding another, or keep the two conferences separate.

Conf. on hold
You have put a conference call on hold.

Conference busy
You have tried to make a conference call, but your system is already handling its maximum number of conference calls.

Line001 221
You are on a conference with the two lines or telephones shown. You can drop out of the conference and leave the other two parties connected (Unsupervised Conference) by pressing TRANSFER or by entering the Transfer feature code.

Press held line
You have activated the Conference feature with one call active and another on hold. Press the line button for the call on hold to bring that person into the conference.

For other displays, see Common feature displays on page 249.
Listening to a call as a group

To allow people in your office to listen in on a call using Group Listening, press 802.

You hear the voice of the caller through the speaker of your telephone. Continue to speak to the caller through the telephone receiver. The microphone of your set is off, so the caller does not hear people in your office.

Note: The 7000 and 7100 digital phones, analog phones, and the Digital Mobility phone do not support this feature.

Canceling Group Listening

Group Listening is canceled automatically when you hang up or when you press 802.

Tip - Keep the receiver away from the speaker, or you may hear feedback. The higher the volume, the more the feedback. Press 0 to prevent feedback when hanging up.

Using handsfree and mute

The ability to use handsfree must be turned on or off for each telephone. The type of handsfree can be changed. Refer to Changing handsfree for a telephone on page 70.

Handsfree must be set to Std or Auto in system programming for a telephone to be able to use a headset. This programming is performed by someone with the Installer password.

Note: Model 7000 and 7100 digital phones, analog telephones, and Digital Mobility phones do not support
handsfree or headsets, unless otherwise noted by the manufacturer. For these handsets, set Handsfree to None.

If the telephone is set to Auto, as the case for 7316E digital phones, the next incoming call defaults to the voice path used by the last call. For instance, if you answered your last call using the headset button, the next call will automatically default to the headset if you do not make any changes before answering the call. If you plug in a headset, the telephone will automatically switch the voice path to headset. This will not change the mute status of the call. You can also change the voice path by choosing either the handsfree or headset button.

7316E voice path features: The 7316E digital phone must be set to Auto to allow handsfree. On this telephone, the handsfree button is located under the dial pad, beside the mute and headset buttons.

Answering calls without lifting the receiver

1. Press the line button for the ringing call. This step is not necessary if you have a prime line assigned to your telephone.

2. Press the handsfree button. The internal microphone and speaker of the telephone automatically turn on.

Note: The 7316E digital phone has a handsfree button located below the dialpad. This button only works if the telephone is wired to a system running version 6.1 or newer software, and Handsfree is set to Auto.

Tip - Direct your voice toward the telephone. The closer you are to the telephone, the easier it is for the microphone to transmit your voice clearly to your listener.
Making calls without lifting the receiver

1. Press the handsfree button. If you do not have a prime line assigned to your telephone, press a line button. The internal microphone and speaker of the set are automatically turned on.

   **Note:** The 7316E digital phone has a handsfree button located below the dialpad. This button only works if the telephone is wired to a system running version 6.1 or newer software, and **Handsfree** is set to **Auto**.

2. Dial your call.

3. Speak normally.

Muting the set

1. Press the mute button to switch off the telephone microphone so that you can speak privately to someone in your office while you are on a handsfree call.

2. Press the mute button to turn the microphone back on again and continue your call.

   **Note:** The 7208, 7316 and 7316E digital phones have a mute button located below the dialpad. Other telephones have mute programmed as a handsfree/mute combination on the bottom memory button (right, column on telephones that have two rows of memory buttons). Refer to the user card for the telephones for specifics about using this button.
   The 7000 and 7100 digital phones do not have mute buttons.
   The Digital Mobility phone has a mute feature that is controlled by the handset firmware.
Changing a regular call to handsfree

1. Press the handsfree button.

**Note:** The 7316E digital phone has a handsfree button located below the dialpad. This button only works if the telephone is wired to a system running version 6.1 or newer software and Handsfree is set to Auto in programming.

2. Hang up the receiver.

Changing a handsfree to a regular call

Lift the receiver.

Using handsfree

On models with separate handsfree and mute buttons:

- The indicator next to the handsfree button is solid when you handsfree is active and off when the telephone is set to handset or headset.
- The indicator next to the mute button blinks when you mute the microphone and turns off when the microphone is open.

**Note:** Legacy telephones have only one button for both functions. In this case, when the telephone is on handsfree and the microphone is on, the light is solid. If the telephone is on handsfree and the microphone is off (mute), the light flashes.

Wait for your caller to finish speaking before you speak. The microphone and speaker cannot both be on at once. The voice of your caller may be cut off if you both speak at the same
time. Noises such as a tapping pencil could be loud enough to turn on your microphone and cut off the incoming sounds.

To prevent a possible echo, keep the area around your telephone free of paper and other objects that might screen your microphone. Turning down the microphone volume — press the left end of [– – – – – –] while speaking — prevents echoes. When you change the volume level, both the microphone and speaker volume are adjusted. This is needed in order to prevent feedback problems.

Place the telephone so that any unavoidable local noise, such as an air conditioner, is behind it. This limits the amount of disruptive background noise.

Tip - In open-concept environments, use the receiver when handsfree communication is not necessary or when you need privacy during a call. Another option is to use a headset.

Changing handsfree for a telephone

You can program the type of handsfree used with each telephone or activate handsfree answerback.

1. Place the programming overlay over the appropriate buttons on your two-line-display telephone.

2. Press [0 * * 2 6 6 3 4 4].


4. Press [Show] and enter the internal number of the telephone you want to program.


7. Choose a setting at Handsfree: using the CHANGE button.

There are three ways to set handsfree for a telephone:

- **Handsfree:None**
  - Handsfree is not available to the telephone.

- **Handsfree:Std**
  - A standard version of handsfree described *Using handsfree and mute* on page 66. Not available for 7316E digital phones.

- **Need Handsfree**
  - This prompt appears if you attempt to use handsfree or headset and the telephone not been configured with Auto under Handsfree.

- **Handsfree:Auto**
  - You can make or answer a call without having to pick up the receiver or press the button marked handsfree/mute. The internal microphone of the telephone and the speaker turn on automatically when you press a line or intercom button to make or answer a call.

For other displays, see *Common feature displays* on page 249.

Both Auto and Standard handsfree allow you to use a headset with a system digital phone.

A handsfree/mute button is automatically assigned to a legacy Norstar telephone that is programmed with handsfree and is always located in the lower right-hand corner of the memory button rows. For 7208 and 7316 digital phones, this button is assigned as a handsfree-only button. The mute button is located under the dial pad.

The handsfree setting for 7316E digital phones only displays *Auto* or *None*. The handsfree button on this telephone is located under the dialpad. If *Handsfree* is set to *None*, the handsfree button and headset feature do not function. Also, if the 7316E is attached to a system with software previous to MICS version 6.1, it acts like the 7316 digital phone, and the handsfree button under the dial pad is not active.
Handsfree Answerback

Handsfree Answerback allows you to answer a voice call without lifting the receiver.

This feature is always turned off for the 7000 and 7100 digital phones and the Digital Mobility phones.

You can turn handsfree answerback on or off for a telephone that is programmed to use handsfree.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \[\text{••••••}\].
3. Press \[\text{2 3 4 6 3 4}\] (the default System Coordinator password).
4. Press \[\text{Show}\] and enter the internal number of the telephone you want to program.
5. Press \[\text{Show}\] twice.
6. Press \[\text{Next}\] four times.
7. Choose a setting (Yes or No) at HF answerback: using the \[\text{CHANGE}\] button.

Turning Privacy on or off for a call

Lines in your system can be configured to have automatic privacy. If a line is not programmed with privacy, anyone with the line assigned to their telephone can join your call by pressing the line button. If a line is programmed with privacy, only one person at a time can use the line.

Privacy control cannot be used on internal or conference calls.
When another telephone joins a call, the participants on the call hear a tone, and a message appears on the Norstar display. You cannot join a call without this tone being heard.

**Creating a conference by releasing privacy**

If a line is programmed with privacy, you can turn privacy off to allow another person with the same line to join in your conversation and form a conference. All the rules applicable to a conference apply except there is only one line in use, instead of the usual two. This means that you cannot split a conference set up using Privacy.

1. Press ☽ 8 3.
2. Tell the other person to press the line button and join your conversation.

Only two system telephones, in addition to the external caller, can take part in this kind of conference.

**Making a call private**

 mayo 8 3

If a line is programmed not to have privacy, you can turn privacy on for a call, preventing other people with the same line from joining your conversation.

**Checking call length using Call Duration Timer**

 mayo 7 7

With this feature you can see how long you spent on your last call, or how long you have been on your present call.
**Displays**

<table>
<thead>
<tr>
<th>221 02:47</th>
<th>The display shows the last call you made, or the current call, and the total elapsed time.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line001 01:45</td>
<td>You parked your last call. The display shows the period the call was parked. This display only shows when the call is active at, or has just been released by, your telephone.</td>
</tr>
</tbody>
</table>

**Disconnecting by accident**

If you accidentally drop the receiver back into the telephone cradle while answering a call, you can quickly retrieve the call.

Pick up the receiver again or press the handsfree button within one second to reconnect the call.

**Time**

| 8 0 3 |

Use this feature to display the current date and time while you are on a call.
Making calls

There are many ways to make a call, depending on the programming and the type of call, as follows:

- Pick up the receiver and dial. The Norstar system supports three methods of dialing. See Changing how you dial your calls on page 80.
- Pick up the receiver, press a line button, and dial (if the call is not on your prime line).
- Press the handsfree button and dial to talk without using the receiver. See Using handsfree and mute on page 66.
- Press the handsfree button, then press a line button, and dial to talk without the receiver if the call is not on your prime line.
- Press a line button and dial to talk without the receiver if handsfree answerback is assigned to your telephone.
- Use one of the features that make dialing easier. See Time savers for making calls on page 87.

Displays

<table>
<thead>
<tr>
<th>221 busy</th>
<th>The telephone you have called has no internal lines available. Press LATER to use the Ring Again or Message features or press PRIORITY to make a priority call.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIORITY LATER</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9_</th>
<th>You are dialing using Pre-dial. To erase an incorrect digit, press the left end of or BKSP. When the number is complete, select a line or lift the receiver.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUIT BKSP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>95551234</th>
<th>This prompt remains on your display as long as you are on a call you have dialed. To transfer the call, press TRANSFER.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRANSFER</td>
<td></td>
</tr>
</tbody>
</table>
Your telephone is already connected to the telephone you are trying to call. Check your active line buttons, and return to that call.

Wait for the telephone to be answered. If no one answers, press LATER to use the Ring Again (page 84) or Message (page 127) feature, or press PRIORITY to make a priority call.

You cannot use Ring Again on your current call. You can only use Ring Again while you have a busy signal on an internal call or line pool request or while an internal call is ringing.

The telephone you are calling has Do Not Disturb turned on. Press LATER to use the Ring Again or Messages features, or press PRIORITY to make a priority call.

You have dialed a number, but the least expensive route that the system is programmed to use is busy. Unless you release the call, it goes through on a more expensive route.

The last number you dialed or the number you saved for Saved Number Redial was a speed dial number that displayed a name rather than the number. The number is dialed correctly, but you cannot see it.

You have attempted to use the private line assigned to another user.

Enter the digits of the number you want to dial.

You have not dialed an external telephone number since the last power interruption or system reset.

Either you have no prime line or your prime line is busy. Select a line manually before dialing.

You have entered the number of a telephone that is not in service.
Choosing a line using a line button

You have one line button for each line assigned to your telephone. Press the line button to select the line you want to answer or use to make a call. Having several line buttons allows you immediate access to more than one line.

The 7000 and 7100 digital phones and the Digital Mobility phones each have two intercom paths assigned which are used instead of line buttons to answer and make calls. These paths do not show us as display keys. Instead, the user switches between two calls by pressing ≥ (7000/7100) or R (on the DM phone). In this situation, one call is active and one call remains on hold.
Line pools

A line pool is a group of external lines that can be shared by many telephones. You can use a line in a line pool to make an external call.

The MICS system can have 15 non-PRI line pools and a maximum of four PRI line pools, depending on the hardware and profile configuration for your system. A telephone can be programmed to access any number of line pools. You can have several different line pools for your system, each one giving you access to a different set of external lines. It is one way of sharing lines across telephones in a system.

A line pool access code is a number you dial to get a non-PRI line pool. The access code can be up to four digits long. Your installer or customer service representative programs the line pool access codes and gives each telephone access to a line pool.

PRI line pools are accessed using destination codes. Destination codes differ from line pool codes, in that PRI line pools are assigned to specific routes that are then assigned a destination code. Destination codes can also be assigned to schedules, so that different pools are used at different times of the day.

Everyone in the office should have a list of the line pool access codes and destination codes for the line pools their telephones can use.
Using a line pool to make a call

Use this process to make a line pool call:

1. Press 64.
2. Enter a line pool access code or destination code.
3. Dial the number you are calling.

If you have a free internal line, you can make a call using a line pool without entering the feature code first.

1. Select an internal line (intercom).
2. Dial the line pool access code or destination code.
3. Dial the number you are calling.

Tip - If no lines are available in the line pool, you can use Ring Again at the busy tone. You are notified when a line in the line pool becomes available. See Using Ring Again on page 84.

Programming a memory button with a line pool

When you program a button with the line pool feature code, you must enter a line pool access code after the feature code. The programmed line pool button accesses a specific line pool, not the line pool feature. See Programming feature buttons on page 147 for more information.

If you program a button with an indicator to access a line pool, when all the lines in a line pool are busy, the indicator for the line pool button turns on. The indicator turns off when a line becomes available.
Making calls from an ISDN terminal

ISDN terminals do not have line buttons or intercom buttons as do Norstar telephones. To make an outgoing call from an ISDN terminal, access an external line by entering a line pool code or by using the ARS feature.

Dialing calls with a second dial tone

Some call destinations require a two-stage dialing sequence that requires a second dialing tone before the local numbers are dialed. Your system administrator will indicate which destination codes or numbers require this process.

1. Dial the destination code and any initial digits specified for the call.
2. When you hear the dial tone again, complete the dialing sequence.

Changing how you dial your calls

To change how how you dial your calls, use this feature:

1. Press 0 8 2.
2. Press # or NEXT until the dialing mode you want appears.
3. Press 0 or OK to select the displayed dialing mode.

The dialing modes feature code cannot be programmed onto a memory button.
Using Standard dial

Standard dial allows you to make a call by selecting a line and dialing the number. If you have a prime line, it is selected automatically when you lift the receiver or press the handsfree button.

You cannot use Standard dial on 7000 or 7100 digital phones unless you pick up the receiver first. If you have this type of telephone, use the Automatic dial or Pre-dial feature for on-hook dialing.

Digital Mobility phones only support standard dial. To dial, ensure that the handset is activated, and then dial the call number. The handset programming may allow pre-dial, but that feature would be specific to the handset. Refer to the user card that came with the handset for details about set-specific operation.

Using Automatic dial

Automatic dial allows you to dial a number without selecting a line. Your prime line is selected as soon as you start dialing a number.

Automatic dial does not work if your telephone has no prime line or if your prime line is in use.

Telephones connected to an analog terminal adapter (ATA) cannot use Automatic dial.
Using Pre-dial

Pre-dial allows you to enter a telephone number, check it, then change it before actually making the call. The call is not dialed until you select a line or line pool, or pick up the receiver. You can pre-dial both external and internal numbers. You must, however, select the correct type of line (external or internal) for the type of number you entered.

**Tip** - If your telephone starts ringing while you are pre-dialing a number, you can stop the ringing by turning on Do Not Disturb (85). This does not affect numbers you are entering.

You cannot pre-dial a telephone number if all the lines on your telephone are busy.

When the dialed internal number is busy

There are a couple of methods you can use if the telephone you are calling is currently busy.

Priority Call

If you get a busy signal or a Do Not Disturb message when you call someone in the office, you can interrupt them. Use this feature for urgent calls only.

**Tip** - Priority calls cannot be made to Hunt Group DNs. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

Digital Mobility phones receive priority calls as ringing calls. The existing call automatically goes on hold and the priority call becomes the active call.
Making a priority call

1. Press 69.
2. Wait for a connection, then speak.

A person who receives a priority call while on another call has eight seconds to accept or block the call. For information about blocking calls, see *Stopping calls from ringing at your telephone: Do Not Disturb (DND)* on page 194. If the person does nothing, the priority call feature puts their active call, including conference parties, on Exclusive Hold and connects your call.

Giving a telephone the ability to make priority calls

Use system programming to allow a telephone to make priority calls.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press 266344.
3. Press 23646 (the default System Coordinator password).
4. Press and enter the internal number of the telephone you want to program.
5. Press twice.
6. Press nine times. The display shows *Priority call*.
7. Press **CHANGE** to choose Y (Yes) or N (No)
### Displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call blocked</td>
<td>You tried to place a priority call to another system telephone. The person you called has blocked your call. Try to call later.</td>
</tr>
<tr>
<td>Please wait</td>
<td>The party you are calling has eight seconds to decide whether to accept or reject your priority call.</td>
</tr>
<tr>
<td>Priority denied</td>
<td>The telephone you are calling has already received a priority call or is unable to receive priority calls.</td>
</tr>
</tbody>
</table>

You can make a priority call only while your telephone displays:

- **221 busy**
  - The set you are trying to call has call on all assigned lines.

- **Calling 221**
  - The set you are trying to call is busy because the person is on another line.

- **Do not disturb**
  - The set you are trying to call has the Do Not Disturb feature activated.

- **On another call**
  - The set you are trying to call is busy because the person is on another line.

### Using Ring Again

Use Ring Again when you call someone on your Norstar system and their telephone is busy or there is no answer. Ring Again can tell you when they hang up or next use their telephone. You can use Ring Again to tell you when a busy line pool becomes available.

**Tip** - The Ring Again feature cannot be used when calling a Hunt Group DN. For more information about Hunt Groups, see Programming Hunt Groups on page 165
Turning on Ring Again

1. Press 2 before you hang up.

Using Ring Again cancels any previous Ring Again requests at your telephone.

Canceling Ring Again

1. Press 2 to cancel a Ring Again request.

Displays

- Can’t ring again: You cannot use Ring Again on your current call. You can only use Ring Again while you have a busy signal on an internal call or line pool request, or while an internal call is ringing.

- Ring Again? YES NO EXIT: Press YES to use Ring Again. Press NO if you prefer to send a message.
Time savers for making calls

Storing a number on a memory button for Autodial

You can program memory buttons for one-touch dialing of internal or external telephone numbers.

Buttons used for lines, answer DNs, or handsfree cannot be used as autodial buttons.

If the power to your Norstar system is off for more than three days, autodial numbers, and some other system programming, may be lost from the memory.

Adding an autodial button

Use these features to program external and internal numbers.

1. Press \( \text{\#} \) \( \ast \) \( 1 \) to program an external number.

Press \( \text{\#} \) \( \ast \) \( 2 \) to program an internal number.

2. Choose a button and then enter the number as if you were dialing it.

When programming autodial you can use:

- Last Number Redial
- Saved Number Redial
- destination codes — use the intercom line
- host system signaling
Choosing a line for Autodial

To include a line selection for an external number, press the line or intercom button before you enter the number. To select a line pool, press a programmed line pool button, or press the intercom button and enter a line pool access code.

If you select a line before pressing the autodial button, the call goes out on the line you have selected instead of the line that is part of the autodialer programming.

For the 7000 and 7100 digital phones, an external autodialer can be programmed only by using a line and not a line pool.

Tip - If you do not include a line selection in an autodial number, the call uses your prime line (if you have one).

Digital Mobility phones do not support the auto dial feature.

Using intercom as the line for Autodial

If you press the intercom button as the line for an external autodial number, you must include a valid line pool access code or a destination code. If line pool access codes or destination codes are changed, remember to reprogram autodial numbers.

Displays

```
987_ QUIT BKSP OK
Autodial full
```

Continue to enter digits until the number is complete. Press +/- or BKSP to erase an incorrect digit. Press [ ] or OK when you are finished.

The memory allotted to autodial numbers in your Norstar system is full.
| Button erased | While programming external Autodial, you erased the button by pressing ≥ or OK before entering any digits. |
| Enter digits | Enter the number you want to program. Choose the line first, if necessary, then enter the number exactly as if you were making a call. |
| Intercom #: _ | Enter the internal telephone number you want to program. |
| Invalid number | You are programming an internal autodial button and have entered a number that is not an internal number on your system. Enter a valid internal number. If the number you are entering is a destination code, use external autodial. |
| Press a button | Press the memory button you want to program. |
| Program and HOLD | Enter the number you want to program onto the button, then press ≥. |
| Program and OK | Enter the number you want to program onto the button, then press ≥ or OK. You may include a line or line pool selection in an autodial sequence by selecting the line before entering any digits. |
| Programmed | The number is stored on the button. |

For other displays, see *Common feature displays* on page 249.
Using Last Number Redial

Press 5 to redial the last external number you dialed.

Last Number Redial records a maximum of 24 digits.

Tip - If you have a programmed Last Number Redial button, you can use Button Inquiry ( ), then press the Last Number Redial button followed by (#) to check the last number before you dial it.

Preventing a telephone from using Last Number Redial

Last Number Redial can be restricted at individual telephones.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press .
3. Press (the default System Coordinator password).
4. Press and enter the internal number of the telephone you want to program.
5. Press .
6. Press three times. The display shows Restrictions.
7. Press twice.
8. Press . The display shows Allow last no:.
9. Press to choose Y (Yes) or N (No).
Displays

<table>
<thead>
<tr>
<th>Hidden number</th>
<th>The last number you dialed was a speed dial number that displayed a name rather than the number. The number is dialed correctly, but you cannot see it.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No last number</td>
<td>You have not dialed an external telephone number since the last power interruption or system reset.</td>
</tr>
</tbody>
</table>

**Tip** - You can copy a number onto an autodial button using Last Number Redial.

Using Speed Dial

Norstar provides two types of speed dialing: system and personal.

- **System Speed Dial** programming allows you to assign a maximum of 255 three-digit speed dial codes (001-255) to the external numbers your co-workers call most frequently.

- **User Speed Dial** programming allows individuals to program a maximum of 24 speed dial numbers that are personal to their telephone. These numbers also have three-digit codes (256-279)

Speed dial numbers are subject to the same restriction filters as regularly dialed numbers. Your installer or customer service representative can program system speed dial numbers to bypass dialing restrictions.

Speed dial numbers may include host system signaling codes.
Making a speed dial call

Tip - There is no difference between using User Speed Dial and using System Speed Dial. They differ only in how you program them.

1. Press ≤0 to quickly dial external telephone numbers that have been programmed onto speed dial codes.
2. Enter the appropriate three-digit speed dial code.

Changing and adding System Speed Dials

The system coordinator assigns numbers to System Speed Dial codes for the entire system. See Adding or changing a system speed dial on page 29.

Adding or changing User Speed Dial

To add or change a User Speed Dial number on your telephone:

1. Press ≤*4.
2. Enter a three-digit code from 256 to 279 that you want to associate with a telephone number.
3. To include a line selection for this number, press the line or intercom button. To select a line pool, press a programmed line pool button, or press the Intercom button and enter a line pool access code. For the 7000 and 7100 digital phones, analog telephones and Digital Mobility phones, you can enter only a line pool access code or a destination code.
4. Enter the number you want to program.
5. Press ✆ or OK.
## Displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Enter digits</strong></td>
<td>Continue entering the number you want to program. You can change the number by pressing <strong>BKSP</strong> or <strong>&lt;</strong>. When you are finished, press <strong>&gt;=</strong> or <strong>OK</strong>.</td>
</tr>
<tr>
<td><strong>Invalid code</strong></td>
<td>Enter the telephone number you want to program exactly as if you were dialing it normally. When you are finished, press <strong>&gt;=</strong> or <strong>OK</strong>. You have entered a code outside the code range (001-255 for system, 256-279 for user codes).</td>
</tr>
<tr>
<td><strong>No number stored</strong></td>
<td>You have entered a code outside the code range (001-255 for system, 256-279 for user codes).</td>
</tr>
<tr>
<td><strong>Program and HOLD</strong></td>
<td>If you want to program a line or line pool selection for this speed dial number, select the line or line pool. Otherwise, enter the telephone number exactly as if you were dialing it normally. When you are finished, press <strong>&gt;=</strong>.</td>
</tr>
<tr>
<td><strong>Program and OK</strong></td>
<td>If you want to program a line or line pool selection for this speed dial number, select the line or line pool. Otherwise, enter the telephone number you want to program exactly as if you were dialing it normally. When you are finished, press <strong>OK</strong>.</td>
</tr>
<tr>
<td><strong>Select a line</strong></td>
<td>There is no line associated with the speed dial number you are trying to use. Select a free external line or line pool and enter the speed dial feature code again.</td>
</tr>
<tr>
<td><strong>Unknown number</strong></td>
<td>The system cannot dial the number stored. Reprogram the number.</td>
</tr>
</tbody>
</table>

For other displays, see *Common feature displays* on page 249.
Using Saved Number Redial

You can use this feature while you are on an external call that you dialed to save the number so that you can call it again later.

Each telephone can save one number at a time with Saved Number Redial, not one number for each line.

Tip - You can copy a number onto an autodial button using Saved Number Redial.

Saved Number Redial records a maximum of 24 digits.

Dialing a saved number

Press 6 7 when you are not on a call.

If you have a programmed Saved Number Redial button, you can use Button Inquiry (***0) to check the last number before you dial it.

Blocking Saved Number Redial

Saved Number Redial can be restricted at individual telephones.

1. Place the programming template over the appropriate buttons of the programming telephone.


3. Press 2 3 6 4 6 (the default System Coordinator password).

4. Press Show and enter the internal number of the telephone you want to program.
5. Press [Show].


9. Press CHANGE to choose Y (Yes) or N (No).

Displays

- **Hidden number**: You have saved a speed dial number that displays a name rather than the number. The number is dialed correctly, but you cannot see it.

- **No number saved**: You have tried to save the number of an incoming call. You can only save numbers that you have dialed yourself.
Handling many calls at once

Using Hold

You can temporarily suspend a call by pressing 🔄.

When a call is on hold, its indicator flashes on all telephones that have access to the line. The call can be retrieved from any of these telephones.

On the 7000 and 7100 digital phones and Digital Mobility phones use the hold button, or the equivalent, to alternate between two lines. One line is active, the other is on hold. These telephones cannot retrieve a call placed on hold by another telephone.

Tip - Answered Hunt Group calls can be placed on hold at the answering telephone. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

Retrieving a held call

You can connect to a call on hold by pressing the flashing line button of the held call.

On 7000 and 7100 digital phones and Digital Mobility phones, use the hold feature to toggle between to active calls.

On Digital Mobility phones, if the active call is disconnected, the call on hold will ring at the handset. If the handset moves out of radio range, external active and held calls will transfer to the prime set for that telephone, but internal calls will be dropped.
Listening on hold

If you have been put on hold, you can hang up the receiver while you wait for the other person to return.

1. Press ≥.
2. Hang up the receiver.
3. Press the line button of the call. You may hear indications from the far end that you are on hold, for example, tones or music.
4. When the person you were talking to returns, you hear them through your telephone speaker. Lift the receiver and talk.

Tip - If Automatic handsfree has been assigned to your telephone, you can use the handsfree and mute features instead of Listen on Hold.

This feature is not valid for the 7000 and 7100 digital phones and the Digital Mobility phones, since these telephones do not have speakers.

Holding a call exclusively

You can put a call on Exclusive Hold so that it can be retrieved only at your telephone.

Press ☑️ 7 9 or ☑️ ☐. The line appears busy on all other telephones, and the call cannot be picked up by anyone else in the office.

Displays

On hold: LINENAM

You have placed one or more calls on hold. The name of the line that has been held the longest is displayed.
Using Call Queuing

If you have more than one call ringing at your telephone, use this feature code to choose the call that has the highest priority.

Call Queuing answers incoming external calls before callback, camped, and transferred calls.
Handling many calls at once
Transferring calls

Using the transfer feature

Transfer allows you to direct a call to a telephone in your Norstar system, within the network, or external to the network.

Transferring a call

1. Press 70.
2. Call the person to whom you want to transfer the call.
3. If you want to talk to the person to whom you are transferring the call, wait for them to answer, then speak to them before proceeding.
4. When you are ready to complete the transfer, press or JOIN.

Transfer notes:

- You cannot use Last Number Redial, Saved Number Redial, a speed dial code, Priority Call or Ring Again to dial the number for a transfer.
- Depending on how a private network call is routed, it may not always be possible for the system to return a transferred call to you if the transferred call is not answered. When transferring a call to a private network destination, stay on the line until the person to whom you are transferring the call answers.
- You cannot use the Line Pool feature code to access a line pool for a transfer. To use a line pool, use a programmed line pool button, or press the intercom button and enter a line pool access code or a destination code.
• If you have an auxiliary ringer programmed to ring for calls on an external line, and you transfer a call on that line without announcing the transfer, the auxiliary ringer rings for the transferred call.

Transferring external calls

If an external call is transferred to a busy telephone, or not answered after a few rings, the call automatically rings again at the telephone from which it was transferred, and the display indicates that the telephone was busy or that no one answered.

When transferring an external call to an external number, the external call you are trying to transfer must be an incoming call on a disconnect supervised line.

While on a conference call, you can remove yourself from the conference and connect the other two callers using the Transfer feature. However, if both of the other people are from outside the system, at least one of the outside callers must have called you and both of the outside calls must be on disconnect supervision lines.

Note: Transfer via Hold on DID lines is not supported. Once a call is answered, the line appearances on all other sets are free immediately to take other calls. This allows a greater number of calls to be received. Use the Call Park feature or assigned SWCA buttons/codes to transfer a call. Refer to Using Call Park on page 106 and System-wide call appearance (SWCA) codes on page 108.

In certain situations, you may experience lower volume levels when transferring an external call to an external person, or when transferring two external callers from a conference call.
Canceling a transfer

You can reconnect to the person you are trying to transfer at any time before the transfer is complete.

1. Press \( \# \) 7 0 or **CANCEL**.

2. If you are not reconnected to your original call, press \( \# \) and then press the line button of the original call, which is now on hold.

Displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>221&gt;222</td>
<td>You are talking to the person you want to transfer the call to. Press <strong>RETRY</strong> if you decide to transfer the call to someone else. Press ( # ) or <strong>JOIN</strong> to transfer the call.</td>
</tr>
<tr>
<td>221 no reply</td>
<td>The person to whom you tried to transfer a call did not answer. Press <strong>CALLBACK</strong> or the flashing line button to reconnect to the call. On 7000 and 7100 digital phones lift the receiver.</td>
</tr>
<tr>
<td>Do not disturb</td>
<td>The person to whom you tried to transfer a call has Do Not Disturb active on their telephone. Press <strong>JOIN</strong> to transfer the call anyway. Press <strong>RETRY</strong> to transfer the call to someone else. Press <strong>CANCEL</strong> or the flashing line button to reconnect to the call (on 7000 and 7100 digital phones, press ( # ) 7 0).</td>
</tr>
<tr>
<td>Invalid number</td>
<td>You entered an invalid internal number. Press <strong>RETRY</strong> and enter the number again.</td>
</tr>
<tr>
<td>Line001 hung up</td>
<td>The external caller you were transferring hung up before the transfer was complete.</td>
</tr>
<tr>
<td>Line001&gt;221</td>
<td>Press <strong>JOIN</strong> to transfer the call on line 001 to telephone 221. Press <strong>RETRY</strong> if, after talking to the person at extension 221, you decide to transfer the call to someone else.</td>
</tr>
<tr>
<td>Not in service</td>
<td>The telephone to which you are trying to transfer a call is out of service.</td>
</tr>
</tbody>
</table>
Using Camp-on

You can transfer an external call to another telephone within the system, even if all of its lines are busy.

1. Press \[82\] \[88\].

2. Dial the number of the telephone you want to camp the call to.

Camped calls appear on a line button on the receiving telephone, if one is available. If there is no line button available, you receive a message on the display and hear Camp tones.

Each set can handle only one camped call at a time.
### Displays

<table>
<thead>
<tr>
<th>Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>221 Camp max</strong></td>
<td>You tried to camp a call to a telephone that already has a camped call. The call has come back to you. Press the <strong>CALLBACK</strong> button or the line button to reconnect to the call. On 7000 and 7100 digital phones, just pick up the receiver.</td>
</tr>
<tr>
<td><strong>221 DND</strong></td>
<td>The person to whom you redirected a call has Do Not Disturb active on the telephone. The call has come back to you. Press the <strong>CALLBACK</strong> button or the line button to reconnect to the call. On 7000 and 7100 digital phones, just pick up the receiver.</td>
</tr>
<tr>
<td><strong>Camp denied</strong></td>
<td>You have tried to camp an internal call. You can only camp external calls.</td>
</tr>
<tr>
<td><strong>Camp to:</strong></td>
<td>Dial the number of the internal telephone to which the call is sent.</td>
</tr>
<tr>
<td><strong>Camped:</strong></td>
<td>The telephone to which you camped a call did not answer the call. The call has come back to you. Press <strong>CALLBACK</strong> or the line button to reconnect to the call. On 7000 and 7100 digital phones, just pick up the receiver.</td>
</tr>
<tr>
<td><strong>Line001 hung up</strong></td>
<td>A call you camped has come back to you, but the caller hung up before you could reconnect.</td>
</tr>
<tr>
<td><strong>Not in service</strong></td>
<td>The telephone to which you have camped a call is out of service or is being used for programming. The call has come back to you. Press <strong>CALLBACK</strong> or the line button to reconnect to the call. On 7000 and 7100 digital phones, just pick up the receiver.</td>
</tr>
<tr>
<td><strong>Release a call</strong></td>
<td>The line that the camped call is on is in use or that line does not appear at your telephone. Release the line or release an internal line.</td>
</tr>
</tbody>
</table>

For other displays, see *Common feature displays* on page 249.
Parking a call

You can suspend a call so that it can be retrieved from any telephone in your system.

1. Press `74`.

2. Use the Page feature (`60`) or press PAGE to announce the retrieval code displayed by your telephone.

See also System-wide call appearance (SWCA) codes on page 108.

Retrieving a parked call

1. Select an internal line.
   
   On 7000 and 7100 digital phones, pick up the receiver.

2. Dial the Call Park retrieval code.

Using Call Park

When you park a call, the system assigns one of 25 codes for the retrieval of the call. These codes consist of the Call Park prefix, which may be any digit from 1 to 9, and a two-digit call number between 01 and 25. For example, if the Call Park prefix is 1, the first parked call is assigned Call Park retrieval code 101. The call park prefix is assigned during system programming. Check your Modular ICS Programming Record if you are unsure about what range your system uses.

The Norstar system assigns Call Park codes in sequence, from the lowest to the highest, until all the codes are used. This round-robin approach means that a greater variety of codes are used, which makes it easier for a call to reach the right person when more than one incoming call is parked.
The highest call number, which is made up of the Call Park prefix followed by 25, is used only by 7000 and 7100 digital phones, analog telephones, or devices connected to the system using an analog terminal adapter (ATA) or an Analog Station Module (ASM) and Digital Mobility phones.

Your installer or customer service representative programs both the Call Park prefix and the delay before parked calls are returned to the originating telephone. External calls parked for longer than the programmed delay are returned to your telephone.

**Tip** - *Answered Hunt Group calls are parked in the same manner as other calls. For more information about Hunt Groups, see Programming Hunt Groups on page 165.*

Call Park can be disabled by your installer or customer service representative.

**Displays**

- **Already parked**
  The person you were talking to has already parked your call. You cannot park the same call.

- **No call to park**
  You have attempted to use Call Park with no active call on your telephone. If the call you want to park is on hold, reconnect to it before you park it.

- **Invalid number**
  You have entered an invalid retrieval code.

- **No call on: 101**
  There was no call on the retrieval code you entered.

- **Park denied**
  You have tried to park a conference call. Split the conference and park the calls separately. The person who retrieves the calls can reconnect the conference.
System-wide call appearance (SWCA) codes

This feature allows a call to maintain an appearance on buttons assigned with SWCA codes to a group of users.

SWCA buttons can be assigned to memory buttons using 
* 3 to assign the SWCA feature codes: * 5 2 1 to * 5 3 6. See Programming a feature code onto a memory button on page 147 for general information about setting or changing button programming for a telephone.

**Code change** - Software releases prior to MICs 7.0 used a SWCA range of 
* 5 2 0 to * 5 3 5. If the first code was previously assigned as a SWCA code, reprogram that button for the affected telephones.

SWCA codes can also be assigned when the telephone DN record is set up. Visible assignments are set up in button programming. Non-visible assignments are set up on the SWCA call groups setting under Capabilities. For the latter group, users use the actual SWCA codes to park and retrieve the calls. Since there is no visibility to the users without button assignments, users must employ the voice call or page feature to provide the call location to other users.
There are also three SWCA feature codes that provide flexibility for parking and accessing SWCA calls. These are especially useful for users with non-visible SWCA assignments.

**Special code function note** - The special search and park codes only search among SWCA settings actually assigned to the telephone from which the code is invoked. To park and retrieve calls between groups with different sets of SWCA assignments, users still need to use the voice call or page feature to notify other users about SWCA assignments that are not specifically assigned.

- ✌️ * 5 2 0 searches for the next available free assigned SWCA position and parks the call on that position. SWCA positions assigned to memory buttons will be searched first. If there are no available SWCA buttons, the system searches for any available assigned non-appearance SWCA positions.

- ✌️ * 5 3 7 retrieves the call that has been sitting on an assigned SWCA position the longest. The system searches only on codes assigned to the telephone.

- ✌️ * 5 3 8 retrieves the call that has most recently been parked on an assigned SWCA position. The system searches only on codes assigned to the telephone.
Refer to the *Module ICS 7.0 Installer Guide* for information about programming SWCA features through the programming interface.

**Tips** - *Since SWCA buttons use the park feature, check with your system administrator to ensure that park is turned on for your system before adding SWCA assignments.*

*A SWCA call on park that exceeds the park timeout timer is released from the SWCA button and rings again at the original telephone.*

Each group telephone must either have a line appearance of the call coming in, or a free intercom button to be able to retrieve a SWCA call.

Refer to the Norstar SWCA User Card for detailed information about how the feature is used.

**Using Callback**

When you direct a call you have answered to another telephone, the system monitors the call to make sure it is answered. If no one answers the call within a set length of time, the system directs it back to you.

Callback generates a variety of displays. Most occur after a set delay. Some occur immediately if the telephone to which you are directing a call is out of service or otherwise unavailable. These are listed with the descriptions of the specific features such as Transfer or Camp-on.
Forwarding your calls

Forwarding your calls within the system

Use this feature to forward your calls within your system or network.

1. Press \( \text{\#} 4 \).

2. Enter the number of the internal telephone to which you want your calls forwarded.

If you are forwarding calls outside the system, ensure that you enter the appropriate line pool access code or destination code to access the external system.

You can also use Line Redirection to forward calls outside the system. Line redirection takes precedence over Call Forward. However, line redirection is not supported on the 7000 and 7100 digital phones, analog telephones, or the Digital Mobility phone.

TIP - 7316E telephones display this call forwarding icon when a call has been forwarded:

Canceling Call Forward

1. Press \( \text{\#} \# \text{\#} 4 \).
Using Call Forward at your telephone

When you use \begin{verbatim} # 4 \end{verbatim}, all calls go to the destination you select, regardless of how Forward on busy and Forward no answer are programmed.

**Tip** - If your telephone is a member of a Hunt Group, the Call Forward all calls setting is overridden by the Hunt Group routing for Hunt Group calls. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

If the telephone to which you forwarded your calls does not have the same external lines as your telephone, the forwarded calls appear on intercom buttons.

If a call is forwarded, it does not ring at your telephone. Instead, the line indicator flashes. You can answer the call by pressing the button next to the flashing indicator. This does not cancel call forward for other calls coming in.

**Tip** - Beware of creating call-forward loops

If you are one of a group of people who regularly forward their calls to one another, be aware that it is possible to set up forward loops where a call is forwarded from one telephone to another in a circle, and is never answered anywhere.

**Overriding Call Forward**

If you call someone who has their calls forwarded to you, your call rings at that telephone even though they are forwarding their calls to you.
Changing the automatic Call Forward settings

Call forwarding occurs automatically when a call is not answered or the line is busy. These automatic options are changed in programming.

For step-by-step instructions, see *Change where a call goes when there is no answer* on page 35.

Changing Forward no answer

Forward no answer redirects unanswered calls to another telephone on your Norstar system.

**Tip** - *If the set is a member of a Hunt Group, the Call Forward no answer feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information about Hunt Groups, see *Programming Hunt Groups* on page 165.*

Line Redirection takes precedence over Forward no answer.

For instructions for changing Forward no answer refer to *Change where a call goes when there is no answer* on page 35.

Changing the delay before a call is forwarded

You can assign the number of times that the incoming call rings at your telephone before the call is forwarded. To estimate the delay time in seconds, multiply the number of rings by six.

For step-by-step instructions, see *Change the number of times the telephone rings before it is forwarded* on page 36.
Forward on busy

Forward on busy redirects your calls to another telephone on your Norstar system when you are busy on a call, or when you have Do Not Disturb activated at your telephone. For step-by-step instructions, see *Making changes to Call Forward No Answer* on page 35.

Line Redirection takes precedence over Forward on busy. Calls that are redirected by Line Redirection are not affected by any Call Forward features or Call Forward programming.

Telephones that have Forward on busy active can receive priority calls. If you are busy on a target line call, another call to that target line is redirected to the prime telephone for that target line.

**Tip -** *If the set is a member of a Hunt Group, the Call Forward on busy feature is overridden and the Hunt Group call continues to ring until the hunt time has expired. For more information about Hunt Groups, see Programming Hunt Groups on page 165.*

DND on Busy

When you are busy on a call and a second call comes in, your telephone rings softly to alert you to the second call. If you find this second ring distracting, you can have the system prevent a second call from disturbing you by assigning Do Not Disturb (DND) on Busy to your extension.

When DND on Busy is turned on for the telephone, internal and private network callers hear a busy tone instead of ringing when you are on the telephone. External callers are transferred to the prime set used in your system. For step-by-step instructions, see *Making Changes to Do Not Disturb on Busy* on page 38.
If you use DND on Busy, the line indicator for an external incoming call flashes, but your telephone does not ring.

Forward on busy takes priority over DND on Busy.

If an external call uses a target line, the call is processed according to the programming of the target line. If the target line is busy, the caller may hear a busy tone or the call may be routed to the prime set for the target line regardless of the DND on Busy programming for the telephone.

**Tip** - *If a telephone is a member of a Hunt Group and the telephone activates this feature, the telephone does not receive notification of incoming Hunt Group calls while on a call. The DND on busy feature overrides the Hunt Group. For more information about Hunt Groups see Programming Hunt Groups on page 165.*

**Call Forward and Voice Mail**

If you want a voice mail system to pick up unanswered calls automatically, do either of the following:

- use the internal number of your voice mail as the destination when you program Forward no Answer and Forward on busy

  **Note:** If the voice mail hardware is attached to another system on the private network, the forwarded number for the voice mail system will be an external number on all systems in the network, except the one to which the voice mail system is directly connected.

- make the ring delay greater than the delay used by your voice mail system, if your voice messaging system or service automatically retrieves calls
Displays

Forward denied

There are several reasons why you may get this message. For instance, you cannot forward your calls to a telephone that has been forwarded to your telephone.

Forward>221

Your calls are being forwarded to telephone 221.

Not in service

Two or more telephones are linked in a forwarding chain, and one of them is out of service or is being used for programming.

For other displays, see *Common feature displays* on page 249.

**Line Redirection**

Line Redirection allows you to send your external calls to a telephone outside the office. You may choose to redirect all your external lines or only some of them.

Line Redirection takes precedence over the Call Forward feature. If both features are active on a telephone, incoming external calls on redirected lines are routed to the specified Selective Line Redirection (SLR) external destination. Incoming internal calls are forwarded to the specified Call Forward destination.

You cannot use the Line Redirection feature on 7000 or 7100 digital phones, on Digital Mobility phones, or on an analog telephone connected to an ATA.
Turning on Line Redirection

Follow these steps to turn on Line Redirection:

1. Press \( \text{#} \ 8 \ 4 \).
2. Select the outgoing line to be used for redirected calls.
3. Enter the number to which calls are redirected.
   
   Refer to the list below for suggestions.
4. Select the lines to be redirected.

In step 3, you can enter the telephone number to which you want to redirect calls, using one of the following methods:

- Press an external autodial button.
- Enter an external telephone number (using no more than 24 digits) then press \( \text{OK} \) or \( \text{OK} \).
- Press \( \text{OK} \) or \( \text{OK} \) if the line you have chosen as the outgoing line is a private network line that does not require you to dial digits.

If you use \( \text{ALL} \) to redirect all your lines, it is important that you wait until all the lines on your telephone light up before pressing \( \text{OK} \) or \( \text{OK} \). If you press \( \text{OK} \) or \( \text{OK} \) before all the lines light up, those lines not lit are not redirected.

**Tip** - The line chosen for redirecting calls on other lines can be used normally when it is not busy on a redirected call. To avoid redirection failing because the chosen line is in use, choose a line pool with several lines in it.
Canceling Line Redirection

When you are ready to resume service, use this procedure to cancel line redirection.

1. Press ≤£°›.
2. Select the lines you no longer want to be redirected.

Allowing a telephone to redirect calls

You can use programming to determine if a telephone can use the redirect calls feature and turn it on or off.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press ≤••¤flfl‹›››.
3. Press (the default System Coordinator password).
4. Press ≠ and enter the internal number of the telephone you want to program.
5. Press ≠ twice.
6. Press Back four times. The display reads Allow redirect:.
7. Press CHANGE to select Y (Yes) or N (No).

Tip - The system does not check that the number you give for line redirection is a valid one. If you redirect to an invalid number, redirection fails. Using an autodial button to enter the redirection number helps avoid this possibility. An autodial button used for line redirection must be programmed to use a specific line.
Turning the redirect ring for a telephone on or off

You can program a telephone to ring briefly (200 milliseconds) when a call is redirected to one of the lines assigned to it.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \[6 \ast \ast 2 6 6 3 4 4\].
3. Press \[2 3 6 4 6\] (the default System Coordinator password).
4. Press \[Show\] and enter the internal number of the telephone you want to program.
5. Press \[Show\] twice.
6. Press \[Back\] three times. The display reads \[Redirect ring:\].
7. Press \[CHANGE\] to select \(\text{Y} \) (Yes) or \(\text{N} \) (No).

**Tip** - If a telephone has redirect ring enabled, it rings briefly for redirected calls on one of its lines even if another telephone set up the line redirection.

**Displays while redirecting lines**

```
Intercom

Line Redirection
QUIT ADD REMOVE
```

You selected the intercom button as the facility to place the call on. Enter a line pool code or a destination code.

Press \[\ast\] or \[ADD\] to begin redirection. Press \[#\] or \[REMOVE\] to cancel a previous redirection.
You have one external line on your telephone, but you need a second line to perform line redirection. Redirect your external line using a line pool as the outgoing line.

You are attempting to redirect a line and the line you have chosen is the outgoing line you have selected as a destination. You cannot redirect a line to itself. Select another line.

Enter a valid line pool access code.

You have attempted to redirect a line, but someone else has already redirected that line. Press • or OVERRIDE to override the previous redirection and redirect the line as you want.

You can redirect calls only on individual lines.

Select the line that is used to redirect calls out of the system.

Press the lines to be redirected. To undo a line selection, press it again. Press ALL to redirect all your lines.

Continue to press the lines to be redirected. Press ≥ or OK when you are finished.

The line you are attempting to redirect cannot be redirected because the hardware does not support redirection.

Press the lines that are no longer to be redirected. The lines light up as you press them. Once you cancel redirection for a line you cannot restore it by pressing the line again. Press ALL to cancel redirection for all your lines. To end, press ≥ or OK.

Displays while canceling redirection
How Line Redirection is different from Call Forward

Call Forward forwards all calls that arrive at a particular telephone to another telephone within the Norstar system. Line Redirection redirects only the lines you specify, no matter which telephones they appear on, to a telephone outside the Norstar system. Line Redirection takes precedence over Call Forward.

Using Line Redirection

You redirect lines at a telephone, but once redirected, the lines are redirected for the entire system.

You can redirect only lines that appear at line buttons on your telephone.

You can answer the telephone if it rings while you are in the middle of programming Line Redirection, but none of the Norstar call handling features are available until the feature times out. If you need to use a Norstar feature to process the call, quit Line Redirection programming by pressing \( \Box \). Do not press \( \Box \) or you disconnect the call you are trying to process.

While you are programming Line Redirection you do not receive any indication of calls that do not actually ring at your telephone.

Be careful to avoid redirection loops. If for example, you redirect your lines to your branch office and your branch office...
redirects its lines to you, you can create a redirection loop. If these calls are long distance, you end up paying charges.

In certain situations, callers may experience lower volume levels when you redirect calls to an external location.

**Centralized voice mail and auto attendant**

How centralized voice mail and auto attendant systems are accessed, depends on which node users are attached.

**Using a centralized voice mail system**

If your system is part of a network that uses just one Meridian voice mail or Norstar voice mail system, how the users access the system will depend on which node they reside.

Users with telephones attached to the same system as the voice mail system use the internal prompts († 9 8 1) to access messages.

Users with telephones attached to any other nodes, will be prompted to enter a mailbox number, then a password and the # button at the end of the sequence. The subsequent voice prompts will be the same ones that the users encounter when they dial into a system from a remote site. As well, instead of using † to access feature codes, users use the * button (*, 9, 8, 1), just as they would if they were dialing into their own system from a remote location.
Communicating in the office

Paging

Paging allows you to make announcements over the Norstar system using the telephone speakers, or an external loudspeaker system, if one is available.

The 7000 and 7100 digital phones and the Digital Mobility phones can be used to make page announcements, but these telephones cannot receive page announcements.

Making a page announcement

1. Press \textcircled{6} 0.
2. Choose a page type. Page types are:
   - 1 through the telephone speakers (internal page)
   - 2 through an external speaker (external page)
   - 3 both internal and external (combined page)
3. If necessary, choose a zone.
4. Make your announcement.
5. Press \textcircled{6}.

\textbf{Tip} - Instead of entering the Page feature code followed by the page type, you can enter the following shortcut codes.
Page zone 0 is all zones.

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal</td>
<td>61</td>
<td>and zone (0 to 6)</td>
</tr>
<tr>
<td>External</td>
<td>62</td>
<td>(code 2 has no zones)</td>
</tr>
<tr>
<td>Combined</td>
<td>63</td>
<td>and zone (0 to 6)</td>
</tr>
</tbody>
</table>

**Activating and deactivating the ability to page**

You can allow or disallow the page feature for each telephone.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \( \text{**•**•**•} \). 
3. Press \( \text{2**3**6**4**6} \) (the default System Coordinator password).
4. Press \( \text{Show} \) and enter the internal number of the telephone you want to program.
5. Press \( \text{Show} \) twice.
6. Press \( \text{Next} \) seven times. The display reads Paging.
7. Press \( \text{CHANGE} \) to select the setting: \( \text{Y} \) (Yes) or \( \text{N} \) (No).
Creating page zones

Each telephone can be assigned to one of six zones for receiving pages.

Tip - Hunt Group DNs cannot be included in a page zone. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press ≤••¤flfl‹››.
3. Press ¤‹fl›fl (the default System Coordinator password).
4. Press ≠ and enter the internal number of the telephone you want to program.
5. Press ≠ twice.
6. Press ' six times. The display reads Page Zone.
7. Press CHANGE to select the setting: 1, 2, 3, 4, 5, 6 or None.

You can make a telephone part of a page zone only if the telephone has paging set to Y (Yes).

A zone is any set of Norstar telephones that you want to group together for paging, regardless of their location. The maximum number of sets in a page zone is 50.

Your installer programs whether a tone sounds before a page begins, and the maximum number of seconds a page can last before it is automatically turned off.
Tip - Make sure that everyone who needs to make page announcement has a list showing which telephones are in which page zones. Enter this information into your Modular ICS 7.0 Programming Record.

Displays

| Enter zone: | Enter the desired page zone number (0-6) or press ALL. |
| Invalid zone | You have entered a page zone code that is not between 0 and 6. |
| Page choice: | Select the type of page you want. See the list in Making a page announcement on page 123. |
| Page timeout | The time allotted for paging has expired. |
| Paging ALL | You are making a page. The display shows the page zone you have chosen. Press # or & when you are finished. |
| Paging busy | A page is already being made in the page zone you have requested. |

For other displays, see Common feature displays on page 249.

Tip - You can make an announcement to one person by placing a voice call to their telephone.
Using Page with external paging equipment

When you make a page that uses external paging equipment — external page or combined page — the Long Tones feature is automatically activated for the external paging system only. This allows you to control optional equipment with the Long Tones feature.

Sending messages

The Messages feature allows you to leave a message on the display of another system telephone. The Messages feature indicates if you have any messages waiting.

The Messages feature uses a message waiting list to keep a record of your internal messages and your external voice mail messages if you subscribe to a voice message service with visual message waiting indication.

Sending a message

You can leave a message on the display of another telephone in your Norstar system.

You can send up to four messages to different telephones, including your voice message center. If your telephone is a direct-dial telephone or a central answering position (CAP), you can send up to 30 messages.

If your reply to a message is forwarded or is answered at another telephone using the Call Pickup feature, the message remains on your telephone until you cancel it or successfully contact the telephone that sent the message.
1. Press \( \text{#} \ 1 \). 

2. On a telephone with a two-line display, press \( \text{ADD} \). Note: This step is not necessary on a telephone with a one-line display.

3. Enter the internal number of the person to whom you want to send the message. The person’s display reads \( \text{Message for you} \). On analog telephones connected to an Analog Station Module (ASM), the message waiting indicator is activated.

\[ \text{TIP - Only the designated direct-dial telephone for an analog telephone connected to the system can send messages to analog telephones by pressing \( \text{#} \ 1 \). Depending on the programming setup, the analog telephone provides either a Stuttered Dial Tone or a Message Waiting Lamp to indicate messages pending.} \]

For analog telephones connected to an ASM, the message waiting indicator remains on until the user invokes \( \text{Link} \ # \ 6 \ 5 \). If the analog telephone has the Message Reply Enhancement feature set to Yes, the message waiting indicator is turned off automatically after the reply call is answered no matter from where the call is answered.

For more information about the Message Reply Enhancement feature, see the Norstar Modular ICS 7.0 Installer Guide.

**Canceling a message you have sent**

1. Press \( \text{#} \ 1 \). The display reads \( \text{Cancel for:} \).

2. Enter the internal number of the person to whom you sent the message.
Viewing your messages

You can receive up to four messages from different telephones, including your voice message center. A single message from your voice message center may pertain to several voice messages.

On a telephone with a one-line display

1. Press \[65\]. The display shows the first message.
2. Press \[ or \# to move through your messages.

On a telephone with a two-line display

1. Press MSG. The display shows your first message.
2. Press NEXT to move through your messages.

Replying to a message

You can call the person who sent a message or your voice message center while you are viewing the message.

On a telephone with a one-line display

- Press \[.

On a telephone with a two-line display

- Press CALL.

If you want to call your voice message center using a line other than the programmed line, exit your message list and dial the voice message center telephone number using normal dialing methods.
Repliesing to a message using an analog telephone

On an analog telephone connected to an Analog Station Module or an analog telephone adaptor (ATA):

- Press \texttt{Link} \texttt{* 6 5}. The system automatically retrieves and connects the user to the oldest message sender. (The message can originate from either the designated direct-dial telephone or the internal voice mail system.)

If the analog telephone has the Message Reply Enhancement feature set to Yes, and the sender is the designated direct-dial telephone, the message waiting indicator is turned off automatically after the reply call is answered, no matter from where the call is answered.

For analog telephones connected to an ASM, using the Message Waiting Reply feature (\texttt{Link} \texttt{* 6 5}), retrieves only internal messages sent to the user.

Analog telephones connected to an ASM cannot retrieve external messages by using the Message Waiting Reply feature (\texttt{Link} \texttt{* 6 5}). For external messages, users must call back the external voice mail center to retrieve their messages. When doing so, the message waiting indicator on the analog telephone is turned off automatically.

\textbf{Tip} - If there is no voice mail system installed, only the designated direct-dial telephone can send messages to an analog telephone connected to an Analog Station Module (ASM) using \texttt{0 1}. The analog telephone can in turn invoke a single digit access code to reach the designated direct-dial telephone and retrieve messages.
Removing items from your message list

You can erase a message while you are viewing it in your message list. If the message is from your voice message center, this only erases the message notification at your telephone. You need to erase the voice message at your voice message center. Refer to your voice message center documentation.

On a telephone with a one-line display

- Press ≥.

On a telephone with a two-line display

Press ERASE.

Removing items from your message list using an analog telephone connected to an ASM

To remove both internal and external messages on an analog telephone connected to an Analog Station Module

- Press Link  # 6 5 to invoke the Cancel Message Waiting feature.

On analog telephones connected to an ASM, the Cancel Message Waiting feature cancels the oldest message received. The system no longer provides either a Stuttered Dial Tone or a Message Waiting Lamp if there are no messages pending.
Viewing messages you have sent

On a telephone with a two-line display, you can view the messages you have sent.

1. Press 6 1.
2. Press SHOW to display your first sent message.
3. Press NEXT to move through your sent messages.

Displays

- **Cancel denied**: You have entered an invalid number when attempting to cancel a message.
- **Cleared LINENAM NEXT**: You have cleared an external message from your message waiting list. The message itself exists in your voice message center until you erase it there.
- **In use: 221**: You are trying to call from your message waiting list. The line that you want to use is being used by the identified Norstar user.
- **L001:LINENAM VMSG NEXT CALL CLEAR**: You are viewing your message list. The display shows the number and name of the line that was used for your voice mail message.
- **Message denied**: You have tried to send a message to an invalid internal number or to a telephone that is out of service.
- **Message list SHOW ADD EXIT**: SHOW appears only if you have outstanding messages. Press SHOW to review messages you have sent. Press ADD to send a new message.
- **Message to:** Enter the internal number of the telephone to which you want to send a message.
- **Messages & Calls MSG CALLS**: You have one or more messages and one or more new Call Logs. Press 6 0 8 to change the first line of the display to the current time and date.
<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No button free</td>
<td>You have no line button free with which to reply to a message.</td>
</tr>
<tr>
<td>No number stored</td>
<td>There has been no number programmed for the voice message center. Contact your voice messaging service provider.</td>
</tr>
<tr>
<td>Start of list</td>
<td>You are at the beginning of your list of messages. Press <strong>NEXT</strong> to move through your messages.</td>
</tr>
<tr>
<td>NEXT</td>
<td></td>
</tr>
<tr>
<td>Their list full</td>
<td>You are trying to send a message to a user whose message waiting list is full.</td>
</tr>
<tr>
<td>Your list full</td>
<td>You have tried to send a message but list of sent messages on your set is full. Cancel one of the messages you have sent, if possible, or wait until you have received a reply to one of those messages.</td>
</tr>
</tbody>
</table>

For other displays, see *Common feature displays* on page 249.
Using Voice Call

Use this feature to make an announcement or begin a conversation through the speaker of another telephone in the system.

**Tip** - Hunt Groups cannot accept voice calls. Answer buttons have no appearances for voice calls, and the telephone does not ring for voice calls. For more information about Hunt Groups, see Programming Hunt Groups on page 165. For more information about Answer buttons, see Answer DNs and Answer keys on page 60.

Muting Voice Call tones

When a voice call begins at your telephone, you hear a beep every 15 seconds as a reminder that the microphone is on. To stop it from beeping, pick up the receiver or press the mute button.

Answering a Voice Call with handsfree

If handsfree answerback is assigned to your telephone, you can respond to a voice call without touching the telephone.

Handsfree answerback is not available to the 7000 and 7100 digital phones, analog telephones, or the Digital Mobility phones. On these telephones, all voice calls are received as ringing calls.

When someone makes a voice call to you, simply start talking. Your telephone microphone picks up your voice.

Once you have answered a voice call, you can put it on hold, transfer it, or otherwise treat it as a normal call.
Blocking Voice Calls using Voice Call Deny

Use this feature to prevent voice calls to your set. The result is that Voice calls ring like regular internal calls. Your other calls proceed normally.

Canceling Voice Call Deny

Press \[ 8 \] # \[ 8 \].

Displays

<table>
<thead>
<tr>
<th>Dial voice call</th>
<th>Dial the internal number or press the internal autodial button of the person to whom you want to speak.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone muted</td>
<td>Your handsfree microphone is muted. Press the mute button or pick up your receiver to respond to the voice call.</td>
</tr>
<tr>
<td>Voice call</td>
<td>The line is open for you to speak.</td>
</tr>
<tr>
<td>No voice call</td>
<td>The telephone receiving the call cannot accept voice calls for one of the following reasons:</td>
</tr>
<tr>
<td></td>
<td>• it is active or ringing with another call</td>
</tr>
<tr>
<td></td>
<td>• Call Forward is turned on</td>
</tr>
<tr>
<td></td>
<td>• Do Not Disturb is turned on</td>
</tr>
<tr>
<td></td>
<td>• Voice Call Deny is turned on</td>
</tr>
<tr>
<td></td>
<td>• it is not a Norstar telephone.</td>
</tr>
<tr>
<td></td>
<td>Your call proceeds automatically as a regular ringing call.</td>
</tr>
</tbody>
</table>
Tracking your incoming calls

Using Call Log

Telephones can be programmed to automatically log Call Display information for calls on an external line. The line must appear on that telephone but it does not have to be a ringing line.

Alternatively, telephones can be programmed to log all calls coming into a telephone. This includes calls arriving on an Answer DN or through Call Forward. This option fills up the log space quickly, so it is recommended that you have autobumping activated on the telephone. Refer to Enabling and disabling autobumping on page 139.

The system administrator determines which type of logging the system will use, and which telephones will log calls or which lines on specific telephones log calls.

WARNING: If the method of call log programming is changed on a configured system, all existing logs will be deleted.

If your system is equipped with the appropriate equipment, and you have subscribed to the call information feature supplied by your service provider, you are able to capture information about incoming callers in your call log. The same feature is supplied by an ISDN service package that comes with calling line identification (CLID).
For each call, the call log record can contain:

- sequence number in the Call Log
- name and number of the caller
- indication if the call was long distance
- indication if the call was answered, and identify who answered it
- time and date of the call
- number of repeated calls from the same source
- name of the line that the call came in on

Call Log can help you to

- keep track of abandoned or unanswered calls
- track patterns for your callers, for example, volume of calls and geographical location of calls
- record caller information quickly and accurately
- build a personal telephone directory from log items

The long distance indicator and the name and number of the call may not be shown in the log. This information depends on the Call Display services provided by your local telephone company and the local telephone company of the caller.

To use the features on the following pages, your telephone must have spaces available in its Call log. Your installer or customer service representative programs each telephone with an appropriate number of spaces.
Call Log options

With this feature, you can select the type of calls to be stored in your Call Log. Choose from four Autolog options: No one answered, Unanswered by me, Log all calls, No autologging.

1. Press \( \text{**84} \). The display shows the current option.
2. Press \( \text{#} \) or NEXT to change the option.
3. Press \( \text{8} \) or OK to select the display option.

Logging a call manually

If your calls are not automatically logged, you can manually log call information when you are connected to an external call. Storing information for your current call can be helpful in many situations.

For example, you may want to
• record caller information without using paper and pencil
• record only selected calls of your choice, rather than relying on the automatic Call Log
• quickly record caller information before a caller hangs up

Enabling and disabling autobumping

Your log has a set number of items that it can hold. When it becomes full, new calls cannot be logged. When your log is full, Autobumping automatically deletes the oldest Call Log item when a new call is logged.

Press \( \text{815} \) to enable autobumping.

Press \( \text{815} \) to disable autobumping.
Viewing your Call Log

To view your log:

1. Press 6 8 1 2 . The display shows the number or previously read items (old) and the number of new, unread items (new) in the log.

2. Press * or OLD to view old items.
   Press # or NEW to view new items.
   Press 0 or RESUME to display the last item you viewed, the last time you viewed your Call Log.

Names and numbers for external callers are displayed only if you have subscribed to Call Display services from your local telephone company.

Viewing a Call Log item

Press ← or MORE to view the information for a call log item.

Erasing log items

You should routinely erase log items to make space for new items in your log.

1. Display the item you want to erase.

2. Press or ERASE.

3. Press to exit.

If you accidentally erase an item, you can retrieve it.

1. Press or UNDO immediately.

2. Press to exit.
Making a call using Call Log

You may find it helpful to place calls from within your Call Log. The number stored for each call may vary, depending on the type of call. For example, if the call was placed from a Centrex or PBX system, the first few numbers may need to be trimmed before you can make the call. If the number you want to call is long distance, or if you want to use a line pool, you may need to add numbers.

To place a call from a call log:

1. Display the log item for the call you want to place.
2. Display the associated telephone number.
3. Press 

   or TRIM, once for every digit that you want to remove.
4. Dial any extra digits required.
5. Press an external line or line pool button.
6. Lift the receiver. (This is not necessary if handsfree is programmed at your telephone.) The displayed number is dialed.

Creating a password to your Call Log

To access your Call Log through a password:

1. Press 085. The display reads New password.
2. Enter your four-digit password.
   The display reads Repeat New.
3. Re-enter your four-digit password. The display reads Password changed, which confirms that your password has been assigned.
To enter Call Log using your password:

1. Press 812 to enter Call Log. If you have programmed a password, the display reads Password:

2. Enter your four-digit password.

If you forget your Call Log password, it can be deleted in programming. See Using passwords on page 217.

**Changing your Call Log password**

Use this procedure when you want to change the Call Log password for your telephone.

1. Press 85. The display reads Old Passwrd:

2. Enter your old password.
   The display reads New Passwrd:

3. Enter your new four-digit password.
   The display reads Repeat New:

4. Re-enter your password.
   The display reads Password changed, which confirms that your password has been changed.

**Deleting an assigned password**

Use this procedure when you want to delete an assigned password.

1. Press 85. The display reads Old Passwrd:

2. Enter your old password.

3. The display reads New Passwrd:

4. Press or OK.
   The display reads No pswd assigned, which confirms that your password has been deleted.
Displays

1: Unknown name

The caller name is unavailable.

1: Unknown number

The caller number is unavailable.

12: KATE SMITH

_ indicates a new item.

12: KATE SMITH

¯ indicates that the call was answered.

12: KATE SMITH

§ indicates a long distance call.

49/1234567890123

✓ indicates that the stored number has been shortened to its final 11 digits. Press or MORE to display additional information about the call.

Call(s) bumped

One or more log entries have been deleted by the Autobumping feature while you are looking at the Call Log.

Hold or release

Hold or release your active call before entering Call Log.

In use: SETNAME

The external line is in use.

Jan 4 9:00a 3X

The repeat call counter, shown along with time and date, indicates the number of calls you received from the same caller.

Line001 227

This call was answered at another telephone (227).

Line001 Logit

This call was logged manually.

Line001

This call was not answered.
Using external Voice mail

If you subscribe to a voice message service outside your office, you can access that service through your Norstar system. Your installer or customer service representative programs your Norstar telephone to indicate when you have a voice message waiting on a particular line.

To find out if your external voice message service works with Norstar, or if you have any problems with your service, contact your voice message service provider.
Customizing your telephone

Finding out what a button does using Button Inquiry

You can use this feature to check the function of any line, intercom, or programmed button on your telephone.

On the 7000 and 7100 digital phones, Button Inquiry shows the internal number of the telephone, followed by the function assigned to the memory button.

On Digital Mobility phones, this command displays the internal number of the telephone.

Displays

001 <LINENAME>
SHOW OK

The display shows the number and name of the line. Press SHOW to view the redirection status of the line.

123456789012345...
VIEW+ OK

Press # or press VIEW+ or <VIEW+ to view a number that is too long to fit on the display. Press VIEW+ or OK when you are done.

221 <SETNAME>
NEXT VIEW+

The display shows the directory number of the telephone, and the assigned name. Press NEXT to see the first line assigned to ring at the intercom button.

<Feature name>
SHOW OK

The name of the feature assigned to a button is displayed when you press the button. Press # or SHOW for additional information.

Press a button
EXIT

Press the button you want to check. Press # or EXIT when you are finished.
For other displays, see *Common feature displays* on page 249.

**Changing the set display contrast**

Use this feature to adjust the contrast of system digital telephones.

1. Press <code>ि*7</code>.
2. Press a number on the dialpad to choose the contrast level you prefer.

On a two-line telephone, you can use the **UP** and **DOWN** display buttons to adjust the contrast. The number of contrast levels available varies from one telephone model to another.

**Changing the language on the display**

You can select the language used on the display of each set. The languages supported depends on which Profile was installed on your system at Startup.

English is the default first language.

Refer to the *Modular ICS 7.0 Installer Guide* for a list of languages supported by each profile. Check the programming guide to determine which Profile was assigned to your system.

You can program <code>ि*501</code>, the first language code, onto a memory button. If you want subsequent languages to display, you can keep pressing the button until the language code you want appears on the display.

You cannot program <code>ि*502</code> or <code>ि*503</code> onto a memory button.
Programming a feature code onto a memory button

You can program a feature code onto a memory button. In some cases, pressing the button a second time cancels the feature.

Programming feature buttons

Any memory button not programmed as an external or internal line, target line, Answer button, or handsfree/mute button, is available for features.

1. Press \( \text{\#} \text{\#} \text{\#} \text{\#} \).
2. Press the memory button you want to program with a feature.
3. Enter the appropriate feature code you want to assign onto the button.

The following feature codes cannot be programmed onto a memory button: Long Tones and any code beginning with \( \text{\#} \) except \( \text{\#} \text{\#} \text{\#} \text{\#} \text{\#} \text{\#} \text{\#} \text{\#} \) (Language Choice) and \( \text{\#} \text{\#} \text{\#} \text{\#} \) (Contrast Adjustment).

**Tip** - When you program a button with the line pool feature code, you must enter a line pool access code after the feature code. The programmed line pool button accesses a specific line pool, not the line pool feature.

Erasing a feature button

1. Press \( \text{\#} \text{\#} \text{\#} \).
2. Press the feature button.
3. Press \( \text{\#} \) or \( \text{\#} \) to erase the button.
### Displays

<table>
<thead>
<tr>
<th>Feature name</th>
<th>SHOW</th>
<th>OK</th>
</tr>
</thead>
</table>

The name of the feature assigned to a button is displayed when you press the button. **SHOW** appears when there is more information available. Press [#] or **SHOW** for additional information.

- **Enter code:**
  - If you are checking a speed dial button, enter the three-digit speed dial code that you want to check.
  - Enter the feature code, or press [QUIT] or [CLEAR] to quit programming or [CLEAR] to clear the numbers you have entered. The system accepts the entry as soon as you enter a valid feature code.

- **Feature code:**
  - Press [QUIT] and enter the feature code you want to assign to the button. You cannot enter invalid codes.

- **Feature moved**
  - You programmed a button with a feature that was already programmed onto another button. The feature has moved to the button you just programmed. Its original button is now blank.

- **Press a button**
  - Press the button you want to check. Press [QUIT] or [EXIT] when you are finished.

- **Program and HOLD**
  - Enter the number you want to program and press [HOLD]. To erase the button, just press [HOLD].

- **Program and OK**
  - Enter the number you want to program and press [OK]. To erase the button, just press [OK] or [OK].

For other displays, see *Common feature displays* on page 249.
Labeling your set

The Digital phones have label strips that come with each telephone. You can print the label for each button on your telephone and install the strip beside the buttons. This section suggests the process for setting up the labelling for your set.

Applying button labelling

Before you apply button labels, use the Button Inquiry feature (menu) to verify the button functions. For more information refer to Finding out what a button does using Button Inquiry on page 145.

Digital phones

The Digital phones telephones are labelled beside the buttons. You can use the Desktop Assistant utility to make changes and print a new label card. Your system administrator can access this application from the system CD or it can be downloaded from www.nortelnetworks.com.

7316 digital phone button label locations

![Button labels](image-url)
Default button assignments

During Startup, the Norstar installer chooses one of the available templates. Default features are assigned automatically to the programmable buttons on installed sets. These defaults vary depending on the template you choose, and the style of telephone. The Programming Record also contains a list of default settings.

The default features are listed below.

Tips - Please consult your customer service representative to determine the type of template programmed into your system. Not all templates are available in all software loads.

7316E button defaults

Refer to your Programming Records to identify the current button programming for each telephone or group of telephones.

7316E
Line numbering starts on button 09 (default line assignments occur for DID, Hybrid and Square templates).

### 7316E digital phone upper buttons

<table>
<thead>
<tr>
<th>Upper left buttons</th>
<th>PBX</th>
<th>DID</th>
<th>Hybrid</th>
<th>Square</th>
<th>Centrex</th>
<th>Btn #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>01</td>
</tr>
<tr>
<td>Show time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>02</td>
</tr>
<tr>
<td>Privacy</td>
<td></td>
<td></td>
<td></td>
<td>(blank)</td>
<td></td>
<td>03</td>
</tr>
<tr>
<td>(blank)</td>
<td></td>
<td></td>
<td>(blank)</td>
<td></td>
<td></td>
<td>04</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upper right buttons</th>
<th>Btn #</th>
<th>PBX</th>
<th>DID</th>
<th>Hybrid</th>
<th>Square</th>
<th>Centrex</th>
</tr>
</thead>
<tbody>
<tr>
<td>(blank)</td>
<td>05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saved No.</td>
</tr>
<tr>
<td>(blank)</td>
<td>06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sys Park</td>
</tr>
<tr>
<td></td>
<td>07</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Send Msg.</td>
</tr>
<tr>
<td></td>
<td>08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Speed dial</td>
</tr>
</tbody>
</table>

### 7316E digital phone lower buttons

<table>
<thead>
<tr>
<th>Lower left buttons</th>
<th>PBX</th>
<th>DID</th>
<th>Hybrid</th>
<th>Square</th>
<th>Centrex</th>
<th>Btn #</th>
<th>All templates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sys Park</td>
<td></td>
<td>Line &lt;XXX&gt;</td>
<td>(blank)</td>
<td>09</td>
<td></td>
<td>17</td>
<td>Call Timer</td>
</tr>
<tr>
<td>Saved No.</td>
<td></td>
<td>Line Pool</td>
<td>Line &lt;XXX&gt;</td>
<td>10</td>
<td></td>
<td>18</td>
<td>Ring Again</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Call Fwrd</td>
<td></td>
<td></td>
<td>19</td>
<td>DND</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pickup</td>
<td>Page</td>
<td>11</td>
<td></td>
<td>20</td>
<td>Conf/Trans</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Page</td>
<td>Transfer</td>
<td>12</td>
<td></td>
<td>21</td>
<td>Last No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transfer</td>
<td>Time/Date</td>
<td>13</td>
<td></td>
<td>22</td>
<td>Voice Call</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Time/Date</td>
<td>Leave msg</td>
<td>14</td>
<td></td>
<td>23</td>
<td>Intercom</td>
</tr>
<tr>
<td>Receive msg</td>
<td></td>
<td></td>
<td>Flash</td>
<td>15</td>
<td></td>
<td>24</td>
<td>Intercom</td>
</tr>
</tbody>
</table>

Note that this telephone has a separate handsfree button under the dial pad, therefore, the intercom buttons start on the first button at the bottom of the lower, right column of memory buttons.
Also note that the current incoming call on this telephone defaults to the voice path last used. For example, if you answered the previous call using your headset, the next call will come in over your headset.

**Upgrade programming note:**

The 7316E digital phone uses 7316 programming when connected to systems running software prior to MICS 6.1. When those systems are upgraded to MICS 6.1 or newer software, the telephone converts to 7316E programming, which means that all assigned memory buttons are erased. As well, the line assignments, Answer DN assignments, and intercom buttons change to the 7316E default positions. Refer to the default assignments for both telephones.

### 7316 digital phone button defaults

The default button assignments for the 7316 digital phone depend on the template applied.

Note the button numbering for some of buttons of this telephone are not consecutive. This is because the buttons are mapped to a legacy telephone that had a second level of memory buttons on the top pad. However, since there is no second level to the memory buttons on the 7316, the button numbers only reflect the lower level. In Button programming, however, the absent button numbers appear, but they are not valid programming for this telephone.
These examples show defaults for a system with three-digit internal numbers. The defaults do not actually exist on any telephone, as no telephone has an autodial button for itself. The position that would be taken by the autodial button for itself is blank.

### 7316 digital phone upper buttons (all templates)

<table>
<thead>
<tr>
<th>Btn #</th>
<th>Left buttons</th>
<th>Btn #</th>
<th>Right buttons</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Set: 227</td>
<td>31</td>
<td>Set: 231</td>
</tr>
<tr>
<td>25</td>
<td>Set: 228</td>
<td>33</td>
<td>Set: 232</td>
</tr>
<tr>
<td>27</td>
<td>Set: 229</td>
<td>24</td>
<td>Set: 239</td>
</tr>
<tr>
<td>29</td>
<td>Set: 230</td>
<td>26</td>
<td>Set: 240</td>
</tr>
</tbody>
</table>

### 7316 digital phone lower buttons

<table>
<thead>
<tr>
<th>PBX</th>
<th>DID</th>
<th>Square</th>
<th>Hybrid</th>
<th>Centrex</th>
<th>Btn #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Set: 221</td>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set: 222</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set: 223</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBX</td>
<td>DND</td>
<td>Line &lt;XXX&gt;</td>
<td>01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PBX</td>
<td>Transfer</td>
<td>Line &lt;XXX&gt;</td>
<td>Line Pool</td>
<td>Transfer</td>
<td>02</td>
</tr>
<tr>
<td>PBX</td>
<td>Call Fwd</td>
<td></td>
<td></td>
<td></td>
<td>03</td>
</tr>
<tr>
<td>PBX</td>
<td>Pickup</td>
<td></td>
<td></td>
<td></td>
<td>04</td>
</tr>
<tr>
<td>PBX</td>
<td>Page</td>
<td></td>
<td></td>
<td></td>
<td>05</td>
</tr>
<tr>
<td>PBX</td>
<td>Link</td>
<td></td>
<td></td>
<td></td>
<td>06</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Btn #</th>
<th>Lower right</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Set: 224</td>
</tr>
<tr>
<td>19</td>
<td>Set: 225</td>
</tr>
<tr>
<td>21</td>
<td>Set 226</td>
</tr>
<tr>
<td>06</td>
<td>Conf/Trans</td>
</tr>
<tr>
<td>07</td>
<td>Last No.</td>
</tr>
<tr>
<td>08</td>
<td>Voice Call</td>
</tr>
<tr>
<td>09</td>
<td>Intercom</td>
</tr>
<tr>
<td>10</td>
<td>Intercom</td>
</tr>
</tbody>
</table>
7208 button defaults

The default button assignments for the 7208 digital phones are the same, depending on which template was applied.

### 7208 button defaults

<table>
<thead>
<tr>
<th>Btn. #</th>
<th>PBX</th>
<th>DID</th>
<th>Square</th>
<th>Hybrid</th>
<th>Centrex</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Pick up</td>
<td></td>
<td>Line &lt;XXX&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>Transfer</td>
<td>Line &lt;XXX&gt;</td>
<td>Line pool</td>
<td>Transfer</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td></td>
<td></td>
<td>Last No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Page</td>
<td></td>
<td></td>
<td>Link</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td></td>
<td></td>
<td>Conf/Trans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06</td>
<td></td>
<td></td>
<td>Speed dial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>07</td>
<td></td>
<td></td>
<td>Intercom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td></td>
<td></td>
<td>Intercom</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tips** - *The default Page button activates the External Page option (62)*.

### 7100 digital phone button defaults

For all templates, the one programmable button on the 7100 digital phones is defaulted to Last Number redial.
Rules of default button assignment

- Line and intercom buttons are assigned by default templates and can be changed in programming.
- Handsfree and answer DN buttons are not assigned by default. If these features are defined, they are automatically assigned to specific buttons, starting with the bottom, right column.
- The handsfree/mute feature appears on the bottom right-hand button on the legacy Norstar telephones, if the feature can be used by the telephones. When handsfree is assigned, the intercom button(s) move up one position. The 7208, 7316 and 7316E have a separate mute button, which is located under the numeric dialpad, beneath the volume rocker button. The 7316E digital phone also has a separate handsfree button, located beside the mute button. However, this button only works if the telephone is connected to a system that is running MICS 6.1 or newer software.
- Each telephone can have up to eight answer DN buttons. They are assigned to buttons above assigned intercom buttons, continuing up the button column, replacing the features on those buttons. On the 7208 digital phones, answer DN buttons appear above the intercom buttons and below external line buttons, in a single column. On the 7000 and 7100 digital phones and the Digital Mobility phones, answer DNs do not have line appearances, so they must be set to ring-only.
- External line buttons appear starting at the top button in the left column, moving down the row of buttons. Telephones with two rows of memory buttons allow line assignments to continue from the top of the right column of buttons when the left column of buttons are all assigned. Line buttons have priority over feature access buttons but cannot replace handsfree, intercom, or answer DN buttons.
The 7316 starts lines at button 01, which is the fourth button down, on the left side of the lower button set. The 7316E starts line numbering at button 09, which is the left top corner of the lower button set. Refer to the default charts for specific button placement for the telephones.

Moving line buttons

You can move external lines, hunt group appearances, and target line appearances to different buttons on your telephone, to arrange your lines in the way that makes the most sense to you. If you have an eCAP, you cannot move intercom or Answer DN assignments onto the module, but you can move your lines and Hunt group appearances over to the modules. If you have a 7316E+eKIM eCAP, you can move lines, target line appearances, and hunt group appearances over to the KIM.

Note: The 7000 and 7100 digital phones and Digital Mobility phones do not have buttons with indicators, therefore this feature is not valid for those telephones.

1. Press 4 * 8 1.
2. Press the button you want to move the line from.
3. Press the button you want to move the line to.

Displays

<table>
<thead>
<tr>
<th>Exchanged</th>
<th>The two buttons you selected have exchanged position.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invalid location</td>
<td>You have tried to move a line to a button that cannot be used as a line button, such as an intercom button, handsfree/mute button, or an answer button.</td>
</tr>
</tbody>
</table>
Changing the type of ring

You can choose one of four distinctive rings for your telephone. This makes it easier to identify your telephone in an open office.

2. Press 1, 2, 3, 4, or NEXT. You hear the selected ring for two seconds.
3. Repeat until you hear the ring you prefer, then press or OK.

TIP - The Digital Mobility phone has access to a number of ring patterns, but these are controlled by the handset. This setting does not affect the handset.
Adjusting the Ring volume

Use this feature to adjust the ring volume.

1. Press \[\text{#} \, * \, 8 \, 0\]. The telephone rings.
2. Press \[\text{#} \, * \, #\] to adjust the volume; left end for lower and right end for higher.

**TIP** - The Digital Mobility phone has a volume adjustment, but it is controlled by the handset. This setting does not affect the handset.

Hiding the message or calls indication

The display that shows you have messages or calls can be replaced with the current time and date. You can retrieve your message and call information by using the display buttons that appear on the second line of the display. If you are using a telephone with a single-line display, the message or call indication is hidden.

1. Press \[\text{#} \, 8 \, 0 \, 6\]. The current time and date appears on the top line of the display.
2. Press MSG or \[\text{#} \, 6 \, 5\] to see your messages, or press CALLS or \[\text{#} \, 8 \, 1 \, 2\] to see your calls.

Restoring the messages and calls indication

Press \[\text{#} \, # \, 8 \, 0 \, 6\].


User Preferences

The User Preferences section of programming allows you to program memory buttons, speed dial codes and other settings for any system digital telephone.

For example, an employee may want to have the Do Not Disturb feature programmed onto a memory button or create a speed dial code. Instead of programming from the each specific set, you can go into programming on the telephone nearest you to make the change.

Using User Preferences

1. Press \[ \text{[ ]} \times \times \text{ USER} (\text{[ ]} \times \times 8 7 3 7 ) \].
2. Enter the Basic password (the default passwords is \[ 2 2 7 4 2 \]). (Note: You can also use the Coordinator password to change User preferences.

By using a Basic password, it is possible to have someone else do day-to-day upkeep of the telephone programming without giving out access to sensitive programming. See Using passwords on page 217.

After you enter the proper password, the display shows you the telephone with the lowest internal number followed by its name (For example, \[ 221\text{Reception} \]).

1. Press \[ \text{Next} \] to move through all the telephones on the system.
2. Press \[ \text{Show} \] when you see the telephone you want to change. The display reads the model number of the telephone at the extension.
The display shows Connect set if no telephone is connected at that internal number. You cannot make changes if the model is Other.

3. Press Next to move through all the subheadings in User Preferences.

User Preferences programming is available under the heading Terminals&Sets.

**Changing button programming**

1. Press Show at Button programming. The display shows the number of buttons on the telephone. An example is shown in Displays at the end of this section. If the telephone has a KIM module, you can press KIM1 to see the buttons on the module.

2. Press Next to move through all the buttons on the telephone. Refer to Default button assignments on page 150 for button number mapping for each type telephone.

3. Use the display buttons to change the programming for a button.

**The display buttons used in button programming.**

- **CANCEL** Moves you out of a setting without making any changes to it.
- **CLR** Erases the button.
- **TEL#** Programs the button as an autodial number for an internal or an external number. If it is an external autodial number, you must choose a line, line pool, or the routing table for the call to use.
- **CHANGE** Used when you are setting up an external autodial number. Press CHANGE until you see the type of line or pool you want the number to use.
- **FEATR** Press to store a feature code on the button.
User Preferences / 161

**FIND**
Locates a specific button on a telephone by entering its number. Button numbers are shown in the illustrations.

**LIST**
Takes you to a list of feature codes. Press `Next` to move through the list and press `OK` when you see the feature you want to program on the button.

Note: User Preferences programming cannot change the buttons that are used by lines, intercom, and the handsfree feature, which are assigned by the system administrator. Refer to the *Modular ICS 7.0 Installer Guide* for details.

**Changing User Speed Dial**

1. Press `Show` at **User Speed Dial**. The display shows the number of speed dial codes that are available.

2. Press `Next` to see the first speed dial code (256).

3. Press `Next` to move through all the speed dial codes.

4. Press `Show` to find the code you want to change.

5. Press **CHANGE** and enter the telephone number the same way you would dial it on the telephone.

6. Press `OK`.

7. Press `Next` and choose the line (or enter a code for a line pool) the speed dial code should use.

Use the line pool code to select a particular line pool for use with Speed Dial. If you select **Use routing tbl**, a line or pool is chosen by the routing programming according to the initial digits in the number.

The route you choose for a User Speed Dial code must be one that the telephone can use. For example, if the telephone does not have access to Line Pool B and you use that pool code with the speed dial code, the code does not work. Lines and line pools are assigned to the telephones by the system.
administrator. Refer to the *Modular ICS 7.0 Installer Guide* for details.

To change a system speed dial code, see *Adding or changing a system speed dial* on page 29.

**Changing Call Log options**

1. Press [Show] at Call log opt’ns....
2. Press [CHANGE] until you see the option you want to use. See *Call Log options* on page 139.

**Changing how calls are dialed**

1. Press [Show] at Dialing opt’ns....
2. Press [CHANGE] until you see the option you want to use.

Descriptions for dialing options are found on the *Telephone Feature Card*, or see *Changing how you dial your calls* on page 80.

**Changing the language used on the display**

Press [CHANGE] at Language: until you see the language you want to use. See *Changing the language on the display* on page 146.

**Making the display lighter or darker**

Press [CHANGE] at Display cntrst until you see the value you want to use.

The display contrast on the telephone you are using for the programming session does not change when you are programming another telephone.
Changing the ring type

At **Ring type:** press **CHANGE** until you see the option you want to use.

Descriptions for ringing options are found on the *Telephone Feature Card* or in *Changing the type of ring* on page 157.

Displays

- **10+24 buttons**
  - FIND
  - There are 10 memory buttons and 12 dual memory buttons on the telephone you are viewing. Press **Next** to begin looking at what is on each button.

- **B01:L06:Line 001**
  - FIND
  - A line appears on the button. You cannot store a feature or number on it.

- **B02:#Reply Msg...**
  - CLR  TEL#  FEATR
  - A feature is stored on this button. Press **Show** to see the feature code. A full list of names and codes for features is included in the index.

- **Code:F#65...**
  - CLR  TEL#  FEATR
  - Shows the feature code stored on a button. Press **Show** to see the button number and feature name.

- **B03:160455512...**
  - CLR  TEL#  FEATR
  - The button has a telephone number stored on it. Press **Show** to see the rest of the number.

- **Externl tel #...**
  - CLR  TEL#  FEATR
  - The autodial is an external number. Press **Show** to see what line or pool the call is programmed to go out on.

- **Internl tel #...**
  - CLR  TEL#  FEATR
  - The autodial is an internal number. Press **Show** to see more information.

- **B04:Intercom...**
  - FIND
  - The button is used for intercom. Press **Show** to see more information about the button. You cannot store a feature or number on it.

- **B05:Ansr 93**
  - FIND
  - The button is used for an Answer DN. You cannot store a feature or number on it.
Either nothing is stored on the button or you have just cleared the button by pressing CLR.

The button is occupied by the handsfree feature. You cannot store a feature or number on it.

For other displays, see Common feature displays on page 249.
Programming Hunt Groups

The Hunt Groups feature allows a group of system telephones to be called by a single directory number ensuring that calls are easily routed to the appropriate group.

The Incoming Line Group (ILG) functionality is now accomplished through the Hunt Group feature. When upgrading from a pre-Modular ICS 4.0 system to a Modular ICS 7.0 system, any lines previously belonging to an ILG are not automatically converted to broadcast Hunt Groups. You must go in and program them to the new feature. Please refer to Assigning or unassigning lines to a group on page 169.

Hunt Groups are used in situations where a group of people performing the same task are required to answer a number of related phone queries. Some typical uses of Hunt Groups are:

- a sales department answering questions on product prices or availability
- a support department answering questions concerning the operation of a product
- an emergency department answering calls for help.

Hunt Groups can be used to route calls to a support service such as a Help Line for a software company. Specialists dealing with Product A can be in one group, and specialists dealing with Product B can be in another group. Incoming calls hunt for the next available telephone in the group. If no telephone is available, the call can be placed in a queue or routed to telephone designated as the overflow set.
The Hunt Groups subheading in system programming is the area where programming changes are made to the following:

- members of a group
- member position in a group
- what lines are assigned to a group
- how incoming calls are distributed
- how long the system looks for available members
- where a call goes if all members are busy

Note: Videophones should not be programmed as members of a Hunt Group. Hunt Groups allow one B channel connection at a time and videophones use two B channels.

Features affected by Hunt Groups include:

- Call Forward All Calls
- Call Forward No Answer
- Call Forward on Busy
- Group Pickup
- Transfer via Hold
- Priority Call
- Line Redirection
- Page Zones
- Voice Call
Adding or removing members from a group

A DN for a telephone can be associated as a member of a Hunt Group, and is called a member DN.

Members of the group can be any Norstar or Business Series Terminal telephone, ISDN terminal, or portables. A telephone can be in more than one Hunt Group but is considered a member in each Hunt Group, increasing the total number of members in the system.

There can be only one appearance of the Hunt Group on a telephone, no matter how many lines are assigned to the group.

Hunt Group DNs cannot be members of other Hunt Groups.

Consult your customer service representative to determine your Hunt Group number range.

1. Place the appropriate programming overlay on your programming set.

2. Press [6 * * 2 6 6 3 4 4] (CONFIG). The display shows Password.


4. The display shows Terminals&Sets.

5. Press [Next] until the display shows System prgrmng.

6. Press [Show]. The display shows Hunt Groups.

7. Press [Show]. The display shows Show group.

8. Enter the Hunt Group number you want to program (1-30) or press [Next] to scroll through the groups.
9. Press Show. The display shows Member DNs.

10. Press Show. The display shows the first group member, if there are members.

11. Press ADD and enter a telephone DN to add a member to the group. Press REMOVE to remove a member from the group. Press Next to move through the list.

12. Press to exit or Next to continue programming.

**Moving members of a group**

Member order within a Hunt Group is important. The member order determines how a call is routed through a Hunt Group.

1. At Hunt groups, press Show. The display shows Show group.

2. Enter the Hunt Group number you want to program (1-30) or press Next to scroll through the groups.

3. Press Show. The display shows Member DNs:

4. Press Show. The display shows the members for that group.

5. Press MOVE to move an existing member to another place within the Hunt Group. The display shows the member number followed by an arrow.

6. Enter the new position number for the extension.

7. Press to exit.
Assigning or unassigning lines to a group

You can assign one or several lines to a hunt group.

Hunt group line notes:

- Configure the prime set for a Hunt Group line to None to avoid delayed ring transfer of external Hunt Group calls to the prime set before the Hunt Group can receive the call.
- A line can be assigned to only one group.
- Do not assign any hunt group lines to individual telephones. If any of the telephones that are part of the hunt group have the line assigned, remove the line from the telephone before assigning it to the hunt group.

1. At Hunt Groups, press Show. The display shows Show group.

2. Enter the Hunt Group number you want to program (1-30) or press Next to scroll through the groups.

3. Press Show. The display shows Member DNs:

4. Press Next. The display shows Line assignment.

5. Press Show. The display shows Show line:

6. Enter the line number you want to program or press SCAN to go to the first line assigned to this group, or press LIST to go to the first line in the system.

7. Press CHANGE to program the line as Unassigned or Assigned.

   *HGnn* means the line is assigned to another Hunt Group.

8. Press to exit or Next to continue programming.
Setting the distribution mode

There are three modes of call distribution:

- **Broadcast**—rings each telephone in the group simultaneously. Calls are handled one at a time, while succeeding calls are queued. As soon as a call is picked up, the call next in the queue is presented immediately to the group.

- In Broadcast mode, a single incoming call rings simultaneously at all the telephones in a group. This way, all receptionists in the group can share the load of answering large volumes of calls. All telephones automatically display the calling line identification (CLID), if available. A familiar example is a fund-raising campaign where a group of operators are waiting to take each call as it comes in.

- **Sequential**—starts the call at the first telephone in the Hunt Group. Distribution is complete when the first idle telephone is found. Simultaneous calls can be presented. Distribution is order based.

- In Sequential mode, you can program your top salesperson to be the first member of the group to receive calls.

- **Rotary**—the call starts at the telephone after the one which answered the last call. Distribution is complete when the next idle telephone has been found. Simultaneous calls can be presented. Distribution is order based.

- In Rotary mode, you can ensure that all your helpline people are receiving calls on an equal basis, rather than one person receiving the majority of calls. The call rings at one set at a time in a round robin fashion.
If a Hunt Group has available members but nobody answers the call, the call is rerouted through the list until someone answers the call. If all lines are busy, the call is routed according to whatever has been set for the busy line setting. Refer to ‘Programming busy line setting’ on page 172.

1. At Hunt Groups, press Show. The display shows Show group.
2. Enter the Hunt Group number you want to program (1-30) or press Next to scroll through the groups.
3. Press Show. The display shows Member DNs:.
4. Press Next until the display shows Mode.
5. Press CHANGE to set the mode: Broadcast, Sequential, Rotary.
6. Press to exit or Next to continue programming.

Setting the hunt delay

This setting allows you to program the number of rings the system permits at a Hunt Group telephone before moving on to the next telephone in the Hunt Group.

1. At Hunt Groups, press Show. The display shows Show group.
2. Enter the Hunt Group number you want to program (1-30) or press Next to scroll through the groups.
3. Press Show. The display shows Member DNs:.
4. Press Next until the display shows Hunt delay.
5. Press CHANGE to select the setting: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.
6. Press to exit or Next to continue programming.
Programming busy line setting

A Hunt Group is considered busy if one of two scenarios exists:

- all of its members are being presented an incoming Hunt Group call
- all of its members are active on a Hunt Group call

There are three routing options if all members are busy:

- **BusyTone**—the caller gets a busy tone (PRI lines only)
- **Overflow**—the call is routed to an overflow position. If the overflow DN is the hunt group DN for that same hunt group, the overflow option will not appear.
- **Queue**—the call stays in the system for a period of time. Within this period of time, the call is presented to an member if one becomes available. When the time-out occurs, the call is presented to an overflow position.

1. At Hunt groups, press Show. The display shows Show group.
2. Enter the Hunt Group number you want to program (1-30) or press Next to scroll through the groups.
3. Press Show. The display shows Member DNs:
4. Press Next until the display shows If busy:
5. Press CHANGE to set the mode: BusyTone, Overflow, Queue.
6. Press ® to exit or Next to continue programming.
Programming the queue time-out

This setting allows you to program the number of seconds a call remains in the Hunt Group queue before it is routed to the overflow position.

1. At Hunt Groups, press \textbf{Show}. The display shows Show Group.
2. Enter the Hunt Group number you want to program (1-30) or press \textbf{Next} to scroll through the groups.
3. Press \textbf{Show}. The display shows Member DNs:
4. Press \textbf{Next} until the display shows Q Timeout:
5. Press \textbf{CHANGE} to set the queue time-out: 15, 30, 45, 60, 120, 180.
6. Press \textbf{\textasciitilde} to exit or \textbf{Next} to continue programming.

Programming the overflow set

This setting allows you to program the overflow telephone to which the Hunt Group calls are to be routed. Unless the overflow position is a Hunt Group telephone, the call ceases to be a Hunt Group call. If the overflow telephone is a Hunt Group telephone, the call is treated as a new call and goes to the bottom of the queue.

The overflow telephone can be a DN number associated with a voice mailbox.

1. At Hunt Groups, press \textbf{Show}. The display shows Show Group.
2. Enter the Hunt Group number you want to program (1-30) or press \textbf{Next} to scroll through the groups.
3. Press \( \text{Show} \). The display shows \( \text{Member DNs:} \).
4. Press \( \text{Next} \) until the display shows \( \text{Overflow:} \).
5. Press \( \text{CHANGE} \) to change the overflow position.
6. Enter the new overflow position.
7. Press \( \text{t} \) to exit or \( \text{Next} \) to continue programming.

**Setting the name**

This setting allows you to program the Hunt Group name, such as Service or Sales. The name can be up to seven characters in length. This name becomes the CLID display name when the DN is called.

1. At \text{Hunt groups}, press \( \text{Show} \). The display shows \( \text{Show group} \).
2. Enter the Hunt Group number you want to program (1-30) or press \( \text{Next} \) to scroll through the groups.
3. Press \( \text{Show} \). The display shows \( \text{Member DNs:} \).
4. Press \( \text{Next} \) until the display shows \( \text{Name:} \).
5. Press \( \text{CHANGE} \).
6. Use the dialpad to enter the name of the Hunt Group.
7. Press \( \text{Next} \) to store the name.
8. Press \( \text{t} \) to exit or \( \text{Next} \) to continue programming.
Allowing/disallowing an auxiliary ringer

This setting allows you to allow/disallow an external ringer to sound when a call comes in for a specific hunt group. If you allow this service, you must have an auxiliary ringer properly installed on your system. Refer to Using an auxiliary ringer on page 226.

1. At Hunt Groups, press Show. The display shows Show group.
2. Enter the Hunt Group number you want to program (1-30) or press Next to scroll through the groups.
3. Press Show. The display shows Member DNs:
4. Press Next until the display shows Aux. Ringer:
5. Press CHANGE to choose Y (yes) to turn the ringer on or N (No) to disallow an auxiliary ringer.
6. Press ℃ to exit or Next to continue programming.

Assigning a distinctive ring pattern to a Hunt Group

You can assign distinctive ring patterns to your Hunt Group so that calls can be rated in priority for the group. These distinctive ring patterns have the same characteristics as for line and extension distinctive ring patterns.

Note: Digital Mobility phones that are members of hunt groups do not reflect this feature.

The Hunt Group distinctive ring pattern determines how a call will ring within the Hunt Group. If members of the group have ring patterns assigned to their telephones that are higher than the ring patterns of the incoming line or the Hunt Group, then
the Hunt Group will use the ring of the corresponding member telephones.

If the incoming call (line) has a higher ring pattern assigned than the Hunt Group, the Hunt Group will ring with the line ring pattern.

1. At Hunt groups, press [Show]. The display shows Show group.

2. Enter the Hunt Group number you want to program (1-30) or press [Next] to scroll through the groups.

3. Press [Show]. The display shows Member DNs:

4. Press [Next] until the display shows Distinct Ring:NONE.

5. Press CHANGE to toggle to the ring pattern number you want to assign to the Hunt group line. (None, 2, 3, 4)

6. Press [®] to exit or [Next] to continue programming.

**Using Silent Monitor**

When silent monitor is activated on your system, you can use your SM supervisor two-line display telephone to monitor Hunt group calls based on which DN you select to monitor.

**Note:** Digital Mobility phones cannot be used as a supervisor telephone for silent monitoring.

Refer to the *Modular ICS Installation Guide* for detailed information about the fields that make up this feature.

To start a session, on a silent monitor supervisor telephone:

1. Enter [6] * 5 5 0.

2. Type in the SM password (default: SILENT (745368))
3. Enter the DN of the hunt group telephone you want to monitor and press **OK**.

If that telephone is currently on a Hunt group call, you will be automatically connected to the call. If the telephone is idle or not on a hunt group call, you will be prompted to pick another DN to monitor.

**Tips -** Your telephone is muted by default at the beginning of any monitoring session. Press the mute button or the display key under **JOIN** to enter the conversation.

To end a session: Press **EXIT**, or press the display key under **OTHER** or **EXIT**.

While attempting to monitor a call, or during a call, you may get one of the following prompts:

- **OBSEVE RETRY OK**
  Enter the DN for the Hunt Group telephone that you want to monitor. If you make a mistake entering a DN number, press **RETRY** and re-enter the number. If the number you entered is correct, press **OK**.
  The system redisplays this prompt if it is unable to establish a session with the telephone DN that you enter.

While a call is being monitored, you can choose to:

- move to another Hunt group member (**OTHER**)
- join the current conversation (**JOIN**)
- exit the silent monitoring (**EXIT**)
When you join a monitored call, you can choose to:

- move to another Hunt group member (\textit{OTHER})
- mute your telephone out of the current conversation (this does not disconnect silent monitoring) (\textit{JOIN})
- exit the silent monitoring (\textit{EXIT})

You tried to start a monitoring session on a telephone that does not support the feature.

You entered the silent monitor feature code without picking up the handset, and the telephone does not support handsfree operation.

You entered the silent monitor feature code on a telephone that already has an active call. To continue, you will have to release it.

You entered your own DN.

The DN you entered is invalid for your system.

The DN you entered did not respond to the system.

The DN you entered is not a Hunt Group member.

The DN you entered belongs to another Supervisor. You cannot monitor SM supervisor telephones.

The DN you entered belongs to a portable telephone or an ISDN terminal.

The current call on the telephone you are monitoring is either not a Hunt Group call, or the call came in on a line button on that telephone.

Note: You should not assign lines which are assigned to the hunt group to individual hunt group members.
Feature notes

• You can only monitor external hunt group calls.
• You must release all calls on your supervisor telephone before you attempt to run a monitoring session.
• The DN you choose to monitor must be a designated member of a hunt group.
• The supervisor telephone can be part of a hunt group. Supervisor telephones cannot be monitored.
• If the hunt group call gets transferred, the session is dropped because the call is no longer a hunt group call.
• If any of the parties release the call, the monitoring session is dropped, and the supervisor will be prompted to pick another DN to monitor.
• To transfer a session to your handset when you start the monitoring session in handsfree mode, press the display key under OTHER and re-enter the DN, otherwise the session will continue on your telephone speaker.
• If your telephone is in Silent Monitor idle mode, and you press the intercom button, the monitoring session will terminate.
• You can monitor calls that are forwarded to a hunt group member.
• If the call is parked, attached to a SWCA button, put on Hold, or camped, Silent Monitor will drop the monitoring session and the supervisor will receive an indication that the hunt group telephone is now idle.
• If the current hunt group call is part of a conference call, it cannot be monitored.

No intercom button is currently available to support the feature.
• You can initiate a session on a Hunt group telephone with Do Not Disturb or Auto Privacy are active.

• Using a headset automatically defaults Silent Monitor to mute. This is the recommended way of using the Silent Monitor feature.

• Messages received by the supervisor during a silent monitoring session, will not provide an indication on the display.

• Attempting to initiate any feature buttons on the supervisor set, while a session is active, will terminate the silent monitoring session.

• A priority call or ring again call will be indicated on the display. The monitoring session will terminate if the call is accepted.

• If a line is assigned to both a ringing group and a hunt group, calls coming in over this line cannot be monitored.

• If a voice call coming into a supervisor telephone is accepted, any active monitoring session will be released.

• 7316 digital phones used as supervisor may experience problems using mute when joining or leaving a silent monitor session.

MCDN constraints: The attendant cannot break-in to a call which is being monitored. Trunk Anti-Tromboning (TAT) will not be applied to a call that is currently being monitored. If a call has already had TAT applied, the call cannot be monitored.
Using the Hospitality features

This section describes the Hospitality Services feature which is used to administer room and alarm services in small to medium-sized facilities such as hotels, motels, or hospitals.

There are three types of sets that make up this type of system:

**Common set**—this telephone can be found in the lobby, office, or common area, and is not associated with a room. This type of telephone is used for public access, and cannot access the admin or room features.

**Room set**—this telephone resides in a specific room and can be used by both guests and cleaning staff to set alarms or to indicate room condition. Up to five DNs can be assigned to the same room number, such as for fax lines, internet dial-up, etc.

**Administration set**—this telephone must be a two-line display telephone, and is usually configured with a password to allow secure administration of room occupancy and condition services and alarm services.

**Hospitality passwords**

There are two passwords within the hospitality feature. One provides secure access to the administration set, and one provides secure access to a room condition setting from each room set for housekeeping staff.
Desk pswd

Change this password frequently, to maintain security.

1. Place the appropriate programming overlay on the set you are using to do programming.

2. Press \( \text{CONFIG} \) (CONFIG). The display shows Password:

3. Press \( \text{ADMIN} \) (ADMIN). The display shows Terminals&Sets.

4. Press \( \text{Next} \) until the display shows Hospitality.

5. Press \( \text{Show} \). Desk pswd: displays. (default:4677)

6. Press \( \text{CHANGE} \). New pswd: displays

7. Enter a new password, then press OK.

Cond pswd

Change this password frequently, to maintain security.

1. Place the appropriate programming overlay on the set you are using to do programming.

2. Press \( \text{CONFIG} \) (CONFIG). The display shows Password:

3. Press \( \text{ADMIN} \) (ADMIN). The display shows Terminals&Sets.

4. Press \( \text{Next} \) until the display shows Hospitality.

5. Press \( \text{Show} \). Desk pswd: displays

6. Press \( \text{Next} \). Cond pswd:None displays.

7. Press \( \text{CHANGE} \). New pswd: displays

8. Enter a new password, then press OK.
Room/desk information

There are two aspects to programming room information.

- First you must program individual DNs to a specific room and set up the room occupancy filters, which determine what types of calls can be made from a room set at various states of occupancy.
  Note: You can assign up to five DNs to the same room number.
- Then you need to administer the room occupancy and state of the room.

Programming room information

Use this setting to assign set DNs to a specific room.

1. Place the appropriate programming overlay on the set you are using to do programming.
2. Press \( \text{CONFIG} \). The display shows Password:
3. Press \( \text{ADMIN} \). The display shows Terminals&Sets.
4. Press \( \text{Hospitality} \).
5. Press \( \text{Room/desk info} \) displays.
6. Press \( \text{Show} \) until the display shows Room #:None displays.
7. Enter a room set number or press \( \text{LIST} \) and press \( \text{Next} \) until you find the DN of the set you want to assign to a room.
8. Press \( \text{Show} \) Room #:None displays.
9. Press \( \text{CHANGE} \) and enter the room number, then press \( \text{OK} \) to accept the change.
10. Press Next. Adm pwd req’d: Y displays

11. Press CHANGE and choose Y or N, depending on your security requirements.

Call restrns

Call restrictions can be set up by the system administrator. Refer to the Modular ICS Installer Guide for details.

Service times

You can set the time when occupied rooms change from Service done to Service required. This setting affects the Room condition feature.

1. Place the appropriate programming overlay on the set you are using to do programming.

2. Press 6*266344 (CONFIG). The display shows Password:

3. Press 23646 (ADMIN). The display shows Terminals&Sets.

4. Press Next until the display shows Hospitality.

5. At the Hospitality heading, press Show until Service time displays.

6. Press Show. Hour: 00 displays.

7. Press CHANGE and enter the hour (00 to 23).

   If the number is less than 13, the display shows AM. Press CHANGE to select PM, if required. Press OK to accept.

8. Press Next. Minutes: 00 displays.

9. Press CHANGE and enter the minutes (00 to 59).
Using the room/set programming

This section describes how the room occupancy and room condition settings are used.

Setting dialing filters by room state

1. Press \[6879\].
2. Enter the Desk admin password if you are prompted for a password.
   The set displays: \(\text{Of rm#}\):
3. Enter the room number and press \(\text{OK}\).
   The set displays \(\text{rmmm:Vacant}\).
4. Press the \textit{CHANGE} display key and select the required status for the room set.
5. To program other rooms, press the \textit{FIND} or \textit{NEXT} display key and return to step 3.
6. Press \(\text{®}\) to exit.

Note: Setting the room state to Vacant cancels any outstanding alarms.

Setting the room condition

You can use this feature on a room set or administration set to:
- set the room state to service done (\textit{Srvc done})
- set the room state to Needs service (\textit{Needs srvc})
- query the state of the room
Using the room set:

1. Press \[76\] on a digital set or \[Link * 8 7 6\] on an analog set.
2. At the prompt, set the status of the room.
   
   Note: You may be required to enter a Room condition password.
   
   Press \[1\] to indicate Set to srv done.
   
   Press \[2\] to indicate Set to needs srv.
   
   The set displays the selected prompt.
3. Press \[\] to exit.

Using the admin set:

1. Press \[878\].
2. Enter the Desk admin password if you are prompted for a password.
   
   The set displays: Cd of rm#:
3. Enter the room number and press \[OK\].
   
   The set displays rrrrr:Vacant.
4. To update the condition, press \[CHANGE\] and select the required status.
   
   To query the condition of other rooms, press the \[FIND\] or \[NEXT\] displays keys.
5. Press \[\] to exit.
Programming the alarm feature

If you want to allow the room sets to program wake-up alarms, there are a couple of program settings that need to be entered.

1. Place the appropriate programming overlay on the set you are using to do programming.

2. Press \textit{6 * * 2 6 6 3 4 4} (CONFIG). The display shows \textit{Password:}.

3. Press \textit{2 3 6 4 6} (ADMIN). The display shows \textit{Terminals&Sets}.

4. Press \textit{Next} until the display shows \textit{Hospitality}.

5. Press \textit{Show}. \textit{Room/desk info} displays.

6. Press \textit{Next} until \textit{Alarm} displays.

7. Press \textit{Show}. \textit{Attn attempts:3} displays.

8. Press \textit{CHANGE} until you find the number you want (1-5).


10. Press \textit{CHANGE} until you find the number you want (2, 4, 6, or 8).

11. Press \textit{Next}. \textit{Attn duration:15} displays.

12. Press \textit{CHANGE} until you find the number of seconds you want (10, 15, 20, 30, 40, 50).

13. Press \textit{Next}. \textit{Time format:12 hr} displays.

14. Press \textit{CHANGE} to choose either \textit{12hr} or \textit{24hr}.

15. Press \textit{Next}. \textit{Expired alarms} displays.


17. Press \textit{CHANGE} to enter a set DN to be notified.

19. Press **CHANGE** to choose either ′Y′ (yes) or ′N′ (no).

20. Press **↑** to exit or **Next** to continue programming.

**Using the Administration set to control alarms**

Only a Hospitality Services set can use this alarm administration feature. This feature is also associated with a room number, and cannot be used on common sets.

Use this feature to:

- query a current or last alarm time set for a room
- assign an alarm time for any room
- change an alarm time for any room
- cancel an pending alarm for any room

To program the alarm, follow these steps:

1. Press <2> 8 7 7<>.  
2. Enter the Desk admin password if you are prompted for a password.

The set displays: **al of rm#**:

3. Enter the room number.

4. Press **VIEW**. The set displays **Alrm: 07:00am OFF**:

If the alarm time is correct, press the **ON/OFF** display key.

If you want to change the time, enter a new four-digit alarm time.

If the clock uses a 24-hour format, enter an hour between 00 and 23, and minutes between 00 and 59. The set displays: **Alarm ON hh:mm**

If the clock uses a 12-hour format, enter the time, then when the set displays: **hh:mm AM or PM?**, press **AM** or **PM**. The set displays: **Alarm ON hh:mm**.
Using the alarm

To set an alarm on a digital telephone:

1. Press [° § 7 5]. The display shows Alrm:07:00 OFF

2. Do one of the following:
   - If the alarm is correct, press ON/OFF. The set displays: Alrm:07:00am ON. Press DONE to exit.
   - If you need to change the alarm time, press CHG. The set displays: Enter time:

3. To enter a new time, do one of the following:
   - If the clock uses a 24-hour format, enter an hour between 00 and 23, and minutes between 00 and 59. The set displays: Alarm ON hh:mm
   - If the clock uses a 12-hour format, enter the time, then when the set displays: hh:mm AM or PM?, press AM or PM. The set displays: Alarm ON hh:mm.

To set an alarm on an analog set:

1. Press [Link] [8 7 5]. A tone sounds.

2. Enter a four-digit alarm time:
   - If the clock uses a 24-hour format, enter an hour between 00 and 23, and minutes between 00 and 59. A tone sounds.
   - If the clock uses a 12-hour format, enter the time, then press [*] to select am or [#] to select pm. A tone sounds.

To enter a new time, repeat the above steps and enter a new time. This overwrites the existing entry.
Canceling an alarm

Canceling the alarm time for any set cancels the alarm time for all the sets in the same room.

Digital set: Press 0 # 8 7 5.

Analog set: Press Link # 8 7 5.

Turning off an alarm

When the alarm rings, the user can release the ring by doing one of the following, depending on the type of set in the room:

Digital set: Press any button except ☵.

Analog set: Lift and replace the handset.

 emploi acts like a snooze alarm and will temporarily disable the alarm for a programmed period. Refer to Service times on page 184.

If the user is on a call when the alarm sounds, they can press any button except ☵, which would release the call instead.
Telephone features

Installing digital phones

If you are connecting a 7316 or 7316E digital phone for the first time, refer to the following illustrations as a guide.

Installing the 7316/7316E digital phone connections

Installing to a desk jack
Mounting a digital phone on the wall

Installing without the angled base

Mount the telephone onto the screws and slide it down.

Connect line cord to wall jack.

Mounting a digital phone using the stand

Tighten screws for a secure fit.

Mount the stand as shown and insert screw. Use the screw that came with your telephone.

Connect cords to the telephone, refer to cord connections
Mount the telephone onto the screws and slide it down.

Connect line cord to wall jack.
**Naming a telephone or a line**

You can assign names to identify external lines, target lines, and each telephone. During a call, the name, if programmed, is shown on the telephone display instead of the external line number or internal telephone number of the caller. Step-by-step instructions for adding or changing the name of a telephone or a line are in *Changing the name of a telephone* on page 32.

Telephone names and line names can contain both letters and numbers, but cannot be longer than seven characters. You cannot use the # and * symbols.

**Tip** - You can give the same name to two or more telephones, or to a telephone and a line in your system. To avoid confusion, avoid such duplication. Use initials, abbreviations, or even nicknames to give each telephone a unique name.

If automatic telephone relocation is turned on, the name and internal number of a telephone are saved if the telephone is moved within your system.

**Moving telephones**

You may be required by law to report any telephone moves to your local telecommunications carrier or 911 service provider. For further details, consult your local carrier, your local 911 service provider, and/or your local telecommunications service provider.

If automatic telephone relocation is enabled in programming by your installer or customer service representative, you can move your telephone from one Norstar jack to another without losing any of its custom programming. If you want to replace a telephone and cancel the programming, ensure that the relocation setting is off.
Stopping calls from ringing at your telephone: Do Not Disturb (DND)

Stopping calls

Press \( \text{\#} 8 5 \) to stop calls from ringing at your telephone.

Only priority calls ring at your telephone. A line button flashes when you receive a call, but the call does not ring.

Refusing to answer a call

While you are on a call, you can refuse to answer a second call (including a priority call).

Press \( \text{\#} 8 5 \) while your telephone is ringing.

Canceling Do Not Disturb

Press \( \text{\#} 8 5 \).

Displays

\textbf{Allow calls} \hspace{4cm} \text{Your telephone receives calls normally.}

Using Do Not Disturb

Once you turn Do Not Disturb on, calls are forwarded to the prime telephone only if there is no other telephone on which the line appears. If there is another telephone that shares the same line, the call may be answered by that person. The Delayed Ring Transfer feature transfers all unanswered calls to the prime telephone after a specified time.

Do Not Disturb prevents voice calls from alerting at your telephone. Voice calls are presented as normal intercom calls.
Tip - System digital phones that are members of a Hunt Group can temporarily leave a Hunt Group by activating this feature. Hunt Group calls arriving while a telephone is in Do Not Disturb mode are routed to the next member in the Hunt Group. For more information about Hunt Groups, see Programming Hunt Groups on page 165.

Using Background Music

Use this feature to active the optional music feature. You will hear whatever music source is attached to the Modular ICS.

Your installer or service representative makes this feature available to all telephones in programming. You need to supply a music source, such as a radio, and have it attached to your ICS.

In accordance with U.S. copyright law, a license may be required from the American Society of Composers, Authors and Publishers or a similar organization if radio or TV broadcasts are transmitted through the Background Music feature of this telecommunication system. Nortel Networks hereby disclaims any liability arising out of the failure to obtain such a license.

Note: The 7000 and 7100 digital phones, analog phones and the Digital Mobility phones do not support this feature.

Turning Background Music off

The music stops automatically if you make or answer a call, or press \[\# 8 6\] to turn it off.
ISDN PRI and BRI

Integrated Services Digital Network (ISDN) technology provides a fast, accurate and reliable means of sending and receiving data, image text and voice information through the telephone system.

By using Primary Rate Interface (PRI) or Basic Rate Interface (BRI), your ISDN service allows for faster transmission speeds and the addition of a variety of powerful business applications, including remote LAN access, videoconferencing, file transfer and Internet access.

Your installer configures ISDN services and terminal equipment.

**ISDN PRI**

PRI is economical because separate analog trunks and data circuits are not needed for Direct Inward Dialing (DID), Direct Outward Dialing (DOD), and data transfer.

With PRI there is greater flexibility because B channels can be dynamically reconfigured to accommodate changes in traffic with the Call by Call feature. For more information, see *Call by Call service selection for PRI* on page 200.

PRI offers fast information access because channel usage is optimized to allow you the full benefit of available bandwidth and real-time connectivity.

PRI lines are configured as DID lines. Incoming calls on a PRI line can appear on a DID button or on an intercom button depending on how your target lines are assigned to the telephones. Outgoing calls are made using the intercom buttons.
PRI lines can be accessed from all devices such as Norstar telephones, Business Series Terminals (BST telephones), ISDN sets, and WMC portable handsets.

**ISDN PRI features**

Selected ISDN network features can be used from a Norstar telephone. Your central office switch (ISDN network) determines which features are available to you.

**Network Name Display for PRI**

Your Norstar system displays the name of an incoming call when it is available from the service provider. Name information can be displayed on a Norstar or BST telephone, but not on an ISDN terminal. If the Calling Party Name has the status of *private*, it may be displayed as *Private name*. If the Calling Party Name is unavailable, it may be displayed as *Unknown name*.

Your Norstar system displays the name of the called party on an outgoing call, when it is provided by your service provider. The Business Name concatenates with the set name on an outgoing call. This can only occur if the Business Name has been programmed.

The available features include:

- receiving Connected Name
- receiving Calling Name
- receiving Redirected Name
- sending Connected Name
- sending Calling Party Name

Consult your customer service representative to determine which of these features is compatible with your service provider.
Name and number blocking for PRI

When activated, \[8 1 9\] allows you to block the outgoing name and/or number on a per-call basis. Name and number blocking can be used with a Norstar or BST telephone, but not with an ISDN terminal.

Consult your customer service representative to determine whether or not this feature is compatible with your provider.

Emergency 911 Dialing

Modular ICS 7.0 with the ISDN PRI feature is capable of transmitting the telephone number and internal extension number of a calling station dialing 911 to the Public Switched Telephone Network. State and local requirements for support of Emergency 911 Dialing service by Customer Premises Equipment vary. Consult your local telecommunications service provider regarding compliance with applicable laws and regulations.

If transmission of internal extension numbers is not required or desired, then it is recommended that the System Coordinator maintain a site map or location directory that allows emergency personnel to rapidly locate a Norstar or BST telephone, given its DID number. This list should be kept up to date and readily available, and can be included with the Programming Record.

Two-way DID

With PRI, the same lines can be used for receiving direct inward dialing (DID) and for making direct outward dialing (DOD) calls.

The dialing plan determines how calls are routed.
Consult your customer service representative to determine whether or not this feature is compatible with your service provider.

**Call by Call service selection for PRI**

PRI lines can be dynamically allocated to different service types with the Call by Call feature. PRI lines do not have to be pre-allocated to a given service type.

Call types that may be available, depending on your service provider are:

- **Public**
  Public calls connect your telephone with a Central Office (CO). DID and DOD calls are supported.

- **Private**
  Private calls connect your telephone with a private network. DID and DOD calls are supported. A private dialing plan may be used.

- **Tie**
  Tie lines are private incoming and outgoing lines that connect Private Branch Exchanges (PBX) such as Norstar.

- **FX**
  Foreign Exchange calls connect your telephone to a remote CO. It provides the equivalent of local service at the distant exchange.

- **Outwats**
  Outwats is for outgoing calls. This allows you to originate calls to telephones in a specific geographical area called a zone or band. Typically a flat monthly fee is charged for this service.

- **Inwats**
  Inwats is a type of long distance service which allows you to receive calls originating within specified areas without a charge to the caller. A toll-free number is assigned to allow for reversed billing.
Consult your customer service representative to determine whether or not this feature is compatible with your provider.

**Dialing Plan and PRI**

The Dialing Plan supports PRI connectivity to public and private networks. The dialing plan is a collection of features responsible for processing and routing incoming and outgoing calls. All PRI calls must go through a dialing plan.

The Dialing Plan

- allows incoming calls to be routed to telephones, based on service type and digits received
- allows Enbloc dialing by buffering user-dialed digits until a complete DN has been dialed
- provides the ability to map user-dialed digits to a service type on a Call by Call basis
- allows long distance carrier selection via user-dialed Carrier Access Codes

Depending on the type of dialing plan chosen, you may also need to specify a Private DN length so the system knows when the user has completed dialing.

Refer to the Networking chapter in the *Modular ICS 7.0 Installer Guide* for more details about dialing plans. Consult your customer service representative to determine how your dialing plan is configured.
**ISDN BRI**

Modular ICS 7.0 supports a maximum of 30 ISDN sets on the system.

The following ISDN services are supported:

- incoming calls
- outgoing calls
- Calling Line Identification Presentation (CLID)
- sub-addressing
- bearer capabilities
- teleservices

The Call Forward All Calls feature can be used from ISDN terminals connected to Modular ICS.

**Note:** System digital telephones can accept voice calls only. Video and data calls do not alert at a digital phone.

Although an ISDN S-loop or LT-loop can support up to eight devices, the loop has a limit of two B-channels. If both B-channels are in use, other devices on that loop cannot make or receive calls until a B-channel is available, or until both B-channels are available, in the case of a video terminal. Thus, the number of terminals installed must take into account whether you require dedicated access for the terminals on that loop.

**Note:** System telephone features, other than Transfer and Call Forward All Calls, are not available to ISDN terminals. In addition, you cannot retrieve a parked call, or reach a Direct-Dial set by using the Direct-Dial digit from an ISDN terminal.
Line access from an ISDN terminal

ISDN terminals do not have line buttons or intercom buttons, as do system Digital phones such as the 7316E. To make an outgoing call from an ISDN terminal, access an external line by entering a line pool code or by using the ARS feature.

ISDN BRI features

Selected ISDN network features can be used from a system Digital phone. Your central office switch (ISDN network) determines which features are available to you.

Network Name Display for BRI

Your Norstar system displays the name of an incoming call when it is available from the service provider. Name information can be displayed on a system Digital phone, but not on an ISDN terminal. If the Calling Party Name has the status of private it may be displayed as Private name. If the Calling Party Name is unavailable it may be displayed as Unknown name.

Your Norstar system displays the name of the called party on an outgoing call, when it is provided by your service provider.

As with PRI, your Norstar system sends the Business Name concatenated with the set name on an outgoing call, but only if a Business Name has been entered for the set.

The available features include:

- receiving connected name
- receiving calling name
- receiving redirected name
- sending connected name
- sending calling party name
Consult your customer service representative to determine whether or not this feature is compatible with your service provider.

Name and number blocking for BRI

When activated, 819 allows you to block the outgoing name and/or number on a per-call basis. Name and number blocking can be used with a system Digital phone but not with an ISDN terminal.

Consult your customer service representative to determine whether or not this feature is compatible with your service provider.

Service provider features

Consult your customer service representative to determine if the new ISDN features are supported with your service provider.

Call Forward

Call Forward allows you to forward your calls to an external telephone number.

1. Select an ISDN line by selecting a line button, a line pool, or the handsfree button, or by lifting the handset (if an ISDN line is your prime line).

2. Consult your service provider for the appropriate feature code to enter on your dialpad. Listen for three tones followed by dial tone.

3. Enter the internal number of the telephone to which you want your calls forwarded. If the call is answered, stay on the line for at least five seconds to activate the Call Forward feature.
Canceling Call Forward

1. Select an ISDN line by selecting a line button, a line pool, or the handsfree button, or by lifting the handset (if an ISDN line is your prime line).

2. Consult your service provider for the appropriate feature code to enter on your dialpad. Listen for a series of tones.

3. Press \[\text{\textendash}\].

Calling the number your calls are forwarded to

1. Select an ISDN line by selecting a line button, a line pool, or the handsfree button, or by lifting the handset (if an ISDN line is your prime line).

2. Consult your service provider for the appropriate feature code to enter on your dialpad.

Automatic Call Back

If you call a number and it is busy, enter the appropriate feature code designated by your service provider to receive a distinctive ring at your set when the line becomes available for calls.

Automatic Recall

Automatic Recall allows you to automatically dial the number of the last call you received. You may not see the number on the display if the information is not available from your service provider, or if you do not have Caller ID as part of your ISDN service.

Consult your service provider for the appropriate feature code to enter on your dialpad.
MCID (profile 2)

The MCID feature allows you to enter 6 8 9 7 to have call information recorded on the central office system for an incoming call on a specific line (ETSI EURO ISDN lines, only).

The user must invoke the feature code either during the active call or within 30 seconds (time varies on different networks) after the caller hangs up, but before the user hangs up.

Note: The Digital Mobility phone does not support this feature.

**MCID prompts**

<table>
<thead>
<tr>
<th>Call traced</th>
<th>The MCID request was accepted by the network.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No response</td>
<td>No response to the MCID request.</td>
</tr>
<tr>
<td>Not incoming</td>
<td>MCID can only be invoked on received calls.</td>
</tr>
<tr>
<td>Not available</td>
<td>The caller information is not available. The CO is not able to log the information or it is not an ETSI BRI/PRI type of call.</td>
</tr>
<tr>
<td>Not subscribed</td>
<td>MCID feature is not subscribed to.</td>
</tr>
<tr>
<td>Invalid state</td>
<td>MCID is not allowed in the current state of the call.</td>
</tr>
<tr>
<td>Not allowed</td>
<td>Invalid interaction with another supplementary service.</td>
</tr>
</tbody>
</table>
Network Call Diversion (profile 2)

This feature is a network function that allows forwarding and redirection of calls outside the Norstar network when using an ETSI ISDN line. Functionality is similar to that of External Call Forward (ECF). NCD redirects calls using the same line on which they arrive. Call forward is efficient since there is no need for additional outside lines.

Overlap dialing (profile 2)

This feature allows a break in the dialing sequence when dialing on ETSI PRI lines that require overlap dialing.

ISDN BRI terminals

Your Modular ICS allows connection of eight Basic Rate Access loops (four 2B+D channels) that can be used for fully digital connections to ISDN networks and devices. Loops are connections between the ICS and devices or between the ICS and the network.

Each loop provides two separate B-channels that can be used to make two simultaneous voice or data calls, or one data call and one voice call.

ISDN applications for BRI and PRI

ISDN terminal equipment delivers a wide range of powerful business applications:

- Videoconferencing and video telephony: Video conferencing offers instant visual and audio contact between distant parties using either studio-based or desktop ISDN terminals.
• Desktop conferencing: ISDN allows computer users in distant locations to share and edit any image, data or text file on their own computer screens while they discuss the information.

• File transfer: The ISDN network allows you to transfer files containing data, text, images, data, or audio clips, faster and cheaper than with a conventional modem.

• Telecommuting: Convenient retrieval, processing and storage of files is possible for the employee working at home by using ISDN lines to give high-speed access to information resources at the office.

• Group 4 fax: ISDN fax applications save money by increasing both transmission speed and the quality of resolution.

• Remote LAN access: ISDN provides an affordable and fast means for employees at remote sites (at home or branch offices) to access local area networks (LANs).

• Leased line backup: Essential backup for leased lines can be provided using ISDN as required, rather than duplicating costly permanent leased lines.

• LAN to LAN bridging: Local area network (LAN) bridge/routers allow flexible interconnection between LANs using ISDN, with charges incurred only when information is actually transmitted.

• Internet and database access: The fast call set up and high bandwidth of ISDN are ideal for accessing information services such as the Internet and databases.
Using System features

Using alternate or scheduled services

There are three types of Services to make your Norstar system handle calls differently on different days and at different times of the day: Ringing service, Restriction service and Routing service.

Each of the three services, and the six schedules available to each service, are customized for you by your installer or customer service representative. They program which telephone is used to turn Services on and off, and display what Services are in use. This is called the control telephone.

Preventing certain calls from being made

Restriction service prevents a user from making certain kinds of calls from a telephone or from lines that are available at the telephone. The restrictions are programmed by your installer or customer service representative. For example, you might want to restrict long distance dialing between certain hours of the day.

Making additional telephones ring

Ringing service makes additional telephones ring for incoming calls on external lines. For example, all incoming external calls can ring at a security telephone during the night. Or calls to one attendant can ring at another telephone during lunch. This service does not suppress your normal ringing assignment.
Changing the lines used by outgoing calls

Routing service allows you to assign alternate routes to calls during different schedules. In this way you can take advantage of lower costs available on particular routes on certain days and at certain times. Both the regular and alternate routes are programmed by your installer or customer service representative.

Note: Your system administrator can also assign alternate routes for destination codes that are defined to run on a schedule. In this case, alternate routes are offered only in the case where the original route is not available. Refer to the section on least-cost routing in the Modular ICS Installer Guide.

Turning Services on and off

The master control for how different services and their schedules are used by your system is in programming. There are three settings: Manual, Automatic and Off.

- **Manual** allows you to turn the service on and off at any time from a control telephone using a feature code.

- **Automatic** allows you to use the preassigned stop and start time for a service. You are able to start and stop the service by entering the appropriate feature code at a control telephone. If you select this setting, you use the start and stop times programmed by your installer or customer service representative.

- **Off** prevents the service from being activated. In the case of restriction settings and routing, this means that the Normal schedule will be in effect.
1. Place the programming template over the appropriate buttons of the programming telephone.

2. Press \[ [•][*][*][2][6][6][3][4][4] \].


4. Press \[ \text{Next} \] twice. Services displays

5. Press \[ \text{Show} \]. Ringing Service displays.

6. Press \[ \text{Next} \] until you see the service you want to program.

7. Press \[ \text{Show} \] and \[ \text{Next} \] until you see the schedule you want to program.

8. Press \[ \text{Show} \] and use CHANGE to select the setting that works best for your office: Off, Manual or Automatic.

Each schedule can have its own configuration of a Service which works independently of automatic start and stop times. For example, there may be a version of Restriction service called Night Schedule that prevents anyone from making long distance calls. But calling it Night Schedule does not mean it can only be used with a schedule. You can turn the Night Schedule for Restriction Service on or off, as needed, any time of the day or night. If you decide to run a service on a schedule, the system uses the start and stop times used for that schedule.
An example of how to turn on a Service manually

You may have Ringing service, as your night service, set up to run according to the Night Schedule. You may decide you want that ringing arrangement to come into effect only when it is turned on and off manually.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \text{••¤flfl\textendash}.
3. Press \text{≤} (the default System Coordinator password).
4. Press \text{≠ twice. Services displays}
5. Press \text{Show}. Ringing Service displays.
6. Press \text{Show}. The display reads \text{Sched:Night}.
7. Use \text{CHANGE} to set the Service to \text{Manual}.

Night Schedule for Ringing Service no longer follows the schedule but can be turned on and off by using the feature code and selecting Night Ringing. See Turning Services on and off on page 213.
**Turning Services on and off**

The master control for services is in programming. See *Turning Services on and off* on page 210. Day-to-day use of Services is controlled using the following feature codes.

<table>
<thead>
<tr>
<th>Feature Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 7 1</td>
<td>Turns on Ringing service. When used at the direct-dial telephone, it activates the alternate direct-dial telephone (extra-dial telephone).</td>
</tr>
<tr>
<td># 8 7 1</td>
<td>Turns off Ringing service.</td>
</tr>
<tr>
<td>8 7 2</td>
<td>Turns on Restriction service.</td>
</tr>
<tr>
<td># 8 7 2</td>
<td>Turns off Restriction service.</td>
</tr>
<tr>
<td>8 7 3</td>
<td>Turns on Routing service.</td>
</tr>
<tr>
<td># 8 7 3</td>
<td>Turns off Routing service.</td>
</tr>
</tbody>
</table>

**To turn a Service on:**

1. Enter the appropriate feature code from a control telephone.

2. For Restriction and Routing service you have to enter the System Coordinator or Basic password.

3. Press **NEXT** to move through the schedules until the display shows the version of the service you want to be turned on.

4. Press **OK** to select the setting, or press **QUIT** to exit the feature without making any changes.

**To turn a Service off:**

1. Enter the appropriate feature code from a control telephone.

2. For Restriction and Routing service you have to enter the System Coordinator or Basic password.
**Do not confuse activating Normal service with canceling a Service.**

Setting a Service to Normal is not the same as canceling a Service using a feature code. If you set the Service to Normal, the normal version of a Service overrides any automatic schedule and remains in effect until you manually cancel it. If you cancel the Service, you return to the automatic schedule.

---

**Viewing the active Services on a two-line display**

When a Service is active, the control telephone display reads Services ON.

1. Press **LIST**. The display shows the first active Service and the schedule that is in use.
2. If there are several active Services, press **NEXT** to see them all.
3. Press **EXIT** to exit the feature.

---

**Viewing the active Services on a one-line display**

1. Press **0870**. The display shows the first active Service.
2. Press **#** to move through the active schedule.
3. Press **EXIT** to exit.
Displays

You are viewing the active Services. Press [#] or NEXT to see the other active Services. Press [EXIT] or EXIT to quit.

The name of the current Restriction service schedule displays. Press [#] or NEXT to see the other Ringing service schedules. Press [QUIT] or OK to select the desired schedule.

You are viewing the active Services. Press [#] or NEXT to see the other active Services. Press [EXIT] or EXIT to quit.

The name of the current Ringing service schedule displays. Press [#] or NEXT to see the other Ringing service schedules. Press [QUIT] or OK to select the desired schedule.

You are viewing the active Services. Press [#] or NEXT to see the other active Services. Press [EXIT] or EXIT to quit.

The name of the current Routing service schedule displays. Press [#] or NEXT to see the other Routing service schedules. Press [QUIT] or OK to select the desired schedule.

Press [QUIT] or OK to select this schedule, [#] or NEXT to see the next available schedule, or [EXIT] or QUIT to exit. If you select this schedule, it is in effect until the next automatic schedule takes effect.

You have entered the Show Services feature code and there is no active Service.

There is a Service active in your system. Press [*] or LIST to view the active Services.

For other displays, see Common feature displays on page 249.

Services that have been turned on automatically are indicated by an asterisk (*) before the name on the display. You can neither manually activate nor cancel automatically-scheduled...
services, although you can override them by manually turning on another schedule.

The control telephone can override Services that are turned on and off according to a schedule at any time by entering a Services feature code, and then selecting a different schedule. This override remains in effect until it is canceled. If you select a schedule with an asterisk (*), the next automatic service schedule comes into effect at the programmed time.

Direct-dial calls to a direct-dial telephone ring at the extra-dial telephone only when you enter the Ringing service feature code (0871) at that direct-dial telephone. Note that only the extra-dial telephone is activated, not the actual Ringing service. This is the case unless that direct-dial telephone is a control telephone. The extra-dial telephone is designated by your installer or customer service representative.

**Tip -** Norstar provides six service schedules named Night, Lunch, Evening, Sched 4, Sched 5, and Sched 6. Your installer or customer service representative can change these names to suit your business.
Using passwords

Your passwords prevent unauthorized or unintentional changes to your Norstar system. To keep your telephone service secure, distribute the password only to selected personnel or make use of the basic password described below. Record your password in a secure place and change it periodically.

If you forget the administration or basic passwords, you cannot do any programming. Call your customer service representative to assign a new password.

The password is a one to six-digit number. It is advised to make your password at least six digits long for security reasons. If you press CHANGE but do not enter a new password, the existing password is erased. Anyone can then access programming without a password.

The default System Coordinator password is $\text{\textit{ÅΘȈ}}$, which is the same as $\text{\textit{¤‹fl›fl}}$.

One password cannot be a subset of another one. For example, you cannot have 123 and 12345.

Using a Basic password

In addition to a System Coordinator password, there is a Basic password. This allows you to delegate some of the duties of being a system coordinator to someone else without allowing access to sensitive programming.

The default Basic password is $\text{\textit{ıÅÍÈÇ}}$ or $\text{\textit{¤¤‡›¤}}$. 
You can enter the Basic password after the following feature codes:

- \( \text{**USER**} \) to access User Preferences
- \( \text{**TIME**} \) to change the system time and date

Because the Basic password can be used to change the time, you should give it out with care and change it when necessary, for example, when an employee leaves the company. If restrictions, routing or other services operate on a schedule, changing the time can allow someone to bypass the programming.

**Changing passwords**

You can change your password in system programming.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \( \text{**2 6 6 3 4 4**} \).
3. Press \( \text{**2 3 6 4 6**} \) (the default System Coordinator password).
4. Press \( \text{Next} \) four times. \text{Passwords} displays.
5. Press \( \text{Show} \). \text{Call Log pswds} displays.
6. Press \( \text{Next} \) until you see \text{Progrming pswds}.
7. Press \( \text{Show} \). \text{Sys Admin:} displays.
8. Press \( \text{Next} \) until you see the name of the password you want to change.
9. Use \( \text{Show} \), \text{CHANGE} and the dialpad to enter the new password. Press \( \text{OK} \) to accept the new password.
You cannot erase or eliminate the ability to program passwords.

**Clearing a Call Log password**

If an individual has forgotten their Call Log password, you can clear it in programming. The individual can then enter a new password from his or her telephone.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \( \textbackslash{0} \text{*} \text{*} \text{2} \text{6} \text{6} \text{3} \text{4} \text{4} \).
3. Press \( \text{2} \text{3} \text{6} \text{4} \text{6} \) (the default System Coordinator password).
4. Press \( \text{Next} \) four times. **Passwords** displays.
5. Press \( \text{Show} \). **Call Log pswds** displays.
6. Press \( \text{Show} \) and enter the internal telephone number of the telephone where you want to clear the Call Log password.
7. Press \( \text{Show} \), then press \( \text{CLR} \) to clear the password after the **Log pswd:** prompt.

**Hospitality passwords**

There are two passwords within the Hospitality feature. One provides secure access to the administration set for programming the service, and one provides secure access to a room condition setting from each room set for housekeeping staff.
Desk pswd

Change this administration password frequently, to maintain security.

At Hospitality:

1. Press Show. Desk pswd displays. (default is 4667)
2. Press CHANGE. New pswd displays
3. Enter a new password, then press OK.

Cond pswd

Change this password frequently, to maintain security.

At Hospitality:

1. Press Show. Desk pswd displays.
2. Press Next. Cond pswd: None displays.
3. Press CHANGE. New pswd displays
4. Enter a new password, then press OK.

Silent Monitor password

Users must enter a password when they use 0 # 5 5 0 to monitor Hunt group calls.

It is advisable to change this password frequently.

At SM Pswd (default: 745368 (SILENT)):

1. Press CHANGE.
   New pswd displays
2. Use the keypad to enter a new password.
3. Press OK.
Using special telephones

Direct-dial

You can reach the direct-dial telephone by dialing a single digit. The direct-dial telephone is usually in a central location, such as at the desk of an administrative assistant or attendant. You can have up to five direct-dial telephones for your Norstar system. It is usually the prime telephone or the central answering position (CAP).

The direct-dial telephone can send up to 30 messages and can invoke Services to activate the extra-dial telephone.

You cannot forward calls to a direct-dial telephone that is outside your Norstar system. See Making changes to Call Forward No Answer on page 35.

Note: ISDN terminals cannot use the Direct-Dial digit to reach a Direct-Dial set.

Changing the direct-dial telephone assignments

Your installer or customer service representative sets up the direct-dial telephone.

You can change which direct-dial telephone a telephone is assigned to, or assign it no direct-dial telephone.

1. Place the programming template over the appropriate buttons of the programming telephone.

2. Press 2 3 6 4 6 (the default System Coordinator password).

3. Press 2 3 6 4 6 at Terminals&Sets.
5. Enter the internal number of the telephone you want to program and press [Show]. The display reads Capabilities.

6. Press [Show].

7. Press [Next] until the display reads D-Dial.

8. Press [CHANGE] to select Set1, Set2, Set3, Set4, Set5 or None.

Any number of telephones can be assigned to call the direct-dial telephone.

**Tip** - The digit you dial in order to get the direct-dial telephone to ring can be programmed by your installer or customer service representative.

The Norstar system cannot verify that the number you assign as an external direct-dial telephone is valid. Check the number before assigning it as a direct-dial telephone, and call the direct-dial telephone after you’ve assigned it in order to test it.

**Hotline**

A hotline telephone calls a preset internal or external telephone number when you pick up the receiver (or press the handsfree button).

**Tip** - Label the telephone to inform anyone using it that Hotline is active.

**Bypassing a Hotline**

Press a line button, or use the Pre-Dial or the Automatic Dial feature before you pick up the receiver or press the handsfree button on a hotline telephone. See the Telephone Feature Card or see Changing how you dial your calls on page 80.
Making a telephone a hotline telephone

You can set up a telephone as a hotline.

**Tip** - *A Hunt Group set DN can be specified as a Hotline telephone. For more information about Hunt Groups, see Programming Hunt Groups on page 165.*

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press \[\text{**••¤flfl‹››} \]
3. Press \[\text{¤‹fl›fl} \] (the default System Coordinator password).
4. Press \[\text{≠} \] at Terminals&Sets.
5. Enter the internal number of the telephone.
6. Press \[\text{Show} \]. The display reads Capabilities.
7. Press \[\text{Show} \].
8. Press \[\text{Next} \] until the display reads Hotline.
9. Press \[\text{CHANGE} \] to select the type of call the hotline makes: None, Intrnl, or Extrnl.
   - Internl assigns an internal number.
   - External assigns an external number.

If you select an external number, you can select the line on which the call is made:
   - the prime line
   - an external line
   - a line in a line pool, and a line pool access code

For this type of line, you must specify the line pool access code.
• a line selected by the routing table
  For this type of line, the number dialed is treated as a
destination code and is routed according to the routing
tables.

A prime line, line pool access codes, and access to a line pool
can be programmed by your installer or customer service
representative.

**Control telephone**

The control telephone allows you to place the telephones and
external lines for which it has responsibility into and out of
service schedules. See *Using alternate or scheduled services*
on page 209. Settings for this telephone can be copied from
one control telephone to another.

**SM Supervisor**

A telephone designated as an SM Supervisor allows you to
monitor Hunt group calls without or without a conference tone
indicator to the other two parties. See *Using Silent Monitor* on
page 176.
Using Set lock

Set lock limits the ways in which you can customize your telephone. There are three levels of Set Lock: Full, Partial, and None. None allows you to access all features on your telephone.

Partial prevents:

- programming autodial buttons
- programming user speed dial numbers
- programming feature buttons
- moving line buttons
- changing the display language
- changing dialing modes (Automatic Dial, Pre-Dial, and Standard Dial)
- using Voice Call Deny
- saving a number with Saved Number Redial

Full, in addition to the restrictions outlined for Partial lock, prevents:

- changing Background Music
- changing Privacy
- changing Do Not Disturb
- using Ring Again
- using Call Forward all calls
- using Send Message
- using Trunk Answer
- activating Services

Changing Set Lock programming for a telephone

You change the Set Lock in system programming.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press [1#*#266344].
4. Press [Show] at Terminals&Sets and enter the internal number of the telephone you want to program.
5. Press [Show].
8. Press [Next] until the display reads Set lock.
9. Use CHANGE to select one of the three options: None, Partial and Full.

Using an auxiliary ringer

An auxiliary ringer is a separate device that has to be connected to Norstar. Refer to the section on installing optional equipment in the Modular ICS 7.0 Installer Guide.

Turning the auxiliary ringer for a telephone on or off

Use system programming to turn an auxiliary ringer on or off.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press [2][6][6][3][4][4].
5. Enter the internal number of the telephone you want to program and press [Show]. The display reads Capabilities.
6. Press [Show].
7. Press [Next] until the display reads Aux. ringer.
8. Use CHANGE to select Y (Yes) or N (No).

Your installer or customer service representative can program the auxiliary ringer to start ringing for incoming lines as part of Ringing Service.
Using Host System dialing signals

You can access host systems, such as private branch exchanges (PBX) from Norstar by using host system signaling features (known as end-to-end signaling). These features either send a special signal to the host system or allow you to program delays required by host systems in external autodial or speed dial sequences.

Link

If your Norstar system is connected to a private branch exchange (PBX), you can use a Link signal to access special features. On some telephones, Link is called FLASH.

The Link signal can be included as part of a longer stored sequence on an external autodial button or in a speed dial code. The Link symbol (ﬂ) uses two of the 24 spaces in a dialing sequence.

Preventing a telephone from using Link

Link can be restricted at individual telephones by using system programming.

1. Place the programming template over the appropriate buttons of the programming telephone.
2. Press 6 * * 2 6 6 3 4 4.
3. Press 2 3 6 4 6 (the default System Coordinator password).
4. Press Show and enter the internal number of the telephone you want to program.
5. Press Show. Capabilities displays.


9. Press [CHANGE] to choose Y (Yes) or N (No).

Tip - If your Norstar system is connected to a private branch exchange (PBX), program Link onto a memory button for one-touch access.

Pause

The Pause feature enters a 1.5-second delay in a dialing sequence on an external line. This is often required for signaling remote devices, such as answering machines, or when reaching through to PBX features or host systems.

You can program more than one pause in an external autodial or speed dial sequence.

The Pause symbol (Ø) uses one of the 24 spaces in a dialing sequence.

For pulse dialing, * inserts a 1.5-second pause into the dialing sequence.
Long Tones

The Long Tones feature allows you to control the length of a tone so that you can signal devices such as fax or answering machines which require tones longer than the standard 120 milliseconds.

1. While on a call, press \[0 8 0 8\].
2. Press the dialpad buttons to produce the appropriate tones. Each tone sounds for as long as you hold down the button.

Long tones can be used on any call except a conference call. You can use internal lines of the Norstar system to activate a device connected to an analog terminal adapter (ATA) in another area of your office, or external lines to access devices outside the Norstar system.

Digital Mobility phones provide a static three-second DTMF tone when this feature is activated.

Displays

```
Long Tones: 
```

At the appropriate time, press any dialpad button. Hold each button down for as long as necessary. Press \[0\] or \[8\] to cancel Long Tones.

Programmed Release

\[0 8 9\]

The Programmed Release feature performs same function as \[\] in a programmed dialing sequence. When the system encounters Programmed Release in a dialing sequence, it stops dialing and hangs up the call.

The Programmed Release symbol (\[\]) takes up two of the 24 spaces in a programmed dialing sequence.

The system ignores any digits or commands that follow a Programmed Release in a programmed dialing sequence.
Run/Stop

Run/Stop inserts a break point into a sequence of dialed numbers or characters used for automatic dialing. This may be necessary when you are connecting to a PBX or similar host system.

For example, you can call a company with an automated attendant that instructs you to dial the internal number you need. You can program the company number, a Run/Stop, then the internal number on one external autodial button. Press the autodial button once to dial the company number. When you hear the automated attendant, press the autodial button again to dial the internal number.

The Run/Stop symbol (.Dial) uses one of the 24 spaces in an autodial or speed dial sequence.

You can include up to three Run/Stop commands in a dialing string. The system ignores a fourth Run/Stop, and any digits or commands that follow it in a programmed dialing sequence.

Wait for Dial Tone

Wait for Dial Tone causes a sequence of numbers to pause until dial tone is present on the line before continuing to dial. This is useful if you must dial a remote system and then wait for dial tone from that system before dialing the rest of your number.

The Wait for Dial Tone symbol (Wait) uses two of the 24 spaces in an autodial or speed dial sequence.
Displays

You have entered a code that can be used only in a programmed autodial or speed dial sequence, not on a call you dial directly. Programmed Release and Run/Stop are for use in programmed dialing sequences only.

Using tone dialing for a call

If your external telephone lines use tone dialing, you can temporarily switch to tone dialing by pressing # after selecting the line. Tone dialing allows your Norstar telephone communicate with devices and services that respond to tone signals, such as automatic switchboards, and fax or answering machines.

Using your Norstar system from an external location

You can use the lines and some of the features of a Norstar system from outside the system. You can do this over the public telephone network when you are away from the office, or you can call from another system, over a private network.

An example of how remote access works is a sales representative who spends a lot of time out of the office and who needs to make long distance calls to the European office. Your Norstar system has a leased line to Europe with reduced transatlantic charges. You provide the sales representative with a Class of Service (COS) password that gives access to the transatlantic line. The sales representative can then telephone into the Norstar system from a hotel, enter their Class of Service password, and use the leased transatlantic line to make calls.
Remote users can access Norstar lines, line pools, the page feature, and remote administration, if that features is enabled through Software Keys. The exact facilities available to you through remote access vary, depending on how your installer or customer service representative set up your system.

**Tip** - *If the loop start line used for remote access is not supervised, auto-answer does not function and the caller hears ringing instead of a stuttered tone or the system dial tone.*

**Controlling access to your Norstar system**

It is important to maintain the security of your Norstar system by limiting access to authorized users and limiting those users to the features they need.

**Remote users can make long distance calls.**

Remember, a remote user can make long distance calls that are charged to your company and can make page announcements in your office unless you create the proper restrictions for external access lines.

**Direct inward system access (DISA)**

Control access to your Norstar system with direct inward system access (DISA). Access to your Norstar system from the public telephone network should always be controlled with DISA. If your installer or customer service representative programs the line used for remote access to answer a call automatically and wait for a DISA internal number, callers hear a stuttered dial tone and must enter a Class of Service password before they are allowed into the system.
Class of Service (COS)

To control the level of telephone service a remote user can access, your installer can assign a remote filter and remote package to the line used for remote access. The remote filter restricts the numbers that can be dialed on the line, and the remote package restricts the use of line pools and the page feature. To change the restrictions for the line, the user can enter their Class of Service (COS) password when the system answers with DISA, or can dial the DISA internal number and enter their Class of Service password.

Maintaining security

To maintain the security of your system, the following practices are recommended:

- Warn anyone to whom you give the remote access number, to keep it confidential.
- Change Class of Service passwords often.
- Warn anyone to whom you give a Class of Service password, to remember it and not to write it down.
- Remove the Class of Service password of anyone who leaves your company.

Accessing Norstar remotely over the public network

1. Dial the Norstar system remote access number.
2. When you hear a stuttered dial tone, enter your COS password.
3. Wait for the system dial tone.

To use the system remotely, you must use a telephone with tone dialing to call the system.
Remote access is possible only on lines that your installer or customer service representative programs to auto-answer calls.

To use features on a remote Norstar system, press \( \# \) followed by the feature code. Even if you are calling from a Norstar system, such as within a private network, press \( \# \) instead of \( \odot \).

In certain situations, you may experience lower volume levels when using Norstar remotely.

**Tones**

You may hear some of the following tones while accessing Norstar remotely.

<table>
<thead>
<tr>
<th>Tone</th>
<th>What it means</th>
</tr>
</thead>
<tbody>
<tr>
<td>Busy tone</td>
<td>Dialed a busy line pool access code. You hear system dial tone again after five seconds.</td>
</tr>
<tr>
<td>Norstar system dial tone</td>
<td>You may use the Norstar remotely.</td>
</tr>
<tr>
<td>Fast busy tone</td>
<td>You have done one of the following</td>
</tr>
<tr>
<td></td>
<td>• Entered an incorrect COS password. Your call is disconnected after five seconds.</td>
</tr>
<tr>
<td></td>
<td>• Taken too long while entering a COS password. Your call is disconnected after five seconds.</td>
</tr>
<tr>
<td></td>
<td>• Tried to use a line pool or feature not permitted by your Class of Service. You hear system dial tone again after five seconds.</td>
</tr>
<tr>
<td></td>
<td>• Dialed a number in the Norstar system which does not exist. Your call is disconnected after five seconds.</td>
</tr>
<tr>
<td>Stuttered dial tone</td>
<td>Enter your COS password.</td>
</tr>
</tbody>
</table>
Using Class of Service (COS) passwords

Class of Service passwords permit controlled access to system resources both by internal and remote users. When you enter a Class of Service password at a telephone, the restriction filters associated with your Class of Service password apply, rather than the normal restriction filters. Similarly, when a remote user enters a Class of Service password on an incoming auto-answer line, the restriction filters and remote package associated with their Class of Service password apply, rather than the normal restriction filters and remote package. COS passwords are programmed by either your customer service representative or installer.

Users should memorize their COS passwords instead of writing them down. Typically, each user has a separate password. Several users can share a password or one user can have several passwords.

Individual COS passwords should be deleted when an employee leaves the company. Group COS passwords should be changed if one of the group members leaves the company.

Changing your Class of Service

You must enter a Class of Service password each time you want to make a call that is normally restricted on a line or telephone.

To change the restriction filters on a line or telephone:

2. Enter your six-digit COS password.

COS passwords allow you to define individual passwords and determine the restriction filters, and remote package associated with each.
Tip - If you use your Norstar system from outside the office, you may have to enter a Class of Service password to gain access to the system. See Using your Norstar system from an external location on page 231.

Displays

(Blank display) Enter your password. It is not shown on the display.

Invalid Password You have entered a password that is not programmed into your system.
General System features

The following features are available for the entire Norstar system.

Set profile

Set profile allows you to view but not change the programming settings for each Norstar telephone. You can access Set Profile from any two-line display system telephone, even while you are on a call.

1. Press \*\*\*\*S\*T.
2. Enter the internal number of the telephone whose programming you want to review.
3. Use BACK, SHOW and NEXT to navigate through the settings.

Line profile

Line profile allows you to view but not change the programming settings for each Norstar line. You can access Line Profile from any two-line display system telephone, even while you are on a call.

1. Press \*\*\*\*L\*N\*E.
2. Enter the number of the line whose programming you want to review.
3. Use BACK, SHOW and NEXT to navigate through the settings.
Pulse or tone dialing

If your external lines use pulse dialing, you can switch temporarily to tone dialing to communicate with devices such as answering machines, to access the features that PBX systems may offer, or to use another Norstar system remotely.

Press # while on an active line. Once you hang up, your telephone returns to pulse dialing.

Disconnect supervision

When Disconnect Supervision is assigned to a line, the Norstar system monitors it to detect if an external caller hangs up. This allows the system to release the line for other uses. Your installer or customer service representative assigns disconnect supervision.

Hunt Groups

Your Norstar system allows you to establish Hunt Groups. Hunt Groups are a group of system digital phones which can be called by a single directory number. The Hunt Groups feature ensures calls are easily routed to the appropriate people.

You can also monitor hunt group calls using the Silent Monitoring feature. The Digital Mobility phone, however, cannot be used to as a supervisor set, although it can be assigned as a hunt group member.

For more information about Hunt Groups and the Silent Monitoring feature see Programming Hunt Groups on page 165.
Internal numbers

Each telephone in the Norstar system has its own internal number. The length of internal numbers in your system can be from three to seven digits. All numbers in your system are the same length. Your installer or customer service representative sets the length of internal numbers, called the DN length. The default DN length is three.

To find out your internal number, use the Button Inquiry feature (◆ * 0) on an intercom button. On the 7000 and 7100 digital phones and the Digital Mobility phones, Button Inquiry shows your internal number. Note that on the Digital Mobility phones this display only lasts for three seconds.

Line assignment

Any of the lines in your system can be assigned to any of your telephones. Your installer or customer service representative assigns lines to telephones in Configuration programming, under Terminals & Sets. Lines can be assigned to appear only, appear and ring, or to ring only.

Usually, only the lines that are appropriate for a particular person appear at their telephone. When a line is assigned to a telephone, it is automatically given a line button on that telephone, if a button is available.

Calls on lines that ring, but which do not appear at a telephone, are presented at an intercom button.

The 7000 and 7100 digital phones and Digital Mobility phones do not have line buttons or visible intercom buttons. Calls assigned to these telephones must be set to Ring only.
You may be able to answer a call on a line that does not appear or ring at your telephone. To pick up such a call, use Call Pickup, Call Park, or Trunk Answer.

A telephone may have buttons assigned for lines 001 to 003, but have only lines 001 and 002 programmed to ring as well. An incoming call on any of the three lines causes a line button indicator to flash, and the telephone can be used to answer the call. This is especially useful for people who monitor other telephone lines, but want only their own lines to ring.

**Target line**

A target line is used to route a call directly to a particular telephone or group of telephones. Target lines are used only for incoming calls. A single incoming line may provide connections to several different target lines. This allows each person or department in the office to have their own number without having a separate external line for each number.

**Tip -** The maximum number of target lines available in the fully expanded XC system is 224.

Maxi system: lines 157-284

Expanded: lines 157-380

**Privacy issue**

You can set a target line to Private (default is Public), however, such features as Call Pickup can still answer these lines at remote telephones.
Line pools

A line pool allows each telephone access to external lines from a group (or pool) of external lines. You can access such lines by pressing an intercom button and entering a line pool access code or a destination code, or by pressing a memory button programmed with the line pool feature code and a line pool access code.

Overflow call routing

If a call comes in for a target line that is busy, Norstar routes the call to the prime telephone for that target line. If there is no prime telephone assigned to the target line, or if a call cannot be directed to a target line, the call goes to the prime telephone for the external line used.

Overflow routing for incoming calls is used with the Routing Service programmed by your installer. A Service must be active for overflow routing to be in effect. Overflow routing is not available in Normal service.

Tips - When you make a call and the programmed route is busy, you hear the expensive route warning tone and see a display indicating that an expensive route is being used. To avoid using the normal, expensive route, release your call.

Because overflow routing directs calls using different line pools, a call may be affected by different line filters when it is handled by overflow routing.

If you are not sure how the filters are assigned, refer to the Programming Record for a description of line filters and for a list of line assignments.
Telephones with no line buttons

The 7000 and 7100 digital phones and the Digital Mobility phone do not have line buttons, therefore, they work differently from other Norstar telephones.

- Where other telephones can require that you select a line button to answer a call, on the these telephones you simply pick up the receiver.
- Where other telephones require you to select a line button to take a call off hold, you press Hold on the these telephones.
- Also on these telephones, you can answer a second call by pressing (or R (Recall). Your active call is put on hold and you are connected to the waiting call. You can have no more than two calls at a time.

There is no handsfree button on these telephones. When applicable, special instructions are included with each feature description.

Memory buttons

Memory buttons are the buttons beside the main dialpad on the digital telephones. Some telephones have two rows of memory buttons, others have only one row. The 7100 digital phone has only one memory button.

Memory buttons can be configured as answer DNs, autodial, line, and programmed feature buttons. Line, intercom and answer buttons must have indicators, and are programmed by the system administrator.
One-line display

The 7100 and 7208 digital phones have a one-line display.

Other telephones have a second line on the display which shows the functions of the three buttons directly below it. These indicators are known as display buttons.

Some display buttons, such as TRANSFER and ALL, are simply shortcuts which are not available on a one-line display.

Other display buttons, such as OK and SHOW, perform essential functions. For a one-line display telephone, use the following buttons instead of these display buttons.

**Substitutes for display buttons**

<table>
<thead>
<tr>
<th>Display button</th>
<th>Dialpad button</th>
<th>Display button</th>
<th>Dialpad button</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td></td>
<td>CANCEL</td>
<td>#</td>
</tr>
<tr>
<td>QUIT</td>
<td></td>
<td>VIEW</td>
<td>#</td>
</tr>
<tr>
<td>ADD</td>
<td>*</td>
<td>OVERRIDE</td>
<td>#</td>
</tr>
<tr>
<td>SHOW</td>
<td>#</td>
<td>BKSP</td>
<td></td>
</tr>
</tbody>
</table>

All displays listed in this book are shown as they appear on the two-line display.

Prime line

Your telephone can be programmed to select an internal or external line or a line pool automatically whenever you lift the receiver or press the handsfree button. This is your prime line.

Private lines

A private line is exclusive to a particular telephone. Calls that are put on hold or left unanswered on a private line cannot be picked up at any telephone except the prime telephone.
Volume bar

The volume bar controls the volume of the receiver, telephone ringer, handsfree speaker, and headset. Press either end of the volume bar to adjust the volume.
Troubleshooting

Using the alarm telephone

An alarm telephone displays Modular MICS system alarm codes, should they occur. Alarm telephones are system digital phones with two-line displays that are specifically assigned by the installer to receive system alarm codes.

Reporting and recording alarm codes

If an alarm message appears on the alarm telephone display:

1. Record the alarm number.
2. Press TIME and record the time displayed.
3. Call your installer or customer service representative and report the alarm code.
4. After speaking to your installer or customer service representative, press CLEAR.

Displays

<table>
<thead>
<tr>
<th>Alarm: 61-4-2</th>
<th>TIME CLEAR</th>
</tr>
</thead>
</table>

Report this alarm and the time it occurred to your installer or customer service representative.
Testing the telephone

If you suspect something is wrong with a button, the speaker, the displays, or some other part of the telephone hardware, you can do a quick test to see which part of the telephone is broken.

Digital mobility phones do not use the following procedures. They may have internal tests. Refer to the user card that came with the handset.

Tip - Ensure that the function of a button matches its label by pressing  and then pressing the button to see its function.

You can end the telephone testing session anytime by pressing  or , unless you are testing those buttons. The test feature times-out after 30 minutes of no activity.

Testing the telephone display

Use a display test if you suspect that one of the indicators on the telephone is not working.

1. Press . The display reads Display test.
2. Press TEST or to go ahead with a display test.
3. Adjust the contrast for the telephone display so you are able to see the test results clearly. Enter a number to change the contrast or press DOWN and UP.
4. Press OK or  to go ahead with the test.

During the test, the display should be filled with solid, dark blocks and all the indicators next to the buttons on the telephone should be turned on. Attachments, such as Key Indicator Modules (KIMs) that are attached to the telephone
should be completely lit. You lose any information that was showing on the display before the test started.

Pressing any button ends the test.

**Testing the telephone buttons**

1. Press \[8\] 0 5, then \# or NEXT.
2. Press TEST or \(\) to go ahead with a button test.
3. Press the button to see its function. If the button you pressed uses an indicator, it turns on when you test the button.
4. Pressing the \(\) button puts Rls button on the display briefly and returns you to the Button test display.

**Testing the speaker in the telephone handset**

The handset test is not available if you have a headset plugged into the telephone.

1. Press \[8\] 0 5, then \# or NEXT twice. The display reads Handset test.
2. Press TEST or \(\) to go ahead with a handset test.
3. Pick up the handset and listen. Dial tone sounds through the handset at maximum volume. The volume is reset to maximum only while the test is going on.
4. Pressing any button or hanging up ends the test.
Testing the telephone headset

The headset test is not available to telephones that do not have a headset jack or a headset plugged in.

1. Press \[\text{\# 8 0 5}\], then \# or \text{\textsc{next}} until the display reads \text{\textsc{headset test}}.

2. Press \text{\textsc{test}} or \[\text{\textless}\] to go ahead with a headset test.

You should hear dial tone through the headset. The volume is reset to a default level during the test.

3. Pressing any button ends the test.

Testing the telephone speaker

1. Press \[\text{\# 8 0 5}\], then \# or \text{\textsc{next}} until the display reads \text{\textsc{speaker test}}.

2. Press \text{\textsc{test}} or \[\text{\textless}\] to go ahead with a speaker test.

A page tone sounds through the telephone speaker at the maximum volume. The volume returns to its previous setting when you end the test.

3. Pressing any button ends the test.

Testing the power supply to a telephone

1. Press \[\text{\# 8 0 5}\], then \# or \text{\textsc{next}} until the display reads \text{\textsc{power test}}.

2. Press \text{\textsc{test}} or \[\text{\textless}\] to go ahead with a power supply test.

You should see all the indicators on the telephone go on and hear ringing at maximum volume. When the test has ended, the display should briefly show \text{\textsc{power ok}}.

The test lasts for five seconds or until you press a button.
Common feature displays

You may see the following displays when you use a feature.

<table>
<thead>
<tr>
<th>Display</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access denied</td>
<td>Someone is already using programming, or the feature you are trying to use is not compatible with the configuration of the telephone or line.</td>
</tr>
<tr>
<td>Denied in admin</td>
<td>You have tried to use a feature, but you have not been given access to it in administration programming.</td>
</tr>
<tr>
<td>Feature timeout</td>
<td>You have taken more than 15 seconds to press a button in response to a display.</td>
</tr>
<tr>
<td>Inactive feature</td>
<td>You have entered a feature code that is used by an application program that your system does not have.</td>
</tr>
<tr>
<td>Invalid code</td>
<td>You have entered an invalid feature code.</td>
</tr>
<tr>
<td>Not available</td>
<td>You have tried to use a feature that is not available in the present setup of your Norstar system.</td>
</tr>
<tr>
<td>Set locked</td>
<td>You cannot use the feature you have chosen because your telephone is locked. See Using Set lock on page 225.</td>
</tr>
<tr>
<td>1234567890123... VIEW+ OK</td>
<td>Press # or press VIEW+ or VIEW- to view a number that is too long to fit on the display. Press VIEW+ or OK when you are finished.</td>
</tr>
<tr>
<td>$</td>
<td>This indicates a long distance call. (May be available with Call Display services.)</td>
</tr>
<tr>
<td>239&gt;221</td>
<td>You are receiving an internal call from telephone 239 forwarded by telephone 221 or you have an Answer button for telephone 221 and an internal call from 239 is ringing on 221.</td>
</tr>
<tr>
<td>221 TRANSFER</td>
<td>You are connected to an internal call. Press TRANSFER to transfer the call.</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>221 calling</strong></td>
<td>You are receiving a call from telephone 221.</td>
</tr>
<tr>
<td><strong>Call 221?</strong></td>
<td>You have received a Ring Again offer for a call to an internal telephone. Press the flashing internal line button or <strong>YES</strong> to call the number again. On 7000 and 7100 digital phones, just lift the receiver. Otherwise, press <strong>NO</strong> or wait 30 seconds for the Ring Again offer to expire. For an explanation of Ring Again, see <em>Using Ring Again</em> on page 84.</td>
</tr>
<tr>
<td><strong>Camped:</strong> 221</td>
<td>The person to whom you camped the call did not answer it. The call has come back to you. Press the line button or <strong>CALLBACK</strong> to reconnect to the call.</td>
</tr>
<tr>
<td><strong>Line001</strong></td>
<td>You are connected to an external call. Press <strong>TRANSFER</strong> to transfer the call.</td>
</tr>
<tr>
<td><strong>Line001&gt;221</strong></td>
<td>You are receiving an external call forwarded from telephone 221 or you have an answer button for telephone 221 and an external call is ringing on that telephone.</td>
</tr>
<tr>
<td><strong>Line001 transfer</strong></td>
<td>The call on line 001 is being transferred to you by someone else in your Norstar system.</td>
</tr>
<tr>
<td><strong>Line001 waiting</strong></td>
<td>A camped call is waiting. Press the line button or use Call Queuing to answer the call. Press the Hold button if you have 7000 and 7100 digital phones or Digital Mobility phones.</td>
</tr>
<tr>
<td><strong>No calls waiting</strong></td>
<td>You tried to use Call Queuing but no call was ringing at your telephone.</td>
</tr>
<tr>
<td><strong>No line selected</strong></td>
<td>There is no call ringing at your telephone. If you have a flashing line button but your telephone is not ringing, press the line button to answer the call on that line.</td>
</tr>
<tr>
<td><strong>Not in service</strong></td>
<td>The telephone to which you directed a call is not in service or is otherwise unavailable. The call is returned to your telephone.</td>
</tr>
<tr>
<td><strong>Parked call</strong></td>
<td><strong>CALLBACK</strong></td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------</td>
</tr>
<tr>
<td><strong>Pick up receiver</strong></td>
<td>No one answered the call you parked. The call has come back to you.</td>
</tr>
<tr>
<td><strong>Priority</strong></td>
<td>You have used the Call Queuing feature without picking up the receiver. Auto handsfree has not been assigned to your telephone. You must use the receiver or the button marked handsfree/mute to answer a call.</td>
</tr>
<tr>
<td><strong>Block</strong></td>
<td>You are receiving a priority call. If you are on another call, inform the person you are speaking to that you are about to put the call on hold. Press the flashing line indicator of the priority call or wait until the call connects automatically (eight seconds). The priority call goes through when you hear the next beep. Your active call is placed on Exclusive Hold. It is reconnected automatically when the priority call ends, unless you transfer the priority call, in which case you must press the line button of your original call to reconnect. Use DND (6 8 5) or press <strong>Block</strong> to reject a priority call.</td>
</tr>
<tr>
<td><strong>Release a call</strong></td>
<td>You have no free line buttons on which to receive a call. Release one of your current calls and try again to answer the incoming call.</td>
</tr>
<tr>
<td><strong>Use line pool?</strong></td>
<td>You have received a Ring Again offer for a line pool. Press the flashing internal line button or <strong>Yes</strong> to use the line pool. On 7000 and 7100 digital phones, just lift the receiver. Otherwise, press <strong>No</strong> or wait 30 seconds for the Ring Again offer to expire.</td>
</tr>
<tr>
<td><strong>Hold or release</strong></td>
<td>You cannot program a feature button while you are on a call.</td>
</tr>
<tr>
<td><strong>Release calls</strong></td>
<td>You have tried to use a feature while you were on a call or had calls on hold. Release the call or calls, before using the feature.</td>
</tr>
<tr>
<td><strong>Line in use</strong></td>
<td>The line is in use. Make the call using normal methods or wait until the line is free.</td>
</tr>
</tbody>
</table>

---

**N0000626 02**

**Modular ICS 4.0 System Coordinator Guide**
<table>
<thead>
<tr>
<th>Common feature displays</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No button free</strong></td>
</tr>
<tr>
<td>You have tried to make, receive or pick up a call when no line button was available. Some features require you to have a button free. Releasing calls can free up line buttons.</td>
</tr>
<tr>
<td><strong>Make calls first</strong></td>
</tr>
<tr>
<td>The feature you tried to use requires you to be on an active call at your telephone. This display appears when information about a call has been cleared by a system reset.</td>
</tr>
<tr>
<td><strong>No free lines</strong></td>
</tr>
<tr>
<td>All the lines or line pools available to the telephone are in use. This display appears when you have tried to dial an external number or use a feature that conflicts with the lines, line pools or prime line used by the telephone. This must be corrected by your customer service representative or installer.</td>
</tr>
<tr>
<td><strong>No line selected</strong></td>
</tr>
<tr>
<td>The telephone has been set up to dial an external number on a prime line but the telephone does not have a prime line. This must be corrected by your customer service representative or installer.</td>
</tr>
<tr>
<td><strong>In use:</strong> 221</td>
</tr>
<tr>
<td>You have tried to program redirection while someone else is programming redirection. Only one person can program line redirection at a time.</td>
</tr>
<tr>
<td><strong>Incoming only</strong></td>
</tr>
<tr>
<td>The line you are trying to use for redirecting calls is for incoming calls only. Choose an outgoing line.</td>
</tr>
<tr>
<td><strong>9_</strong></td>
</tr>
<tr>
<td>Continue entering digits. Press or <strong>BKSP</strong> to delete incorrect digits. Press or <strong>OK</strong> when you are finished.</td>
</tr>
<tr>
<td><strong>QUIT BKSP OK</strong></td>
</tr>
<tr>
<td><strong>Invalid number</strong></td>
</tr>
<tr>
<td>You have entered an invalid line pool code or an invalid destination code.</td>
</tr>
<tr>
<td><strong>Line denied</strong></td>
</tr>
<tr>
<td>You have selected a line that is private to another telephone.</td>
</tr>
<tr>
<td><strong>Restricted call</strong></td>
</tr>
<tr>
<td>The destination you have chosen for line redirection is restricted.</td>
</tr>
</tbody>
</table>
Glossary

Symbols

**7000 digital phone**: This telephone has a no display. It does have four memory buttons. (Note this telephone is only supported on systems running Profile 2, 3, or 4).

**7100 digital phone**: A telephone with a single line display and one programmable memory button without an indicator.

**7208 digital phone**: A telephone with a single-line display and eight programmable memory buttons with indicators. This telephone has a separate mute key and supports a headset.

**7316 digital phone**: A telephone that has a two-line display, three display buttons, 16 programmable memory buttons with indicators, and 12 memory programmable buttons without indicators. This telephone has a separate mute key and supports a headset.

**7316E digital phone**: This telephone has the same functionality as the 7316 digital phone, with some additional features, such as a separate handsfree key, special display icons (when running on a MICS 6.1 or newer system), and CAP capability by adding KIMs.

**7406 digital phone**: The 7406 base station desk set can support three handsets, which function like the other digital phones on the system. It has six programmable memory keys.

**7420/7430**: These Digital Mobility phones allow you to set up an extended cell of base stations that allow users to contact the system from a variety of locations within a site.

A

**access code**: Different sequences of characters used to gain access to these Norstar features: Line pools, Call park, external lines, Direct-Dial telephone, Auto DN, and DISA DN. Destination codes are also a form of access code.

**alarm code**: A number that appears on the alarm telephone display, informing you that the ICS has detected a fault in the system.

**alarm telephone**: A telephone that is designated to receive reports of Norstar system problems. This function is usually assigned to a prime telephone, but this can be changed under Feature settings in Sys programming.

**Answer button**: A telephone button with an indicator that is used to monitor another telephone. The answer button indicates incoming calls destined for the other telephone. Someone working at a telephone with answer buttons (an attendant, for example) can receive all ringing and visual indication of incoming calls for other telephones, and answer those calls when necessary. One telephone can have up to four Answer buttons. An Answer button is automatically assigned to a telephone when that telephone is assigned an Answer DN.

**Answer DN**: The internal or directory number (DN) of a telephone that is monitored by an Answer button. You can assign up to four Answer DNs to a telephone under Line Access in Terminals and Sets programming.
**Autobumping:** 0 8 1 5
A feature that determines what the system does with new Call Log items when your Call Log is full. When Autobumping is on, a new log entry causes the oldest entry to be deleted. If Autobumping is off, your Norstar system does not log calls when your log is full.

**Autodial button:** A memory button that, if programmed, provides one-touch dialing of external or internal numbers.

**Autolog options:** 6 * 8 4
A feature that allows you to select the type of calls that are stored in your Call Log. You can choose to log calls that were not answered by anyone within the system, to log calls that were unanswered at this telephone but which were answered elsewhere in the system, to log all calls answered and not answered at this telephone, or to not have calls automatically logged.

**Automatic Dial:** A feature that allows you to dial without having to pick up the receiver or select a line. You must have a prime line to use Automatic Dial. Automatic Dial is assigned under Dialing options in Terminals & Sets programming.

**Automatic handsfree:** A feature which automatically activates handsfree operation when you make or answer a call. Automatic handsfree is assigned under handsfree in Terminals & Sets programming.

**Automatic Hold:** A feature that automatically places an active call on hold when you select another line. Automatic Hold (Full AutoHold) is assigned in Lines programming.

**Automatic Privacy:** See Privacy.

**Automatic Daylight Savings Time:** A feature that switches the system to standard or daylight savings time at pre-programmed times. It is turned on or off under Daylight time in Sys programming.

**Automatic Telephone Relocation:** A feature that allows a telephone to retain personal and system programming when the telephone is plugged into a different Norstar modular jack. Automatic Telephone Relocation is enabled under Set relocation in Sys programming.

**Auxiliary ringer:** A separate external telephone ringer or bell which can be programmed to ring when a line or a telephone rings. An auxiliary ringer may be programmed to ring only when the system is in a particular schedule. Programming of an auxiliary ringer is done in Services programming after the feature has been enabled under Capabilities in Terminals & Sets programming.

**Base station:** A portable handset component that is mounted on walls and ceilings to provide a radio link to an office or other area where portable telephones are used. Each base station houses two radios that allow portables to send and receive calls through the ICS.

**Background Music:** A feature that allows you to hear music from the speaker of your Norstar telephone. It is available only if a music source has been attached to the ICS and the feature has been enabled under Feature settings in Sys programming.

**Basic password:** A one- to six-digit password that prevents unauthorized access to the most commonly-used telephone settings. The Basic password can be assigned and changed in Passwords programming.
Business series terminals These terminals were developed to replace the Norstar M-series terminals. Therefore, their functionality closely parallels the M-series terminals.

button caps: Interchangeable plastic caps that fit over the buttons of Norstar telephones. They are used to indicate the features programmed onto each programmable memory button. Button caps are either pre-printed or have clear windows that allow you to insert labels.

Button Inquiry: With this feature you can check the function of each programmable button on your system telephone.

Call Duration timer: A feature that allows you to see how long you spent on your last call, or how long you have been on your present call.

Call Forward: A feature that forwards all the calls arriving at your telephone to another telephone in your Norstar system. To have calls forwarded outside the system, use Line Redirection.

Call Forward No Answer: A feature that forwards all calls arriving at your telephone to another designated telephone in your Norstar system after a specific number of rings. Call Forward No Answer is assigned under Capabilities in Terminals&Sets programming.

Call Forward On Busy: A feature that forwards all calls at your telephone to another designated telephone if your telephone is busy. This feature is assigned under Capabilities in Terminals&Sets programming.

Call Forward Override: An automatic system feature that allows you to call someone and ask them to stop forwarding their calls to you.

Call Information: Call Information allows you to display information about incoming calls. For external calls, you can display the caller name, telephone number and the line name. For an internal call, you can display the name of the caller and the internal number. You can obtain information about ringing, answered, or held calls.

Call Log: Enter your Call Log to view a record of incoming calls. The log could contain the following information for each call: sequence number in the Call Log, name and number of caller, long distance indication, indication if the call was answered, time and date of the call, number of repeated calls from the same source, and name of the line that the call came in on. See Autobumping, Autolog options, and Call Log for further information.

Call Park: With this feature you can place a call on hold so that someone can retrieve it from any other telephone in the Norstar system by selecting an internal line and entering a retrieval code.

The retrieval code appears on the display of your telephone when you park the call. You can park up to 25 calls on the system at one time.

Call Park Callback: See Callback.

Call Park prefix: The first digit of the retrieval code of a parked call. This digit cannot conflict with the first digit of any existing DNs, Line Pool access codes, the Direct-dial digit, or the external line access code. The default Call Park prefix digit is 1. It may be set to none, in which case Call Park is disabled. Call Park prefix is assigned under Access codes in Sys prgrmmng.
Call Pickup Directed: ≤‡fl
A feature that allows you to answer a call ringing at any system telephone by entering the internal number of that telephone before taking the call. Call Pickup Directed is enabled under Feature settings in Sys prgrmmng.

Call Pickup Group: See Pickup Group.

Call Queuing: ≤°'⁄
If you have several calls waiting at your telephone, you can invoke the Call Queuing feature to answer them in order of priority. Priority is given to incoming calls, followed by callback and camped calls.

Callback: If you park, camp, or transfer a call to another telephone and it is not answered there, it will ring again at your telephone. How long the system will wait before Callback occurs is set under Feature settings in Sys prgrmmng.

Camp-on: ≤°¤
A feature that allows you to reroute a call to a telephone even if all the lines on that telephone are busy. To answer a camped call, use Call Queuing or select a line if the camped call appears on your telephone. Priority is given to queued calls. Note: Systems which use a centralized voice mail system attached to a Meridian 1, can provide this service to all nodes of the network.

Camp timeout: The length of a delay before a camped call is returned to the telephone that camped the call. The length of delay is set under Feature settings in Sys prgrmmng.

Central answering position (CAP): A 7316E+KIM that provides additional memory buttons. An enhanced CAP (eCAP) is a 7316E+eKIM that has been designated as an eCAP under CAP/KIM assign in Sys prgrmmng. The eCAP provides backup answering by supporting line appearances and multiple appearances of target lines as well as hunt group designators. An eCAP can be used to monitor the telephones within a Norstar system.

Class of Service (COS): The set of Norstar features and lines available to the user for a call. The Class of Service for a call is determined by the restriction filters and remote access packages assigned to the telephone in Lines programming. The Class of Service for a call can be changed by entering a six-digit Class of Service password. (Internal users cannot change their access to features with a COS password, only their restriction filters.) Class of Service and Class of Service passwords are assigned in Passwords programming. See Remote Access.

Class of Service password: ≤fl°
A six-digit code that allows you to switch from your current Class of Service to one that allows you to dial numbers prohibited by your current Class of Service.

Conference: ≤‹
A feature allows you to establish a three-person call at your Norstar telephone.

contrast adjustment: ≤•‡
Allows you to set the contrast level of your telephone display.

control telephone: A control telephone can place the lines for which it has responsibility in or out of a Service Mode.

The direct-dial telephone is a control telephone for directing calls to the extra direct-dial telephone. A telephone is made a control telephone and has lines assigned to it in Services programming.
Coordinated Dialing Plan: (CDP)
This dialing plan uses a steering code to identify each node in a private network. This one-digit code becomes part of the set DN number rather than a separate code. In this way, system A might have codes in range 2100 to 2999, whereas system B might have codes in range 3100 to 3999.

COS: See Class of Service.
cursor: A short horizontal line that appears on the system telephone display to indicate that characters can be entered using the dialpad.

data terminal: A device, such as a modem, that can be used to transfer data instead of sound over a telephone network. You cannot use Norstar programming to set up such devices. See the documentation that accompanies the device.
date: See Show Time or Time and Date.
defaults: The settings for all Norstar features when the system is first installed. Settings are changed from their defaults in programming. In this manual, default settings are shown in bold text.

Delayed Ring Transfer (DRT) to prime: After a specified number of rings, this feature transfers an unanswered call on an external line, to the prime telephone associated with that line. This feature is activated under Feature settings in System programming.
destination code: A two- to seven-digit number that the system interprets and then translates into the digits that you want dialed out. Both the code and its associated dialed digits are assigned under Routing service in Services programming.
dialing restriction: See Restriction filter.
dialing modes: [6 * 8 2]
This feature allows you to set the dialing mode of your telephone. Norstar supports three dialing modes: Automatic Dial, Pre-Dial, and Standard Dial. All three modes support on-hook dialing, meaning you can dial a call without picking up the receiver. The special features of the Automatic and Pre-Dial modes are available only when you dial on-hook.

Digital Mobility phones: These telephones connect to the system through station modules connected to a Nortel Networks Digital Mobility controller.

Direct-dial: A feature that allows you to dial a designated telephone in your Norstar system with a single digit, such as the main receptionist. As many as five direct dial sets can be established. Each telephone in the system is assigned to one direct-dial telephone. There is a single, system wide digit for calling the assigned direct-dial telephone of any telephone. Direct-dial telephones are established in System programming. Telephones are assigned to a direct-dial telephone under Capabilities in Terminals & Sets programming.

Direct-dial #: A digit used system-wide to call the Direct-dial telephone. The digit is assigned under Access codes in System programming.

Direct-dial number: The digit used to call the direct-dial telephone.

Direct inward system access (DISA): The feature that allows remote users to dial directly into the Norstar system and use Norstar features. Callers will hear stuttered dial tone and will be required to enter a Class of Service password to gain access to the system. See Remote Access.
**directed pickup**: See Call Pickup Directed.

**Directory number (DN)**: A unique number that is automatically assigned to each telephone or data terminal. The DN, also referred to as an internal number, is often used to identify a telephone when settings are assigned during programming.

Default DN assignments start at 221.

**DISA DN**: The received number assigned to the Norstar direct inward system access facility. If a caller dials a number that is assigned to the DISA DN, the caller hears stuttered dial tone and must enter a Class of Service password. Once the password is accepted, the caller hears system dial tone and can use Remote Access features. See Remote Access.

**Disconnect Supervision**: A setting that enables the Norstar system to detect if an external caller hangs up. Once an external caller hangs up, the Norstar system can disconnect its line. **Disconnect Supervision** is enabled under **Trunk/Line** data in **Lines** programming.

**display**: A liquid crystal display (LCD) on the telephone that guides you through feature operation and programming.

**display button**: Two-line display telephones are equipped with three buttons located directly beneath the display. During feature operation or programming, some or all of these buttons may be used to provide further options. If an option is available, it is shown in the bottom row of the two-row display, directly above the corresponding display button. Display buttons are represented in this manual as underlined capital, such as **OK**.

**DN**: See Directory number.

**Do Not Disturb**:  
A feature that stops calls from ringing at your telephone. Only Priority Calls will ring at your telephone. A line button will flash when you receive a call, but the call will not ring.

**DTMF**: See Dual tone multifrequency.

**dual tone multifrequency**: Two distinct telephone signaling tones used for dialing.

**Emergency 911 dialing**: The capability to access a public emergency response system by dialing the digits 9-1-1. State and local requirements for support of Emergency 911 Dialing service by Customer Premises Equipment vary. Consult your local telecommunications service provider regarding compliance with applicable laws and regulations.

**emergency telephone**: A single-line telephone, also referred to as a 500/2500 telephone, that becomes active when there is no power to the ICS.

**evening schedule**: See Schedules, and Services.

**event message**: Event messages are stored in the system log and displayed during a Maintenance session. They record a variety of events and activities in the Norstar system.

**exceptions**: See Overrides.

**external call**: A call to a destination outside the Norstar system.

**External Call Forward**: See Line Redirection.

**external code**: The number you dial to get an external line. By default it is 9, but this can be changed under **Access codes** in **Sys prgrmmng**. You do not always need an external code. It is primarily to support the 7000 and 7100
digital phones, and analog telephones connect to Analog Terminal Adapters or analog station modules.

**external line:** A line on your system telephone used for making calls to destinations outside the Norstar system.

**external music source:** See Music source.

**external paging:** A feature you can use to make voice announcements over an externally-mounted loudspeaker connected to the ICS. The external speaker is not a Norstar component and must be supplied by the customer.

**F**

**feature button:** Many Norstar features are invoked by pressing the Feature (≤) button followed by a feature code. The feature button is also used to exit a feature.

**feature code:** A number that is used to activate a particular feature.

**Feature programming:** ≤•‹ Allows you to program a feature code onto a memory button.

**Forward:** See Call Forward.

**Full Autohold (on idle line):** When this feature is on, if you select an available line and then do something that selects another line, the first line is put on hold. **Full Autohold** is enabled under Trunk/Line data in Lines programming.

**Full handsfree:** See handsfree.

**G**

**Group Listening:** ≤°'¤ A feature that allows you to have others in your office hear a caller through your telephone speaker. The caller hears you only when you speak into the receiver. They cannot hear other people in the office.

You can cancel Group Listen for the current call. Group Listen is cancelled automatically when you hang up the Group Listen call.

**H**

**Handsfree:** A feature you can use to make calls without using the telephone receiver. **Full Handsfree** is activated under Capabilities in Terminals&Sets programming. When it is activated, a handsfree button is automatically assigned to the telephone.

**Handsfree (HF) Answerback:** When activated, this feature automatically turns on the microphone at a telephone receiving a Voice Call so that the person receiving the call can respond without lifting the receiver. It is activated under Capabilities in Terminals&Sets programming.

**Handsfree/Mute button:** See handsfree.

**Hardware:** A section in programming that shows what equipment has been installed in the ICS. This section is accessed by the installer.

**headset:** A head-mounted or ear-mounted telephone receiver that is used instead of the hand-held receiver. Headsets are not Norstar components and must be supplied by the customer.

**Held (Line) Reminder:** A system telephone rings and displays the message On hold: LINENAM when an external call has been placed on hold for a certain period of time. The Held Line Reminder feature and Remind delay are set under Feature settings in Sys programming.

**HF Answerback:** See handsfree answerback.
Hold button: This button is used to suspend calls so that the person using the telephone can perform another task without disconnecting the caller.

Hook Switch Flash: See Link time.

Host system signaling: (Also referred to as end-to-end signaling.) System telephones can access a remote system or dial a number on an alternate carrier by means of host feature activation, such as Link, Pause and Run/Stop.

Hospitality: The Hospitality features allow business which use hospitality telephones, or room-based telephones, to control access, alarms, and maintenance duties through the telephones.

Hotline: This feature automatically calls a pre-assigned number when the telephone receiver is lifted or the handsfree/mute button is pressed. A Hotline number can be an internal or external number. Hotline is assigned under Capabilities in Terminals&Sets programming.

Hunt group: The hunt groups feature allows a group of sets to be called by a single directory number ensuring that calls are easily routed to the appropriate group.

I/C: An abbreviation of intercom.

ICS (integrated communication system): The central hardware component in the Norstar system. The ICS has its own processor and memory, and provides a physical point of connection for the various types of devices, telephones, and expansion modules used in Norstar.

The ICS can function on its own as a basic system (with 32 system telephones and up to 48 external lines), or with the addition of Trunk Modules (TM) that support more external lines, or Station Modules (SM) that support more system telephones.

Integrated Services Digital Network (ISDN): A digital telephone service that allows for a combination voice and data connection over a single, high-speed connection. ISDN service can operate over the same copper twisted-pair telephone line as analog telephone service.

Intercom button: A button that provides access to internal lines used for calls within a Norstar system and access to external lines through a line pool or external code. A telephone may be assigned zero to eight Intercom buttons. This is done under Line access in Terminals&Sets programming.

Intercom buttons: See Intercom button.

Internal line: A line on your telephone dedicated to making calls to destinations inside your Norstar system. An internal line may still connect you with an external caller if you use it to access a line pool or to pick up a call using Norstar call handling features such as Call Park or Call Pickup Directed.

Internal number: A number, also referred to as a Directory Number or DN, that identifies a Norstar telephone or device.

Internal user: Someone using a system telephone within a Norstar system.

ISDN: See integrated services digital network.
ISDN DN: A directory number (DN) used by ISDN terminal equipment connected to the ICS. The system uses a maximum of 30 ISDN DNs.

K
Key indicator module (KIM) This hardware unit allows you to expand the receive capability of a 7316E digital phone. You can configure the resulting CAP into an enhanced CAP (eCAP) to support lines, multiple appearances of target lines, and hunt group designators.

L
Last Number Redial: A feature that allows you to redial the last external number you dialed.

Fixed line: A telecommunications line between two service points leased from a communications carrier for private use, usually incurring a monthly service rate. Fixed lines setting is used solely by data modules.

Least cost routing: See Routing service.

line: The complete path of a voice or data connection between one telephone (or other device) and another.

Lines: A programming section that allows you to assign settings to each trunk and external line. Lines programming can be done by an Installer or a System Coordinator Plus. A System Coordinator can program the name of a line.

Line number: A number that identifies an external line. The total number of lines depends on how many Trunk Modules are installed.

Line Pool: A group of lines used for making external calls. Line pools provide an efficient way of giving a telephone access to external lines without taking up many line buttons. A line is assigned to be part of a line pool under Trunk/Line data in Lines programming.

Line Redirection: A feature that allows you to redirect all calls on an incoming line to a destination outside the Norstar system. Once a line is redirected it cannot be answered within the Norstar system. The system may be set up to give a brief ring when a call comes in on a redirected line, under Capabilities in Terminals&Sets programming.

This feature differs from Call Forward in two ways: It redirects only external calls, not internal calls, and it redirects calls to destinations outside the system. Call forward redirects calls only to destinations inside the Norstar system. See Call Forward.

Link: If your Norstar system is connected to a Private Branch Exchange (PBX), you can use a Link signal to access special features. The Link signal can also be included as part of a longer stored sequence on an External Autodial button or in a Speed Dial code. The Link symbol (𐊝) uses two of the 24 spaces in a dialing sequence.

Long Tones: A feature that allows you to control the length of a tone so that you can signal devices such as fax or answering machines which require tones longer than the standard 120 milliseconds.

Lunch schedule: See Schedules, and Services.

M
Malicious Caller ID (MCID) This feature is a European ETSI-based network feature that allows a user to use ﾗ 8 9 7 record the caller information at the service provider.
memory buttons: Buttons that can be programmed to dial frequently used features or numbers automatically.

message: A feature that allows you to send a message to another Norstar user. The Message feature also allows you to know if you have any messages waiting and maintains a Message Waiting List to keep a record of your internal messages and your (external) voice mail messages.

Message Waiting Indicator: PRI lines can provide the signal that cause the set to display a message-waiting message, or light a lamp on the set to indicate a voice message.

Monitoring See Silent Monitoring.

Move Line buttons: A feature that allows you to move assigned lines to different buttons (with indicators) on your telephone.

Music source: A radio or other source of music can be connected to the Integrated Communication System to provide music for the Music on Hold and Background Music features. A music source is not part of the Norstar system and must be supplied by the customer.

Names: Names can be assigned to System Speed Dial numbers, external lines, telephones, and service schedules. This is done in programming. You can use up to 16 characters to name a System Speed Dial number, and seven characters to name a telephone, line, or schedule. If a Name has not been assigned, the line number or DN will appear on the display instead of a name.

Network DN: A number supplied by the ISDN network service provider for ISDN terminal equipment.


O

On hold: A setting, programmed under Feature settings in Sys prgrmmng, that controls whether external callers hear music, periodic tones, or silence when they are placed on hold.

overlay: See Programming overlay.

overflow: A setting in Routing Service that allows users to decide what path an outgoing call will take if all the lines used in a particular route are in use when the call is made.

OverrIdes: One component of a restriction filter. Overrides are numbers you can dial even if they are forbidden by a more general restriction. See Restrictions.

P

Page: A feature you can use to make announcements over the Norstar system. You can make page announcements over the telephone speakers and/or external speakers.

Page Time out: A setting that controls how long a Page Announcement can last. It can be assigned under Feature settings in Sys prgrmmng.

Page zone: An area in the office that receives internal page announcements independently of the rest of the office. Each page zone is identified by a number. Telephones are assigned to page zones under Capabilities in Terminals&Sets programming.

Park prefix: See Call park prefix.
Park timeout: The time before an unanswered parked call is routed back to the telephone that parked it. Park timeout is configured under Feature settings in Sys programming.

Password: A password is a specific sequence of digits that you enter to gain access to Norstar programming, to override dialing restrictions, or to use remote access with DISA.

Passwords: A programming section that allows you to assign or change COS passwords, Call log passwords, or any of the programming passwords. Under Passwords programming, you can only modify the passwords for your level of programming.

Pause: A feature that enters a 1.5-second delay in a dialing sequence on an external line. This is often required for signaling remote devices, such as answering machines, or when reaching through to PBX features or host systems. The Pause symbol (•) uses one of the 24 spaces in a dialing sequence. For pulse dialing, 9 inserts a 1.5 second pause into the dialing sequence.

PBX: private branch exchange.

Pickup Group: A telephone can be placed into one of nine call pickup groups. A call ringing at a telephone within a pickup group can be picked up at any other telephone within the same pickup group. A telephone is assigned to a pickup group under Capabilities in Terminals&Sets programming.

Pool: See Line pool.

portable telephone: See Digital Mobility phones.

Pre-dial: A feature that allows you to enter a number and check it on your telephone display before it is actually dialed. If the number is incorrect, you can edit it. The number is dialed only when you pick up the receiver or select a line.

Primary Rate Interface (PRI): An ISDN interface which uses 23 B channels and a D channel (23B+D) for profiles 1, 3 and 4, and D channel (30B+D) for Profile2.

Prime line: The line on your telephone that is automatically selected when you lift the receiver, press the handsfree/mute button or use an external dialing feature.

Prime Set (prime telephone): A telephone that provides backup answering for incoming calls on external lines. The prime telephone for a line will ring for any unanswered calls on that line. A prime telephone is assigned to a line under Trunk/Line data in Lines programming.

Priority Call: If you get a busy signal when you call someone in your office, you can interrupt them for an urgent call. This feature is enabled for a telephone under Capabilities in Terminals&Sets programming.

Privacy: This feature determines whether a Norstar user may select a line in use at another telephone and join an established call. Privacy is enabled under Trunk/Line data in Lines programming, but can be turned on and off by users during individual calls.

Private line: See Private to.
**Private Monitoring** This feature allows a user with a two-line display telephone that has been designated as a supervisor telephone, to monitor Hunt group calls from external sources using 8 5 5 0.

**Private network:** A telephone network consisting of owned or leased telephone lines used to connect different offices of an organization independently of the public network.

**Private Network Identifier (PNI)** this is an identifying digit or set of digits assigned to each system in a private network with a Meridian system. These codes are provided by the Meridian system administrator when the node is brought on to the network.

**Private to:** Allows you to select the telephone that will use the line exclusively. The line cannot appear on any other telephone, except the prime telephone for that line. Private lines cannot be placed into line pools. Private lines are assigned under Trunk/Line data in Lines programming.

**Programmed release:** 8 9 9 A feature that performs the function of the button in a programmed dialing sequence.

**programming:** Setting the way the Norstar system will work. Programming includes system-wide settings and individual telephone and line settings.

**programming overlay:** A paper template that is placed over the four memory buttons with indicators on the two-line display telephone during programming. The overlay labels indicate the special function that each of the four buttons takes on in programming.

**public line:** An external line that can be assigned to any telephone and to many telephones. A line is assigned as Public under Trunk/Line data in Lines programming.

**public network:** The regular telephone network that connects most homes and businesses.

**Public Safety Answering Point (PSAP):** This is the first point of contact a caller reaches after dialing 911.

**pulse/tone dialing:** An external line setting for pulse or tone dialing. Pulse is the traditional method of dialing used by rotary-dial or push-button single-line telephones. Tone dialing allows telephones to communicate with other devices such as answering machines. Tone dialing is required to access the features that PBX systems may offer or to use another Norstar system remotely.

**R**

**recall:** See Link time.

**receiver:** The handset of a telephone.

**receiver card:** An abbreviated list of system feature codes that is stored under the telephone receiver. The card is found on a perforated sheet that comes with a system telephone.

**Remind delay:** A feature that causes a telephone to beep and display the message **On hold: LINE#** when a call has been on hold for a programmable period of time. This period is the Remind delay.

**Remote access:** The ability to dial into a Norstar system from outside the system and make use of selected Norstar features. The lines, features, and dialing capabilities available to a remote user are determined by the Class of Service.
If the remote access line is answered with DISA, the user must enter a Class of Service password to gain access to the Norstar system features.

**remote access dial restriction:** See Remote restriction.

**Remote capability:** A subset of Norstar features that are available to users connected through remote access.

**Remote monitoring:** A feature that allows an off-site technician with a PC call in and troubleshoot your system through the built-in modem.

**Remote paging:** This feature allows remote users to use the Norstar paging feature. Access to this feature is governed by the Class of Service for the call. See Remote Access and Class of Service.

**Remote restriction:** A restriction filter applied to a line in order to control which digits can be dialed during an incoming remote access call. It is the equivalent of a set filter for a remote user.

**remote user:** Someone who calls into a Norstar system from a telephone outside that system and uses Norstar features or lines. See Remote Access.

**Restriction filter:** Through a combination of restrictions and overrides, restriction filters prevent certain telephone numbers or feature codes from being dialed. Restriction filters can be applied to lines, sets, specific lines on a set, and to Class of Service passwords. The Norstar system can handle up to 100 restriction filters.

**Restriction service:** A Services section that allows you to assign alternate dialing filters to lines, telephones, lines on a particular telephone, and alternate remote filters to lines at specified times of the day and on specified days.

**restrictions:** One component of a Dialing filter. Restrictions are numbers you cannot dial when that dialing filter is in effect. See Exceptions.

**Ring Again:** A feature that can be used when you can't get through to someone on your Norstar system because their telephone is busy or there is no answer. Ring Again instructs the Norstar system to inform you when they hang up or next use their telephone.

**ring group:** A setting under Services that allows you to assign a number of different telephones to ring during one of the schedules. Up to 20 ring groups can be programmed by an installer or a system coordinator plus.

**ring type:** A feature that allows you to select one of four distinctive rings for your telephone.

**ring volume:** A feature that allows you to set the volume at which your telephone rings.

**ringing service:** A Services section that allows you to make additional telephones ring at specified times of the day and on specified days.

**Release button:** Ends a call in the same way that hanging up the receiver does. The Release button may also be used to end programming, Maintenance sessions, and feature operations.

**Routing:** See Routing service.

**Routing service:** A programming section that allows outgoing calls to be directed automatically based on the numbers a caller dials. For Norstar systems linked in a network, routing can create a transparent or coordinated dialing plan. It can also be used to direct calls to the least expensive lines according to a Services schedule (sometimes called least cost routing).
Run/Stop: \[6 \star 0\]
A feature that creates a break point in a programmed external dialing sequence. When you press a programmed button, the system dials the number up to the run/stop. When you press it again, the system dials the digits following the run/stop.

Saved Number Redial: \[6 \ 6 \ 7\]
A feature that allows you to save the number of the external call you are on (providing you dialed the call) so that you can call it again later.

Schedules: Any of six different sets of services that can be applied to your Norstar system. A schedule can be activated manually from a control telephone or activated automatically at specified times. See also Services.

Selective line redirection: See Line Redirection.

Service modes See Services.

Service Profile Identifier: See SPI.

Services: A programming section that allows you to assign which telephones ring, which restrictions apply, and which call routing is used during any of six different schedules. There are three services: Ringing service, Restriction service and Routing service, all found in Services programming.

set: A telephone.

Set Copy: A programming section that allows you to copy programmable settings from one telephone to another of the same type. Set Copy provides two options: duplicating System Data and User Data, or duplicating System Data only. Set Copy does not provide the same copy capability as COPY, which is more selective of the settings that can be duplicated.

Set filter: See Restriction filter.

Set lock (telephone lock): This feature allows you to limit the number of features that may be used or programmed at a telephone. Full set lock allows very few changes or features, Partial set lock allows some changes and features, and No set lock allows any change to be made and any feature to be used. Set lock is assigned under Capabilities in Terminals and Sets programming.

Set relocation: See Automatic Telephone Relocation.

Silent Monitoring
This feature allows a user with a two-line display telephone that has been designated as a supervisor telephone, to monitor Hunt group calls from external sources using \[6 \star 5 \ 5 \ 0\].

Show Time: \[6 \ 8 \ 0 \ 3\]
While on a call, accessing this feature allows you to see the current date and time on the Norstar telephone display.

Startup programming: When a Norstar system is first installed and powered up, Startup programming must be performed before any programming can be done. Startup initializes the system programming to defaults.

Station: An individual telephone or other Norstar device.

System coordinator: The person responsible for customizing the Norstar system through programming and for helping co-workers use the Norstar system.
**System coordinator password:** A one- to six-digit password that prevents unauthorized access to programming. The System coordinator password can be assigned and changed in Passwords programming.

**System coordinator plus:** A system coordinator who also performs technical and maintenance functions for the Norstar system.

**System coordinator plus password:** A one- to six-digit password that prevents unauthorized access to programming. The System coordinator plus password can be assigned and changed in Passwords programming.

**System coordinator programming:** The programming settings that are most commonly changed once the Norstar system is installed. Press \( oldsymbol{0} \boldsymbol{0} \boldsymbol{5} \boldsymbol{0} \boldsymbol{2} \boldsymbol{1} \), then \( oldsymbol{0} \boldsymbol{5} \boldsymbol{3} \boldsymbol{6} \) to access System coordinator programming.

**System data:** An option in the Set Copy function. System Data refers to the programmable system settings that apply to all telephones and lines.

**System programming:** A programming section that allows you to assign and maintain certain settings on the Norstar system. System programming is performed by an installer or system coordinator plus.

**System speed dial code:** A three-digit code (001 to 255) that can be programmed to dial a telephone number up to 24 digits long. System speed dial codes are programmed for the entire Norstar system under the System Speed programming heading.

**System ID:** The System ID (or System Security number) can be accessed on any programming telephone display by pressing \( oldsymbol{0} \boldsymbol{0} \boldsymbol{5} \boldsymbol{0} \boldsymbol{7} \boldsymbol{9} \boldsymbol{7} \boldsymbol{4} \boldsymbol{3} \), or \( oldsymbol{0} \boldsymbol{0} \boldsymbol{5} \boldsymbol{0} \boldsymbol{7} \boldsymbol{9} \boldsymbol{7} \boldsymbol{4} \boldsymbol{3} \).

**System-wide Call Appearance (SWCA) keys** \( oldsymbol{0} \boldsymbol{5} \boldsymbol{2} \boldsymbol{1} \) to \( oldsymbol{0} \boldsymbol{5} \boldsymbol{3} \boldsymbol{6} \) These 16 feature codes can be assigned to buttons with indicators on a group of telephones to provide call appearance for incoming calls that can be answered by any telephone in the group. At the same time, the indicator displays the current status of the call.

**T**

**Target lines:** Lines used to answer incoming calls only. A target line routes a call according to digits it receives from an incoming trunk. They are referred to by line numbers in the same way as physical lines.

**Telco features:** A programming section that allows you to specify the external telephone numbers that are dialed by the Message feature to retrieve voice messages, or to set up CLASS (CMS) services for lines and sets. Telco features are accessed by an installer or a system coordinator plus.

**Terminal equipment (TE):** A generic term for devices that connect to an ISDN network. Examples of ISDN TE are ISDN telephones, computers equipped with ISDN cards and video terminals.

**Terminals and Sets:** A programming section that allows you to assign and change settings that apply to the telephones and other devices connected to the Norstar system. Terminals and Sets programming is performed by an installer or a system coordinator.
**Time and date:** A programming section that allows you to manually change time or date. The time and date can also be changed by pressing \(*\,*\, M E\) and entering the Basic password or one of the programming passwords.

**Transfer:** \(\, 7\, 0\)
A feature that allows you to redirect a call to another telephone in your Norstar system, over a network or outside your Norstar system.

**Transfer Callback:** If a transferred call is not answered after a specific number of rings, the call will return to the telephone that made the transfer. The number of rings is assigned under Feature settings in System programming. Transfer Callback does not apply to calls transferred externally.

**Trunk:** The physical connection between the Norstar system and the outside world using either the public telephone system or a private network.

**Trunk Answer:** \(\, 8\, 0\, 0\)
A feature you can use to answer a call on any line that has an active Ringing service Service Mode, even if that line does not appear on your telephone. Trunk Answer is enabled in Services programming.

**Uniform Dialing Plan:** (UDP) This type of dialing plan uses a location code to identify each node on a private network. Dialing sequence: (destination code)+(location code)+DN.

**User Data:** User Data is an option in the Set Copy feature. User Data refers to the personal settings that are unique to an individual telephone, and are not programmed for the system. User Data is programmed at each telephone.

These settings, for example, include user Speed Dial and the assignment of programmable memory buttons.

**User Filter:** See Restriction filter.

**User Preferences:** a programming section that allows you to assign autodialers, user speed dial codes, display contrast, and other settings to a specific telephone or person. You do not have to program these settings at the person’s telephone. User preferences are assigned in Terminals and Sets programming.

**User Speed Dial:** \(\, 4\)
Three-digit codes (256-279) can be programmed to dial external telephone numbers. User Speed Dial numbers are programmed for each telephone, and can be used only at the telephone on which they are programmed.

**Voice Call:** \(\, 6\, 6\)
A feature you can use to make an announcement or begin a conversation through the speaker of another telephone in the Norstar system. The telephone you call will not ring. Instead, the person you call will hear a beep and then your voice. Their telephone will beep periodically to remind them that their microphone is open.

**Voice Call deny:** \(\, 8\, 8\)
A feature that prevents your telephone from receiving Voice Calls.

**Voice message center:** If you have subscribed to Call Display services you can receive visual Voice Message Waiting Indication, providing your telephone has a display. If you have Voice Message Waiting Indication, you can program the telephone numbers...
required to access up to five different Voice Message Centers. You can also program which of the five Centers is to be accessed by each specific line.

**W**

**Wait for dial tone:** [6][8][0][4]

A feature that causes a sequence of numbers to pause until dial tone is present on the line before continuing to dial. The Wait for dial tone symbol (‡) uses two of the 24 spaces in a dialing sequence. This feature requires a Services or Combo Cartridge.

**wireless:** See Digital Mobility phones.
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