

#### Admin Phone User Manual

Nyquist NQ-T1100



# **Contents**Contents

1	Usi	ing the Admin Phone	1
	1	Hardware Components and Features	1
	2	Configuring the Admin Phone	5
	3	Making Pages	6
		3.1 Multi-Site Emergency-All-Call Paging	7
		3.2 Multi-Site All-Call Paging	8
		3.3 Emergency-All-Call Paging	8
		3.4 All-Call Paging	9
		3.5 Zone Paging	9
		3.6 Record Page	10
	4	Making Calls	11
	5	Changing the Event Schedule	12
	6	Playing Alarms	13
	7	Playing Tones	14
	8	Forwarding Calls	
	9	Using the Voice Mail Feature	
	10	Recording Announcements	
	11	Playing Recorded Calls	
	12	Restart Nyquist Server	
	13	Stop Announcement	
	14	Stop Scheduled Audio	
	15	Using Audio Distribution	
	16	Launching Routines	
	17	Customizing Line Keys	
		17.1 Reserving Line Keys by .rlkeys File Creation	22
A	Ny	quist DTMF Feature Dialing Codes	25
	A.1	Alarm/Tone Activation (CoS: Activate Alarm	
		Signals   Manually Activate Tone Signals)	25
		Calling	
		Call Forwarding (CoS: Call Forwarding)	
		Call Parking/Call Pickup	
	A.5	Call Transfer (CoS: Call Transfer)	26
	Α6	Conferencina	27

A.7 Monitoring/Recording	27
A.8 Paging	28
A.9 Voicemail (CoS: Voicemail)	29
A.10 Walking CoS (CoS: Walking Class of Service)	29
A.11 Dial Codes Used for Simulating Calls to Admin Statio from Station Call Switches30	n
A.12 Routines (CoS: Execute Routines)	30
A.13 Audio Distribution (CoS: Audio Distribution)	30
A.14 Miscellaneous Dial Codes	30

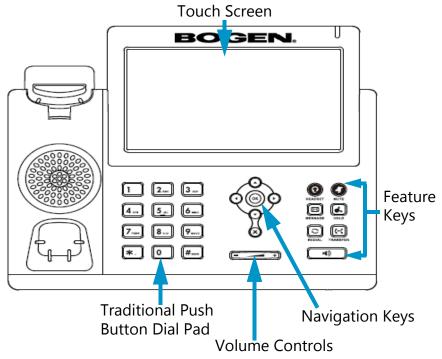
## Using the Admin Phone

The Bogen Model NQ-T1100 by Yealink is designed to serve as the Administrative Display Phone, or Admin Phone, for Nyquist E7000 Series systems. This phone combines a traditional telephone keypad with a color touch screen to provide rapid, efficient, and reliable control over many Nyquist E7000 features, such as launching Emergency-All-Call pages and managing school bell schedules.

This manual guides you through the use of the Admin Phone with the Nyquist system.

#### 1 Hardware Components and Features

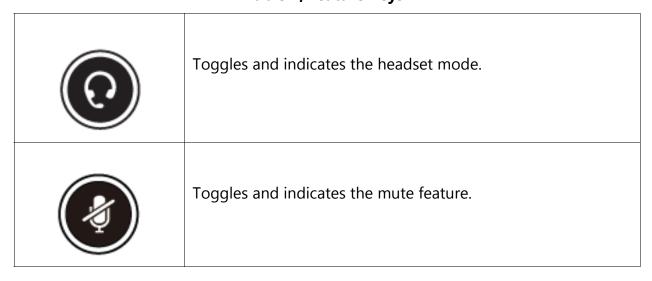
The main components of the Admin Phone are the 7-inch  $800 \times 480$  pixel 24-bit color touch screen display and the keypad. In addition to the traditional 12 push-button dial pad, the Admin Phone features 7 feature keys, 6 navigational keys, and volume control keys.



**Figure 1, Hardware Components** 

The feature keys are described in the following table:

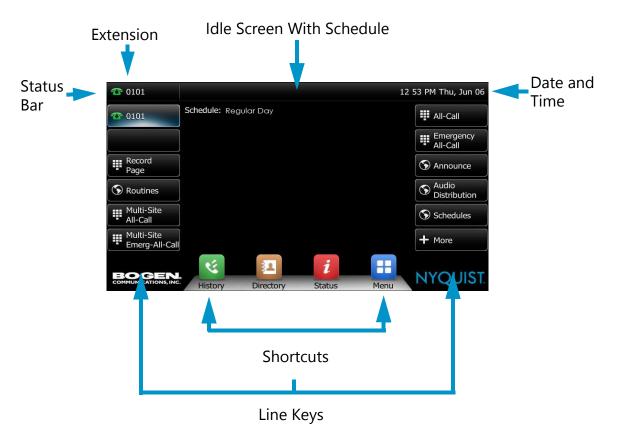
**Table 1, Feature Keys** 



**Table 1, Feature Keys (Continued)** 

	Allows you to retrieve voice mail messages, provided your Nyquist system has been set up to allow voice mail messages for this phone.
	Places a call on hold or resumes a held call.
	Redials the last number called.
( <del>*</del> (	Allows you to transfer a call to another extension.
	Toggles the hands-free speaker phone mode.

The touch screen displays information about calls, messages, and status and provides a graphical user interface (GUI) that allows you to quickly launch pages, access and change Schedules, and use other Nyquist features. The touch screen makes switching between different screens swift, easy, and convenient.



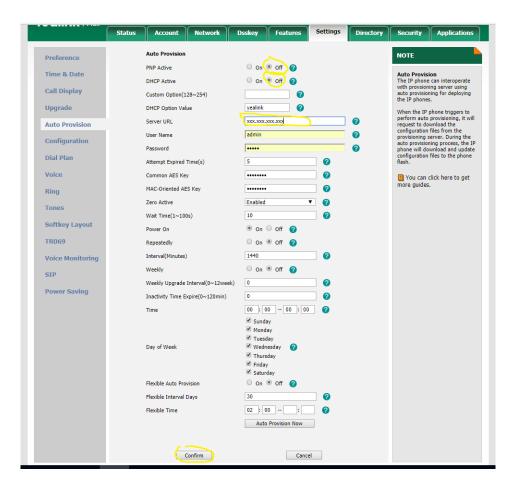
**Figure 2, Display Window Features** 

If a bell schedule exists for your facility, the current schedule appears at the top of the idle screen. Any system messages, such as an incoming Emergency Call, and any operational or error messages appear beneath the bell schedule.

#### **2** Configuring the Admin Phone

Refer to the *Nyquist System Administrator Manual* for instructions on adding the phone as a station. You will need the **Extension Number**, **Name**, and **MAC address** for the phone.

Next, configure the Admin Phone through the phone's web user interface (UI).



**Figure 3, Auto Provision Options** 

To configure the Admin Phone:

- Step 1 Identify the Admin Phone's Internet Protocol (IP) address by doing one of the following:
  - Locate the IP address in your network's Dynamic Host Configuration Protocol (DHCP) client table.

- Press the Admin Phone's **OK** navigation key to display the IP address.
- Step 2 Open your computer's web browser, enter the Admin Phone's IP address (for example, http://192.168.0.10 or 192.168.0.10) in the address bar, and then press **Enter**. The computer will display the Admin Phone web UI.
- Step 3 On the logon page, enter the **Username** (default is **admin**) and **Password** (default is **bogen**) and click **Confirm**.
- Step 4 Click the **Settings** tab.
- Step 5 Click **Auto Provision**.
- Step 6 Select **Off** for **PNP Active**.
- Step 7 Select **Off** for **DHCP Active**.
- Step 8 Click **Confirm**.
- Step 9 Reboot the phone by unplugging the network connection

The phone will reboot, automatically download its configuration information from the server, and reboot a second time to come online.

#### 3 Making Pages

Nyquist allows the following types of intercom pages:

- Multi-Site All-Call
- Multi-Site Emergency-All-Call
- All-Call
- Emergency All-Call
- Station or Zone

**Note:** The ability to make Multi-Site All-Call and Multi-Site Emergency-All-Call pages is determined by the Class of Service (CoS) configuration assigned by your system administrator for your Admin Phone.

Even if your Nyquist phone is not set up to make multiple site pages, **Multi-Site All-Call** and **Multi-Site Emergency-All-Call** buttons appear on the phone's display.

#### 3.1 Multi-Site Emergency-All-Call Paging

A Multi-Site Emergency-All-Call page is an emergency page that plays simultaneously throughout multiple sites that are configued in the facilities list. It has the highest priority of all pages.

To make a hands-free Multi-Site Emergency-All-Call page using the touch display:

- Step 1 Touch the **Multi-Site Emergency-All-Call** button.
- Step 2 Talk into the phone's microphone.
- Step 3 Touch **End Call** when finished.

To make a Multi-Site Emergency-All-Call page using the handset:

- Step 1 Pick up the handset.
- Step 2 When the dial screen appears, touch the **+More** button.
- Step 3 Touch the **Multi-Site Emergency-All-Call** button.
- Step 4 Talk into the handset.
- Step 5 Hang up the handset when finished.

#### 3.2 Multi-Site All-Call Paging

A Multi-Site All-Call Page is a non-emergency page that plays simultaneously throughout multiple sites.

To make a hands-free Multi-Site All-Call page using the touch display:

- Step 1 Touch the **Multi-Site All-Call** button.
- Step 2 Talk into the phone's microphone.
- Step 3 Touch **End Call** when finished.

To make a Multi-Site All-Call page using the handset:

- Step 1 Pick up the handset.
- Step 2 When the dial screen appears, touch the **+More** button.
- Step 3 Touch the **Multi-Site All-Call** button.
- Step 4 Talk into the handset.
- Step 5 Hang up the handset when finished.

#### 3.3 Emergency-All-Call Paging

An Emergency-All-Call page is a high priority page that simultaneously plays throughout the facility. An Emergency-All-Call page has a higher priority than an All-Call or Normal page.

To make a hands-free Emergency-All-Call page using the touch display:

- Step 1 Touch the **Emergency-All-Call** button.
- Step 2 Talk into the phone's microphone.
- Step 3 Touch **End Call** when finished.

To make an Emergency-All-Call page using the handset:

- Step 1 Pick up the handset.
- Step 2 When the dial screen appears, touch the **+More** button.
- Step 3 Touch the **Emergency-All-Call** button.
- Step 4 Talk into the handset.

Step 5 Hang up the handset when finished.

#### 3.4 All-Call Paging

An All-Call page is a non-emergency page that simultaneously plays throughout the facility.

To make a hands-free All-Call page using the touch display:

- Step 1 Touch the **All-Call** button.
- Step 2 Talk into the phone's microphone.
- Step 3 Touch **End Call** when finished.

To make an Emergency-All-Call page using the handset:

- Step 1 Pick up the handset.
- Step 2 When the dial screen appears, touch the **+More** button.
- Step 3 Touch the **All-Call** button.
- Step 4 Talk into the handset.
- Step 5 Hang up the handset when finished.

#### 3.5 Zone Paging

You can choose to page only certain areas of the facility, called zones. The zones, which are collections of stations, must be created through the Web-based System Admin User Interface (UI) before zone paging from the Admin Phone can occur. Zones appear in the phone's Directory under the Paging menu. The Paging menu also includes entries for Facility paging.

To make a zone page using the display:

- Step 1 Touch the **+More** button.
- Step 1 Select the zone that you want to page.
- Step 2 Talk into the phone's microphone.

#### Step 3 Touch **End Call** when finished.

To make a zone page using the handset:

Step 1 Pick up the handset.
Step 2 When the dial screen appears, touch the +More button.
Step 1 Select the zone that you want to page.
Step 2 Talk into the phone's microphone.
Step 3 Hang up the handset when finished.

#### 3.6 Record Page

You can record a page to be added to a zone queue. The maximum length time for a recorded page is 60 minutes; if the recording exceeds 60 minutes, it will time out and not be saved. If the recording is silent for 60 seconds, it will time out and not be saved.

**Note:** When the DTMF Code #{Zone Number} is used to initiate a zone page, Nyquist will start recording a queued page if the zone belongs to a queue. If you want to start a real-time page to the zone instead, dial #{Zone Number}\*.

Pages in a zone's queue are played in the order that they are placed in the queue. A live page started on a zone that is playing a recorded page will cause the recorded page to be terminated and sent back to the queue. The interrupted message will play again from the beginning of the message when the zone becomes idle. Multi-Site Emergency-All-Call, Multi-Site All-Call, Emergency All-Call, All-Call, Alarm, Tone, and Emergency Announcement will also interrupt any queued messages playing in any zones. All re-queued messages will play again from the beginning of the message when the applicable zones become idle.

Selecting **Disable Audio** will cause playback paging of all recorded messages to stop. The messages will resume play from the beginning when audio is re-enabled.

To record a page for page queuing:

- Step 1 Do one of the following:
  - a Touch the **Record Page** button.
  - b Select the soft key labeled **Directory**, use the navigation keys to select **Paging**, use the navigation keys to select **Record Page**, and then press **OK**.
- Step 2 When prompted, enter the queue number for the queue that you want to page and press #.
- Step 3 Wait for the tone and then record your message.
- Step 4 Hang up when finished.

#### 4 Making Calls

The steps for making calls depend on whether you are making the call from the display and speaker or from the handset and whether you know the extension that you want to call.

To make a call by dialing the extension number:

- Step 1 Do one of the following:
  - On the phone's touch display, select **Directory** and then select **Keypad**.
  - Dial the extension number. When you start to dial, the keypad automatically appears.
  - Pick up the handset.
- Step 2 Dial the extension.

If using the handset, you can dial from either the touch display or dial pad.

- Step 3 Select **Send**.
- Step 4 When the call is completed, either hand up the handset or select **End Call**.

To make a call using the Remote Phone Book:

- Step 1 Do one of the following:
  - On the phone's display, select **Directory**.
  - Pick up the handset, and then select **Directory**.

Step 2 Ensure Remote Phone Book is selected, and then select Stations.
Step 3 Use the scroll bar to navigate to the station that you want to call, and then select that station.
Step 4 Select Send.
Step 5 When finished with the call, either select End Call or hang up the handset.

#### **5** Changing the Event Schedule

Nyquist allows the setting of bells and announcements to be played at specific times and in specific zones. More than one schedule can be created for a school. For example, a school may have an early release day on Wednesday and have classes begin and end at different times on that day than on the other days of the week. Based on this example, a Regular Schedule or an Early Release Schedule can be selected for the current day.

The Schedules feature available via the Admin Phone provides a quick way to change the bell schedule for the day. For example, if you normally use an Early Release Schedule for Wednesdays but want to use this schedule for today (which is slated to use the Regular Schedule), you can select the Early Release Schedule through the Admin Phone.

**Note:** If you want to use the handset, pick up the handset and then select the button before following the steps.

To change today's schedule:

- Step 1 Touch **Schedules**.
- Step 2 Select the schedule that you want for the day. If you have more than one school appearing in the Schedules

view, ensure you have selected the correct schedule for the correct school.

**Note:** An \* appears before the current schedule.

Selecting **None** disables the schedule, which also disables scheduled tones, audio, and routines included in the schedule.

Step 3 Touch **Change Schedule**.

#### 6 Playing Alarms

You can play a facility alarm from a list of default alarms and those created through the Admin Web UI.

To play an alarm:

Step 1 Do one of the following:

- On the phone's touch display, select **Directory**.
- Pick up the handset, and then select **Directory**.
- Step 2 Ensure **Remote Phone Book** is selected, and then select **Alarms**.
- Step 3 Use the scroll bar to navigate to the alarm that you want, and then select that alarm.

The alarm plays continuously until you manually stop it.

Step 4 To end the alarm, touch **End Call** or hang up the handset.

Note that if you want to end an alarm that another Admin Phone started, select **Stop Alarm**.

#### 7 Playing Tones

Nyquist provides tones that can be used with events, such as bell schedules or announcements. In addition to the default tones, tones can also be created or downloaded through the Admin Web UI.

#### To play a tone:

- Step 1 Do one of the following:
  - On the phone's touch display, select **Directory**.
  - Pick up the handset, and then select **Directory**.
- Step 2 Ensure **Remote Phone Book** is selected, and then select **Tones**.
- Step 3 Use the scroll bar to navigate to the tone that you want, and then select that tone.
- Step 4 To end the tone, touch **End Call** or hang up the handset.

Note that if you want to end a tone that another Admin Phone started, select **Stop Tone**.

#### **8** Forwarding Calls

If your Admin Phone has the appropriate CoS parameter set, you can forward your calls to another Nyquist extension, whether it's a physical station or a Web UI station. You can select to always forward calls, forward calls if you are on another call, or forward calls if they are not answered within a specified number of seconds.

The DAHDI FXS based Admin Station (also known as Analog Phone station Type) does not display an incoming call queue, and there is no incoming call queue prioritization. If the DAHDI FXS based Admin Station is already on a call, subsequent VoIP call-switch callers will continue to ring as expected. However, there is no visibility that an incoming call is happening, and there is no FIFO queue to handle multiple incoming calls.

If a VoIP phone directly calls a DAHDI FXS Admin Station that is busy, the call will go to voicemail.

For incoming emergency calls from an Analog Call Switch and Speaker or Digital Call Switch and Speaker station types, if the DAHDI

FXS based Admin Station is on a call, the current call will automatically be dropped and the Admin Station will hear a busy signal. When the Admin Station hangs up the call, the emergency call will ring the Admin Phone.

If both a normal and emergency call are placed to a DAHDI FXS based Admin Station at the same time, the calls are not received in any specific order. The normal call could be answered before the emergency call. In this case, when the Admin Station hangs up the normal call, the emergency call will ring the Admin Station.

If the Admin Station remains busy for more than two minutes, an Analog Call Switch and Speaker or Digital Call Switch and Speaker caller will be told that the call cannot be completed and to please try again. The call switch will return to the idle state.

You can forward calls using either the Menu or Directory options.

**Note:** If you want to use the handset, pick up the handset and then select the button before following the steps.

To forward calls from the Menu:

- Step 1 Touch **Menu**.
- Step 2 Touch **Features**.
- Step 3 Touch **Call Forward**.
- Step 4 Select from one of the following options:
  - 1. Always Forward
  - 2. Busy Forward
  - No Answer Forward
- Step 5 Select **On**, and then enter the extension or phone number that the call is to be forwarded to.
- Step 6 Touch **Save**.

Note that if you use the Menu option and attempt to forward to an extension that is already forwarding to your extension, you will not receive an error, even though the call forwarding will not be activated.

To ensure that the desired call forwarding is activated and to receive audio feedback on setting up call forward, use the following steps.

*To call forward from the Directory:* 

Touch <b>Directory</b> .
Touch <b>Features</b> .
Touch <b>Call Forwarding</b> .
Select one of the following from the interactive audio menu:
1 – Call Forward for Unconditional
2 – Call Forward on Busy
3 – Call Forward on No Answer

4 – Call Forward on Busy and Call Forward on No

Answer

5 – No Call Forwarding

Step 5 When prompted, enter the extension or phone number that the call is to be forwarded to.

The system will provide error messages if it is unable to perform the desired call forwarding.

To turn Call Forwarding off from the Menu:

Step 1 Touch Menu.
Step 2 Touch Features.
Step 3 Touch Call Forward.
Step 4 Select Off.
Step 5 Touch Save.

To turn Call Forwarding off from the Directory:

	Forwarding.
Step 4	From the interactive audio menu, select <b>5 – No Call</b>
Step 3	Touch <b>Call Forwarding</b> .
Step 2	Touch <b>Features</b> .
Step 1	Touch <b>Directory</b> .

#### 9 Using the Voice Mail Feature

If your phone has the appropriate CoS parameter set, you can view details about and listen to voice mail messages and set the code that can be used to retrieve your voice mail messages.

The Power indicator flashes red if you have a new voice mail message.

*To listen to voice mail messages:* 

- Step 1 Press the **Message** key.
- Step 2 Follow prompts to retrieve messages.

#### 10 Recording Announcements

You can record announcements to be played immediately after they are recorded or to play at a later date and time.

To record an announcement:

- Step 1 Do one of the following:
  - On the phone's touch display, select **Directory**.
  - Pick up the handset, and then select **Directory**.
- Step 2 Select **Features**, and then select **Record Announcement**.
- Step 3 After the tone, record your announcement, pressing # when finished.
- Step 4 Select from the following options:
  - Select 1 to save.
  - Select 2 to listen to the announcement.
  - Select 3 to re-record the announcement.
  - Select 4 to play the announcement now.
  - Select 7 to schedule the announcement to play at a different time.

If you select 7, enter the 2-digit month, 2-digit date, 4-digit year, and then enter the hour and

minutes in HH:MM format for the date and time the announcement will play.

#### 11 Playing Recorded Calls

If your phone has the appropriate CoS parameter set, you can playback recorded calls.

#### To play a tone:

- Step 1 Do one of the following:
  - On the phone's touch display, select **Directory**.
  - Pick up the handset, and then select **Directory**.
- Step 2 Ensure **Remote Phone Book** is selected, and then select **Features**.
- Step 3 Select **Playback Recorded Calls**.
- Step 4 Select the type of recorded call that you want to play-back. Options are:
  - 1 Emergency
  - 2 Monitoring Call
  - 3 Urgent
  - 4 Normal

#### 12 Restart Nyquist Server

To restart the Nyquist Server:

- Step 1 Use the soft key labeled **Directory**.
- Step 2 Use the navigation keys to select **Features** and then press **OK**.
- Step 3 Use the navigation keys to select **Restart Nyquist Server** and select **OK**.
- Step 4 Enter your system password and select **OK**.

**Note: Restart Nyquist Server** only restarts the Nyquist application; it does not reboot the server or restart the OS.

#### 13 Stop Announcement

To stop an announcement:

Step 1 Use the soft key labeled **Directory**.
Step 2 Use the navigation keys to select **Features** and then press **OK**.
Step 3 Use the navigation keys to select **Stop Announement** and select **OK**.
Step 4 Follow audio prompt.

#### 14 Stop Scheduled Audio

To stop scheduled audio:

Step 1 Use the soft key labeled **Directory**.
Step 2 Use the navigation keys to select **Features** and then press **OK**.
Step 3 Use the navigation keys to select **Stop Scheduled Audio** and select **OK**.

#### 15 Using Audio Distribution

**Note:** The Admin Station must have **Audio Distribution** CoS enabled in order for the **Audio Distribution** menu to display on the Admin Phone.

Audio Distribution can be started and stopped using the Audio Distribution menu.

*To start audio distribution:* 

- Step 1 Select the **Audio Distribution** menu.
- Step 2 Select the audio distribution that you want to start.

After an audio distribution is started, the entry displayed in the menu will be prefixed with **(P)** to indicate that it's playing.

To stop audio distribution:

- Step 1 Select the **Audio Distribution** menu.
- Step 2 Select the audio distribution that you want to stop; it must be prefixed with **(P)**.

To stop ALL audio distribution:

- Step 1 Select the **Audio Distribution** menu.
- Step 2 Select **Stop ALL Audio Distribution**.

The audio distribution entries listed in the **Audio Distribution** menu use the following suffixes depending on the zones/stations that are defined as targets for playing the audio:

- [All Speakers] Indicates play to all speakers.
- [Zone] Indicates play to a single zone where Zone is replaced with zone number.
- [Zone, Zone...] Indicates play to two or more zones where Zone is replaced with zone number.
- [Zone+] Indicates play to a single zone plus one or more specific stations. (Stations are not listed.)
- [Zone, Zone...+] Indicates play to two or more zones where Zone is replaced with zone number, plus one or more specific stations. (Stations are not listed.)

#### 16 Launching Routines

**Note:** The ability to manually launch routines is determined by the CoS configuration assigned by your system administrator for your Admin Phone.

You can manually launch a routine that has **Allow DTMF** enabled from an Admin Phone by doing one of the following:

Dial \*94<Routine-DTMF-Code>.

• Select the **Routines** menu from the Admin Phone and then select the routine that you want to launch.

**Note:** Only routines with **Allow DTMF** enabled appear in the menu.

If you disconnect the call during a routine, the routine continues until finished. If the routine includes **Pause** actions, the call will not disconnect until all **Pause** actions have been executed.

A routine launched from the Admin Phone can end with any of the following page commands, provided the Admin Phone has the appropriate CoS enabled:

- All-Call
- Emergency-All-Call
- Facility-Page
- Mutli-Site-All-Call
- Multi-Site-Emergency-All-Call
- Zone-Page

#### 17 Customizing Line Keys

Line keys are the soft keys that appear on the display window (see "Display Window Features" on page 4). Nyquist provides one key (located on the upper left) for user customizing, providing a "speed dialing" option for a feature. For example, you can customize the available line key to start a specific alarm. You can then select the line key to start the alarm rather than using the steps described in "Playing Alarms" on page 13.

**Note:** Depending on the CoS settings for your Admin Phone, some of the line keys may appear blank. For example, if your Admin Phone does not have Execute Routines enabled through the CoS, then the fourth key on the left, which by default is reserved by Nyquist for Routines, has a blank label.

If you do not want to use the Nyquist defaults for line keys, you can reserve line keys by creating and editing a reserve line key file (.rlkeys), provided you are not using the Nyquist System Controller.

For information about this procedure, see "Reserving Line Keys by .rlkeys File Creation" on page 22.

To customize the line key:

Step 1	On the phone's display window, long press the key that
	you want to customize.

- Step 2 For the **Type**, select **SpeedDial**.
- Step 3 For **Account ID**, select the line that you are customizing.

By default, Line 1 is associated with the Nyquist system and would be the appropriate choice.

- Step 4 For **Label**, type a label that will appear on the display window for this key. The label should describe what occurs when you select the line key (for example, Fire Alarm).
- Step 5 For **Value**, enter the DMTF code sequence that is to be dialed on the Nyquist system when the soft key is pressed. For example, to play a fire alarm, you would enter \*91 and the number of the alarm that you want to play. For a list of DMTF codes, see "Nyquist DTMF Feature Dialing Codes" on page 25.
- Step 6 Press **Save**.

To remove programming from the line key:

- Step 1 On the phone's display window, long press the key.
- Step 2 For the **Type**, select **N/A**.
- Step 3 Press **Save**.

#### 17.1 Reserving Line Keys by .rlkeys File Creation

If you want to customize a line key reserved by Nyquist, you must create and configure a .rlkeys file.

**Note:** You cannot perform this process if you are using the Nyquist System Controller.

To create and configure a .rlkeys file:

- Step 1 Identify the MAC address of your Admin Phone.
- Step 2 On the Nyquist server, use the Linux command line to create a file in /srv/tftp called <mac-address>.rlkeys where <mac-address> is replaced by the Admin Phone's MAC address.
- Step 3 In the file created, add comma separated entries for each line key using the format Iline-key-number>.

For example, to reserve line keys 3, 5, and 6, you would type I3,I5,I6.

- Step 4 Save the file.
- Step 5 At the Linux command prompt, type:

chgrp www-data /srv/tftp/<mac-address>.rlkeys
chmod 664 /srv/tftp/<mac-address>.rlkeys

- Step 6 At the Admin Web UI, select **Stations**.
- Step 7 Select the **Edit** icon next to the station listing for your Admin Phone.
- Step 8 Select **Save**.

**Note:** The <mac-address>.rlkeys configuration files will be saved in system backups. You may want to perform a system backup after making changes to these files, so that your changes are preserved whenever you perform a system restore.

You can now follow the steps in "Customizing Line Keys" on page 21, and the Nyquist server will not overwrite your changes.

The following line-keys can be reserved for your own custom use:

Key	Normally Used For	DTMF Code
13	Record Page	*991
14	Routines	*94 <routine-dtmf- Code&gt;</routine-dtmf- 
15	Multi-Site All-Call	##0
16	Multi-Site Emergency-All-Call	##0911
17	All-Call	#0
18	Emergency All-Call	#0911
19	Announcements	92 <announcement- DTMF-Code&gt;</announcement- 
I10	Audio Distribution	987 <prog-dist-id></prog-dist-id>
l11	Schedules	No user friendly DTMF availabl

The I9 key also supports **Record Announcement** with DTMF Code \*990 and **Stop Announcement** with DTMF Code \*93.

**Note:** If you reserve a line-key for your own use, you will need to use DTMF codes to perform any functions that will no longer be available via the line keys or line key based menus. Some functions are not easily replaced by DTMF keys, such as line keys I10 and I11.

# A Nyquist DTMF Feature Dialing Codes Codes Nyquist DTMF Feature Dialing Codes

**Note:** The use of feature dial codes is restricted by a station's CoS assignments.

## A.1 Alarm/Tone Activation (CoS: Activate Alarm Signals | Manually Activate Tone Signals)

\*91{DTMF-Code} – Start Alarm specified by {number}

\*96{DTMF-Code} – Start Tone specified by {number}

#### A.2 Calling

<extension> - Call <extension> speaker (intercom, auto-answer) (CoS: Call Any Station)

\*<extension> - Call <extension> ringer (telephonic, ringing) (CoS: Call Any Station)

\*#<extension> – Join conversation at <extension> (CoS: Join Conversation)

##\*<Facility-Number>\*<extension> - Call <extension> at <Facility-Number>

981AAANNNNNN – Place long distance call with area code (AAA = Area code, NNNNNNN = number)

98AAANNNNNNN – Place local ten-digit call with area code

98NNNNNN - Place local seven-digit call

98911 - Place 911 emergency call

911 – Place 911 emergency call

\*\*\*\* - Place Emergency call to designated Admin station

#### **A.3** Call Forwarding (CoS: Call Forwarding)

970 - Call Forwarding Menu

971{extension} – All-Calls (CFALL)

972{extension} – When Busy (CFBS)

973{extension} – When No Answer (CFNA)

974(extension) – When Busy or No Answer (CNBN)

975 – Cancel Call Forwarding

976 – Call Forwarding Status (Caller only)

977 – Call Forwarding Status (All users)

#### A.4 Call Parking/Call Pickup

DTMF: #72 - Park call (during call)

To pick up a parked call, dial the parked call's extension (by default, extensions 21-29) that was provided when the call was parked using #72. The parking lot extensions can be changed at the Admin Web UI through **System Parameters**.

7\*{extension} - Call pickup {extension} when ringing (CoS: Remote Pickup)

#### **A.5** Call Transfer (CoS: Call Transfer)

DTMF: #1 < extension number > - Blind transfer (during call)

DTMF: \*1 < extension number > - Attended transfer (during call)

DTMF: \*2 - Complete attended transfer, dropping out of call

DTMF: \*3 - Complete attended transfer, but stay in the call

DTMF: \*4 - Swap to the other party (during attended transfer)

\*3 – Transfer (drop) call from Speaker to associated Phone

#### - Transfer (drop) call from Speaker to associated Phone

DTMF: #1<speaker-extension> – Transfer call from Phone to associated Speaker

#### A.6 Conferencing

\*\*{number} – Create/Enter Dynamic Conference {number} (CoS: Conference Admin/Conference User)

**Note:** If the conference owner enters 0000 as the password, the conference will be deleted. If an Admin station user type enters 0000 as the password but is not the conference owner, the user will be prompted for the system password. If the correct system password is entered, the conference will be deleted.

\*\*0 – Launch system playback of list of created conferences that includes the conference number and the extension that created the conference

#### A.7 Monitoring/Recording

978(extension) – Monitor call or location at (extension) (CoS: Monitor Calls/Locations)

**Note:** Spy Mode monitoring cannot be used on a station that has been set to Privacy Mode.

DTMF: 4 – Enable "spy mode" (MUTE) during call monitoring

DTMF: 5 – Enable "whisper mode" during call monitoring

DTMF: 6 – Enable "barge mode" during call monitoring

\*990 – Record Message (Announcement) (CoS: All-Call Paging)

**Note:** When you record an announcement by dialing \*990 or by selecting **Record Announcement** on the Admin phone's **Announce** menu, the initial DTMF Code for the recorded and saved announcement will be set to the announcement's row ID. You can change the DTMF Code after the announcement is saved by editing the announcement in the web interface **Announcements** view.

The saved announcement has **Play to Zone** set to blank (no zone selected). This means that when you play an announcement via an IP phone **Announcement** menu selection, you will be asked to enter a zone number (where 0 = All Speakers). You can define a permanent zone number for the saved announcement by updating **Play to Zone** after the recorded announcement has been saved.

999 – Playback recorded calls (CoS: Manage Recordings)

(MENU: 1–Emergency, 2–Monitored, 3–Urgent, 4–Standard)

DTMF: \*3 – Start/Stop recording (DTMF used during a call.) (CoS: Record Calls)

#### A.8 Paging

##0911 – Multi-Site Emergency All-Call Page (CoS: Emergency All-Call Multi-Site Paging)

##0 – Multi-Site All Call Page (CoS: All-Call Multi-Site Paging)

#0911 – Emergency All-Call Page (CoS: Emergency All-Call)

951 – Emergency All-Call Page (CoS: Emergency All-Call)

#0 – All-Call Page (CoS: All-Call Paging)

#00 – All-Call Page (CoS: All-Call Paging)

0000000 - All-Call Page (CoS: All-Call Paging)

#{Zone} - Page to {Zone Number} (CoS: Zone Paging)

#{Zone}\* – Real-time Page to {Zone} that belongs to a queue (CoS: Zone Paging)

##{Facility Number} – All-Call Page to {Facility Number} (CoS: Inter-Facility Call/Page)

##{Facility Number}#{Zone Number} – Zone Page to {Zone Number} at (Facility Number)(CoS: Inter-Facility Call/Page)

##{Facility Number}#{Zone Number}\* – Real-time page to {Zone} that belongs to a queue at (Facility Number) (CoS: Inter-Facility Call/Page)

\*92{DTMF-Code} – Start Announcement specified by {number} (CoS: All-Call Page)

\*991 – Record page; system will prompt for Zone Number (CoS: Zone Paging)

\*991\*{Zone Number} – Record page for {Zone Number} (CoS: Zone Paging)

**Note:** The next two DTMF codes only work if made from the same extension that created the recorded page.

\*992 – Cancel Recorded Page (CoS: Zone Paging)

\*992\*{Zone Number} – Cancel Recorded Page for {Zone Number}

#### A.9 Voicemail (CoS: Voicemail)

900 – Voicemail for current caller

904{extension} – Voicemail for specified {extension}

904{extension}\* – Leave voicemail for specified {extension}

#### A.10 Walking CoS (CoS: Walking Class of Service)

3\*{authCode}\*{extension} – Current IP phone's extension becomes {extension}

If **Auth Code** is set to 0000 in the Admin Web Ul's **System Parameters**, this feature is disabled.

### A.11 Dial Codes Used for Simulating Calls to Admin Station from Station Call Switches

**Note:** During the Check-In process, a Normal call starts the check-in process for a station.

- 0 Normal call to admin
- \*0 Emergency call to admin
- \*00 Urgent call to admin
- \*000 Outside line calling in (uses night-ring logic)

#### **A.12** Routines (CoS: Execute Routines)

\*94<Routine-DTMF-Code> — Execute Routine with <Routine-DTMF-Code>

0000094<Routine-DTMF-Code> — Execute Routine with <Routine-DTMF-Code>

**Note:** Only routines with **Allow DTMF** can be executed from the Admin Phone.

#### **A.13** Audio Distribution (CoS: Audio Distribution)

987\*{DTMF-Code} – Start Audio Distribution for {DTMF-Code}

980\*{DTMF-Code} – Stop Audio Distribution for {DTMF-Code}

920 - Stop ALL Scheduled Audio

#### **A.14** Miscellaneous Dial Codes

#\*349 – Restart Nyquist system server

\*9 – Toggle Audio Distribution to associated speaker

0000097 – Disable Audio (CoS: Disable Audio)

0000098 - Enable Audio (CoS: Enable Audio)

920 - Stop Scheduled Audio

942#{extension}#{contact-number} – Close {contact-number} on I/O Controller {extension} (For example, dialing 942#120#1 closes contact number 1 on I/O Controller 120; dialing 943#120#1 opens contact number 1 on I/O Controller 120.)

943#{extension}#{contact-number} – Open {contact-number} on I/O Controller {extension}