



Yealink IP Phones Deployment Guide for BroadSoft UC-One Environment

About This Guide

BroadSoft UC-One is a complete Unified Communications solution, providing a comprehensive suite of services meeting both business and consumer requirements. The UC-One solution effectively leverages multiple BroadSoft products: BroadWorks, BroadTouch, and BroadCloud, to provide the full UC-One User Experience.

This guide describes the BroadWorks device management interface and introduces how to deploy Yealink IP phones for the administrator using the BroadWorks device management interface. In addition, this guide provides detailed instructions for BroadSoft integrated features. The BroadCloud features are available on the following Yealink IP phones:

- SIP-T58A and CP960 IP phones running UC-One firmware version 80 or later.
- SIP-T48G/S, SIP-T46G/S and SIP-T29G IP phones running UC-One firmware version 81 or later.
- VP59 IP phones running UC-One firmware version 83 or later.
- SIP-T57W, SIP-T54W, SIP-T48U and SIP-T46U IP phones running UC-One firmware version 84 or later.
- SIP-T33P/G IP phones running UC-One firmware version 85 or later.
- CP960 IP phones running UC-One firmware version 86 or later.

These features require support from the BroadSoft BroadWorks platform with patches and BroadSoft BroadCloud services. The BroadSoft BroadWorks features are available on the following Yealink IP phones:

- SIP-T58A, CP960 and W52P IP phones running UC-One firmware version 80 or later.
- SIP-T48G/S, SIP-T46G/S, SIP-T42G/S, SIP-T41P/S, SIP-T40P/G, SIP-T29G, SIP-T27G, SIP-T23P/G, SIP-T21(P) E2, SIP-T19(P) E2 and CP920 IP phones running UC-One firmware version 81 or later.
- VP59, W53P IP phones running UC-One firmware version 83 or later.
- SIP-T57W, SIP-T54W, SIP-T53W, SIP-T53, SIP-T48U, SIP-T46U, SIP-T43U, and SIP-T42U IP phones running UC-One firmware version 84 or later.
- SIP-T33P, SIP-T33G, SIP-T31P, SIP-T31G, SIP-T31, SIP-T30P, SIP-T30, W56P, W60P, W73P, W76P, W79P, and CP930W-Base IP phones UC-One firmware version 85 or later.
- W90 DECT multi-cell system running UC-One firmware version 85 or later.

These features require support from the BroadSoft BroadWorks platform.

Who should use this guide?

This deployment guide is intended for system and network administrators familiar with

configuring and deploying Yealink IP phones and with the components of the BroadSoft environment.

Before reading this guide, you should be familiar with the following:

- Previous knowledge of and experience with BroadSoft UC-One components
- Access to BroadSoft UC-One product documentations and relevant firmware
- Previous knowledge of and experience with Yealink IP phones
- Access to Yealink IP phones documentations and relevant firmware

In This Guide

This deployment guide includes the following chapters:

- Chapter 1, “[BroadWorks Device Management](#)” describes BroadWorks device management.
- Chapter 2, “[Configuring Device Management on BroadWorks](#)” describes how to configure device management on BroadWorks.
- Chapter 3, “[Configuring BroadSoft Integrated Features](#)” describes how to configure BroadSoft integrated features on the BroadSoft server and IP phones.
- Chapter 4, “[Upgrading Firmware](#)” describes how to upgrade the firmware of IP phones.
- Chapter 5, “[Downloading and Verifying Configurations](#)” describes how to download boot files and configuration files and verify configurations.

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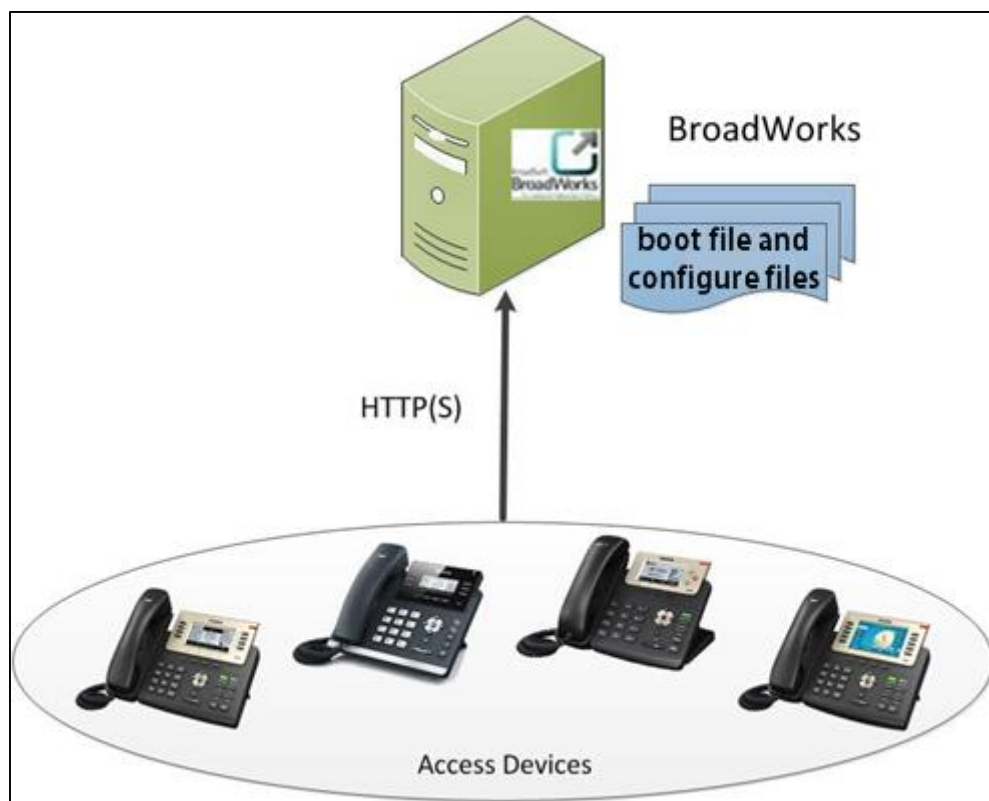
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BroadWorks Device Management

Overview

The BroadWorks Device Management is a comprehensive solution for simplifying the integration, deployment, and maintenance of access devices in your network. Access devices connect to BroadWorks to download the boot file and configuration files, firmware, and other static files required to deliver services. The administrator can manage and control all aspects of device configuration centrally in the network.



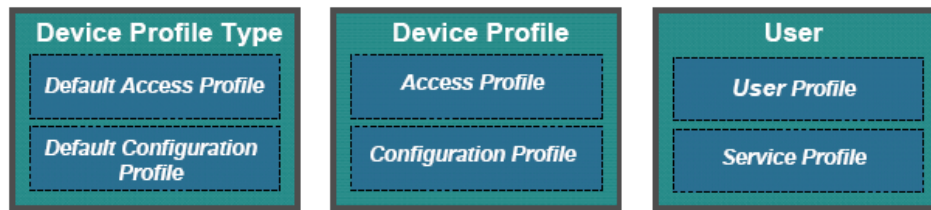
Key Concepts

To use device management, it is important to first understand a few key concepts and how they apply to the overall BroadWorks system.

BroadWorks uses the following three key concepts for delivering services and managing devices:

- The Device Profile Type
- The Device Profile
- The User

All of these concepts are modeled directly in the BroadWorks Application Server.



Device Profile Type

The device profile type is the foundation for Device Management. It is a template for device profiles. When a new type of device is added to the network, a corresponding “device profile type” must be defined to model the characteristics of that device. The device profile type defines default (Default Access Profile) and configuration (Default Configuration Profile) settings for all devices in this type. Only the system administrator can add, modify and delete the device profile type. For more information on how to create a device profile type, refer to [Creating the Device Profile Type](#).

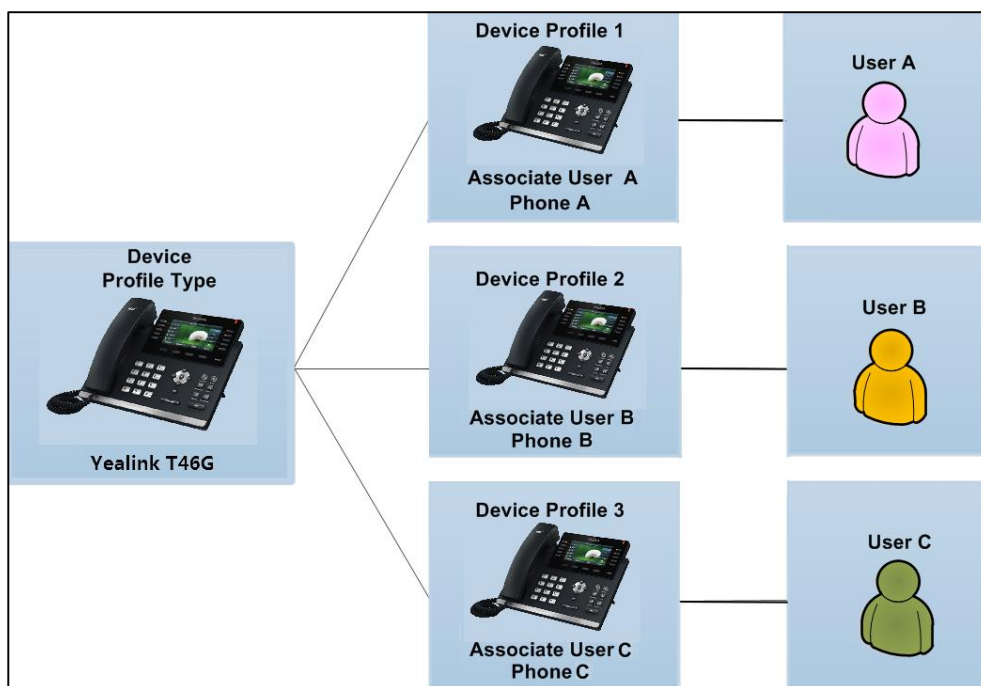
Device Profile

When a new device is added to the network, a new device profile should be created on BroadWorks to manage that device. The device profile should be created from a given device profile type. This gives the device profile a set of predefined (Access Profile and Configuration Profile) settings that are consistent with other devices of the same type in the network. For more information on how to create a device profile, refer to [Creating the BroadWorks Device Profile](#).

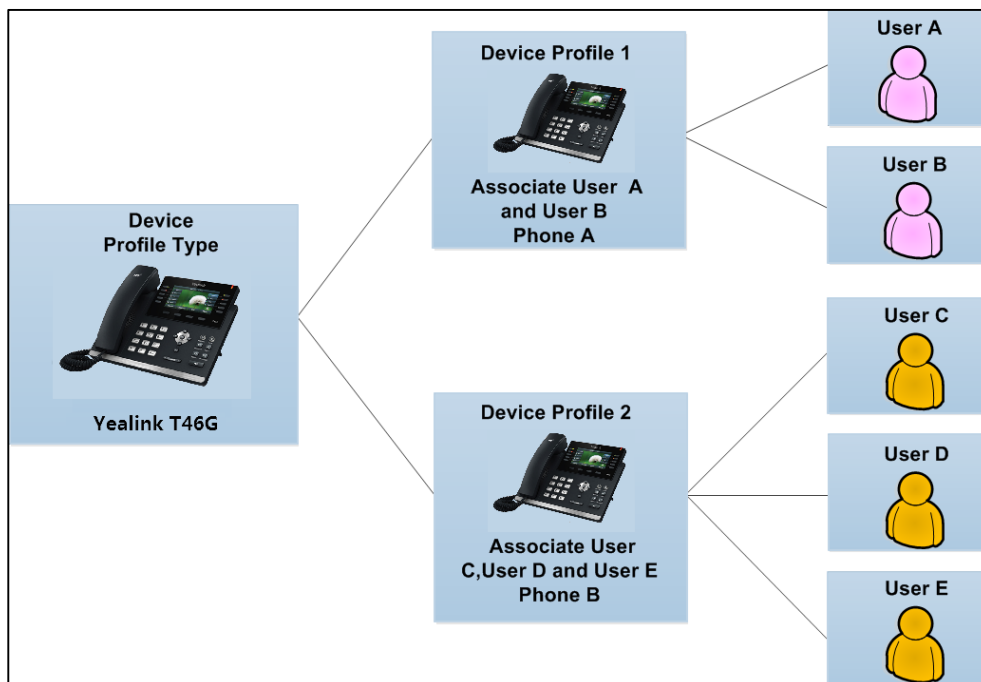
User

The administrator can assign a device profile to one user or multiple users. The number of port attributes in the device profile type allows BroadWorks to control the maximum number of users who can be associated with a given device profile (User Profile and Service Profile). For more information on how to assign the device profile to the user, refer to [Assigning the Device Profile to the User](#).

The following figure shows one user per phone device relationship:



The following figure shows multiple users per phone device relationship:

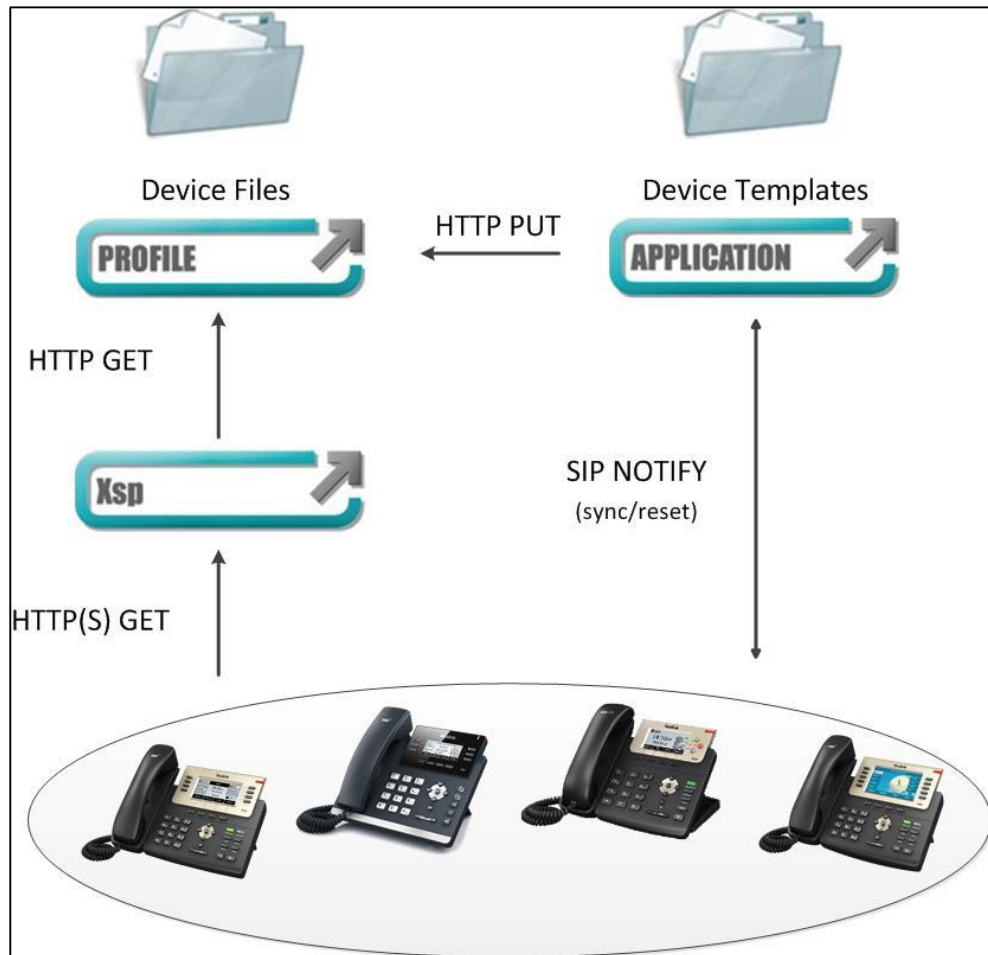


Network Architecture

The device management functionality is fully integrated into the BroadWorks platform. The Xtended Services Platform (XSP) hosts the access URL and authenticates all requests made by the device. Once authenticated, the XSP will request the configuration files from the Profile

server and download them to the device over HTTP(S). The Profile server stores the device configuration files which are built by the BroadWorks Application server.

The BroadWorks Application server supports ongoing device management by generating notifications to trigger the end device to synchronize its settings, and provide inventory control of devices in the field.



Configuring Device Management on BroadWorks

This chapter introduces the privileges of the system administrator and group administrator on BroadWorks. The following two sections provide a system administrator or a group administrator with step-by-step instructions on how to configure device management feature, such as customizing tags, uploading files and so on.

Log in BroadWorks as System Administrator

The following sections provide information on how to customize BroadWorks tags, create the device profile type and define the device profile type files at the system level. If you don't have the privilege of the system administrator, proceed to the next section [Log in BroadWorks as Group Administrator](#).

Customizing BroadWorks Tags

Service integration on BroadWorks is based on the concept of "Tags". Tags are variables that can be embedded in the configuration template files. When BroadWorks generates a configuration file from a configuration template, the tags are replaced with actual values. Tags are delimited with a beginning and ending % sign.

There are two types of tags:

- **Dynamic Built-in Tags:** These tags are predefined by BroadWorks. The value of each built-in tag is dynamically evaluated based on the context of the device profile. A built-in tag for one device is evaluated differently from another device. All built-in tags are prefixed with "BW".

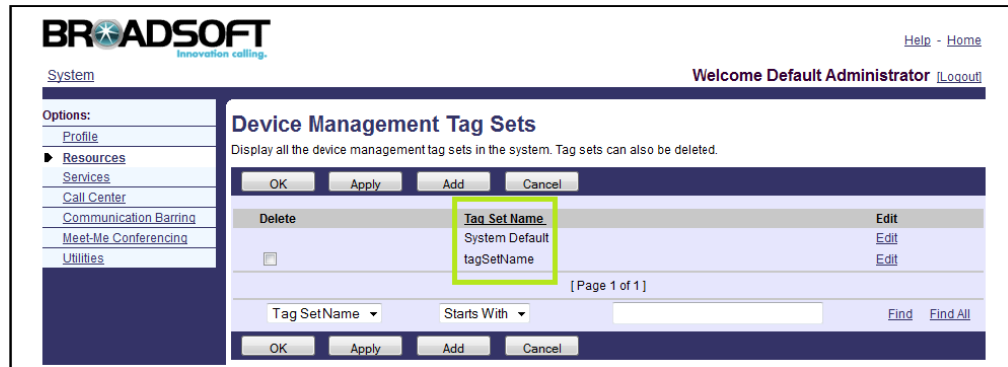
For more information on dynamic built-in tags, refer to *BroadSoft Device Management Configuration Guide*.

- **Static Tags:** These tags are defined by the administrator. For example, system default tags and device type-specific tags. The value of each static tag is assigned by the administrator.

Creating System Default Tags

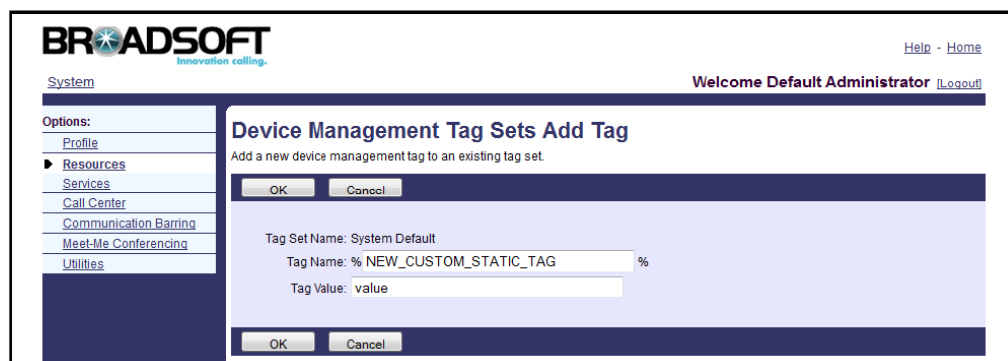
Procedure

1. Click **Resources->Device Management Tag Sets**.
2. Select the **System Default**.



The screenshot shows the BroadSoft web interface for Device Management Tag Sets. The left sidebar contains navigation links: System, Options, Profile, Resources, Services, Call Center, Communication Barring, Meet-Me Conferencing, and Utilities. The main content area is titled 'Device Management Tag Sets' and includes a description: 'Display all the device management tag sets in the system. Tag sets can also be deleted.' Below this is a table with columns for 'Delete', 'Tag Set Name', and 'Edit'. The 'System Default' tag set is listed, and its 'tagSetName' is visible in the 'Tag Set Name' column. The 'Add' button is highlighted in the top navigation bar.

3. Click **Add** to add a new tag.
4. Enter the desired name in the **Tag Name** field.
The tag name must not start with "BW".
5. Enter the desired value in the **Tag Value** field.
The tag in the configuration template files can be replaced by the configured tag value.



The screenshot shows the BroadSoft web interface for Device Management Tag Sets Add Tag. The page is titled 'Device Management Tag Sets Add Tag' and includes a description: 'Add a new device management tag to an existing tag set.' Below this is a form with fields for 'Tag Set Name', 'Tag Name', and 'Tag Value'. The 'Tag Set Name' is 'System Default'. The 'Tag Name' field contains '% NEW_CUSTOM_STATIC_TAG' and the 'Tag Value' field contains 'value'. The 'Add' button is highlighted in the top navigation bar.

6. Click **OK** to accept the change.
7. Repeat steps 3 to 6 to add more system default tags.

The following table lists some system default tags required in the configuration template files.

Tag Name	Valid Value	Description
%SNTP_SERVER_1%	IP address/FQDN Example: time-a.nist.gov	The NTP server address
%SNTP_SERVER_2%	IP address/FQDN Example: time-b.nist.gov	The alternate NTP server address
%DNS_SERVER_1%	IP address	The DNS server

Tag Name	Valid Value	Description
	Example: 199.19.193.12	address
%DNS_SERVER_2%	IP address Example: 199.19.193.39	The alternate DNS server address
%USE_SBC_BOOLEAN%	Boolean	Enables or disables the outbound proxy server
%SBC_ADDRESS%	IP address/FQDN Example: 199.19.193.9	The outbound proxy server address
%SBC_PORT%	Integer Example: 5060	The outbound proxy server port

Creating Device Type Specific Tags

Procedure

1. Click **Resources->Device Management Tag Sets**.
2. Click **Add**.
3. Enter the tag set name in the **Tag Set Name** field (e.g., YealinkT46-Tags).
4. Click **Add**.
5. Enter the desired name in the **Tag Name** field.
The tag name must not start with "BW".
6. Enter the desired value in the **Tag Value** field.
The tag in the configuration template files can be replaced by the configured tag value.
7. Click **Apply** to accept the change.
8. Repeat steps 4 to 7 to add more device type-specific tags.

The following table lists some device type-specific tags required in the configuration template files.

Tag Name	Valid Value	Description
%LANGUAGEWEB%	English Chinese_S (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) Chinese_T (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) French	The language of the web user interface

Tag Name	Valid Value	Description
	German Italian Polish Portuguese Spanish Turkish Russian	
%LANGUAGEGUI%	English Chinese_S (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) Chinese_T (not applicable to W52P/W53P/W56P/W60P/CP930W-Base phones/W90) French French_CA (not applicable to VP59/SIP-T58A/CP960, W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) German Italian Polish Portuguese Portuguese_LA (not applicable to VP59/SIP-T58A/CP960, W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) Spanish Spanish_LA (not applicable to VP59/SIP-T58A/CP960, W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) Turkish Czech (only applicable to W52P phones)	The language of the phone user interface

Tag Name	Valid Value	Description
	Swedish (only applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90) Hebrew (only applicable to W52P phones) Russian	
%PhoneModel_FIRMWARE% (e.g., T46_FIRMWARE)	<x.x.x.x>.rom Example: 28.81.193.10.rom	The firmware version
%FEATURE_KEY_SYN%	Boolean	Enables or disables feature key synchronization

Creating the Device Profile Type

Device profile types are the templates for device profiles. They can be created, modified and deleted at the system level. Creating device profile types is a crucial step in the initial planning and deployment. Device profile types should be defined in conjunction with the services being offered to the users. Device profile type can only be deleted when there is no reference to the device profile type, for example, no device profile is associated with the device profile type.

There are two primary steps to create a device profile type:

- **Defining the default access profile:** For the aspects related to the signaling and media interoperability with BroadWorks.
- **Defining the default configuration profile:** For the aspects related to the configurations of the device.

Defining the Default Access Profile

When adding a new device profile type to the system, the first step is to define the default access profile. The default access profile consists of attributes relating to the signaling and media integration with BroadWorks. These attributes tell BroadWorks how to interact with device profiles of this type. Another important configuration of the default access profile is the maximum number of ports available on the device. This attribute allows BroadWorks to control the number of users who can be associated with a given device. The other related configurations of the default access profile are encapsulated in the “Standard Options” and the “Advanced Options” fields.

The following table shows an example of defining the default access profile. Parameters not identified in the following table can be usually left as the defaults.

Parameter	Value	Description
Identity/Device Profile Type	Yealink T46	
Signaling Address Type	Intelligent Proxy Addressing	
Standard Options		
Number of Ports	Limited To 6	Defines the number of users who can be associated with the default device profile of a device profile type.
Ringback Tone/Early Media Support	Local Ringback - No Early Media	Determines SDP handling for initial INVITE messages sent to the device.
Authentication	Enabled	Defines whether requests for a device are authenticated.
Registration Capable	Checked	Defines whether a default device profile of this device profile type is allowed to register with the BroadWorks.
RFC3264 Hold	Checked	Defines whether the 3264 hold mechanism is used in the SIP signaling.
Advanced Options		
Reset Event	checkSync	Determines which type of Notify event is sent to the device. BroadWorks reboots the remote device via a NOTIFY request with an event type of either reSync or checkSync.

Defining the Default Configuration Profile

When adding a new device profile type to the system, the system administrator must decide which level of configuration management is supported. There are three levels available for configuring:

- **Not Supported:** this is the default option. You don't need to make any configuration.

- **Device Management:** when the Device Management is marked, the parameters needing to be configured are summarized in the following table. Parameters not identified in the following table can usually be left as the defaults.

Parameter	Value	Description
Device Configuration Tags	Use Default System Tag Set and Tag Set. Select the tag set name (e.g., YealinkT46-Tags) from the drop-down menu of Use Default System Tag Set and Tag Set.	Selects the device tag set created in the section Creating Device Type Specific Tags .
Allow Identity/Device Profiles to Configure Custom Tags	Checked	Determines whether new static tags can be customized at the profile level. For more information on how to customize static tags at the profile level, refer to Customizing a Static Tag .
Allow Groups to Configure Custom Tags	Checked	Determines whether new static tags can be customized at the group level. For more information on how to customize static tags at the group level, refer to Customizing a Static Tag .
Device Access Protocol	http	Determines the transfer protocol used by the device to get its files.
Device Access FQDN	<BroadWorks-Xsp-Cluster-Address> Example: xsp.yealink.com	Represents the FQDN of the XSP used by the device to get its files.
Device Access Port	<BroadWorks-Xsp-Port> Example: 80	Represents the port number of the XSP used by the device to get its files.
Device Access Context Name	dms	Represents the name of the Broadworks DMS web application which has been predefined.
Device Access URI	<device-type-name> Example: YealinkT46	Ensures the uniqueness of the URL for each device type. It typically contains the device type name.

- **Legacy:** when the Legacy is marked, the parameters needing to be configured are summarized in the following table:

Parameter	Value	Description
Legacy Configuration Type	3 Config File	Defines the number of configuration files for the device profile type.
Boot File	y000000000000.boot	References configuration files in the boot file to be acquired by all your phones and specifies the download sequence of these configuration files.
CPE System File Name	y000000000028.cfg	Specifies the system configuration file name requested by the device.
Device File Format	%BWMACADDRESS%.cfg	Specifies the device file name requested by the device.

Creating a Device Profile Type

Procedure

1. Click **Resources->Identity/Device Profile Types**.

- Click **Add**.

The screenshot shows the BroadSoft web interface for adding a new identity/device profile type. The left sidebar contains a navigation menu with options like Profile, Resources, Services, Call Center, Communication Barring, Meet-Me Conferencing, and Utilities. The main content area is titled 'Identity/Device Profile Type Add' and includes a sub-header 'Add a new identity/device profile type.' Below this are 'OK' and 'Cancel' buttons. The configuration is divided into 'Standard Options' and 'Advanced Options' sections. In the 'Standard Options' section, 'Number of Ports' is set to 'Unlimited', 'Ringback Tone/Early Media Support' is set to 'RTP - Session', and 'Authentication' is set to 'Enabled'. Other options like 'Registration Capable', 'Static Registration Capable', 'E164 Capable', 'Trusted', 'Authenticate REFER', 'RFC3264 Hold', 'Video Capable', and 'Use History Info Header' are also visible. The 'Advanced Options' section includes checkboxes for 'Route Advance', 'Wireless Integration', 'PBX Integration', 'Add P-Called-Party-ID', 'Auto Configuration Soft Client', 'Requires BroadWorks Call Waiting Tone', 'Advice of Charge Capable', 'Support Emergency Disconnect Control', 'Enable Monitoring', 'Forwarding Override', 'Conference Device', 'Mobility Manager Device', 'Music On Hold Device', 'Requires BroadWorks Digit Collection', 'Requires MWI Subscription', 'Support Call Center MIME Type', and 'Support Identity In UPDATE and Re-INVITE'. At the bottom, there are 'Reset Event' options (reSync, checkSync, Not Supported), 'Trunk Mode' options (User, Pilot, Proxy), 'Unscreened Presentation Identity Policy' options (Profile Presentation Identity, Unscreened Presentation Identity, Unscreened Presentation Identity With Profile Domain), and a 'Web Based Configuration URL Extension' field. Finally, 'Device Configuration Options' are set to 'Not Supported'.

- Make the desired change.
- Click **OK** to accept the change.

Defining Device Profile Type Files

This section describes how to define the boot file, configuration files and static files that IP phones download. There is a boot file which is BOOT formatted and two configuration files both of which are CFG formatted. We call them the system files (system boot file and system configuration file) and the device-specific configuration file. The static files are required when employing some particular features on IP phones. The following provides detail information for these files.

System Files

System Boot File

The system boot file is effectual for all phones.

The following table lists the parameters used to define the system boot file:

Parameter	Value	Description
Device Access File Format	y000000000000.boot	Specifies the name of the system boot file.
Repository File Format	y000000000000.boot	Specifies the name of the system boot file stored in the Device Management repository.
File Category	Dynamic Per-Type	Specifies the type of the file.
File Customization	Administrator	Identifies who can customize the system boot file.
Assign File	Custom	
Authentication Mode	<ul style="list-style-type: none"> User Name and Password MAC-Based 	Defines the authentication method.
MAC Address In	Client Certificate	Defines where the MAC address is obtained if using MAC-Based authentication method.
MAC Address Format	Example: MAC Address Format regular expression: .*\\([0-9a-fA-F]{12}\\)	Configures a regular expression describing how to extract the MAC address.
Device Access HTTP Authentication	Digest	

System Configuration File

The system configuration file will be effectual for all IP phones of the same model. The system configuration file has a fixed name for each phone model. The names of the system configuration files for different IP phone models are:

- VP59: y0000000000091.cfg
- T58A: y0000000000058.cfg
- T57W: y0000000000097.cfg
- T54W: y0000000000096.cfg
- T53W/T53: y0000000000095.cfg

- T48U: y000000000109.cfg
- T46U: y000000000108.cfg
- T43U: y000000000107.cfg
- T42U: y000000000116.cfg
- T48S: y000000000065.cfg
- T46S: y000000000066.cfg
- T42S: y000000000067.cfg
- T41S: y000000000068.cfg
- T48G: y000000000035.cfg
- T46G: y000000000028.cfg
- T42G: y000000000029.cfg
- T41P: y000000000036.cfg
- T40P: y000000000054.cfg
- T40G: y000000000076.cfg
- T33P/T33G: y000000000124.cfg
- T31P/T31G/T31: y000000000123.cfg
- T30P/T30: y000000000127.cfg
- T29G: y000000000046.cfg
- T27G: y000000000069.cfg
- T23P/G: y000000000044.cfg
- T21(P) E2: y000000000052.cfg
- T19(P) E2: y000000000053.cfg
- W52P/W56P: y000000000025.cfg
- W53P/W60P/CP930W-Base: y000000000077.cfg
- W70B: y000000000146.cfg
- W90: y000000000130.cfg
- CP960: y000000000073.cfg
- CP920: y000000000078.cfg

The following table lists the parameters used to define the system configuration file:

Parameter	Value	Description
Device Access File Format	<system-file-name>.cfg Example: y000000000028.cfg	Specifies the name of the system configuration file.
Repository File Format	<system-file-name>.cfg Example: y000000000028.cfg	Specifies the name of the system file configuration stored in the Device

Parameter	Value	Description
		Management repository.
File Category	Dynamic Per-Type	Specifies the type of the file.
File Customization	Administrator	Identifies who can customize the system configuration file.
Assign File	Custom	
Authentication Mode	<ul style="list-style-type: none"> User Name and Password MAC-Based 	Defines the authentication method.
MAC Address In	Client Certificate	Defines where the MAC address is obtained if using MAC-Based authentication method.
MAC Address Format	Example: MAC Address Format regular expression: <code>.*\([0-9a-fA-F]{12}\)</code>	Configures a regular expression describing how to extract the MAC address.
Device Access HTTP Authentication	Digest	

Device-Specific Configuration File

A device-specific configuration file is only effectual for a specific IP phone. The device-specific configuration file is named after the MAC address of the IP phone. The file name format of the device-specific configuration file is as below:

`<mac-address>.cfg`

The following table lists the parameters used to define the device-specific configuration file:

Parameter	Value	Description
Device Access File Format	%BWMACADDRESS%.cfg	Specifies the name of the device-specific configuration file.
Repository File Format	%BWMACADDRESS%.cfg	Specifies the name of the device-specific configuration file stored in the Device Management repository.
File Category	Dynamic Per-Device	Specifies the type of the file.
File Customization	Administrator and User	Identifies who can customize the device-specific configuration file.

Parameter	Value	Description
Assign File	Custom	
Authentication Mode	<ul style="list-style-type: none"> User Name and Password MAC-Based 	Defines the authentication method.
MAC Address In	Client Certificate	Defines where the MAC address is obtained if using MAC-Based authentication method.
MAC Address Format	Example: MAC Address Format regular expression: .*([0-9a-fA-F]{12})\)	Configures a regular expression describing how to extract the MAC address.
Device Access HTTP Authentication	Digest	

Static Files

In addition to system files and device-specific configuration files, the IP phone may require static files before it can deliver service. The static files required may vary from different IP phone models. Tags cannot be added to the static files. The following lists the static files required for different IP phone models:

The Yealink IP phones require the following static files:

- <firmware-version>.rom
- Ring.wav (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90)
- 000.GUI.English.lang (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90)
- contact.xml
- AutoDST.xml
- dialplan.xml
- dialnow.xml
- The following table lists the parameters used to define the static file:

Parameter	Value	Description
Device Access File Format	Example: 28.81.193.10.rom	Specifies the name of the static file.
Repository File Format	Example: 28.81.193.10.rom	Specifies the name of the static file stored in the Device Management repository.
File Category	Static	Specifies the type of the file.

Parameter	Value	Description
File Customization	Allow	Determines whether the static files can be customized.
Assign File	Custom	
Authentication Mode	Not set	The static file is not authenticated.
Device Access HTTP Authentication	Basic	

Defining a Device Profile Type File

Procedure

1. Click **Resources->Identity/Device Profile Types**.
2. Select the desired device profile type (e.g., Yealink-T46G).
3. Click **Files and Authentication**.
4. Click **Add**.
5. Make the desired change and upload the files.
6. Click **Apply** to accept the change.

Log in BroadWorks as Group Administrator

The following sections provide information on how to customize static tags, create the device profile, upload files and so on at the group level.

Creating the BroadWorks Device Profile

Device profiles represent the devices themselves. When a new device profile is created from a device profile type, it inherits a representation of the default access and default configuration profiles defined at the type level.

Procedure

1. Click **Resources->Identity/Device Profiles**.
2. Click **Add**.
3. Select the desired device profile type (e.g., Yealink-T46G) from the drop-down menu of **Identity/Device Profile Type**.
4. Set the following parameters:

The screenshot shows the 'Identity/Device Profile Add' form in the BroadWorks interface. The form is titled 'Identity/Device Profile Add' and includes a sub-header 'Add a new group identity/device profile.' It features a sidebar with navigation options like Profile, Resources, Services, and Utilities. The main form area contains fields for Identity/Device Profile Name, Identity/Device Profile Type (Yealink-T46G), Protocol (SIP 2.0), Host Name/IP Address, Port, Transport (Unspecified), MAC Address (001565456FC3), Serial Number, Description, Outbound Proxy Server, STUN Server, Physical Location, and an Authentication section with radio buttons for 'Use Identity/Device Profile Type Credentials' and 'Use Custom Credentials'. The 'Use Custom Credentials' option is selected, showing fields for Device Access User Name (Yealink_T46G_Test), Device Access Password, and Re-type Device Access Password.

Parameter	Example Value	Description
Identity/Device Profile Name	Yealink_T46G_Test	Defines the device profile name.
MAC Address	001565456FC3	Specifies the MAC address of the device.
Authentication	Use Custom Credentials	Specifies the authentication method.
Device Access User Name	Yealink_T46G_Test	Specifies the user name.
Device Access Password	admin-password	Specifies the password.

- Click **OK** to accept the change.

Customizing a Static Tag

You can add a static tag at the group level for the specific device profile or the specific device profile type.

Adding a Static Tag for the Specific Device Profile

Procedure

- Click **Resources->Identity/Device Profiles**.
- Click **Search** to list all existing device profiles (Click **Next** to turn to the next page).

The screenshot displays the 'Identity/Device Profiles' management page. On the left is a navigation menu with options like Profile, Resources, Services, Service Scripts, Acct/Auth Codes, Call Center, Calling Plan, Meet-Me Conferencing, and Utilities. The main area shows a table of profiles. The 'Yealink_T46G_Test' profile is selected. Below the table, there are 'First', 'Previous', and 'Next' buttons, and a page indicator '[Page 2 of 2]'. At the bottom, there are 'OK', 'Add', and 'Cancel' buttons.

Identity/Device Profile Name [A]	Identity/Device Profile Type	Available Ports	Host Name/IP Address	MAC Address	Status	Version	Edit
4604UC	Yealink_T48G	6			Online	Yealink St...	Edit
4608	Yealink-T29G	26			Online	Yealink St...	Edit
4609	Yealink-T46G	5			Online	Yealink St...	Edit
4609_1	Yealink-T46G	5			Online	Yealink St...	Edit
w52pBLA	2Wire HomePortal	1			Online		Edit
Yealink_T46G_Test	Yealink-T46G	6	001565456fc3		Online		Edit
YealinkT23	Yealink T23P Test2	2			Online	Yealink St...	Edit
Yealink T23-Test	Yealink T23	1			Online	Yealink W5...	Edit
Yealink T46-Test	2Wire HomePortal	2			Online		Edit
Yealink-T48G-TEST	Yealink_T48G	6	10.3.20.9		Online	Yealink St...	Edit

- Select the desired device profile (e.g., Yealink_T46G_Test) and then click **Edit**.
- Click the **Custom Tags** tab.
- Click **Add** to add a new tag.
- Enter the desired tag name (e.g., LANGUAGEGUI) in the **Tag Name** field.

- Enter the desired tag value (e.g., English) in the **Tag Value** field.

Group Welcome [Logout](#)

Options:

- Profile
- Resources
- Services
- Service Scripts
- Acct/Auth Codes
- Call Center
- Calling Plan
- Meet-Me Conferencing
- Utilities

Identity/Device Profile Custom Tag Add
Add a new custom device management tag to the Identity/Device Profile.

OK Cancel

Identity/Device Profile Name: Yealink_T46G_Test
Identity/Device Profile Type: Yealink-T46G
Tag Name: %LANGUAGEGUI %
Tag Value: English

OK Cancel

- Click **OK** to accept the change.

After the above settings, the customized static tag will only be effectual for the device profile (e.g., Yealink_T46G_Test).

Adding a Static Tag for the Specific Device Profile Type

Procedure

- Click **Utilities->Device Configuration**.

The interface lists all existing device profile types.

Group Welcome [Logout](#)

Options:

- Profile
- Resources
- Services
- Service Scripts
- Acct/Auth Codes
- Call Center
- Calling Plan
- Meet-Me Conferencing
- Utilities

Device Configuration
Lists the configurable devices for the group.

OK

Identity/Device Profile Type	Configure Device	Edit
ZWire HomePortal		Edit
Business Communicator - PC		Edit
Yealink_T48G		Edit
Yealink_W52P		Edit
Yealink T23		Edit
Yealink T23P Test2		Edit
Yealink T28P		Edit
Yealink T29		Edit
Yealink-T29G		Edit
Yealink-T42G		Edit
Yealink-T46G		Edit

[Page 1 of 1]

Identity/Device Profile Type Starts With Find Find All

OK

- Select the desired device profile type (e.g., Yealink-T46G) and then click **Edit**.
- Click the **Custom Tags** tab.
- Click **Add** to add a new tag.
- Enter the desired tag name (e.g., LANGUAGEGUI) in the **Tag Name** field.

6. Enter the desired tag value (e.g., English) in the **Tag Value** field.

The screenshot shows a web interface for adding a custom tag. On the left is a sidebar with 'Options' including Profile, Resources, Services, Service Scripts, Acct/Auth Codes, Call Center, Calling Plan, Meet-Me Conferencing, and Utilities. The main area is titled 'Device Configuration Custom Tag Add' with a subtitle 'Add a new custom device management tag for the Identity/Device Profile Type in this group.' It contains two 'OK' and 'Cancel' buttons at the top. Below, it shows 'Identity/Device Profile Type: Yealink-T46G', 'Tag Name: %LANGUAGEGUI %' in a text field, and 'Tag Value: English' in another text field. At the bottom are two more 'OK' and 'Cancel' buttons.

7. Click **OK** to accept the change.

After the above settings, the customized static tag will be effectual for the device profile type (e.g., Yealink-T46G). All device profiles associated with this device profile type can also use the customized tag.

Uploading Device Template Files

Yealink provides two types of template configuration files (system and device-specific template configuration files) and a template boot file (system boot file). The boot file is only applicable to the IP phones running new firmware version (new auto provisioning mechanism).

The boot file is a valid BOOT file that can be created or edited. The boot file is first downloaded when you provision the phones. You can reference some configuration files in the boot file to be acquired by all your phones and specify the download sequence of these configuration files. For IP phones (except W53P/W60P/ W73P/W76P/W79P/CP930W-Base/W90) running firmware version 83 or later, you can reference some configuration files in the boot file to be acquired by specific groups of phones.

The boot file contains configuration files that will be downloaded by all the IP phones or specific groups of phones.

The following figure shows an example of boot file:

```
#!version:1.0.0.1
#The header above must appear as-is in the first line
include:config <y000000000028.cfg>
include:config <001565456fc3.cfg>
overwrite_mode = 1
specific_model.excluded_mode = 0
```

Before uploading the device template configuration files to BroadWorks, the built-in tags and static tags can be embedded in the configuration template files.

The following table describes system template configuration items that are generally required for the SIP-T46G IP phone to work with BroadWorks.

Item	Description
------	-------------

Item	Description
System Template Configuration Items <e.g., y000000000028.cfg>	
static.network.internet_port.type = 0	Configures the WAN port to obtain IP address from DHCP server.
local_time.ntp_server1 = %SNTP_SERVER_1% local_time.ntp_server2 = %SNTP_SERVER_2%	Configures the primary and secondary NTP servers. The tags %SNTP_SERVER_1% and %SNTP_SERVER_2% are created on BroadWorks. e.g., %SNTP_SERVER_1%=time-a.nist.gov and %SNTP_SERVER_2%=time-b.nist.gov
call_waiting.enable = 1 call_waiting.tone = 1	Enables or disables call waiting and call waiting tone. 0 (Disable), 1 (Enable)
features.feature_key_sync.enable = %FEATURE_KEY_SYN%	Enables or disables feature key synchronization. 0 (Disable), 1 (Enable) The tag %FEATURE_KEY_SYN% is customized on BroadWorks e.g., %FEATURE_KEY_SYN%=1 or %FEATURE_KEY_SYN%=0
static.firmware.url = http://%BWDEVICEACCESSFQDN%: %BWDEVICEACCESSPORT%/ %BWDMSCONTEXT%/BWDEVI CEACCESSURI%%T46_FIRMWA RE%	Configures the access URL for downloading the firmware. e.g., %BWDEVICEACCESSFQDN%= xsp.yealink.com, %BWDEVICEACCESSPORT%=80, %BWDMSCONTEXT%=dms and %BWDEVICEACCESSURI%=YealinkT46 These tags are dynamic built-in tags, which are predefined by BroadWorks. The tag %T46_FIRMWARE% is customized on BroadWorks. e.g., %T46_FIRMWARE%= 28.81.193.10.rom

The following table describes device-specific template configuration items that are generally required for the SIP-T46G IP phone to work with BroadWorks.

Item	Description
Device-specific Template Configuration Items <%BWMACADDRESS%.cfg>	
account.1.enable = %BWLIN-BINARY-1%	Enables or disables the first line. 0 (Disable), 1 (Enable) "%BWLIN-BINARY-1%" identifies whether

Item	Description
	to assign a line port to the first user.
account.1.display_name = %BWCLID-1%	Configures the name to be displayed on the phone for the first line. The tag “%BWCLID-1%” will be replaced by the Calling Line ID (CLID) retrieved from the Calling Line ID First and Last Name fields in the first user’s profile on BroadWorks.
account.1.user_name = %BWLINEPORT-1%	Configures the user ID for the first line. The tag “%BWLINEPORT-1%” will be replaced by the line/port setting in the first user’s address on BroadWorks.
account.1.auth_name = %BWAUTHUSER-1% account.1.password = %BWAUTHPASSWORD-1%	Configures SIP authentication for the first line. If the authentication service is assigned on BroadWorks, the tags “%BWAUTHUSER-1%” and “%BWAUTHPASSWORD-1%” will be replaced by the first user’s authentication settings on BroadWorks.
account.1.blf.blf_list_uri = %BWBLF-URI-1%	Configures the BLF List for the first line. The tag “%BWBLF-URI-1%” will be replaced by the Busy Lamp Field (BLF) List URI for the first user. e.g., %BWBLF-URI-1%=sip:myblf@pbx.yealink.com If the BLF List feature is not configured for the first user, this will be left blank.
account.1.shared_line = %BWSHAREDLINE-BINARY-1%	Configures the first line as a private or shared line. 0 (Private), 1 (Shared) %BWSHAREDLINE-BINARY-1% indicates whether the first line is shared.
account.1.conf_type = 2 account.1.conf_uri = %BWNETWORK-CONFERENCE-SIPURI-1%	Configures network conference for the first line. “%BWNETWORK-CONFERENCE-SIPURI-1%” will be replaced by the network conference SIP URI for the first user. e.g., %BWNETWORK-CONFERENCE-SIPURI-1%=Conference01@pbx.yealink.com

You can upload device template boot file or configuration files at the profile level or at the group level.

Uploading Device Template Files at the Profile Level

Procedure

- The interface lists all existing template boot file and configuration files.

Group

Options:

Profile

Resources

Services

Acct/Auth Codes

Call Center

Next-Gen Conferencing

Utilities

Welcome

Logout

Identity/Device Profile Modify

View or modify files used by the Identity/Device Profile

OK

Profile

Users

Files

Custom Tags

Identity/Device Profile Name: Yealink_T45G_Test

Identity/Device Profile Type: Yealink-T45G

Rebuild the files

(After rebuilding the files, be sure to reset the phones for your changes to take effect)

Rebuild the files (force)

(Forces the upload of the files to the repository - After rebuilding the files, be sure to reset the phones for your changes to take effect)

Reset the phones

File Format	Is Authenticated	Access File	Repository File	Template File	Edit
% BWMACADDRESS% cfg	✓	https://xsp.yealink.com/443/dms/Yealink-T23(%25BWMACADDRESS%25) cfg	Download	Download	Edit
y000000000000 boot	✓	http://xsp.yealink.com/80/dms/YealinkT45G/y00000000000000 boot	Download	Download	Edit
y0000000000028 cfg	✓	http://xsp.yealink.com/80/dms/YealinkT45G/y00000000000028 cfg	Download	Download	Edit

OK

Page 1 of 1

5. Select the desired template file (e.g., %BWMACADDRESS%.cfg) and then click **Edit**.
6. Mark the **Custom** radio box in the **Assign File** block.
7. Click **Browse** to upload the desired template file.

Group

Options:

Profile

Resources

Services

Service Scripts

Acc/ Auth Codes

Call Center

Callring Plan

Meet-Me Conferencing

Utilities

Welcome

Logout

Identity/Device Profile File Modify

Modify an existing Identity/Device Profile file.

OK

Apply

Cancel

Identity/Device Profile Name: Yealink_T46G_Test

Identity/Device Profile Type: Yealink-T46G

File Format: y00000000000028.cfg

Access File: <http://isp.yealink.com/80dms/YealinkT46G/y00000000000028.cfg>

Repository File: [Download](#)

Template File: [Download](#)

Assign File

Manual

Default

Custom

Upload Configuration File:

Browse...

No file selected.

Currently using configuration file:

/var/broadworks/IpDeviceConfigType/Yealink-T46G/y00000000000028.cfg.template

```

##!version:1.0.0.1

##!File header "#!version:1.0.0.1" can not be edited or
deleted, and must be placed in the first line.##
##This template file is applicable to SIP
T28P/T26P/T22P/T20P/T21P/T19P/T46G/T46G/T42G/T41P IP
phones running firmware version 72 or later.##
##For more information on configuration parameters,
refer to Yealink SIP-
T2_Series_T19P_T4_Series_IP_Phones_Auto_Provisioning_Gu

```

Rebuild the files

Reset the phones

(After rebuilding the files, be sure to reset the phones for your changes to take effect)

OK

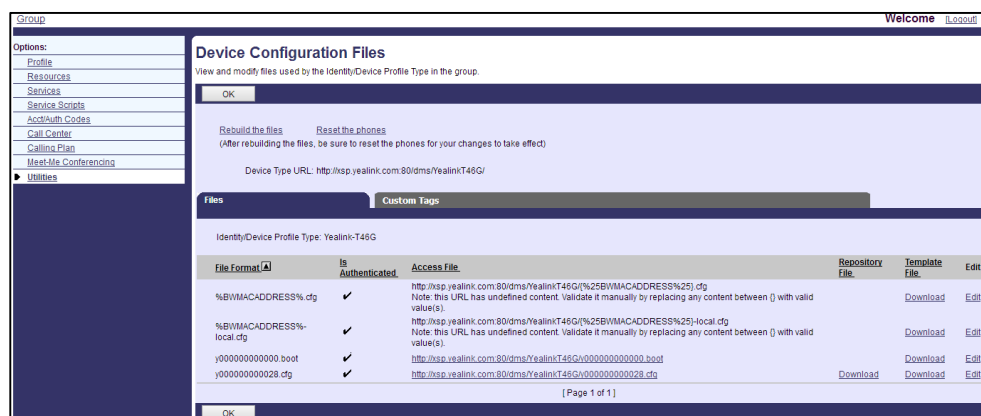
Apply

Cancel

- 25

Procedure

- The interface lists all existing template boot file and configuration files.



- After the above settings, the template boot and configuration files will be effectual for the device profile type (e.g., Yealink-T46G). All device profiles associated with this device profile type can download the template boot and configuration files.

You can upload static files at the profile level or at the group level.

Commonly, static files for each phone model have been uploaded by the system administrator. At the group level, you can upload the new static files for the specified phone to override the old static files. For more information on how to define static files, refer to [Defining Device Profile Type Files](#).

Uploading Static Files at the Profile Level

Procedure

1. Click **Resources->Identity/Device Profiles**.
2. Click **Search** to list all existing device profiles (Click **Next** to turn to the next page).
3. Select the desired device profile (e.g., Yealink_T46G_Test) and then click **Edit**.
4. Click the **Files** tab.
The interface lists all existing files.
5. Select the desired static file (e.g., 28.81.193.10.rom) and then click **Edit**.
6. Mark the **Custom** radio box in the **Assign File** block.
7. Click **Browse** to upload the desired static file.
8. Click **Apply** to accept the change.

After the above settings, the static files will only be effectual for the device profile (e.g., Yealink_T46G_Test).

Uploading Static Files at the Group Level

Procedure

1. Click **Utilities->Device Configuration**.
The interface lists all existing device profile types.
2. Select the desired device profile type (e.g., Yealink-T46G) and then click **Edit**.
3. Click the **Files** tab.
The interface lists all existing files.
4. Select the desired static file to edit (e.g., 28.81.193.10.rom).
5. Mark the **Custom** radio box in the **Assign File** block.
6. Click **Browse** to upload the desired static file.
7. Click **Apply** to accept the change.

After the above settings, the static files will be effectual for the device profile type (e.g., Yealink-T46G). All device profiles associated with this device profile type can download the static files.

Assigning the Device Profile to the User

Procedure

1. Click **Profile->Users**.
2. Click **Search** to list all existing users.

3. Select the desired user.
4. Click **Addresses**.
5. Mark the **Identity/Device Profile** radio box.
6. In the **Identity/Device Profile** block, select the created device profile (e.g., Yealink_T46G_Test) from the drop-down menu of **Identity/Device Profile Name**.
7. Enter the register's user name in the **Line/Port** field.
8. Select the domain name (e.g., pbx.yealink.com) from the drop-down menu after the sign @.

Group > Users : 4603 Welcome [Logout]

Options:

- Profile
- Incoming Calls
- Outgoing Calls
- Call Control
- Calling Plans
- Client Applications
- Meet-Me Conferencing
- Messaging
- Service Scripts
- Utilities

Addresses

Addresses allows you to view and maintain your phone number and other identities that are used to make and receive calls.

OK Apply Cancel

Phone Number: 4603 Activated
Extension: 4603

☒ Identity/Device Profile ☐ Trunking ☐ None

Identity/Device Profile

Identity/Device Profile Name: Yealink_T46G_Test (Group)
* Line/Port: Yealink_T46G_Test @ pbx.yealink.com AdvancedSettings

Aliases: sip: 4603@pbx.yealink.com
sip: @ pbx.yealink.com
sip: @ pbx.yealink.com
sip: @ pbx.yealink.com

OK Apply Cancel

9. Click **Apply** to accept the change.

Checking the Users Assigned the Device Profile

Procedure

1. Click **Resources->Identity/Device Profiles**.
2. Click **Search** to display all existing device profiles (Click **Next** to turn to the next page).
3. Select the desired device profile (e.g., Yealink_T46G_Test) and then click **Edit**.
4. Click the **Users** tab.
5. Click **Search** to display all users assigned to the device profile.

Group Welcome [Logout]

Options:

- Profile
- Resources
- Services
- Service Scripts
- Acct/Auth Codes
- Call Center
- Calling Plan
- Meet-Me Conferencing
- Utilities

Identity/Device Profile Modify

View the line/ports assigned on the Identity/Device Profile.

OK Apply Cancel

Profile **Users** **Files** **Custom Tags**

Enter search criteria below

Line/Port User Part Starts With + Search

Primary Line/Port	Line/Port	Port	Endpoint Type	On Type	User ID	Last Name	First Name	Phone Number	Extension	Department	Edit
<input type="checkbox"/>	Yealink_T46G_Test@pbx.yealink.com	1	Primary	Main	4603	Yealink	4603	4603	4603		Edit

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OK Apply Cancel

As shown in the above figure, only the user 4603 has been assigned to the device profile Yealink_T46G_Test).

Configuring BroadSoft Integrated Features

This chapter provides the detail instructions and configurations for the following BroadSoft integrated features:

- [BroadCloud Features](#)
- [Xtended Services Interface](#)
- [Simultaneous Ring Personal](#)
- [Line ID Blocking](#)
- [Anonymous Call Rejection](#)
- [BroadWorks Anywhere](#)
- [Remote Office](#)
- [BroadSoft Directory](#)
- [BroadSoft Call Log](#)
- [Local Call Log](#)
- [Call Park](#)
- [Group Paging](#)
- [Instant Group Call](#)
- [Hunt Group](#)
- [CommPilot Call Manager](#)
- [Authentication](#)
- [Authorization/Account Codes](#)
- [Call Waiting](#)
- [Diversion Inhibitor](#)
- [Do Not Disturb](#)
- [Call Forward](#)
- [Group Night Forwarding](#)
- [Alternate Numbers](#)
- [Sequential Ring](#)
- [Call Transfer](#)
- [Feature Key Synchronization](#)
- [Network Conference](#)
- [Call Pickup](#)
- [Calling Line ID Presentation](#)

- [Calling Line ID Blocking Override](#)
- [Connected Line Identification Presentation](#)
- [Connected Line Identification Restriction](#)
- [Meet-Me Conferencing](#)
- [Busy Lamp Field List](#)
- [Shared Call Appearance](#)
- [Music/Video on Hold](#)
- [Priority Alert](#)
- [Voice Messaging/Video Voice Messaging](#)
- [Automatic Call Distribution](#)
- [Hoteling](#)
- [Flexible Seating](#)
- [Centralized Call Recording](#)
- [Executive and Assistant](#)
- [Security Classification](#)
- [BroadWorks Mobility](#)
- [Call Decline Policy](#)
- [Emergency Call](#)
- [Silent Alerting](#)

To configure the above features on Yealink IP phones, check whether BroadSoft active feature is enabled (the value of the parameter “bw.enable” is set to 1) and the SIP server type is set to BroadSoft (the value of the parameter “account.X.sip_server_type” is set to 2). Contact Yealink field application engineer for more information.

BroadCloud Features

BroadCloud is an Extensible Messaging and Presence Protocol (XMPP)-based collaboration service. This service can interoperate with Yealink VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G/T33P/T33G/CP960 IP phones that support XMPP.

The following shows the available BroadCloud features on the Yealink IP phones:

- **BroadCloud Buddies:** It enables users to share information of buddies with the BroadTouch Business Communicator (BTBC) client application.
- **BroadCloud Favorites:** It enables users to mark buddies as favorites with BroadTouch Business Communicator (BTBC) client application.
- **BroadCloud Presence:** It enables users to share presence information with the BroadTouch Business Communicator (BTBC) client application.

The BroadCloud features require the support from the BroadSoft BroadWorks platform with patches and BroadSoft BroadCloud services. You must set up the BroadWorks server and BroadCloud services. For more information, refer to <http://xchange.broadsoft.com/php/xchange/support>.

All BroadCloud information is stored in the cloud and synchronized among all clients (BTBC and IP phones). When a client changes its BroadCloud information, it informs the cloud server of the changes, and then the cloud server notifies all clients.

Configuring Yealink IP Phones

Procedure

1. Add/Edit BroadCloud parameters in the configuration template files:

Parameters	Permitted Values	Default
bw.xmpp.enable	Boolean	0
Description: Enables or disables the UC feature. 0 -Disabled 1 -Enabled Note: If you change this parameter, the IP phone will reboot to make the change take effect.		
features.uc_username	String within 99 characters	Blank
Description: Configures the user name for UC authentication.		
features.uc_password	String within 32 characters	Blank
Description: Configures the password for UC authentication.		
bw.xmpp.change_presence.enable	Boolean	0
Description: Enables or disables to change your presence status on the IP phone. 0 -Disabled 1 -Enabled		
bw.xmpp.presence_icon.mode	Boolean	0

Parameters	Permitted Values	Default
Description: Enables or disables to display presence icon in a new style. 0 -Disabled 1 -Enabled Note: For more detail on the presence icon, refer to Yealink_IP_Phone_Features_Integrated_with_BroadSoft_UC-One_User_Guide .		
bw.xmpp.change_presence.force_manual.enable	Boolean	1
Description: Enables or disables to synchronize the presence status to the BroadWorks server when you change your presence status manually on the IP phone. 0 -Disabled 1 -Enabled		
phone_setting.dsskey_directory_auto.enable	Boolean	1
Description: Enables or disables the Auto Favorite feature. 0 -Disabled 1 -Enabled If it is set to 1 (Enabled), the IP phone will download information of favorites from the cloud server and automatically configure UC Favorite keys from the first unused line key (the line key type is configured as N/A or Line). If a line key is used, the IP phone will skip to the next unused line key. Note: It works only if "bw.xmpp.enable" is set to 1 (Enabled).		
phone_setting.uc_favorite_sequence_type	0, 1, 2 or 3	0
Description: Configures the order of UC Favorite keys to be assigned automatically. 0 -linekey->exp1 key->expN key 1 -exp1 key ->expN key ->linekey 2 -linekey page1->page1 from exp1 key to expN key ->page2 from exp1 key to expN key ->...->linekey from page2 to page3 3 -page1 from exp1 key to expN key ->page2 from exp1 key to expN key ->...->linekey N above is the number of your connected expansion modules. Note: It works only if "phone_setting.dsskey_directory_auto.enable" is set to 1 (Enabled). To assign Ext Key, make sure the expansion module has been connected to the phone in advance. It is only applicable to		

Parameters	Permitted Values	Default
SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G IP phones.		
phone_setting.keytype_sequence	blf_list, uc_favorite, favorite or a combination of them	Blank
<p>Description:</p> <p>Configures the display order of BLF List, UC Favorite, Favorite keys when two or three types appear simultaneously.</p> <p>If it is left blank, the display order is BLF List keys->UC Favorite keys->Favorite keys. The IP phone displays the keys with the left-to-right order. For example, "favorite,uc_favorite,blf_list" means the display order is: Favorite keys->UC Favorite keys->BLF List keys.</p> <p>If only one type is configured, the configured type will have the highest priority. For example, "blf_list" means the IP phone preferentially display the BLF List keys, and remaining keys' display order is UC Favorite keys->Favorite keys (the default order).</p> <p>Note: If Auto Linekeys feature is enabled (features.auto_linekeys.enable = 1), the Line keys (the line key type is configured as Line) will be shown first.</p>		
features.uc_dir.match_tail_number	Integer greater than or equal to 0	4
<p>Description:</p> <p>Configures the minimum matched digits of the tail numbers of BroadCloud Buddy. When the entered number matches the tail numbers of a buddy in the buddy directory, the IP phone will automatically display the matched results on the LCD screen when placing a call.</p> <p>If it is set to 0, the entered number must exactly match the number of BroadCloud Buddy.</p> <p>If it is set to other values (e.g., 4), the entered number less than 4 digits would not match with the BroadCloud contact.</p> <p>Example:</p> <p>If there is a BroadCloud Buddy name "Sunmy" with the phone number "785656" and the parameter "features.uc_dir.match_tail_number" is set to "4", "5656", "85656" or "785656" would match "Sunmy (785656)". "656", "56" or "6" would not match "Sunmy (785656)".</p>		
directory_setting.bw_uc_buddies.enable	Boolean	0
<p>Description:</p> <p>It enables or disables the IP phone to automatically search entries from the BroadSoft Buddies directory, and display results on the pre-dialing/dialing screen.</p>		

Parameters	Permitted Values	Default
0-Disabled 1-Enabled		
directory_setting.bw_uc_buddies.priority	Integer greater than or equal to 0	6
Description: It configures the search priority of the BroadSoft Buddies directory.		
search_in_dialing.bw_uc_buddies.enable	Boolean	0
Description: It enables or disables the users to access the BroadSoft Buddies directory by pressing the Directory/Dir soft key. 0-Disabled 1-Enabled		
directory_setting.bw_uc_buddies.priority	Integer greater than or equal to 0	12
Description: It configures the display priority of the BroadSoft Buddies directory.		

The following shows an example of BroadCloud configurations in a template configuration file (e.g., %BWMACADDRESS%.cfg):

bw.xmpp.enable = 1

features.uc_username = abc@demo.bc.im

features.uc_password = a123

bw.xmpp.change_presence.enable = 1

The user can access BroadCloud features using phone menu or pressing DSS keys. The user can change his/her presence status using a My Status key. For more information, refer to [Yealink_IP_Phone_Features_Integrated_with_BroadSoft_UC-One_User_Guide](#).

2. Add/Edit DSS key parameters in the configuration template files:

You can configure a line key as a Network UC Favorites/UC Favorite/Buddies/My Status key.

The "X" is an integer which specifies the sequence number of the line key. For SIP-T57W/T48U/T48S/T48G, X = 1-29; for VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X = 1-27; for SIP-T33P/T33G, X = 1-12; for CP960: X = 1-30.

Parameters	Permitted Values
------------	------------------

Parameters	Permitted Values
linekey.X.type	Integer
Description: Configures the line key type. 62 -Network UC Favorites 63 -UC Favorite (It is configurable only when the parameter “phone_setting.dsskey_directory_auto.enable” is set to 0 (Disabled).) 64 -Buddies 65 -My Status (It is configurable only when the parameter “bw.xmpp.change_presence.enable” is set to 1 (Enabled).)	
linekey.X.line	Integer from 1 to 16
Description: Configures the line to apply to UC Favorite key. 1 -Line1 2 -Line2 3 -Line3 ... 16 -Line16	
linekey.X.label	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.	

The following shows an example of a Buddies key configuration in a template configuration file (e.g., y000000000028.cfg):

linekey.1.type = 64

3. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After a successful update, the user can find the web user interface of the SIP-T46G IP phone is similar to the ones shown below:

Key	Type	Value	Label	Line	Extension
Line Key1	Line	Default	4603	Line 1	
Line Key2	Buddies			N/A	
Line Key3	Line	Default		Line 3	
Line Key4	Line	Default		Line 4	
Line Key5	Line	Default		Line 5	
Line Key6	Line	Default		Line 6	
Line Key7	Line	Default		Line 7	
Line Key8	Line	Default		Line 8	
Line Key9	Line	Default		Line 9	

Setting	Value
Call Waiting	Enabled
Auto Redial	Disabled
Auto Redial Interval (1~300s)	10
Auto Redial Times (1~300)	10
Key As Send	#
Reserve # in User Name	Enabled
Reboot in Talking	Disabled
Enable Auto Favorite	Enabled
Hide Feature Access Codes	Disabled
Display Method on Dialing	User Name
Auto Linekeys	Disabled

When Auto Favorite feature is enabled, the IP phone will download information of favorites from the cloud server and automatically configure UC Favorite keys from the first unused line key (the line key type is configured as N/A or Line). If a line key is used, the IP phone will skip to the next

unused line key.

Key	Type	Value	Label	Line	Extension
Line Key10	Line	Default		Line 10	
Line Key11	Line	Default		Line 11	
Line Key12	Line	Default		Line 12	
Line Key13	Line	Default		Line 13	
Line Key14	Line	Default		Line 14	
Line Key15	Line	Default		Line 15	
Line Key16	Line	Default		Line 16	
Line Key17	UC Favorite			Line 1	
Line Key18	UC Favorite			Line 1	

Xtended Services Interface (XSI)

The Xtended Services Interface (XSI) is an HTTP-based, REST-ful Application Programming Interface (API) available over BroadWorks, targeted to end-user functionalities such as call control, call log lists, directories, and end-user service configurations. IP phones interoperate with BroadWorks XSI using HTTP messages.

IP phones interoperating with BroadWorks XSI support the following features:

- Simultaneous Ring Personal (not applicable to W52P/W56P/CP930W-Base phones)
- Line ID Blocking (not applicable to W52P/W56P phones)
- Anonymous Call Rejection (not applicable to W52P/W56P phones)
- BroadWorks Anywhere (not applicable to W52P/W56P/CP930W-Base phones)
- Remote Office (not applicable to W52P/W56P/CP930W-Base phones)
- BroadSoft Directory
- BroadSoft Call Log
- Call Park Feature via XSI Mode (not applicable to W52P phones)
- Call Waiting Feature via XSI Mode
- Voice Messaging/Video Voice Messaging
- Centralized Call Recording (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90)
- Executive and Assistant (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90)
- BroadWorks Mobility (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90)
- Group Night Forwarding (not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90)

- Silent Alerting (not applicable to W52P/W56P/ W73P/W76P/W79P/CP930W-Base phones/W90)

Note

Before configuring the features above, make sure that the authentication information for XSI access has been properly configured on IP phones.

For the IP phone to access XSI features, the Xtended Services Platform (XSP) must first authenticate the XSI user. The IP phone can use the main or alternate user ID for XSI authentication.

The Yealink IP phones running new firmware version, support two XSI authentication methods:

- **User Login Credentials for XSI Authentication:** The IP phone uses the XSI user login credentials (web portal login user ID and password) for XSI authentication. If no custom tag is configured for the XSI user password, the XSI user password will be not available from the Device Management configuration file. In this case, the end-user needs to manually configure it on the IP phone or enter the password in the login screen.
- **SIP Credentials for XSI Authentication:** As of BroadWorks release 20.0, the IP phone can use the XSI user ID along with SIP authentication credentials for XSI authentication. SIP authentication credentials are the register name and password of the SIP account registered on the phone, which can be obtained through Device Management configuration file. No end-user input or manual configuration is required.

You can configure the authentication method the phone uses for XSI access. For more information on how to configure the phone, refer to the following section.

Note

The lock state of SIP credentials is not taken into account for the SIP credentials for XSI authentication scheme. For example, the IP phone can be locked out for signaling but can still use its locked SIP credentials for XSI authentication and to be authenticated successfully.

To use SIP Credentials for XSI Authentication, ensure that the SIP register name and password of the corresponding user are properly pre-configured on the phone.

Configuring Yealink IP Phones

Procedure

1. Add/Edit XSI parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for W52P/W56P, X=1-5; W53P/W60P/CP930W-Base, X=1-8; W73P/W76P/W79P, X=1-10; W90: X=1-2500; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
bw.xsi.enable	Boolean	0
Description: Enables or disables the Broadsoft XSI feature. 0 -Disabled 1 -Enabled Note: If you change this parameter, the IP phone will reboot to make the change take effect. For W52P/W56P Phones, the default value is 1 (Enabled).		
sip.authentication_for_xsi	Boolean	0
Description: Configures the authentication mechanism for the XSI. 0 -User Login Credentials for XSI Authentication 1 -SIP Credentials for XSI Authentication If it is set to 0 (User Login Credentials for XSI Authentication), the IP phone uses the XSI user ID and password for XSI authentication. If it is set to 1 (SIP Credentials for XSI Authentication), the IP phone uses the XSI user ID, the register name and password of the corresponding SIP account for XSI authentication. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		
account.X.xsi.user	%BWLOGIN-ID-X%	Blank
Description: Configures the user ID for XSI access authentication. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		
account.X.xsi.password	%XSIPASSWORD-X%	Blank
Description: Configures the password for XSI access authentication. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled) and it is required only when the value of the parameter "sip.authentication_for_xsi" is set to 0 (User Login Credentials for XSI Authentication).		
account.X.xsi.host	%XSP_ADDRESS%	Blank
Description: Configures the IP address of the Xtended Services Platform server for account X. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		

Parameters	Permitted Values	Default
account.X.xsi.server_type	HTTP or HTTPS	HTTP
Description: Configures the access protocol of the Xtended Services Platform server for account X. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		
account.X.xsi.port	Integer from 1 to 65535	80
Description: Configures the port of the Xtended Services Platform server for account X. Note: It works only if "bw.xsi.enable" is set to 1 (Enabled).		

The following shows example configurations for user login credentials for XSI authentication for account 1 in the template configuration file (e.g., %BWMACADDRESS%.cfg):

```
bw.xsi.enable = 1
sip.authentication_for_xsi = 0
account.1.xsi.user = %BWLOGIN-ID-1%
account.1.xsi.password = %XSIPASSWORD-1%
account.1.xsi.host = %XSP_ADDRESS%
account.1.xsi.server_type = HTTP
account.1.xsi.port = 80
```

2. Customize the static tags on BroadWorks.

The following table shows an example:

Tag Name	Value
%BWLOGIN-ID-1%	4602@pbx.yealink.com
%XSIPASSWORD-1%	yealink
%XSP_ADDRESS%	xsp.yealink.com

For more information, refer to [Customizing a Static Tag](#).

Please contact your BroadSoft reseller for the actual values of these tags.

3. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter values. An example for the XSI authentication mechanism is shown as below:

```
account.1.xsi.user = 4602@pbx.yealink.com
account.1.xsi.password = yealink
account.1.xsi.host = xsp.yealink.com
```

After successful update, user can find the web user interface of the SIP-T46G (running firmware 81 or later) IP phone is similar to the one shown as below if the user selects the XSI authentication mechanism:

The following shows example configurations for SIP credentials for XSI authentication for account 1 in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
bw.xsi.enable = 1
sip.authentication_for_xsi = 1
account.1.xsi.user = %BWLOGIN-ID-1%
account.1.auth_name = %BWAUTHUSER-1%
account.1.password = %BWAUTHPASSWORD-1%
account.1.xsi.host = %XSP_ADDRESS%
account.1.xsi.server_type = HTTP
account.1.xsi.port = 80
```

After editing the configuration file, upload it to BroadWorks. The tags in the template file will be replaced by the actual parameter values. An example is shown as below:

```
account.1.xsi.user = 4602@pbx.yealink.com
account.1.auth_name = 4602
account.1.password = yealink#1105
account.1.xsi.host = xsp.yealink.com
```

After a successful update, user can find the web user interface of the SIP-T46G (running firmware 81 or later) IP phone is similar to the one shown as below if the user selects the SIP authentication mechanism:

Simultaneous Ring Personal

Simultaneous Ring Personal allows a user to have up to 10 secondary locations to be alerted simultaneously in addition to the user's primary location when receiving an incoming call that matches the pre-defined criteria. The call is connected to the user who answers the call first. The enhancement, Answer Confirmation, allows simultaneous ringing personal to prompt the callee to enter a digit to confirm the acceptance of the call. This feature is not applicable to W52P/W56P/CP930W-Base phones.

Note

Before configuring Simultaneous Ring Personal feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Simultaneous Ring Personal configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

For more information on Simultaneous Ring Personal, refer to *BroadWorks Web Interface Administrator Guide*.

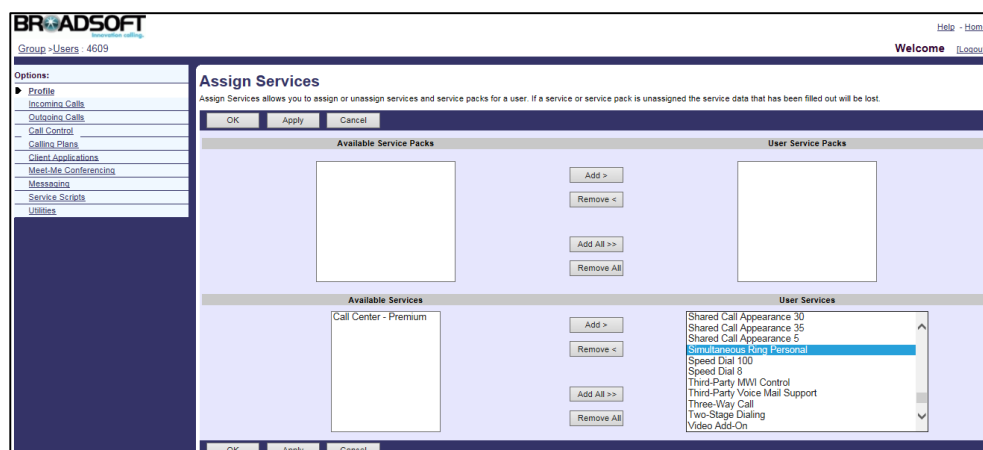
Configuring the BroadSoft Server

Assigning the Simultaneous Ring Personal Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).

5. Click **Assign Services**.
6. In the **Available Services** box, select **Simultaneous Ring Personal** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring Simultaneous Ring Personal for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the Simultaneous Ring Personal service.
5. Click **Incoming Calls->Simultaneous Ring Personal**.
6. Configure the following parameters for Simultaneous Ring Personal.

Parameter	Description
Simultaneous Ring Personal	Specifies whether to use the simultaneous ring personal service.
Do not ring my Simultaneous Ring Numbers if I'm already on a call	Specifies whether secondary phone numbers or URIs should be alerted while the primary location is already on a call.
Answer confirmation required	Allows simultaneous ring personal to prompt the answering party to enter a digit to confirm the acceptance of the call.
Phone Number / SIP-URI	Specifies the phone number or SIP URI of the location.

The following shows an example:

Simultaneous Ring Personal: Selected

Do not ring my Simultaneous Ring Numbers if I'm already on a call: **Selected**

Answer confirmation required: **Selected**

Phone Number / SIP-URI: **4607**

7. Click **Apply** to accept the change.

Adding a Simultaneous Ring Personal Entry

You can define and activate/deactivate selective criteria entries. The criteria for each Simultaneous Ring entry can be a list of up to 12 phone numbers or digit patterns, a specified time schedule, and a specified holiday schedule.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the Simultaneous Ring Personal service.
5. Click **Incoming Calls->Simultaneous Ring Personal**.
6. Click **Add**.
7. Set the parameters of the Simultaneous Ring Personal criteria.

The following shows an example:

Description: **R-entry1**

Use simultaneous ring personal: **Selected**

Selected Time Schedule: **Every Day All Day**

Selected Holiday Schedule: **None**

Calls from:

Any phone number

8. Click **OK** to accept the change.

Line ID Blocking

Line ID Blocking allows a user to block his identity from showing up when placing a call. When a user with this feature enabled places a call, the BroadWorks sends an INVITE to the callee with From header: From: "Anonymous"<sip:anonymous@anonymous.invalid>. The callee's phone LCD screen presents "anonymous" instead of the caller's identity. This feature does not apply to calls from within a group. This feature is not applicable to W52P/W56P phones.

Note

Before configuring Line ID Blocking feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Line ID Blocking configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

For more information on Line ID Blocking, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning Calling Line ID Delivery Blocking Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).

- Click **Assign Services**.
- In the **Available Services** box, select **Calling Line ID Delivery Blocking** and then click **Add>**.

- Click **Apply** to accept the change.

Activating Line ID Blocking for a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4609), who has been assigned the calling line ID delivery blocking service.
- Click **Outgoing Calls->Line ID Blocking**.
- Mark the **On** radio box in the **Block Calling Line ID on Outgoing Calls** field.

- Click **Apply** to accept the change.

Anonymous Call Rejection

Anonymous Call Rejection allows a user to automatically reject incoming calls from callers who deliberately block their identities (phone number and name) from showing up. This feature is not applicable to W52P/W56P phones.

Note

Before configuring Anonymous Call Rejection feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Anonymous Call Rejection configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

For more information on Anonymous Call Rejection, refer to *BroadWorks Web Interface Administrator Guide*.

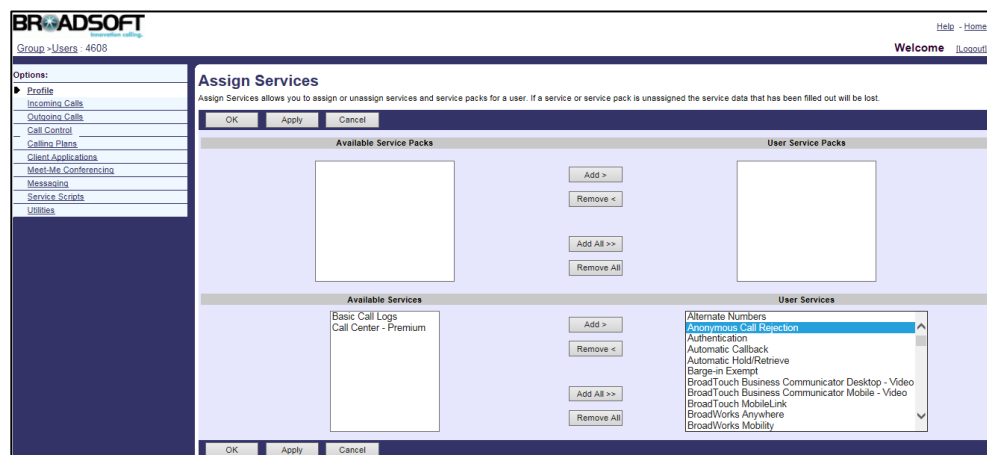
Configuring the BroadSoft Server

Assigning the Anonymous Call Rejection Service to a User

This service does not apply to calls from within a group.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4608).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Anonymous Call Rejection** and then click **Add>**.



7. Click **Apply** to accept the change.

Activating Anonymous Call Rejection for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4608), who has been assigned the Anonymous Call Rejection service.
5. Click **Incoming Calls->Anonymous Rejection**.
6. Mark the **On** radio box in the **Anonymous Call Rejection** field

The screenshot shows the BroadSoft web portal interface. On the left is a navigation menu with options like Profile, Incoming Calls, Outgoing Calls, Call Control, Calling Plans, Client Applications, Meet-Me Conferencing, Messaging, Service Scripts, and Utilities. The main content area is titled 'Anonymous Call Rejection' and includes a descriptive paragraph: 'Anonymous Call Rejection allows you to reject calls from callers who have blocked the display of their number. Only deliberate anonymous numbers are rejected. Callers whose numbers are unavailable are not rejected. Callers that are rejected are informed that you are not accepting calls from unidentified callers. Your phone does not ring and you do not receive any indication that they called. However, this does not apply to calls within your group.' Below this text are three buttons: OK, Apply, and Cancel. The 'Anonymous Call Rejection' field has two radio buttons, 'On' (which is selected) and 'Off'. At the bottom, there are again three buttons: OK, Apply, and Cancel.

7. Click **Apply** to accept the change.

BroadWorks Anywhere

BroadWorks Anywhere is useful for users demanding flexibility with their fixed and mobile devices. This feature allows users to designate a single phone number for incoming and outgoing calls, regardless of which phone they are currently using. For example, IP desk phone, mobile phone or home phone. This feature is not applicable to W52P/W56P/CP930W-Base phones.

Note

Before configuring the BroadWorks Anywhere feature, make sure that Remote Office (refer to [Remote Office](#)) is turned off and the XSI (refer to [Xtended Services Interface](#)) has been configured. If the BroadWorks XSI is configured on the IP phone, the BroadWorks Anywhere configurations can be synchronized between the IP phone and the BroadWorks server.

For more information on BroadWorks Anywhere, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Creating a BroadWorks Anywhere Portal

The BroadWorks Anywhere portal is a virtual user service that handles incoming calls from the BroadWorks Anywhere locations and prompts users for the destination address. You can create one or more BroadWorks Anywhere portals, each with its own characteristics.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->BroadWorks Anywhere**.
3. Click **Add**.
4. Set the BroadWorks Anywhere portal parameters.

The following shows an example:

BroadWorks Anywhere ID: Portal1
Name: Anywhere Portal1
Calling Line ID Last Name: Portal1
Calling Line ID First Name: Anywhere

The screenshot shows the 'BroadWorks Anywhere Add' form in the BroadSoft web portal. The form is titled 'Create a BroadWorks Anywhere Portal' and includes fields for 'BroadWorks Anywhere ID' (Portal1), 'Name' (Anywhere Portal1), 'Calling Line ID Last Name' (Portal1), and 'Calling Line ID First Name' (Anywhere). It also has dropdown menus for 'Department' (None) and 'Time Zone' ((GMT+08:00) Asia/Shanghai). There are radio buttons for 'Can Be Used By' (Users in Enterprise, Users in Group), 'Prompt to Confirm Calling Location' (Never Prompt, Always Prompt, Prompt if Not Available), and checkboxes for 'Silent Prompt Mode' and 'Prompt For Passcode'. The form has 'OK' and 'Cancel' buttons at the bottom.

5. Click **OK** to accept the change.
6. Select the anywhere portal added above and then click **Edit**.
7. Click **Addresses**.
8. Select the phone number from the drop-down menu of **Phone Number**.

- Enter the extension in the **Extension** field.

BROADSOFT
Group: BroadWorks Anywhere - Portal1

Options:
 Profile
 Incoming Calls
 Outgoing Calls
 Call Control
 Messaging
 Utilities

BroadWorks Anywhere Addresses
 Addresses allows you to view and maintain your phone number and other identities that are used to make and receive calls.

Phone Number: 4606 Activated
 Extension: 4606
 Aliases: sip: @pbx.yealink.com
 sip: @pbx.yealink.com
 sip: @pbx.yealink.com

OK Apply Cancel

- Click **Apply** to accept the change.

Assigning the BroadWorks Anywhere Service to a User

The BroadWorks Anywhere service cannot be assigned to virtual users.

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4609).
- Click **Assign Services**.
- In the **Available Services** box, select **BroadWorks Anywhere** and then click **Add>**.

BROADSOFT
Group: Users 4609

Options:
 Profile
 Incoming Calls
 Outgoing Calls
 Call Control
 Calling Plans
 Client Applications
 Meet-Me Conferencing
 Messaging
 Service Scripts
 Utilities

Assign Services
 Assign Services allows you to assign or unassign services and service packs for a user. If a service or service pack is unassigned the service data that has been filled out will be lost.

Available Service Packs
 Add >
 Remove <
 Add All >>
 Remove All

User Service Packs
 Add >
 Remove <
 Add All >>
 Remove All

Available Services
 Call Center - Premium
 Add >
 Remove <
 Add All >>
 Remove All

User Services
 Basic Call Logs
 BroadTouch Business Communicator Desktop - Video
 BroadTouch Business Communicator Mobile - Video
 BroadTouch MobileLink
 BroadWorks Anywhere
 BroadWorks Mobility
 Busy Lamp Field
 Call Forwarding Always
 Call Forwarding Busy
 Call Forwarding No Answer
 Call Forwarding Not Reachable

OK Apply Cancel

- Click **Apply** to accept the change.

Specifying BroadWorks Anywhere Locations for a User

Procedure

- Log in to the web portal as a group administrator.

2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the BroadWorks Anywhere service.
5. Click **Call Control->BroadWorks Anywhere**.
6. Check the **Alert all locations for Click-to-Dial calls** checkbox.
7. Check the **Alert all locations for Group Paging calls** checkbox.

8. Click **Apply** to accept the change.
9. Click **Add** to add a BroadWorks Anywhere location.
10. Enter the phone number (e.g., 4603) in the **Phone Number** field.
11. Enter the description (e.g., Home Office) in the **Description** field.
12. Check the **Enable this Location** checkbox, which enables this location for BroadWorks Anywhere.
13. Configure the advanced options:
 - **Outbound Alternate Phone Number/SIP URI:** Enter the phone number/SIP URI in this field and this phone number will ring when the IP phone rings.
 - **Enable Diversion Inhibitor:** Checking this checkbox prevents a call from being forwarded to another location if you have call forward activated.
 - **Require Answer Confirmation:** Checking this checkbox enables the BroadWorks server to prompt an answer confirmation when a call to this anywhere location is answered by the user.
 - **Use BroadWorks-based Call Control Services:** Checking this checkbox enables call control services to be performed by BroadWorks Anywhere location.

14. Click the **Selective Criteria** tab.
15. Click **Add** to add the criterion for the phone number.

BroadWorks Anywhere Criteria Add
Allows you to add a selective criteria for a BroadWorks Anywhere phone number.

Phone Number: 4903
* Description: Home Office

☒ Use broadworks anywhere
☐ Do not use broadworks anywhere

Selected Time Schedule: Every Day All Day
Selected Holiday Schedule: None

Calls from:
☒ Any external phone number
☐ Following phone numbers:
☐ Any private number
☐ Any unavailable number
Specific phone numbers:

16. Click **OK** to accept the change.
17. Repeat steps 14 to 15 to add more criteria for the phone number.

Changing the Portal Password for BroadWorks Anywhere

This portal password is used for authentication when a user uses BroadWorks Anywhere feature. It is also applied to for BroadWorks Hoteling.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been specified BroadWorks Anywhere locations.
5. Click **Profile->Passwords**.
6. Mark the **Set portal password** radio box.
7. Enter the new password in the **Type new password** field.
8. Re-enter the new password in the **Re-type new password** field.

Passwords
Passwords allows you configure your passwords for the web portal and/or portal.

☐ Set web access password ☒ Set portal password

Reset Password:
* Type new password:
* Re-type new password:

9. Click **Apply** to accept the change.

Remote Office

Remote Office is especially useful for telecommuters and mobile workers, as it enables them to use all of their phones' features while working remotely (for example, extension dialing, transfers, conference calls, Outlook Integration, directories and so on). This feature is not applicable to W52P/W56P/CP930W-Base phones.

Note

Before configuring Remote Office feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Remote Office configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

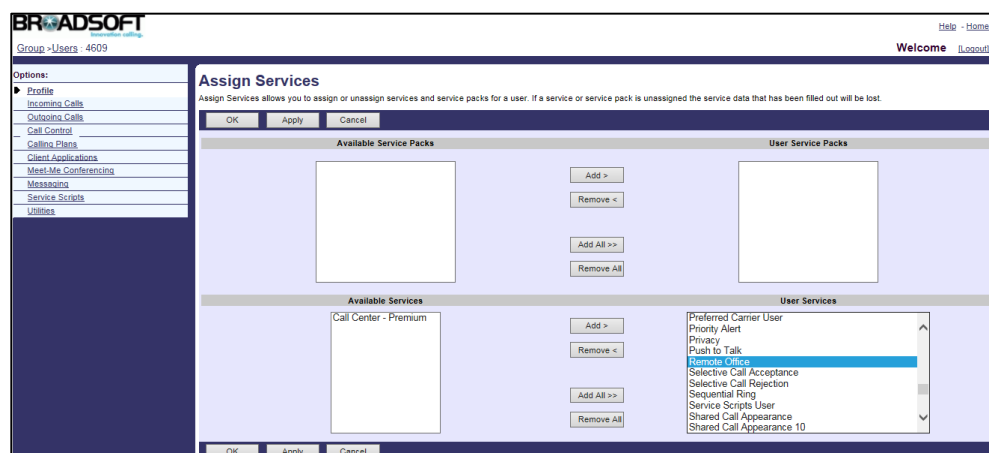
For more information on Remote Office, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Remote Office Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Remote Office** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring Remote Office Feature for the User

You can activate/deactivate the Remote Office feature and assign a remote phone number.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).
5. Click **Call Control->Remote Office**.
6. Mark the **On** radio box in the **Remote Office** field.
7. Enter the remote phone number in the **Remote Phone Number/SIP-URI** field.

The screenshot shows the BroadSoft web portal interface. On the left is a navigation menu with options like Profile, Incoming Calls, Outgoing Calls, Call Control (selected), Call Plans, Client Applications, Meet-Me Conferencing, Messaging, Service Scripts, and Utilities. The main content area is titled 'Remote Office' and contains a description: 'Remote Office allows you to use your home phone, your cell phone or even a hotel phone as your business phone. By using the CommPilot Call Manager, you can make phone calls from this remote phone and have them billed to your business. This service also directs all calls coming to your business phone to ring the remote office phone.' Below this is a form with 'Remote Office' set to 'On' (radio button selected) and 'Remote Phone Number / SIP-URI' set to '4607'. There are 'OK', 'Apply', and 'Cancel' buttons at the bottom of the form.

8. Click **Apply** to accept the change.

BroadSoft Directory

IP phones support to access the BroadSoft Directory locally. The BroadWorks server provides six types of directories: Enterprise Directory, Group Directory, Enterprise Common Directory, Group Common Directory, Personal Directory, and Custom Directory.

- **Enterprise Directory:** It contains a list of all users in the enterprise. Each entry in the enterprise directory contains the name, user ID, extension, group, department, etc. The enterprise directory is created automatically from BroadWorks. The user has just read-only access.
- **Group Directory:** It contains a list of all users in the group. Each entry in the group directory contains the name, user ID, extension, department, etc. The group directory is created automatically from BroadWorks. The user has just read-only access.
- **Enterprise Common Directory:** It contains a list of common contacts in the enterprise. Each entry in the directory contains the name and phone number. Only the enterprise administrator can add a new contact to the enterprise common directory. The enterprise common directory is shared with all users within the same enterprise. The user has just read-only access.
- **Group Common Directory:** It contains a list of common contacts in the group. Each entry in the directory contains the name and phone number. The group administrator can add a

new contact to the group common directory. The group common directory is shared with all users within the same group. The user has just read-only access.

- **Personal Directory:** It contains a list of personal contacts of the user. Each entry in the directory contains the name and phone number. The user can add a new contact to the personal directory.
- **Custom Directory:** It contains a subset of the users in the group or enterprise. The administrator can add a custom directory, such as an Executive Directory, containing the desired users.

Note

Before configuring BroadSoft Directory feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the BroadSoft Directory can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

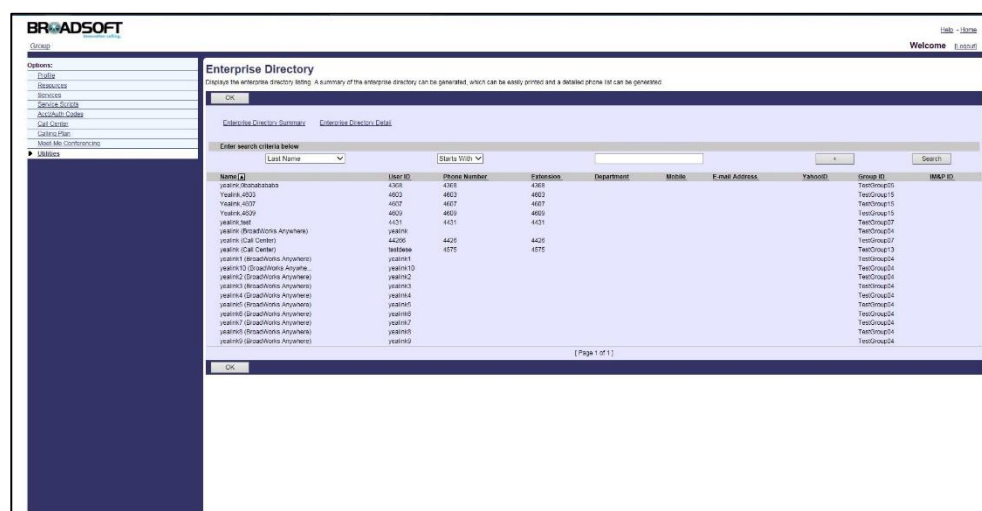
For more information on BroadSoft Directory, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Viewing the Enterprise Directory

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Utilities->Enterprise Directory**.
3. Click **Search** to display a list of all users in the group.



4. To display the summary of the enterprise directory, click **Enterprise Directory Summary**. A printable summary page appears in a separate browser window.

Phone List								
Name	User Id	Number	Extension	Department	Mobile	Email Address	Group Id	IMP Id
yealink_0bababababa	4368	4368	4368				TestGroup05	
Yealink_4603	4603	4603	4603				TestGroup15	
Yealink_4607	4607	4607	4607				TestGroup15	
Yealink_4609	4609	4609	4609				TestGroup15	
yealink_test	4431	4431	4431				TestGroup07	
yealink (BroadWorks Anywhere)	yealink						TestGroup04	
yealink (Call Center)	44266	4426	4426				TestGroup07	
yealink (Call Center)	testdese	4575	4575				TestGroup13	
yealink1 (BroadWorks Anywhere)	yealink1						TestGroup04	
yealink10 (BroadWorks Anywhere)	yealink10						TestGroup04	
yealink2 (BroadWorks Anywhere)	yealink2						TestGroup04	
yealink3 (BroadWorks Anywhere)	yealink3						TestGroup04	
yealink4 (BroadWorks Anywhere)	yealink4						TestGroup04	
yealink5 (BroadWorks Anywhere)	yealink5						TestGroup04	
yealink6 (BroadWorks Anywhere)	yealink6						TestGroup04	
yealink7 (BroadWorks Anywhere)	yealink7						TestGroup04	
yealink8 (BroadWorks Anywhere)	yealink8						TestGroup04	
yealink9 (BroadWorks Anywhere)	yealink9						TestGroup04	

5. To display the details of the enterprise directory, click **Enterprise Directory Detail**. A printable detail page appears in a separate browser window.

Phone List	
yealink_0bababababa 4368 Value: 4368 Extension: 4368	Yealink_4603 4603 Value: 4603 Extension: 4603
Yealink_4607 4607 Value: 4607 Extension: 4607	Yealink_4609 4609 Value: 4609 Extension: 4609
yealink_test 4431 Value: 4431 Extension: 4431	yealink (BroadWorks Anywhere) yealink
yealink (Call Center) 44266 Value: 4426 Extension: 4426	yealink (Call Center) testdese Value: 4575 Extension: 4575
yealink1 (BroadWorks Anywhere) yealink1	yealink10 (BroadWorks Anywhere) yealink10
yealink2 (BroadWorks Anywhere) yealink2	yealink3 (BroadWorks Anywhere) yealink3
yealink4 (BroadWorks Anywhere) yealink4	yealink5 (BroadWorks Anywhere) yealink5

Adding a Contact to the Group Common Directory

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Utilities->Common Phone List**.
3. Click **Add**.
4. Enter the name in the **Name** field.

- Enter the phone number in the **Phone Number** field.

The screenshot shows the BroadSoft web portal interface. On the left is a navigation menu with options like Profile, Resources, Services, Service Scripts, Acc/Auth Codes, Call Center, Calling Plan, Meet-Me Conferencing, and Utilities. The main content area is titled 'Common Phone List Add' with the instruction 'Add a common phone number to the list.' Below this are two input fields: '* Name' with the value 'Bob' and '* Phone Number' with the value '0123223'. There are 'OK' and 'Cancel' buttons at the top and bottom of the dialog.

- Click **OK** to accept the change.

Then the contact appears in the group common directory.

Importing a Comma-delimited Text File

You can also import common contacts from an existing comma-delimited text file (file format must be *.csv). To produce a comma-delimited text file, refer to the instructions for a program such as TXT.

Procedure

- Log in to the web portal as a group administrator.
- Click **Utilities->Common Phone List**.
- Click **Import Phone List**.
- Click **Browse** to locate the CSV file from your local system.

The first line of the CSV file must define two columns: *Name* and *Number*.

The screenshot shows the BroadSoft web portal interface. On the left is a navigation menu with options like Profile, Resources, Services, Service Scripts, Acc/Auth Codes, Call Center, Calling Plan, Meet-Me Conferencing, and Utilities. The main content area is titled 'Common Phone List Import' with the instruction 'Import common phone list entries from a CSV file. For details about the CSV file, click on the Help link for this page.' Below this are three buttons: 'OK', 'Apply', and 'Cancel'. There is a 'Select a Phone List File:' field with a 'Browse...' button.

- Click **Apply** to accept the change.

Then the contacts in the CSV file appear in the group common directory.

The following shows an example of the contacts in an import list created in a text file before the file is converted to a CSV file. Each value in an import list created in a text file must enclose in quotation marks and separate by a comma.

```
"Name", "Number"
"Bob", "8003"
"Jony", "8001"
"Jane", "8005"
"John", "8009"
```

Adding a Contact to the Personal Directory Manually

You can add contacts to the Personal Directory manually. You can also import personal contacts from an existing comma-delimited text file (file format must be *.csv). For more information, refer to the introduction above.

Procedure

1. Log in to the web portal with the user credential.
2. Click **Outgoing Calls->Personal Phone List**.
3. Click **Add**.
4. Enter the name in the **Name** field.
5. Enter the phone number in the **Phone Number** field.

6. Click **OK** to accept the change.

Then the contact appears in the user's personal directory.

Adding a Custom Directory

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Utilities->Custom Contact Directories**.
3. Click **Add**.
4. Enter the name in the **Directory Name** field.
5. Click **Search** to display all available users.
6. In the **Available Users** box, select the desired user and then click **Add>** to assign the user to the directory.

- Repeat step 6 to add more users.

- Click **OK** to accept the change.

Configuring Yealink IP Phones

Procedure

- Add/Edit BroadSoft Directory parameters in the configuration template files:

Parameters	Permitted Values	Default
bw.xsi.directory.enable	Boolean	0
Description: Enables or disables the Broadsoft Directory feature. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). For W52P/W56P Phones, the default value is 1 (Enabled).		
bw_phonebook.group_enable	Boolean	1
Description: Enables or disables the IP phone to display the group directory. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled).		
bw_phonebook.group_displayname	%BWGROUP-1 %	Group
Description: Configures the group directory name displayed on the IP phone. Note: It works only if “bw.xsi.directory.enable” and “bw_phonebook.group_enable” are		

Parameters	Permitted Values	Default
set to 1 (Enabled).		
bw_phonebook.group_common_enable	Boolean	1
Description: Enables or disables the IP phone to display the group common directory. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled).		
bw_phonebook.group_common_displayname	String within 99 characters	GroupCommon
Description: Configures the group common directory name displayed on the IP phone. Note: It works only if “bw.xsi.directory.enable” and “bw_phonebook.group_common_enable” are set to 1 (Enabled).		
bw_phonebook.enterprise_enable	Boolean	1
Description: Enables or disables the IP phone to display the enterprise directory. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled).		
bw_phonebook.enterprise_displayname	%BWENTERPRISE-1%	Enterprise
Description: Configures the enterprise directory name displayed on the IP phone. Note: It works only if “bw.xsi.directory.enable” and “bw_phonebook.enterprise_enable” are set to 1 (Enabled).		
bw_phonebook.enterprise_common_enable	Boolean	1
Description: Enables or disables the IP phone to display the enterprise common directory. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled).		
bw_phonebook.enterprise_common_displayname	String within 99 characters	EnterpriseCommon

Parameters	Permitted Values	Default
		n
Description: Configures the enterprise common directory name displayed on the IP phone. Note: It works only if “bw.xsi.directory.enable” and “bw_phonebook.enterprise_common_enable” are set to 1 (Enabled).		
bw_phonebook.personal_enable	Boolean	1
Description: Enables or disables the IP phone to display the personal directory. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled).		
bw_phonebook.personal_displayname	String within 99 characters	Personal
Description: Configures the personal directory name displayed on the IP phone. Note: It works only if “bw.xsi.directory.enable” and “bw_phonebook.personal_enable” are set to 1 (Enabled).		
bw_phonebook.custom	Boolean	0
Description: Enables or disables the custom directory feature. 0 -Disabled 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled).		
directory.update_time_interval	Integer from 60 to 34560	60
Description: Configures the interval (in minutes) for the IP phone to update the data of the BroadSoft Directory from the BroadSoft server. Note: It works only if “bw.xsi.directory.enable” and “bw.xsi.directory.update.enable” are set to 1 (Enabled).		
bw.xsi.directory.alphabetized_by_lastname.enable	Boolean	0

Parameters	Permitted Values	Default
Description: Specifies the call ID (first name and last name) display method when the phone receives an incoming call, places an outgoing call or is during an active call. 0 -First name Last name 1 -Last name, First name Note: It is not applicable to CP930W-Base, CP920, VP59, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
bw.xsi.directory.update.enable	Boolean	1
Description: Enables or disables the IP phone to automatically download all contacts in the BroadSoft Directory from the server. 0 -Disabled, the IP phone downloads partial contacts from the server (the maximum of contacts available for viewing at one time is determined by the server), and you can manually download the remaining contacts as needed 1 -Enabled Note: It works only if “bw.xsi.directory.enable” is set to 1 (Enabled). It is only applicable to phones (except W53P/W60P/W73P/W76P/W79P/CP930W-Base/W90) running firmware version 83 or later.		
search_in_dialing.bw_directory.enable	Boolean	0
Description: It enables or disables the IP phone to automatically search entries from the BroadSoft directory, and display the results on the pre-dialing/dialing screen. 0 -Disabled 1 -Enabled Note: It is not applicable to W52P and W56P phones.		
search_in_dialing.bw_directory.priority	Integer greater than or equal to 0	5
Description: It configures the search priority of the BroadSoft directory. Note: It is not applicable to W52P and W56P phones.		
directory_setting.bw_directory.enable	Boolean	0
Description: It enables or disables the users to access the BroadSoft directory by pressing the		

Parameters	Permitted Values	Default
Directory/Dir soft key. 0 -Disabled 1 -Enabled Note: It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
directory_setting.bw_directory.priority	Integer greater than or equal to 0	6
Description: It configures the display priority of the BroadSoft directory. Note: It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
bw.xsi.directory.multiple_accounts.enable	Boolean	0
Description: It enables or disables the per-account to obtain BSFT network directory. 0-Disabled, all handsets obtain the network directory of account 1. 1-Enabled Note: It is applicable to CP930W-Base, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		

The following shows an example of BroadSoft Directory configurations in a template file (e.g., %BWMACADDRESS%.cfg):

```

bw.xsi.enable = 1
bw.xsi.directory.enable = 1
bw_phonebook.group_enable = 1
bw_phonebook.group_displayname = %BWGROUP-1%
bw_phonebook.group_common_enable = 1
bw_phonebook.group_common_displayname = GroupCommon
bw_phonebook.enterprise_enable = 1
bw_phonebook.enterprise_displayname = %BWENTERPRISE-1%
bw_phonebook.enterprise_common_enable = 1
bw_phonebook.enterprise_common_displayname = EnterpriseCommon
bw_phonebook.personal_enable = 1
bw_phonebook.personal_displayname = Personal
bw_phonebook.custom = 1

```


2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter values. An example is shown as below:

`bw_phonebook.group_displayname = Group`

`bw_phonebook.enterprise_displayname = Enterprise`

After a successful update, the user can access the BroadSoft Directory by tapping , pressing the **Directory** soft key or pressing **Menu->Directory->Network Directory** via the phone user interface. The following shows an example of a network directory list:



For W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90, you can access the BroadSoft Directory by pressing **OK->Directory->Network Dir** or **Network Directory** on the handset.

You can also configure BroadSoft Directory via the web user interface at the path **Applications->Broadsoft XSI**.

Note

For W90/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/T41S/T41P//T46U/T46S/T46G/T48U/T48S/T48G, suggests that the number of network contacts should not exceed 10000.

BroadSoft Call Log

IP phones support to access the BroadSoft Call Log locally. The BroadSoft Call Log allows users to view and dial the stored numbers in the following lists: Missed Calls, Received Calls, Placed Calls, and All Calls. Each call log entry contains call information such as remote party identification, time and date. It also allows users to delete a call log entry or all call log entries from the BroadSoft Call Log lists.

Note

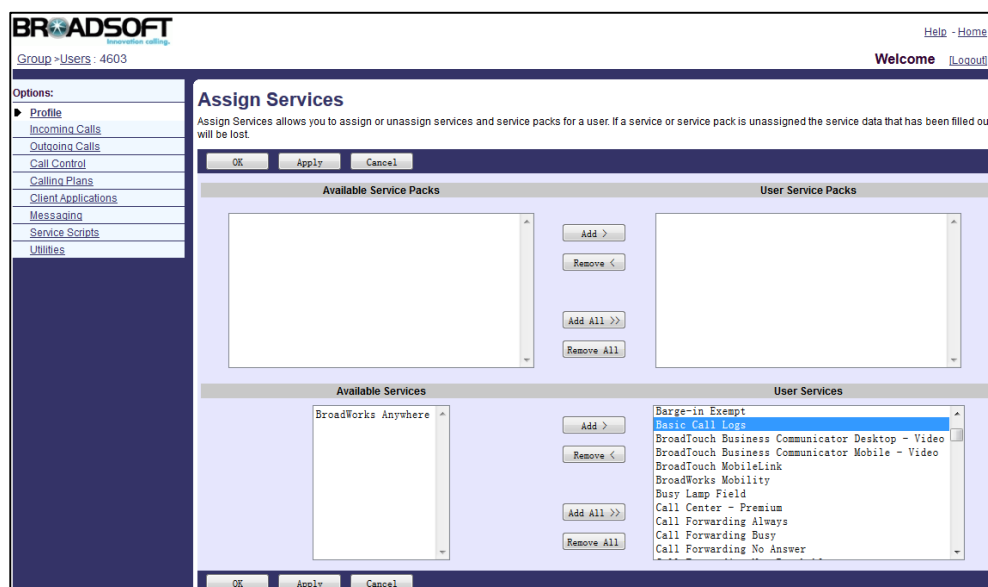
Before configuring BroadSoft Call Log feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the BroadSoft Call Log can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

Configuring the BroadSoft Server

Assigning the Call Log Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Basic Call Logs** and then click **Add>**.



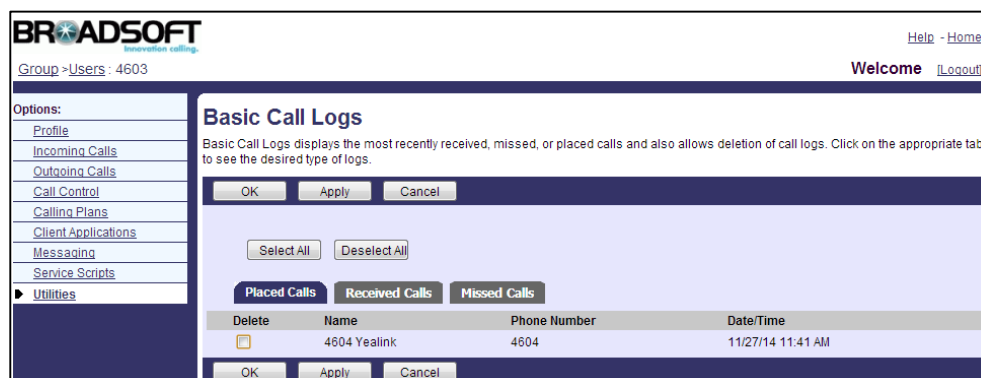
7. Click **Apply** to accept the change.

Viewing the Call Logs

You can view a maximum of 20 of the most recent logs per call type (placed, received, and missed) with Basic Call Log service.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603).

5. Click **Utilities->Basic Call Logs**.

Configuring Yealink IP Phones

Procedure

1. Add/Edit BroadSoft Call Log parameters in configuration template files:

Parameters	Permitted Values	Default
bw.xsi.call_log.enable	Boolean	0
Description: Enables or disables the BroadSoft Call Log feature. 0 -Disabled 1 -Enabled		
bw.calllog_and_dir	Boolean	0
Description: It enables or disables the IP phone to directly enter the Network Calls screen when pressing or tapping the History soft key on the idle screen. 0 -Disabled, the IP phone will enter Local Calls screen when pressing or tapping the History soft key. 1 -Enabled Note: It is not applicable to W53P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
bw.xsi.call_log.delete.enable	Boolean	0
Description: Enables or disables the user to delete the call log entry from BroadSoft Call Log list on the phone. 0 -Disabled		

Parameters	Permitted Values	Default
1 -Enabled, if you delete the BroadSoft call log entry on the phone, the call log entry will be also deleted on the BroadWorks server Note: It works only if “bw.xsi.call_log.enable” is set to 1 (Enabled). It is not applicable to W52P/W53P/W56P/W60P/ W73P/W76P/W79P/CP930W-Base phones/W90.		
bw.xsi.call_log.multiple_accounts.enable	Boolean	0
Description: Enables or disables the user to view BroadSoft Call Log for multiple accounts. 0 -Disabled, you will directly access the BroadSoft Call Log for the first account by default, and you can only view the BroadSoft call log entry for the first account 1 -Enabled, you are allowed to select a specific account to access the BroadSoft Call Log and view the call log entry Note: It works only if “bw.xsi.call_log.enable” is set to 1 (Enabled). It is only applicable to phones (except SIP-T30P/T30/T19(P) E2/CP920/CP960/CP930W-Base) running firmware version 83 or later.		

The following shows an example of the BroadSoft Call Log configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):


```
bw.xsi.call_log.enable = 1
```

```
bw.xsi.call_log.delete.enable = 1
```

```
bw.xsi.call_log.multiple_accounts.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After a successful update, the user can access the BroadSoft call log list by tapping , pressing the **History** soft key or pressing **Menu->History->Network Calls** via the phone user interface.

The following shows an example of line selection:



The following shows an example of a call log list:



For W52P/W53P/W56P/W60P/ W73P/W76P/W79P/W90, you can access the BroadSoft call log by pressing **OK->Directory->Network CallLog** on the handset.

The IP phone connects to load the desired call log list and then displays call log entries of this list on the LCD screen.

You can also configure BroadSoft call log via the web user interface at the path **Applications->Broadsoft XSI**.

Local Call Log

You can back up the local call log of IP phone to BroadWorks. The backup local call log files named <MAC>-callog.xml, are classified by the MAC address of the IP phone.

It is also useful in flexible seating. When a guest user creates an association with a host, the host device can download the guest's local call log after provisioning. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90. For more information on flexible seating, refer to [Flexible Seating](#).

Configuring Yealink IP Phones

You can configure a backup path where the phone can upload and download the call log. The path can be absolute or relative address or null. If it is set to null, the phone will back up the call log to the provisioning server. You can also configure the interval to back up the local call log.

Configure Call Log Backup Feature

Procedure

1. Add/Edit call log backup parameters in the configuration template files:

Parameters	Permitted Values	Default
static.auto_provision.local_callog.backup.enable	Boolean	0

Parameters	Permitted Values	Default
Description: Enables or disables the IP phone to upload the <MAC>-calllog.xml file to the server each time the call logs update, and download the <MAC>-calllog.xml file from the server during auto provisioning. 0 -Disabled 1 -Enabled		
static.auto_provision.local_calllog.backup.path	String	Blank
Description: Configures a path or URL for the IP phone to upload/download the <MAC>-calllog.xml file. If it is left blank, the IP phone will try to upload/download the <MAC>-calllog.xml file to/from the provisioning server. Note: It works only if “auto_provision.local_calllog.backup.enable” is set to 1 (Enabled).		
static.auto_provision.local_calllog.write_delay.terminated	Integer from 10 to 600	60
Description: Configures the delay time (in seconds) for the IP phone to upload the <MAC>-calllog.xml file each time the call logs update.		

The following shows an example of local call log configurations in a template configuration file (e.g., y000000000028.cfg):

```
static.auto_provision.local_calllog.backup.enable = 1
static.auto_provision.local_calllog.backup.path = http://10.2.3.123/log
static.auto_provision.local_calllog.write_delay.terminated = 60
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Call Park

Call Park allows a user to park a call against an extension and then retrieve it on another phone. Group Call Park hunts for the first available user in the call park group and parks the call there. If a parked call is not retrieved after the pre-configured time, the BroadWorks server will alert the designated user depending on the server configurations.

IP phones support Call Park Notification using a SUBSCRIBE/NOTIFY mechanism for communicating to the BroadWorks server when a call is parked against the extension of the IP

phone. The IP phone provides a visual indicator for the parked call and turns off the indicator after the parked call is retrieved. This feature is not applicable to W52P Phones.

Note

Before configuring Call Park feature under XSI mode, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Call Park configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

For more information on Call Park, refer to *BroadWorks Web Interface Administrator Guide*.

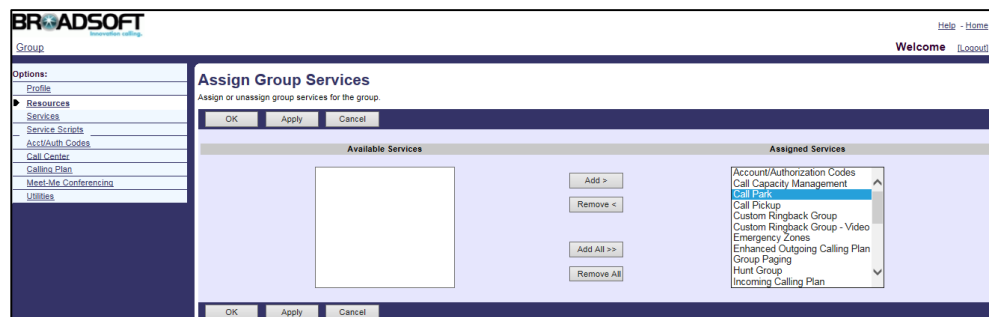
Configuring the BroadSoft Server

Assigning the Call Park Service to the Group

This service allows a user to use the Call Park and Group Call Park feature.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resources->Assign Group Services**.
3. In the **Available Services** box, select **Call Park** and then click **Add>**.



4. Click **Apply** to accept the change.

Configuring the Call Park Feature

You can configure the settings for Call Park, Group Call Park, and all parked calls.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Call Park**.

BROADSOFT
BroadSoft Unified Communications

Group

Options:

- Profile
- Resources
- Services
 - Service Scripts
 - Acct/Auth Codes
 - Call Center
 - Calling Plan
 - Meet-Me Conferencing
 - Utilities

Help - Home

Welcome [Logout](#)

Call Park

Create a new call park group and manage existing call park groups. Defining call park groups allows users in these groups to park calls on that group. Can also configure Call Park settings for your group's users.

OK

Apply

Add

Cancel

Settings for Call Park

Alternate Recall User: HuntGroup1 [Select Alternate Recall User](#)

Recall To: ☒ Alert parking user only
☐ Alert parking user first, then alternate user
☐ Alert alternate user only

Settings for Group Call Park

Display Timer: 5 seconds
☒ Enable Parked Destination Announcement

Settings for All Parked Calls

Ring Pattern for Recalled Calls: Short-Short-Long
Recall Timer: 45 seconds
Alert Alternate Recall User Wait Time: 45 seconds

Group Call Park Name

call park1	Edit
Group	Edit
Test11	Edit

OK

Apply

Add

Cancel

The call park parameters are described below:

Parameter	Description
Settings for Call Park	<p>Determines which user to be alerted if the parked call is not retrieved when the recall timer expires.</p> <p>Alert parking user only: Only alerts the user who parked the call.</p> <p>Alert parking user first, then alternate user: First alerts the user who parked the call, and then alerts the alternate user if the parking user does not answer the recall.</p> <p>Alert alternate user only: Only alerts the alternate user.</p> <p>The setting is initially set to Alert parking user only. You can only change the setting after you assign an alternate recall user.</p>
Settings for Group Call Park	<p>Display Timer: Specifies how long the server waits before automatically releasing the call. It is used to park a call on the call park group.</p> <p>Enable Parked Destination Announcement: Determines whether to notify the parking user of the destination extension against which the call has been parked.</p>
Settings for All Parked Calls	<p>Ring Pattern for Recalled Calls: Specifies the ring tone for the recall calls, which allows users to distinguish between new and recall calls.</p> <p>Recall Timer: Configures the time after which the parked call is recalled.</p> <p>Alert Alternate Recall User Wait Time: Configures the time after which the alternate user (if configured) is called.</p>

3. Make the desired change.
4. Click **Apply** to accept the change.

Creating a Call Park Group

You can define a call park group as a subset of the users in the group. The users can park calls to the users in this call park group.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Call Park**.
3. Click **Add**.
4. Enter the desired group name in the **Group Name** field.

5. Click **Search** to display all available users.
6. In the **Available Users** box, select the desired user and then click **Add>** to assign the user to the call park group.
7. Repeat step 6 to add more users.

8. Click **Apply** to accept the change.

Assigning Alternate Recall Users

You can select a hunt group as the alternate user to recall. Make sure the hunt groups have been created on the BroadWorks server. For more information on how to add a hunt group, refer to [Hunt Group](#).

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Call Park**.
3. Select the desired call park group and then click **Edit**.
4. Click the **Alternate Recall User** tab.
5. Click **Search** to display all available hunt groups.

6. In the **Available Hunt Groups** box, select the desired hunt group and then click **Select>**.

7. Click **Apply** to accept the change.

Configuring Yealink IP Phones

You can configure Call Park feature on the phone using the FAC mode or the XSI mode. If the XSI mode is used, you need to configure the XSI feature on the phone in advance. In the XSI mode, Call Park can be performed via the call park soft key successfully when the IP phone passes the XSI authentication. The FAC mode is designated for the user to park a call using the call park soft key when XSI feature is not configured on the phone. Call park key can be used under the FAC mode and XSI mode.

Note

If the call park code or park retrieve code has been configured for the call park soft key or the retrieve park soft key in the FAC mode, you don't need to configure the call park code or the park retrieve code for the call park key or the retrieve park key.

Configuring Call Park

Procedure

- Add/Edit Call Park mode parameter in the configuration template files to decide the Call Park mode:

Parameters	Permitted Values	Default
features.call_park.park_mode	Boolean	0
Description: Configures the call park mode. 0-XSI 1-FAC		

Parameters	Permitted Values	Default
features.call_park.enable	Boolean	0
Description: Enables or disables the IP phone to display the Park soft key during a call. 0 -Disabled 1 -Enabled Note: If it is set to 1 (Enabled), the Retrieve soft key will also be displayed on the dialing screen.		
features.call_park.group_enable	Boolean	0
Description: Enables or disables the IP phone to display the GPark soft key during a call. 0 -Disabled 1 -Enabled Note: If it is set to 1 (Enabled), the Retrieve soft key will also be displayed on the dialing screen.		
features.call_park.park_visual_notify_enable	Boolean	0
Description: Enables or disables the IP phone to display a visible notification when a call is parked against its line. 0 -Disabled 1 -Enabled Note: It works only if the value of parameter “account.X.sip_server_type” is set to 2 (BroadSoft).		
features.call_park.park_ring	Boolean	0
Description: Enables or disables an audio notification when a call is parked against its line. 0 -Disabled 1 -Enabled Note: It works only if “account.X.sip_server_type” is set to 2 (BroadSoft) and the value of the parameter “features.call_park.park_visual_notify_enable” is set to 1 (Enabled).		
features.call_park.park_code	String within 32 characters	Blank

Parameters	Permitted Values	Default
Description: Configures the call park code for the Park soft key. This call park code will also apply to the call park key. Note: It works only if “features.call_park.park_mode” is set to 1 (FAC).		
features.call_park.group_park_code	String within 32 characters	Blank
Description: Configures the group call park code for the GPark soft key. This group call park code will also apply to the group call park key. Note: It works only if “features.call_park.park_mode” is set to 1 (FAC).		
features.call_park.park_retrieve_code	String within 32 characters	Blank
Description: Configures the retrieve park code for the Retrieve soft key. This park retrieve code will also apply to the park retrieve key. Note: It works only if “features.call_park.park_mode” is set to 1 (FAC).		
features.call_park.direct_send.enable	Boolean	1
Description: Enables or disables the IP phone to dial out the call park code/park retrieve code directly when pressing the Park/Retrieve soft key. 0 -Disabled 1 -Enabled If it is set to 0 (Disabled), the IP phone will enter the pre-dialing screen when pressing the Park/Retrieve soft key. And you can dial the specific extension manually or press the BLF/BLF List key to park the call to the specific user or retrieve the call parked from the specific user. Note: It works only if “features.call_park.park_mode” is set to 1 (FAC) and you have configured the call park code/park retrieve code. It is not applicable to VP59/CP920/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		

The following shows an example of call park configurations using the XSI mode in a T46G template configuration file (e.g., %BWMACADDRESS%.cfg):

```
features.call_park.park_mode = 0
```

```
features.call_park.enable = 1
```

```
features.call_park.group_enable = 1
```

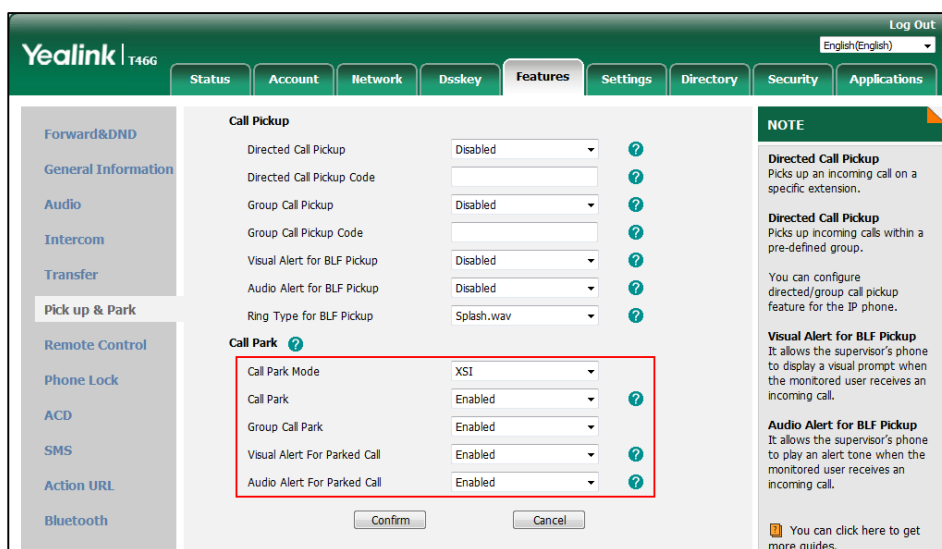
```
features.call_park.park_visual_notify_enable = 1
```

```
features.call_park.park_ring = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After successful update, user can find the web user interface of the IP phone is similar to the one shown as below:



The following shows an example of call park configurations using the FAC mode in a T46G template configuration file (e.g., %BWMACADDRESS%.cfg):

```
features.call_park.park_mode = 1
```

```
features.call_park.enable = 1
```

```
features.call_park.park_code= *68
```

```
features.call_park.group_enable = 1
```

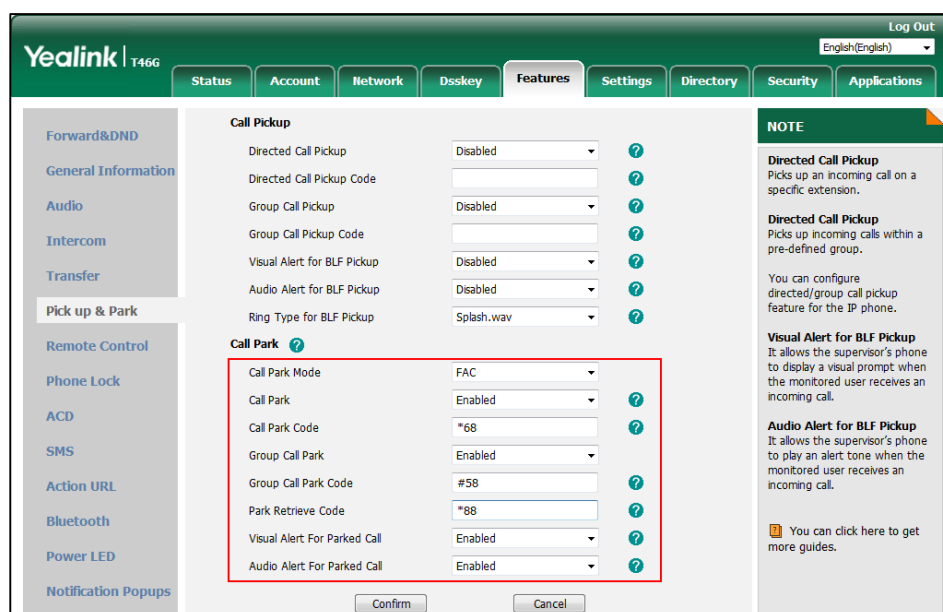
```
features.call_park.group_park_code= #58
```

```
features.call_park.park_retrieve_code = *88
```

```
features.call_park.park_visual_notify_enable = 1
```

```
features.call_park.park_ring = 1
```

Upload template boot and configuration files to BroadWorks. After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



User can park a call using the **Park** soft key or the call park key (refer to [Line Keys and Programmable Keys](#)) and retrieve the parked call using the **Retrieve** soft key or the retrieve park key (refer to [Line Keys and Programmable Keys](#)). When a call is parked against the extension of the IP phone and the visual alert is enabled, the IP phone LCD screen is similar to the one shown below:



Call park is also configurable via the web user interface at the path **Features->Pick up & Park**.

Group Paging

Group Paging allows authorized users (originators) to broadcast one-way audio announcements to a group of users (targets) by dialing a paging group number or extension. Group paging originator is the subscriber who may originate pages for this paging group. Group paging target is the subscriber whom the pages from this group will be sent to. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

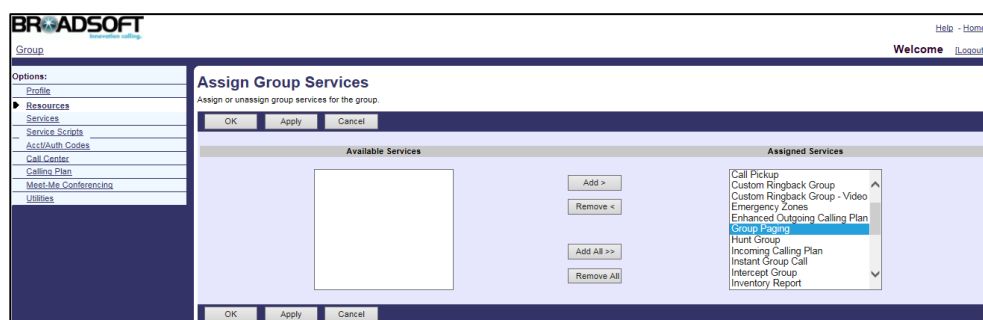
Configuring the BroadSoft Server

Assigning the Group Paging Service to the Group

This is a virtual user service that allows for unidirectional paging to a group of users.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resource->Assign Group Services**.
3. In the **Available Services** box, select **Group Paging** and then click **Add>**.



4. Click **Apply** to accept the change.

Creating a Paging Group

Paging groups are virtual users and must have the Group Paging service assigned. You need to configure basic information (such as name), phone number and/or extension when creating a group paging group.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Group Paging**.
3. Click **Add**.
4. Set the parameters of a paging group.

The following shows an example:

Paging Group ID:	Group1
Name:	Paging
Calling Line ID Last Name:	Group

Calling Line ID First Name: Paging

5. Click **OK** to accept the change.
6. Select the paging group added above and then click **Edit**.
7. Click **Addresses**.
8. Select the phone number from the drop-down menu of **Phone Number**.
9. Enter the extension in the **Extension** field.

10. Click **Apply** to accept the change.

Assigning Originator and Targets for the Paging Group

You can assign any user within a group or enterprise to be an originator/target in a paging group. Only the originators are allowed to use the phone number assigned to the paging group. When an originator dials the paging group phone number, all the targets are paged.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Group Paging**.
3. Select the paging group added above and then click **Edit**.
4. Click **Originators/Targets**.
5. Click **Search** to display all available users.

6. In the **Available Originators/Available Targets** box, select the desired user and then click **Add>**.

The first screenshot shows the 'Paging Group Originators' configuration screen. It has a search bar with 'User ID' and 'Starts With' dropdowns. Below the search bar is a list of available originators: 111qq, 111qq (335566), 12341, 12341 (12341), 21.43 (4321), 22.43 (4322), 26.26 (4358), 40004980, 40004980 (40004980), 40004981, 40004981 (40004981), 4011, 4011 (4011), 4200, 4200 (4200), 4301Value, 123 (4301), 4302, 4302 (4302). To the right of this list are buttons: 'Add >', 'Remove <', 'Add All >>', and 'Remove All'. On the far right, under 'Assigned Originators', there is a list containing 'Yoslink, 4609 (4609)' and buttons 'Add >' and 'Remove <'.

The second screenshot shows the 'Paging Group Targets' configuration screen. It has the same search bar and list of available targets as the first screen. The buttons are the same. On the far right, under 'Assigned Targets', there is a list containing 'Yoslink, 4607 (4607)' and 'Yoslink, 4609 (4609)', with buttons 'Add >' and 'Remove <'.

7. Click **Apply** to accept the change.

For more information on Group Paging, refer to *BroadWorks Web Interface Administrator Guide*.

Instant Group Call

Instant Group Call allows you to define a group of user to be alerted simultaneously when a call is made to the group. These members can be part of the same group or external users. Users can instantly call a pre-defined group of users for an ad hoc conference call by dialing a phone number or an extension. The originators can be part of the same group or external users. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

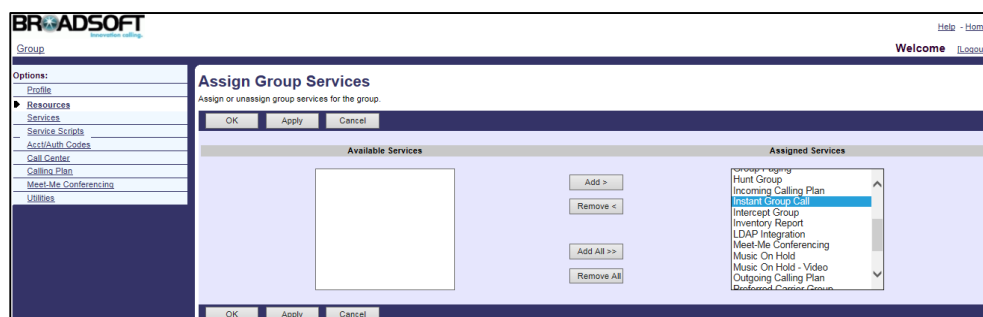
Configuring the BroadSoft Server

Assigning the Instant Group Call Service to the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resource->Assign Group Services**.

3. In the **Available Services** box, select **Instant Group Call** and then click **Add>**.



4. Click **Apply** to accept the change.

Adding an Instant Group Call

You need to configure basic information (such as name), instant group phone number and/or extension when creating an instant group call.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Instant Group Call**.
3. Click **Add**.
4. Set the parameters of the instant group.

The following shows an example:

Instant Group Call ID: Instantgroup1
 Name: Instant Group
 Calling Line ID Last Name: Group
 Calling Line ID First Name: Instant
 Instant Group Call User List: 4607
 4608
 4609

5. Click **OK** to accept the change.
6. Select the instant group call added above and then click **Edit**.
7. Click **Addresses**.
8. Select the phone number from the drop-down menu of **Phone Number**.
9. Enter the extension in the **Extension** field.

10. Click **Apply** to accept the change.

For more information on Instant Group Call, refer to BroadWorks Web Interface Administrator Guide.

Hunt Group

Hunt Group allows incoming calls to a central phone number to be distributed among a group of users according to a hunting policy. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

Configuring the BroadSoft Server

Assigning the Hunt Group Service to the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resources->Assign Group Services**.
3. In the **Available Services** box, select **Hunt Group** and then click **Add>**.

4. Click **Apply** to accept the change.

Creating a Hunt Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Hunt Group**.
3. Click **Add**.
4. Set the parameters of a hunt group:

The following shows an example:

Hunt Group ID:	HuntGroup1
Name:	Hunt Group
Calling Line ID Last Name:	Group
Calling Line ID First Name:	Hunt

5. Mark the desired radio box in the **Group Policy** field.
 - **Circular**: Sends incoming calls to users according to their position in a list. After a call has been sent to the last user in the list, the next call is sent to the user at the top of the list.
 - **Regular**: Sends incoming calls to the next available user in the hunt group.
 - **Simultaneous**: Sends incoming calls to all users at the same time. The call is connected to the user who answers the call first.
 - **Uniform**: Sends an incoming call to the user who has been idle for the longest time. The user who has answered a call will be moved to the bottom of the call queue.
 - **Weighted Call Distribution**: Sends incoming calls randomly to users according to their relative weight. Users with a higher weight are assigned more incoming calls than users with lower weights.
6. Click **Search** to display all available users.

7. In the **Available Users** box, select the desired user and then click **Add>** to assign it to the hunt group.

BROADSOFT

Group

Options: Profile, Resources, Services, Service Scripts, AccountAuth Codes, Call Center, Calling Plan, Hunt-Ma, Conference, Utilities

Hunt Group Add
Create a new hunt group.

OK Cancel

* Hunt Group ID: HuntGroup1 @ pbx.yealink.com

* Name: Hunt Group

* Calling Line ID Last Name: Group * Calling Line ID First Name: Hunt

Department: None Language: English

Time Zone: (GMT+08:00) Asia/Shanghai

☐ Allow Call Waiting on agents

Group Policy: ☐ Circular ☒ Regular ☐ Simultaneous ☐ Uniform ☐ Weighted Call Distribution

No Answer Settings

☐ Skip to next agent after: 5 Rings

☐ Forward call after waiting: 0 seconds

Calls Forward to:

Not Reachable Settings

☐ Enable Call Forwarding Not Reachable

Calls Forward to:

☐ Make Hunt Group busy when all available agents are not reachable

Calling Line ID Settings

☒ Use the system default CLID configuration (currently including the Hunt Group Name in the CLID)

☐ Customize the CLID for this Hunt Group

☒ Include the Hunt Group Name in the CLID

Enter search criteria below

User ID Starts With Search

Available Users

Assigned Users

111111, 111111, 111111 (3325566)

12341, 12341 (12341)

21.43 (4321)

22.43 (4322)

26.26 (4356)

40004980, 40004980 (40004980)

40004981, 40004981 (40004981)

4011, 4011 (4011)

4200, 4200 (4200)

4301Value, 123 (4301)

4302, 4302 (4302)

Add >

Remove <

Add All >>

Remove All

Yealink.4602 (4602)

Yealink.4603 (4603)

Yealink.4604 (4604)

Yealink.4605 (4605)

Yealink.4606 (4606)

Yealink.4607 (4607)

Yealink.4608 (4608)

Yealink.4609 (4609)

Move Up Move Down

OK Cancel

8. Click **OK** to accept the change.
9. Select the hunt group added above and then click **Edit**.
10. Click **Addresses**.
11. Select the phone number from the drop-down menu of **Phone Number**.
12. Enter the extension in the **Extension** field.

BROADSOFT

Group > Hunt Groups > HuntGroup1

Options: Profile, Calling Plans

Hunt Group Addresses
Addresses allows you to view and maintain your phone number and other identities that are used to make and receive calls.

OK Apply Cancel

Phone Number: 4602 Activated

Extension: 4602

Aliases: sip: @ pbx.yealink.com

sip: @ pbx.yealink.com

sip: @ pbx.yealink.com

OK Apply Cancel

13. Click **Apply** to accept the change.

Configuring Weighted Call Distribution

Agents with a higher weight are assigned more incoming calls than agents with lower weights.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Hunt Group**.

3. Select the hunt group added above and then click **Edit**.
4. Click **Profile->Weighted Call Distribution**. This link appears only if you enabled the weighted call distribution policy for this hunt group.
5. Enter the desired percentage values in the corresponding fields.

BROADSOFT

Group: Hunt Groups - HuntGroup1

Options: Profile, Call Plan

Weighted Call Distribution

Configure assigned users' weighted call distribution allocation. With weighted call distribution, any incoming calls to the Hunt Group are dispatched to the agents randomly according to specified percentage weight of each agent.

OK Apply Cancel

* Yealink 4602 (4602)	12	%
* Yealink 4603 (4603)	12	%
* Yealink 4604 (4604)	12	%
* Yealink 4605 (4605)	12	%
* Yealink 4606 (4606)	12	%
* Yealink 4607 (4607)	12	%
* Yealink 4608 (4608)	12	%
* Yealink 4609 (4609)	16	%
		=====
		100%

OK Apply Cancel

6. Click **Apply** to accept the change.

For more information on Hunt Group, refer to *BroadWorks Web Interface Administrator Guide*.

CommPilot Call Manager

CommPilot Call Manager allows users to use a web-based tool for service invocation and call control. It provides users with a visual, graphical user interface to initiate, manipulate, and release calls. It also provides the following functions:

- Navigation, support, help – Useful links include support (to send an e-mail to the applicable support service), help (to display a context-sensitive help web page), and configure (to jump to the CommPilot Personal web portal).
- User information – Presents the name, phone number, and extension of the user of the CommPilot Call Manager.
- Service link area – Provides status and configuration for commonly used services.
- Call display – Presents the user with information on active calls and allows the user to select calls with the mouse.
- Directories – Provides access to the user directories, including the group and the personal.
- Call History – Provides access to the user call log.
- Settings – Allows the user to configure the CommPilot Call Manager.

This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

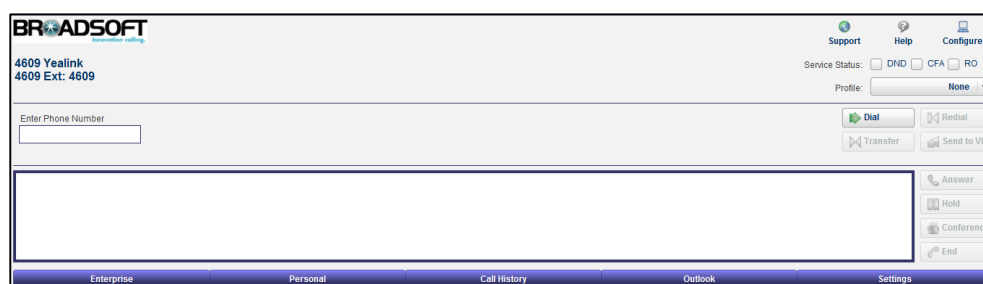
Configuring the BroadSoft Server

Logging into the Call Manager

Procedure

1. Log in to the web portal with the user credential.
2. Select the **Call Manager/Attendant Console** from the drop-down menu on the upper right corner.

The CommPilot Call Manager is shown as below:



Note

Before logging into the call manager, check whether the version of web browser and flash player installed on your computer is proper. For more information, contact your BroadSoft reseller.

Initiating, Manipulating and Releasing a Call via the Call Manager

Procedure

1. Enter the phone number in the **Enter Phone Number** field.
2. Click **Dial** to make a call.

The caller's IP phone is alerted first. After the caller answers the incoming call on his IP phone, the callee's IP phone is alerted. After the callee answers the incoming call on his phone, the two-way voice is established between two parties.

3. Click **Hold** to place the active call on hold.
4. Click **Answer** to retrieve the held call.
5. Click **End** to release the call.

For more information on CommPilot Call Manager, refer to *BroadWorks Web Interface Administrator Guide*.

Authentication

Authentication provides authentication of sessions for SIP IP phones to prevent unauthorized access to the system. Authentication is performed on registrations (SIP REGISTERs), redirections (SIP REFERs) as well as incoming calls (SIP INVITEs). Standard MD5 digest authentication is used. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

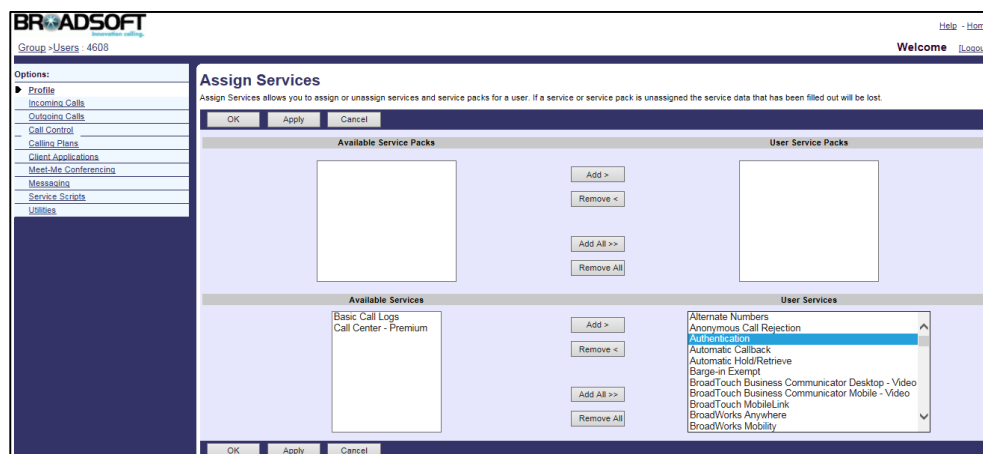
For more information on authentication, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Authentication Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4608).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Authentication** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring the User ID and Password for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.

3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4608), who has been assigned the authentication service.
5. Click **Utilities->Authentication**.
6. Enter the user ID in the **Authentication User Name** field.
7. Enter the password in the **Type new authentication password** and **Re-type new authentication password** fields.

The screenshot shows the BroadSoft web interface. On the left is a navigation menu with options like Profile, Incoming Calls, Outgoing Calls, Call Control, Calling Plans, Client Applications, MeetMe Conferencing, Messaging, Service Scripts, and Utilities. The main content area is titled 'Authentication' and includes a sub-header explaining that authentication allows for encryption to safely determine the user. Below this, there are three input fields: 'Authentication User Name' (containing '4608'), 'Type new authentication password' (masked with dots), and 'Re-type new authentication password' (also masked). At the bottom of the form are 'OK', 'Apply', and 'Cancel' buttons.

8. Click **Apply** to accept the change.

Authorization/Account Codes

Authorization/Account Codes allow users to use authorization and account codes for outgoing calls. Authorization code allows authorization of calls made outside the group by prompting users for an authorization code. Calls are not connected unless a valid code is entered. Account code allows tracking of calls made outside the group by prompting users for an account code. Account codes have a fixed length, as configured by the group administrator. When prompted for an account code, the user is informed of the digits to enter, which match the length of the account codes. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

For more information on Authorization/Account Codes, refer to *BroadWorks Web Interface Administrator Guide*.

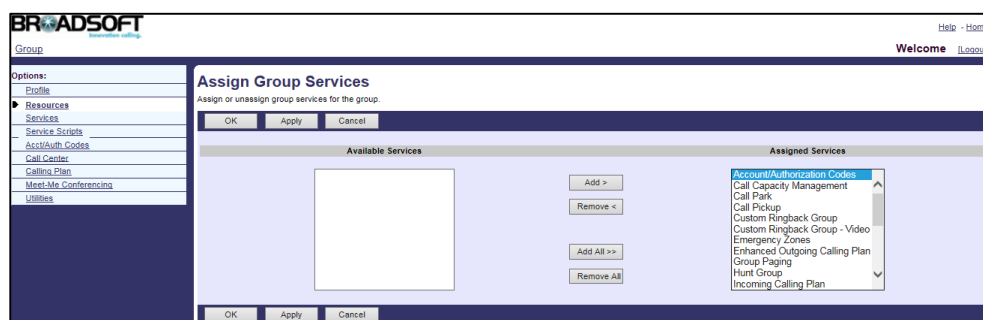
Configuring the BroadSoft Server

Assigning the Account/Authorization Codes Service to the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resources->Assign Group Services**.

3. In the **Available Services** box, select **Account/Authorization Codes** and then click **Add>**.



4. Click **Apply** to accept the change.

Configuring the Type of Code for the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Acct/Auth Codes->Administration**.
3. Set the parameters of account/authorization codes.

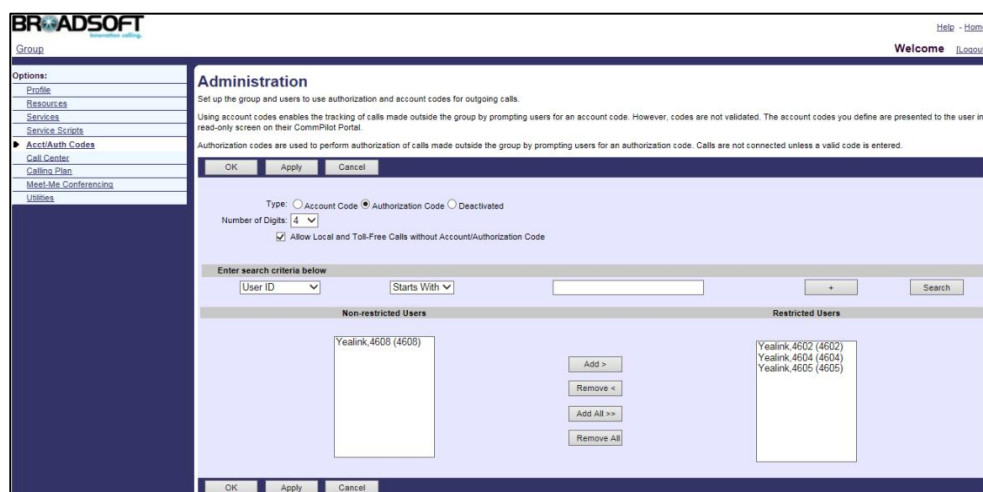
The following shows an example:

Type: Authorization Code

Number of Digits: 4

Allow Local and Toll-Free Calls without Account/Authorization Code: Selected

Restricted Users: 4602@pbx.yealink.com
4604@pbx.yealink.com
4605@pbx.yealink.com



4. Click **Apply** to accept the change.

Configuring the Authentication Codes

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Acct/Auth Codes->Codes Management**.
3. Click **Add** to add the authentication codes.
4. Enter the configured number of digits in the **Account/Authentication Code** field.
5. Enter the desired description in the **Description** field.

The screenshot shows the BroadSoft web portal interface. On the left is a navigation menu with options like Profile, Resources, Services, Service Scripts, Acct/Auth Codes (selected), Call Center, Callers Page, Meet-Me Conferencing, and Utilities. The main content area is titled 'Codes Management Add' and contains the text 'Add new account or authorization codes.' Below this are two input fields: 'Account/Authorization Code' containing '1111' and 'Description' containing 'code1'. At the bottom of the form are 'OK' and 'Cancel' buttons.

6. Click **OK** to accept the change.

Call Waiting

Call Waiting allows users to receive another call while already engaged in a call. Call Waiting Tone enables the IP phone to play a short tone when receiving another incoming call during a call. Call Waiting Tone works only if call waiting is enabled.

Note

Before configuring Call Waiting feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the call waiting can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

For more information on Call Waiting, refer to *BroadWorks Web Interface Administrator Guide*.

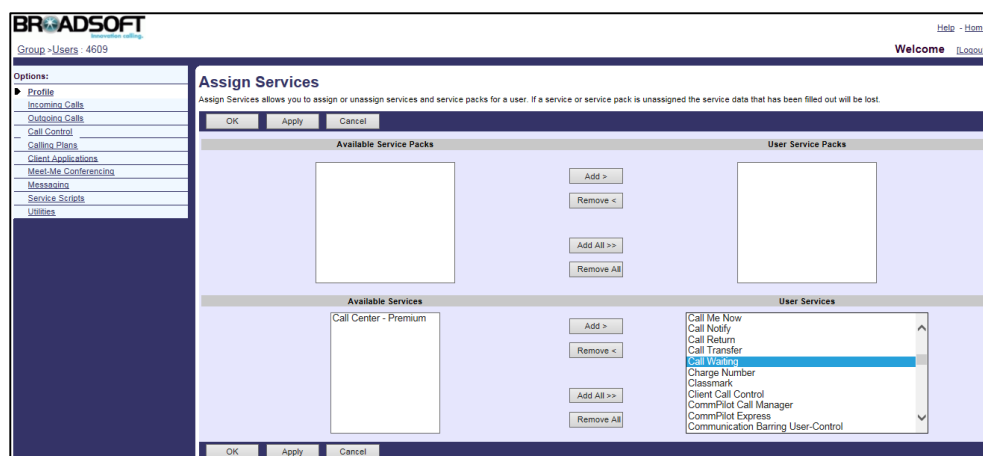
Configuring the BroadSoft Server

Assigning the Call Waiting Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.

4. Select the desired user (e.g., 4609).
5. In the **Available Services** box, select **Call Waiting** and then click **Add>**.

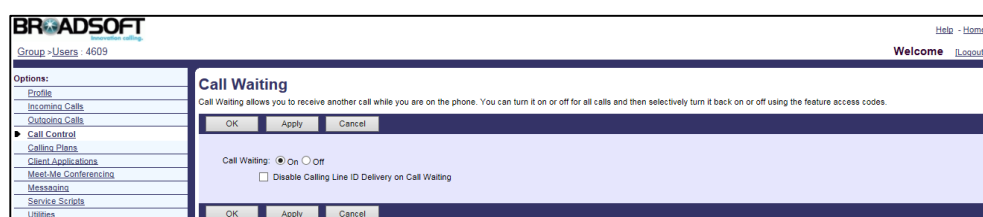


6. Click **Apply** to accept the change.

Activating Call Waiting for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the call waiting service.
5. Click **Call Control->Call Waiting**.
6. Mark the **On** radio box in the **Call Waiting** field.



7. Click **Apply** to accept the change.

Configuring Yealink IP Phones

Procedure

1. Add/Edit Call Waiting parameters in the configuration template files:

Parameters	Permitted Values	Default
call_waiting.mode	Boolean	0
Description: Configures the call waiting mode. 0 -Local 1 -XSI If it is set to 1 (XSI), the call waiting status will be synchronized between the IP phone and the BroadWorks server.		
call_waiting.enable	%CALL_WAITING_BINARY%	1
Description: Enables or disables call waiting. 0 -Disabled 1 -Enabled Note: It works only if "call_waiting.mode" is set to 0 (Local).		
call_waiting.tone	Boolean	1
Description: Enables or disables call waiting tone. 0 -Disabled 1 -Enabled		

The following shows an example of call waiting configurations in a template configuration file (e.g., y000000000028.cfg):

```
call_waiting.mode = 0
```

```
call_waiting.enable = %CALL_WAITING_BINARY%
```

```
call_waiting.tone = 1
```

2. Customize the static tag on BroadWorks. The tag name is %CALL_WAITING_BINARY% and the tag value is 1.

For more information, refer to [Customizing a Static Tag](#).

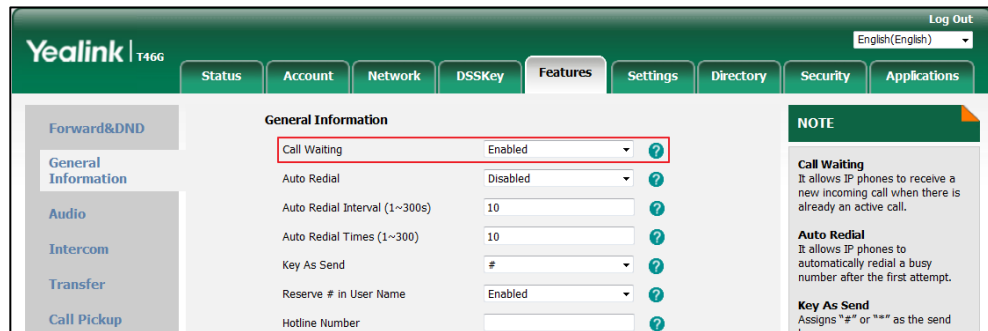
3. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tag in the template file will be replaced by the actual parameter value. An example is shown as below:

`call_waiting.enable = 1`

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



Diversion Inhibitor

Diversion Inhibitor prevents calls from being redirected by the callee. When receiving the INVITE message sent by BroadWorks with “diversion-inhibited” in the diversion or history-info header, the callee is forbidden to forward the call even if call forward is enabled on the callee’s phone. The user can activate diversion inhibitor by dialing the feature access code (FAC) as a dial prefix when making a call.

The following services can be inhibited with the Diversion Inhibitor feature access code:

- Call Forwarding Always, Busy, No Answer, and Selective
- Voice Mail (BroadWorks and external)
- Simultaneous Ringing (Personal)
- Sequential Ringing

The following redirection services cannot be inhibited:

- Remote Office
- Hunt Group
- Call Center
- Call Pickup (all variations)

This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

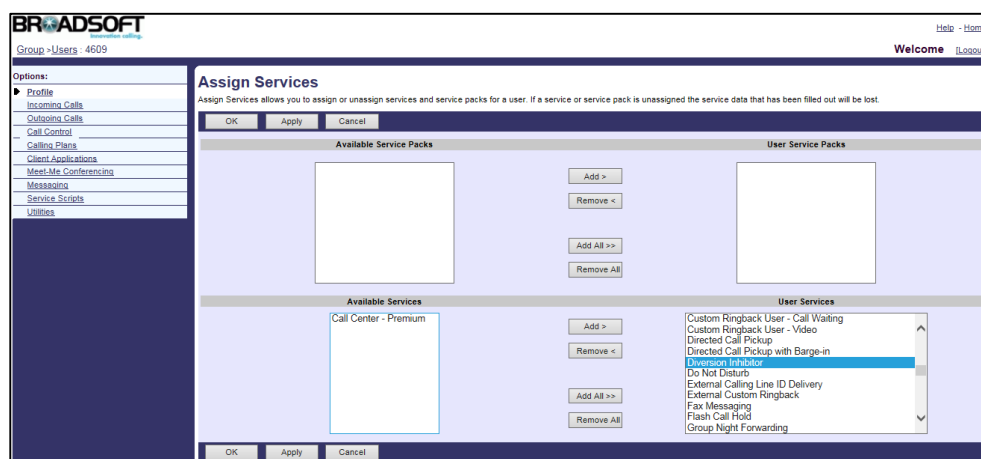
For more information on Diversion Inhibitor, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Diversion Inhibitor Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Diversion Inhibitor** and then click **Add>**.



7. Click **Apply** to accept the change.

Checking the Diversion Inhibitor FAC

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Utilities->Feature Access Codes**.
3. Check the **Diversion Inhibitor FAC**.

The administrator can modify the code in the **Main (Required)** field or enter an alternate code in the **Alternate (Optional)** field.

Do Not Disturb

Do Not Disturb (DND) allows all incoming calls to be rejected automatically. The BroadWorks server provides an option to play a ring splash reminder on the IP phone when the incoming call is rejected.

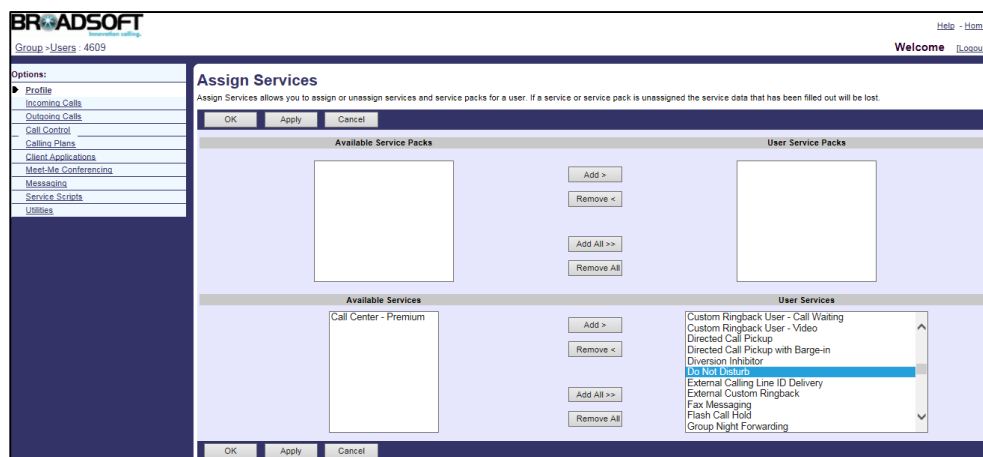
For more information on DND, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the DND Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Do Not Disturb** and then click **Add>**.



7. Click **Apply** to accept the change.

Activating DND for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the DND service.
5. Click **Incoming Calls->Do Not Disturb**.
6. Mark the **On** radio box in the **Do Not Disturb** field.

7. Select the **Play Ring Reminder when a call is blocked** check box.

8. Click **Apply** to accept the change.

Configuring Yealink IP Phones

You can enable or disable the DND feature. If the DND feature is enabled, the user can directly press the **DND** soft key or the DND key (refer to [Line Keys and Programmable Keys](#)) to activate or deactivate DND on the Idle screen. There are two DND modes: Phone (default) and Custom. A user can activate or deactivate DND feature on the IP phone using the **DND** soft key or a DND key.

Procedure

1. Add/Edit DND parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for W52P/W56P, X=1-5; W53P/W60P/CP930W-Base, X=1-8; W73P/W76P/W79P, X=1-10; W90: X=1-2500; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

If the user (e.g., 4609) is the second user assigned to the device profile, replace “X” by “2”.

Parameters	Permitted Values	Default
features.dnd.allow	Boolean	1
Description: Enables or disables the DND feature. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/SIP-T58A/CP960, W52P, and W56P IP phones.		
features.dnd.feature_key_sync.enable	Boolean	1
Description: It enables or disables the DND feature synchronization.		

Parameters	Permitted Values	Default
<p>0-Disabled</p> <p>1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized. If it is set to 1 (Enabled), a user changes the DND status on BroadWorks, the BroadWorks server notifies the phone of synchronizing the status. Conversely, if the user changes DND status on the phone, the IP phone notifies the BroadWorks server of synchronizing the status.</p> <p>Note: It works only if “features.feature_key_sync.enable” is set to 1 (Enabled). It is not applicable to CP920, W52P, W53P, W56P, W60P, W73P, W76P, W79P, CP930W-Base phones, and W90.</p>		
account.X.dnd.feature_key_sync.enable	Boolean	Blank
<p>Description:</p> <p>It enables or disables the DND feature synchronization for account X.</p> <p>0-Disabled</p> <p>1-Enabled, server-based DND is enabled. Server and local phone DND are synchronized.</p> <p>Note: The value configured by this parameter takes precedence over that configured by the parameter “features.dnd.feature_key_sync.enable”. It works only if “account.X.feature_key_sync.enable” is set to 1 (Enabled). It is not applicable to VP59/T29G/T41P/T42G/T46G/T48G/T58A/W53P/W60P/W73P/W76P/W79P/CP920/CP960/CP930W-Base phones/W90.</p>		
features.dnd.feature_key_sync.local_processing.enable	Boolean	0
<p>Description:</p> <p>Enables or disables the local DND when DND is activated on the BroadWorks server.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>Note: It works only if “features.feature_key_sync.enable” and “features.dnd.feature_key_sync.enable” are set to 1 (Enabled). This feature configured on a per-line basis takes precedence over that configured on a phone basis. It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		
features.dnd_mode	Integer	0
<p>Description:</p> <p>Configures the mode for the IP phone to handle DND.</p> <p>0-Phone, DND is effective for the phone system</p> <p>1-Custom, DND can be configured for each or all accounts</p> <p>Note: It works only if “features.dnd.allow” is set to 1 (Enabled). It is not applicable to SIP-T30P/T30T19(P) E2/CP960/W52P/W53P/W56P/W60P/</p>		

Parameters	Permitted Values	Default
W73P/W76P/W79P/CP930W-Base/W90.		
features.dnd.enable	Boolean	0
Description: Triggers the DND feature to on or off. 0-Off 1-On Note: It works only if “features.dnd.allow” is set to 1 (Enabled) and the value of the parameter “features.dnd_mode” is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
account.X.dnd.enable	%BWDND-BINARY-X %	0
Description: Triggers the DND feature to on or off for account X. 0-Disabled 1-Enabled Note: It works only if “features.dnd.allow” is set to 1 (Enabled) and the value of the parameter “features.dnd_mode” is set to 1 (Custom). It is not applicable to CP960 and CP920 IP phones.		
account.X.features.dnd.feature_key_sync.local_processing.enable	Boolean	Blank
Description: Enables or disables the local DND when DND is activated on the BroadWorks server for account X. 0-Disabled 1-Enabled Note: It works only if “features.feature_key_sync.enable” and “features.dnd.feature_key_sync.enable” are set to 1 (Enabled). It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
features.dnd.large_icon.enable	Boolean	0
Description: Enables or disables the IP phone to display a large DND icon on the idle screen. 0-Disabled 1-Enabled		

Parameters	Permitted Values	Default
Note: It works only if “features.dnd.allow” is set to 1 (Enabled). It is not applicable to VP59, SIP-T58A, CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		

The following shows an example of DND configurations for account 2 in a template configuration file (e.g., y000000000028.cfg):

```
features.dnd_mode = 1
```

```
account.2.dnd.enable = %BWDND-BINARY-2%
```

2. Upload template boot and configuration files.

After the above configurations, the tags in the template file will be replaced by the actual parameter values. An example is shown as below:

```
account.2.dnd.enable = 1
```

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:

The screenshot displays the Yealink T46G web interface. The 'Features' tab is selected, and the 'Forward' sub-tab is active. The interface is divided into a left sidebar with navigation links (General Information, Audio, Intercom, Transfer, Call Pickup, Remote Control, Phone Lock, ACD, SMS, Action URL, Bluetooth, Power LED, Notification Popups) and a main content area. The 'Forward' section contains several configuration fields: 'Forward Emergency' (Disabled), 'Forward Authorized Numbers' (empty), 'Mode' (Radio buttons: Phone, Custom), 'Account' (Dropdown: 4603), 'Always Forward' (Radio buttons: On, Off), 'Target' (4609), 'Busy Forward' (Radio buttons: On, Off), 'Target' (4607), 'No Answer Forward' (Radio buttons: On, Off), 'After Ring Time(0~120s)' (12), and 'Target' (4607). Below these is the 'DND' section with 'DND Emergency' (Disabled), 'DND Authorized Numbers' (empty), 'Mode' (Radio buttons: Phone, Custom), 'Account' (Dropdown: 4603), and 'DND Status' (Radio buttons: On, Off). A red rectangular box highlights the 'DND' section. At the bottom are 'Confirm' and 'Cancel' buttons. On the right, a 'NOTE' sidebar provides information about 'Call Forward' and 'Do Not Disturb (DND)' features.

Call Forward

Call Forward allows users to redirect incoming calls to another destination. When an incoming call is forwarded, the BroadWorks server sends the INVITE request containing the Diversion or History-info header to the destination party. The following describes three call forward behaviors:

- **Call Forwarding Always:** Incoming calls are immediately forwarded.
- **Call Forwarding Busy:** Incoming calls are immediately forwarded if the IP phone is busy.
- **Call Forwarding No Answer:** Incoming calls are forwarded if not answered after a period of time.

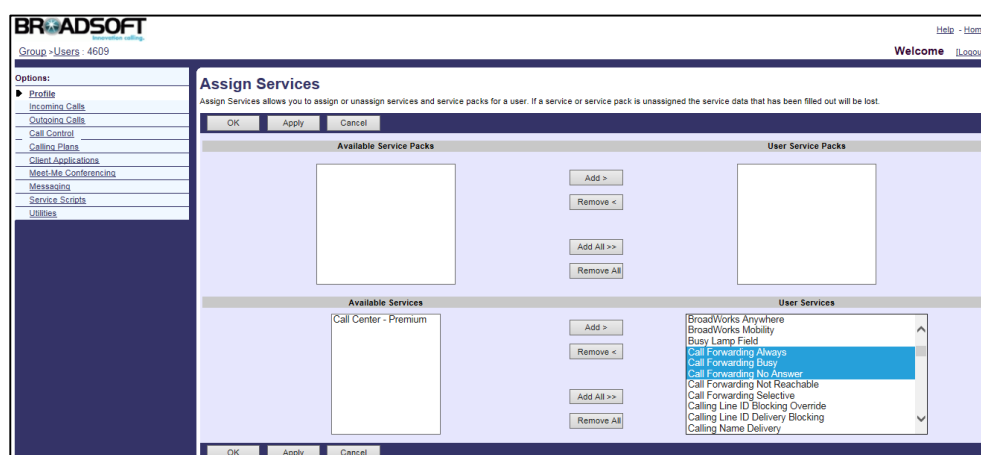
For more information on Call Forward, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Call Forward Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Call Forwarding Always**, **Call Forwarding Busy** and **Call forwarding No Answer** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring Call Forwarding Always for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the call forward service.
5. Click **Incoming Calls->Call Forwarding Always**.
6. Mark the **On** radio box in the **Call Forwarding Always** field.
7. Enter the destination number or SIP-URI in the **Calls Forward to phone number / SIP-URI** field.

8. Select the **Play Ring Reminder when a call is forwarded** check box.

9. Click **Apply** to accept the change.

Configuring Call Forwarding Busy for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the call forward service.
5. Click **Incoming Calls->Call Forwarding Busy**.
6. Mark the **On** radio box in the **Call Forwarding Busy** field.
7. Enter the destination number or SIP-URI in the **Calls Forward to phone number / SIP-URI** field.

8. Click **Apply** to accept the change.

Configuring Call Forwarding No Answer for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4609), who has been assigned the call forward service.
5. Click **Incoming Calls->Call Forwarding No Answer**.
6. Mark the **On** radio box in the **Call Forwarding No Answer** field.

7. Enter the destination number or SIP-URI in the **Calls Forward to phone number / SIP-URI** field.
8. Select the desired value from the drop-down menu of **Number of rings before forwarding**.

9. Click **Apply** to accept the change.

Configuring Yealink IP Phones

You can enable or disable the Call Forward feature. If the Call Forward feature is enabled, a user will be allowed to activate and deactivate the Call Forward feature. You can also configure a Forward key (refer to [Line Keys and Programmable Keys](#)).

There are two call forward modes: Phone (default) and Custom.

Procedure

1. Add/Edit Call Forward parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for W52P/W56P, X=1-5; W53P/W60P/CP930W-Base, X=1-8; W73P/W76P/W79P, X=1-10; W90: X=1-2500; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

If the user (e.g., 4609) is the second user assigned to the device profile, replace “X” by “2”.

Parameters	Permitted Values	Default
features.fwd.allow	Boolean	1
Description: Enables or disables the call forward feature. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/T58A/CP960/W52P/W56P IP phones.		
features.forward.feature_key_sync.enable	Boolean	1
Description:		

Parameters	Permitted Values	Default
<p>It enables or disables the forward feature synchronization.</p> <p>0-Disabled</p> <p>1-Enabled, server-based call forward is enabled. Server and local phone call forward are synchronized.</p> <p>Note: It works only if “features.feature_key_sync.enable” is set to 1 (Enabled). It is not applicable to W52P, W53P, W56P, W60P, W73P, W76P, W79P, CP930W-Base phones, and W90.</p>		
account.X.forward.feature_key_sync.enable	Boolean	Blank
<p>Description:</p> <p>It enables or disables the forward feature synchronization for account X.</p> <p>0-Disabled</p> <p>1-Enabled, server-based call forward is enabled. Server and local phone call forward are synchronized.</p> <p>Note: The value configured by this parameter takes precedence over that configured by the parameter “features.forward.feature_key_sync.enable”. It works only if “account.X.feature_key_sync.enable” is set to 1 (Enabled). It is not applicable to VP59/T29G/T41P/T42G/T46G/T48G/T58A/W53P/W60P/W73P/W76P/W79P/CP920/CP960/CP930W-Base phones/W90.</p>		
features.forward.feature_key_sync.local_processing.enable	Boolean	0
<p>Description:</p> <p>Enables or disables the local forward when forward is activated on the BroadWorks server.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>Note: It works only if “features.feature_key_sync.enable” and “features.forward.feature_key_sync.enable” are set to 1 (Enabled). This feature configured on a per-line basis takes precedence over that configured on a phone basis. It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		
features.fwd_mode	Integer	0
<p>Description:</p> <p>Configures the call forward mode.</p> <p>0-Phone, call forward is effective for the phone system</p>		

Parameters	Permitted Values	Default
1-Custom , call forward can be configured for each or all accounts Note: It works only if “features.fwd.allow” is set to 1 (Enabled). It is not applicable to CP930W-Base, SIP-T30P/T30/T19(P) E2, CP960, W52P, W53P, W56P, W60P, and W90.		
forward.always.enable	Boolean	0
Description: Triggers the always call forward to on or off on a phone basis. 0-Off 1-On Note: It works only if “features.fwd.allow” is set to 1 (Enabled) and the value of the parameter “features.fwd_mode” is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
forward.always.target	String within 32 characters	Blank
Description: Configures the destination number of always call forward. Note: It works only if “features.fwd.allow” is set to 1 (Enabled) and the value of the parameter “features.fwd_mode” is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
forward.busy.enable	Boolean	0
Description: Triggers the busy call forward to on or off on a phone basis. 0-Off 1-On Note: It works only if “features.fwd.allow” is set to 1 (Enabled) and the value of the parameter “features.fwd_mode” is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
forward.busy.target	String within 32 characters	Blank
Description: Configures the destination number of busy call forward. Note: It works only if “features.fwd.allow” is set to 1 (Enabled) and the value of the		

Parameters	Permitted Values	Default
parameter "features.fwd_mode" is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
forward.no_answer.enable	Boolean	0
Description: Triggers the no answer call forward to on or off on a phone basis. 0 -Disabled 1 -Enabled Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
forward.no_answer.target	String within 32 characters	Blank
Description: Configures the destination number of no answer call forward. Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90.		
forward.no_answer.timeout	Integer from 0 to 20	2
Description: Configures ring times (N) to wait before forwarding incoming calls. The incoming calls will be forwarded when not answered after N*M (M is configurable by "phone_setting.ring_duration") seconds. Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 0 (Phone). It is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base/W90. The permitted values are determined by the value of the parameter "features.forward.no_answer.show_ring_times".		
features.forward.no_answer.show_ring_times	String within 512 characters	0,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

Parameters	Permitted Values	Default
Description: Configures the permitted values of the ring times (N) to wait before forwarding incoming calls. Example: features.forward.no_answer.show_ring_times = 0,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19 Note: It works only if “forward.no_answer.enable” or “account.X.timeout_fwd.enable” is set to 1 (Enabled). It is only applicable to phones (except W53P/W60P/W73P/W76P/W79P/CP930W-Base/W90) running firmware version 83 or later.		
phone_setting.ring_duration	Integer greater than or equal to 0	6
Description: Configures the interval (in seconds) of the ring for no answer forward feature. Note: It works only if “forward.no_answer.enable” or “account.X.timeout_fwd.enable” is set to 1 (Enabled). It is only applicable to phones (except W53P/W60P/W73P/W76P/W79P/CP930W-Base/W90) running firmware version 83 or later.		
account.X.features.forward.feature_key_sync.local_processing.enable	Boolean	0
Description: Enables or disables the local forward for account X when forward is activated on BroadWorks server. 0-Disabled 1-Enabled Note: It works only if “features.feature_key_sync.enable” and “features.forward.feature_key_sync.enable” are set to 1 (Enabled). It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
account.X.always_fwd.enable	%BWCF A-BINARY-X%	0
Description: Triggers the always call forward to on or off for account X. 0-Disabled 1-Enabled Note: It works only if “features.fwd.allow” is set to 1 (Enabled) and the value of the		

Parameters	Permitted Values	Default
parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones.		
account.X.always_fwd.target	String within 32 characters	Blank
Description: Configures the destination number of always call forward for account X. Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones.		
account.X.busy_fwd.enable	Boolean	0
Description: Triggers the busy call forward to on or off for account X. 0 -Disabled 1 -Enabled Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones.		
account.X.busy_fwd.target	String within 32 characters	Blank
Description: Configures the destination number of busy call forward for account X. Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones.		
account.X.timeout_fwd.enable	Boolean	0
Description: Triggers the no answer call forward to on or off for account X. 0 -Off 1 -On Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones.		

Parameters	Permitted Values	Default
account.X.timeout_fwd.timeout	Integer from 0 to 20	2
Description: Configures ring times (N) to wait before forwarding incoming calls for account X. The incoming calls will be forwarded when not answered after N*M (M is configurable by "phone_setting.ring_duration") seconds. Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones. The permitted values are determined by the value of the parameter "features.forward.no_answer.show_ring_times".		
account.X.timeout_fwd.target	String within 32 characters	Blank
Description: Configures the destination number of no answer call forward for account X. Note: It works only if "features.fwd.allow" is set to 1 (Enabled) and the value of the parameter "features.fwd_mode" is set to 1 (Custom). It is not applicable to SIP-T30P/T30/T19(P) E2/CP920/CP960 IP phones.		
features.fwd_diversion_enable	Boolean	1
Description: Enables or disables the IP phone to present the diversion information when the call is forwarded to your IP phone. 0 -Disabled 1 -Enabled Note: It works only if "features.fwd.allow" is set to 1 (Enabled).		

The following shows an example of always call forward configurations for account 2 in a template configuration file (e.g., y000000000028.cfg):

```
features.fwd_mode = 1
```

```
account.2.always_fwd.enable = %BWFAC-CFA-BINARY-2%
```

```
account.2.always_fwd.target = 4609
```

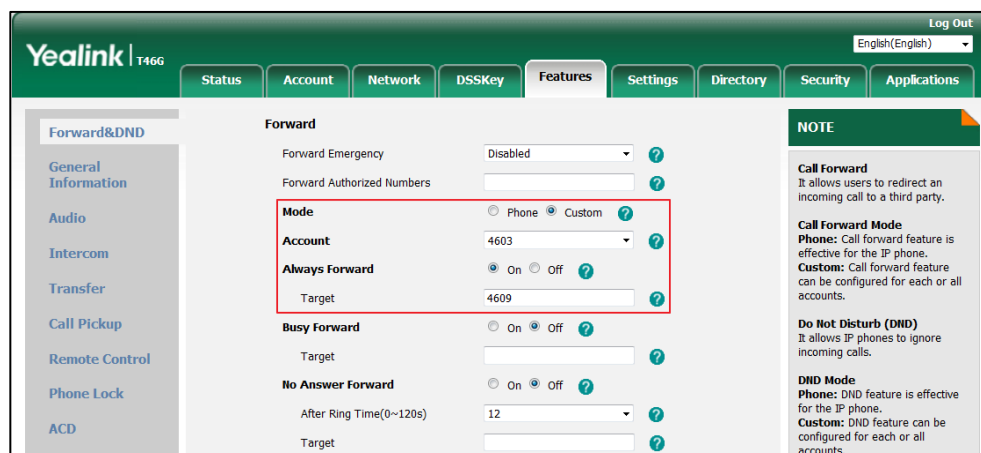
2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the configuration template files will be replaced by the actual parameter values. An example is shown as below:

```
account.2.always_fwd.enable = 1
```

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



Group Night Forwarding

Group Night Forwarding provides a quick way of redirecting all calls to a specified destination at off-work time. You can configure the service at the group level and enable or disable the service for individual users. The off-work time is specified when calls should be forwarded, you can configure a time/holiday schedule. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

Configuring the BroadSoft Server

Assigning the Group Night Forwarding Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240161).
5. Click **Assign Services**.

6. In the **Available Services** box, select **Group Night Forwarding** and then click **Add>**.

7. Click **Apply** to accept the change.

Configuring a Time/Holiday Schedule

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Schedules**.
3. Click **Add** to add a time/holiday schedule.
4. Enter the schedule name in the **Schedule Name** field.
5. Mark the desired radio box in the **Schedule Type** field.
6. Click **OK** to accept the change.

7. Click **Edit** to configure the schedule details.
8. Click **Add** to add a new event to the schedule.
9. Set the following parameters to add a new event.

Schedule Name: YeaLink
 Event Name: off-work
 Start Date: 10/22/2016

End Date: 10/23/2016
 All Day Event: Checked
 Recurs: Never

10. Click **OK** to accept the change.

Configuring Group Night Forwarding

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Group Night Forwarding**.
3. Set the parameters of group night forwarding:

Group Night Forwarding: Automatic On
 Business Hour: Every Day All Day
 Holiday Schedule: Yealink
 Forward to Phone number/SIP-URI: 240163

4. Click **Apply** to accept the change.

Configuring the Group Night Forwarding Feature for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240161), who has been assigned the group night forward service.
5. Click **Call Control->Group Night Forwarding**.
6. Mark the **desired** radio box in the **Group Night Forwarding** field.

7. Click **Apply** to accept the change.

Alternate Numbers

Alternate Numbers allow a user to have up to ten alternate phone numbers or extensions in addition to the main phone number or extension. The user can be reached through any of the phone numbers or extensions. Calls to the main number result in the normal ring pattern. Calls to an alternate number result in a distinctive ring pattern configured for that number. Each alternate phone number or extension can be assigned one of four distinctive ring patterns. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

Normal Ring Pattern

Calls to the main number alert the user with the normal ring pattern as shown in the following table:

Bellcore Tone	Ring Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
Bellcore-dr 1	Ringling	2s On	1800	2000	2200
	Silent	4s Off	3600	4000	4400

Long-Long Ring Pattern

Selecting this pattern results in the following distinctive ring pattern:

Bellcore Tone	Ring Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
Bellcore-dr 2	Ringing	Long	630	800	1025
	Silent		315	400	525
	Ringing	Long	630	800	1025
	Silent		3475	4000	4400

Short-Long Ring Pattern

Selecting this pattern results in the following distinctive ring pattern:

Bellcore Tone	Ring Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
Bellcore-dr 3	Ringing	Short	315	400	525
	Silent		145	200	525
	Ringing	Short	315	400	525
	Silent		145	200	525
	Ringing	Long	630	800	1025
	Silent		2975	4000	4400

Short-Long-Short Ring Pattern

Selecting this pattern results in the following distinctive ring pattern:

Bellcore Tone	Ring Pattern	Cadence	Minimum Duration (ms)	Nominal Duration (ms)	Maximum Duration (ms)
Bellcore-dr 4	Ringing	Short	200	300	525
	Silent		145	200	525
	Ringing	Long	800	1000	1100
	Silent		145	200	525
	Ringing	Short	200	300	525
	Silent		2975	4000	4400

Note

Before configuring Group Night Forwarding feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Group Night Forwarding can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Extended Services Interface](#).

For more information on Alternate Numbers, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Alternate Numbers Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.

6. In the **Available Services** box, select **Alternate Numbers** and then click **Add>**.

7. Click **Apply** to accept the change.

Assigning Alternate Numbers and Extensions to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the alternate number service.
5. Click **Incoming Calls->Alternate Numbers**.
6. Mark the **On** radio box in the **Distinctive Ring** field.
7. Select the alternate number from the drop-down menu of **Phone Number**.
8. Enter the extension in the **Extension** field.
9. Select the desired ring pattern from the drop-down menu of **Ring Pattern**.

Alternate Number ID	Phone Number	Activated	Extension	Ring Pattern
1	4607	<input checked="" type="checkbox"/>	4607	Long-Long
2	None	<input type="checkbox"/>		Normal
3	None	<input type="checkbox"/>		Normal
4	None	<input type="checkbox"/>		Normal
5	None	<input type="checkbox"/>		Normal
6	None	<input type="checkbox"/>		Normal
7	None	<input type="checkbox"/>		Normal
8	None	<input type="checkbox"/>		Normal
9	None	<input type="checkbox"/>		Normal
10	None	<input type="checkbox"/>		Normal

10. Repeat steps 6 to 8 to assign more alternate numbers to the user.
11. Click **Apply** to accept the change.

Configuring Yealink IP Phones

To use Alternate Number, distinctive ring feature should be enabled on the IP phone.

To configure the distinctive ring:

1. Add/Edit distinctive ring parameters in the configuration template files:

Parameters	Permitted Values	Default
features.alert_info_tone	Boolean	0
Description: Enables and disables the IP phone to map the keywords in the Alert-info header to the specified Bellcore ring tones. 0 -Disabled 1 -Enabled		

The following shows an example of distinctive ring configurations in a template configuration file (e.g., y0000000000028.cfg):

```
features.alert_info_tone = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Sequential Ring

Sequential Ring allows a user to have up to five secondary locations, which are alerted sequentially upon receiving an incoming call that matches a set of criteria. Each secondary location can be either a phone number or a SIP-URI. This service attempts to call the user by ringing the phone numbers or URIs in the sequential ring list (starting with the user's base location, if enabled) one after the other until the call is answered. The enhancement, Answer Confirmation, allows the sequential ring to prompt the callee to enter a digit to confirm the acceptance of the call.

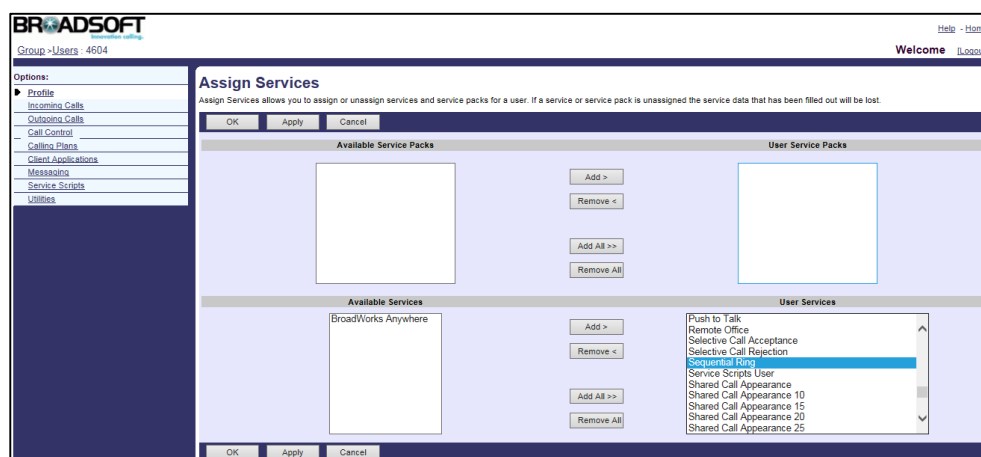
For more information on Sequential Ring, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Sequential Ring Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Sequential Ring** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring a Sequential Ring List for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the sequential ring service.
5. Click **Incoming Calls->Sequential Ring**.
6. Click **Add** to add a new sequential ring entry.
7. Set the following parameters to add a sequential ring entry.

The following shows an example:

Description:	Entry 1
Use sequential ring:	Selected

Selected Time Schedule: Every Day All Day

Selected Holiday Schedule: None

Calls from: Any phone number

8. Click **OK** to accept the change.
9. Configure the following parameters for the sequential ring.

Parameter	Description
Use Base Location first	Specifies whether to alert the base location when receiving an incoming call.
Number of rings for Base Location	Configures the number of rings for the base location.
Continue the search process if the base location is busy	Specifies whether to continue the search process if the base location is busy.
Enable caller to skip search process. Assumes forwarding or messaging is enabled	Specifies whether to skip the search process when the forwarding or voice messaging is activated.
Phone Number / SIP-URI	Specifies the phone number or SIP URI of the secondary location.
Number of rings	Configures the number of rings for the secondary location.
Answer confirmation required	Allows a sequential ring to prompt the secondary location to enter a digit to confirm the acceptance of the call

The following shows an example:

Use Base Location first: Selected

Number of rings for Base Location: 3

Continue the search process if the base location is busy: Selected

Enable caller to skip search process: Selected

Phone Number / SIP-URI: 4607 4608

Number of rings: 3

Answer confirmation required: Selected

Sequential Ring

Sequential Ring allows you to sequentially ring up to 5 locations in addition to the base location for a specified number of rings. The 5 locations can be either a phone number or a SIP-URI. The feature applies to calls matching your pre-defined criteria. Use this service to ring calls from your manager, a family member, or an important customer on your cell phone, alternate business phone, or home phone. The criteria for each Sequential Ring entry can be a list of up to 12 phone numbers or digit patterns, a specified time schedule, and a specified holiday schedule. All criteria for an entry must be satisfied for the call to enter Sequential Ring (phone number and day of week and time of day). If the criteria do not match, the call continues as if this service was not turned on.

Options:

- ☒ Use Base Location first
 - Number of rings for Base Location: 3
 - ☒ Continue the search process if the base location is busy.
- ☒ Enable caller to skip search process. Assumes forwarding or messaging is enabled.

Location	Phone Number / SIP-URI	Number of rings	Answer confirmation required
1	4607	3	<input checked="" type="checkbox"/>
2	4608	3	<input checked="" type="checkbox"/>
3		3	<input type="checkbox"/>
4		3	<input type="checkbox"/>
5		3	<input type="checkbox"/>

Active	Description	Ring Sequentially	Calls from	Edit
<input checked="" type="checkbox"/>	Entry 1	Yes	All calls	Edit

10. Click **Apply** to accept the change.

Call Transfer

Call Transfer allows a user to transfer an existing call to another party. IP phones support call transfer using the REFER method specified in RFC 3515. The following describes three call transfer behaviors:

- **Blind Transfer:** Transfer a call directly to another party without consulting. There is no dialog between the user and the destination party before transfer. Blind transfer is implemented by a simple REFER method without Replaces in the REFER-TO header.
- **Attended Transfer After Answer:** Transfer a call with consulting. There is a confirmed dialog between the user and the destination party before transfer. Attended transfer after answer is implemented by a REFER method with Replaces in the REFER-TO header.
- **Attended Transfer Before Answer:** Transfer a call after hearing the ringback tone. The destination party has been called by the user, but the destination party has not answered yet before transfer. Attended transfer before answer is implemented by a REFER method.

BroadWorks provides two options for call transfer: Busy Camp On and Call Transfer Recall. Busy Camp On allows users to camp the call against a busy destination. Call Transfer Recall allows users to be recalled if the transferred call is not answered for any reason. Busy Camp On only applies to the blind call transfer.

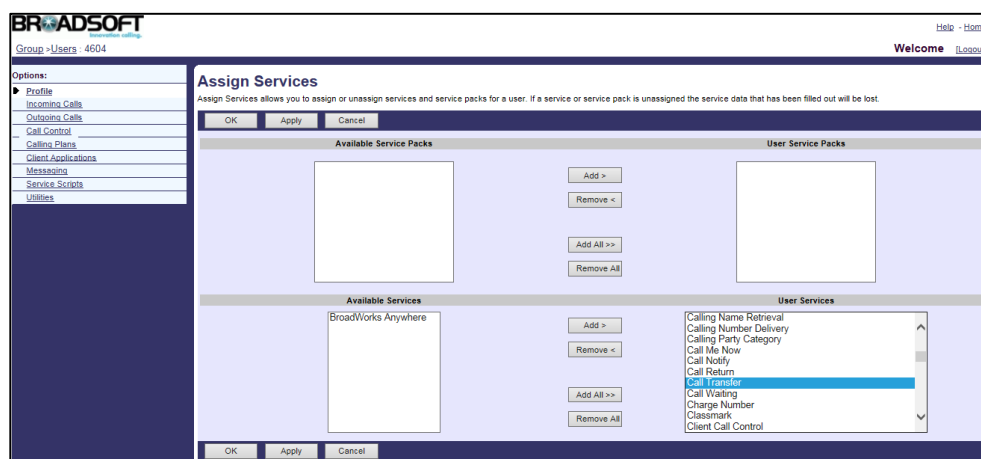
For more information on Call Transfer, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Call Transfer Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Call Transfer** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring Call Transfer for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the call transfer service.
5. Click **Call Control->Call Transfer**.

6. Configure the following parameters of call transfer.

Parameter	Description
Call Transfer Recall	This option allows a transferred call to be reconnected to the transferring party if it reaches a failure or no-answer condition after transfer. Enables or disables Call Transfer Recall.
Number of rings before recall	Specifies the number of rings before Call Transfer Recall is automatically triggered.
Enable Busy Camp On seconds	This option allows users to camp the call against a busy destination and recall the transferring user after the specified time. Enables or disables Busy Camp On and specifies the time after which the transferring user should be recalled.
Use Diversion Inhibitor for Blind Transfer	This option allows users to prevent blind transferred calls from being redirected. Enables or disables the use of diversion inhibitor for blind transferred calls.
Use Diversion Inhibitor for Consultative Calls	This option allows users to prevent attended transferred calls from being redirected. Enables or disables the use of diversion inhibitor for calls transferred with a consultation.

The following shows an example:

Call Transfer Recall: Selected
 Number of rings before recall: 4
 Enable Busy Camp On seconds: Selected 120
 Use Diversion Inhibitor for Blind Transfer: On
 Use Diversion Inhibitor for Consultative Calls: On

BROADSOFT
Group: Users - 4604

Options:
 Profile
 Incoming Calls
 Outgoing Calls
 Call Control
 Calling Plans
 Client Applications
 Messaging
 Service Scripts
 Utilities

Call Transfer
 Call Transfer allows you to transfer a call to another phone using your phone or the CommPilot Call Manager.

OK Apply Cancel

Call Transfer Recall: ☒ On ☐ Off

Configure Call Transfer Recall
 Number of rings before recall: 4

☒ Enable Busy Camp On 120 seconds

Use Diversion Inhibitor for Blind Transfer: ☒ On ☐ Off

Use Diversion Inhibitor for Consultative Calls: ☒ On ☐ Off

OK Apply Cancel

7. Click **Apply** to accept the change.

Feature Key Synchronization

Feature Key Synchronization provides the capability to synchronize the status of the following features between the IP phone and the BroadWorks server:

1. Do Not Disturb
2. Call Forwarding Always (CFA)
3. Call Forwarding Busy (CFB)
4. Call Forwarding No Answer (CFNA)
5. ACD state
6. Centralized Call Recording
7. Executive and Assistant
8. Security Classification

If Feature Key Synchronization is enabled, a user changes the status of one of these features on BroadWorks, the BroadWorks server notifies the phone of synchronizing the status. Conversely, if the user changes the feature status on the phone, the IP phone notifies the BroadWorks server of synchronizing the status.

Configuring Yealink IP Phones

Procedure

1. Add/Edit Feature Key Synchronization parameters in the configuration template files:

Parameters	Permitted Values	Default
features.feature_key_sync.enable	%FEATURE_KEY_S YN%	0
Description: It enables or disables to synchronize the feature status between the IP phone and the server. 0 -Disabled 1 -Enabled, the IP phone to send a SUBSCRIBE message with event "as-feature-event" to the server. Note: It is not applicable to W52P and W56P IP phones.		
account.X.feature_key_sync.enable	%FEATURE_KEY_S YN%	Blank
Description: It enables or disables to synchronize the feature status between the IP phone and the		

Parameters	Permitted Values	Default
server for account X. 0 -Disabled 1 -Enabled, the IP phone to send a SUBSCRIBE message with event "as-feature-event" to the server. Note: It is not applicable to VP59/T29G/T41P/T42G/T46G/T48G/T58A/W53P/W60P/W73P/W76P/W79P/CP920/CP960/CP930W-Base phones/W90. The value configured by this parameter takes precedence over that configured by the parameter "features.feature_key_sync.enable".		

- Customize the static tag on BroadWorks. The tag name is %FEATURE_KEY_SYN% and the tag value is 1.

For more information, refer to [Customizing a Static Tag](#).

- Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tag in the template file will be replaced by the actual parameter value. An example is shown as below:

```
features.feature_key_sync.enable = 1
```

Network Conference

Network Conference allows a user to conduct a conference with more than three participants. The maximum of the participants depends on the BroadWorks server. The network conference is implemented using a conference URI, which is used to identify a request for a BroadWorks conference resource. IP phones support network conference using the REFER method as specified in RFC 4579.

Note

The conference URI can be configured on the BroadWorks server via the command line interface. The command line interface access may be restricted on the BroadWorks server. Contact your BroadSoft reseller for the conference URI.

Configuring Yealink IP Phones

Procedure

- Add/Edit Network Conference parameters in the configuration template files:

The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for W52P/W56P, X=1-5; W53P/W60P/CP930W-Base, X=1-8; W73P/W76P/W79P, X=1-10;

W90: X=1-2500; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1. If the user (e.g., 4604) is the first user assigned to the device profile, replace the "X" by "1".

Parameters	Permitted Values	Default
account.X.conf_type	Integer	0
Description: Configures the conference type for account X. 0 -Local Conference 2 -Network Conference		
account.X.conf_uri	%BWNETWORK-CONFERENCE-SIPURI-X%	Blank
Description: Configures the URI of the network conference for account X.		
features.conference.with_previous_call.enable	Boolean	0
Description: Enables or disables the IP phone to merge two calls into a conference directly by pressing the Conference soft key when there are two calls on the phone. 0 -Disabled, you can select to set up a conference with the held party or a new party when pressing the Conference soft key during multiple calls. 1 -Enabled Note: It is only applicable to phones (not applicable to VP59/SIP-T58A/CP960, W53P/W60P/W73P/W76P/W79P/CP930W-Base/W90) running firmware version 82 or later.		

The following shows an example of network conference configurations in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.conf_type = 2
account.1.conf_uri = %BWNETWORK-CONFERENCE-SIPURI-1%
features.conference.with_previous_call.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tag in the template file will be replaced by the actual parameter value. An example is shown as below:

```
account.1.conf_uri = conference01@pbx.yealink.com
```

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:

The screenshot shows the Yealink T46G web interface. The 'Account' tab is selected, and the 'Account 1' configuration page is displayed. The 'Conference Type' is set to 'Network Conference' and the 'Conference URI' is 'conference01@pbx.yealink.cc'. These two fields are highlighted with a red rectangular box. Other visible fields include 'Keep Alive Type', 'Keep Alive Interval(Seconds)', 'RPort', 'Subscribe Period(Seconds)', 'DTMF Type', 'DTMF Info Type', 'SIP Registration Retry Timer(0~1800s)', 'ACD Subscribe Period(120~3600s)', 'VQ RTP-XR Collector name', 'VQ RTP-XR Collector address', and 'VQ RTP-XR Collector port'. A 'NOTE' section on the right provides information about DTMF, Session Timer, Busy Lamp Field/BLF List, Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA), and Network Conference.

Call Pickup

IP phones support two Call Pickup behaviors: Directed Call Pickup and Group Call Pickup.

Directed Call Pickup allows users to pick up an incoming call on a specific extension in the same customer group (defined by the system administrator). Group Call Pickup allows users to pick up a ringing call coming to another user of the pre-defined group (defined by group administrator). BroadWorks also provides two enhanced services: Directed Call Pickup with Barge-in (DPUBI) and Barge-in Exempt.

DPUBI allows users to dial a FAC followed by an extension to pick up a call directed to another user, or barge in the call if it was already answered. When a barge-in occurs, a three-way call is established between the parties with the DPUBI user as the controller.

Barge-in exempt allows users to block barge-in attempts from other users with DPUBI. Barge-in exempt does not block pickup attempts.

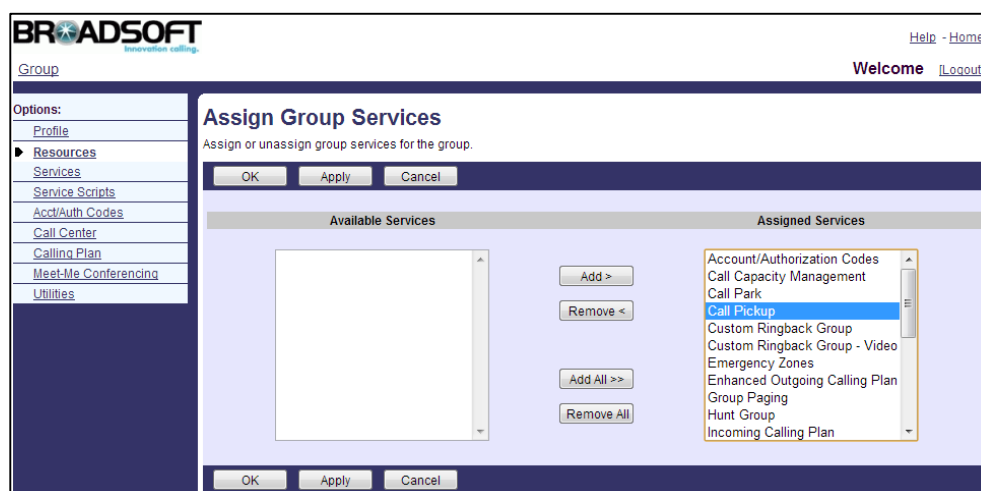
This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

Configuring the BroadSoft Server

Assigning the Call Pickup Service to the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resource->Assign Group Services**.
3. In the **Available Services** box, select **Call Pickup** and then click **Add>**.



4. Click **Apply** to accept the change.

Adding a Call Pickup Group and Assigning Users to the Call Pickup Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Call Pickup**.
3. Click **Add**.
4. Enter a name in the **Group Name** field.
5. Click **Search** to display all available users.

- In the **Available Users** box, select the desired user and then click **Add>** to assign the user to the call pickup group.

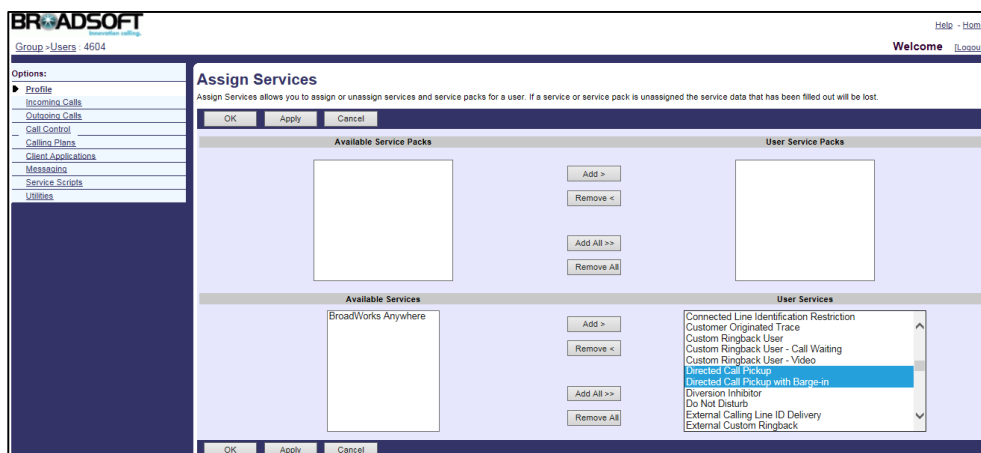
- Click **OK** to accept the change.
- Repeat steps 6 to 7 to assign more users to the call pickup group.

Assigning the Directed Call Pickup and Directed Call Pickup with Barge-in Services to a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604).
- Click **Assign Services**.

- In the **Available Services** box, select **Directed Call Pickup** and **Directed Call Pickup with Barge-in**, and then click **Add>**.



- Click **Apply** to accept the change.

Configuring Directed Call Pickup with Barge-in for a User

You can configure whether a warning tone is given to the picked-up user when a barge-in occurs and whether automatic target selection is enabled.

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604), who has been assigned the directed call pickup with barge-in service.
- Click **Call Control->Directed Call Pickup with Barge-in**.
- Configure the following parameters for directed call pickup with barge-in.

Parameter	Description
Barge-in Warning Tone	Specifies whether a warning tone is played to the picked up user when a barge-in occurs. The default state is "On".
Automatic Target Selection	Enables or disables the user with DPUBI service to initiate a pickup or barge-in by dialing the DPBUI FAC without an extension. When this option is enabled, the user can initiate a pickup or barge-in by dialing the FAC alone if only one user is active (on a call or ringing). The default state is "Off".

The following shows an example:

Simultaneous Ring Personal: On

Automatic Target Selection: On

- Click **Apply** to accept the change.

Assigning the Barge-in Exempt Service to a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4607).
- Click **Assign Services**.
- In the **Available Services** box, select **Barge-in Exempt** and then click **Add>**.

- Click **Apply** to accept the change.

Activating Barge-in Exempt for a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.

4. Select the desired user (e.g., 4607), who has been assigned the barge-in exempt service.
5. Click **Call Control->Barge-in Exempt**.
6. Mark the **On** radio box in the **Barge-in Exempt** field.

7. Click **Apply** to accept the change.

For more information on call pickup, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring Yealink IP Phones

In addition to picking up a call by dialing the FACs, a user can pick up the incoming call using call pickup keys (refer to [Line Keys](#) and [Programmable Keys](#)) or call pickup soft keys.

Note

We recommend that you should not configure the **DPickup** soft key and directed call pickup key simultaneously. If you do, the directed call pickup key will not be used correctly.

Configuring Directed Call Pickup

Procedure

1. Add/Edit Directed Call Pickup parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
features.pickup.direct_pickup_enable	Boolean	0
Description: Enables or disables the IP phone to display the DPickup soft key on the dialing screen. 0-Disabled 1-Enabled		

Parameters	Permitted Values	Default
features.pickup.direct_pickup_code	%BWFAC-DIRECTED-C ALL-PICKUP-1%	Blank
Description: Configures the Directed Call Pickup FAC (default: *97) on a phone basis.		
account.X.direct_pickup_code	String within 32 characters	Blank
Description: Configures the Directed Call Pickup FAC (default: *97) on a per-line basis for account X. The Directed Call Pickup FAC configured on a per-line basis takes precedence over that configured on a phone basis. We recommend that you just configure the FAC either on a phone basis or on a per-line basis.		

The following shows an example of directed call pickup configurations in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
features.pickup.direct_pickup_enable = 1
```

```
features.pickup.direct_pickup_code = %BWFAC-DIRECTED-CALL-PICKUP-1%
```

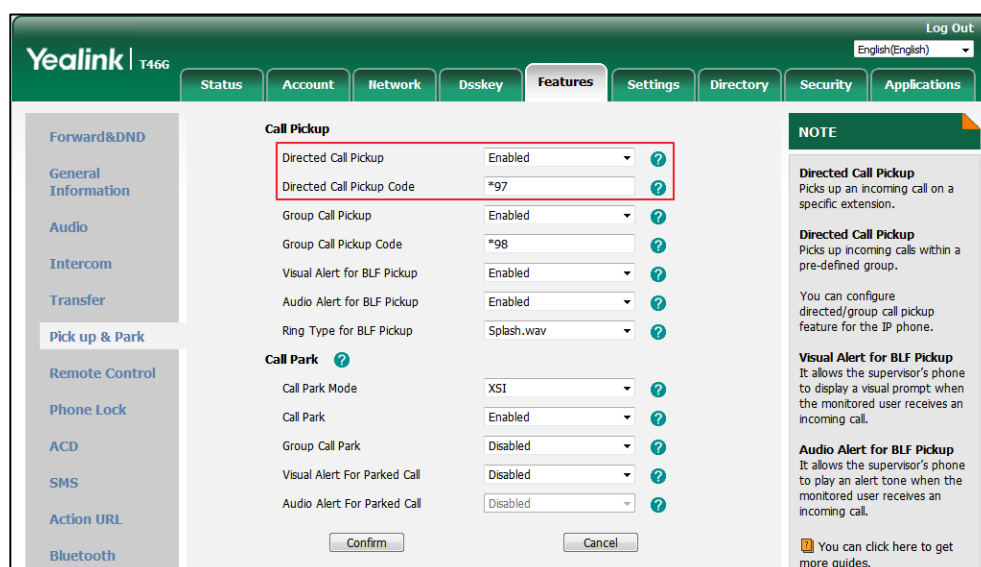
2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter value. An example is shown as below:

```
features.pickup.direct_pickup_code = *97
```

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



Configuring Group Call Pickup

Procedure

1. Add/Edit Group Call Pickup parameters in the configuration template files:

The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
features.pickup.group_pickup_enable	Boolean	0
Description: Enables or disables the IP phone to display the GPickup soft key on the dialing screen. 0 -Disabled 1 -Enabled		
features.pickup.group_pickup_code	%BWFAC-CALL-PICKUP-1%	Blank
Description: Configures the Group Call Pickup FAC (default: *98) on a phone basis.		
account.X.group_pickup_code	String within 32 characters	Blank
Description: Configures the Group Call Pickup FAC (default: *98) on a per-line basis for account X. The Group Call Pickup FAC configured on a per-line basis takes precedence over that configured on a phone basis. We recommend that you just configure the FAC either on a phone basis or on a per-line basis.		

The following shows an example of group call pickup configurations in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
features.pickup.group_pickup_enable = 1
```

```
features.pickup.group_pickup_code = %BWFAC-CALL-PICKUP-1%
```

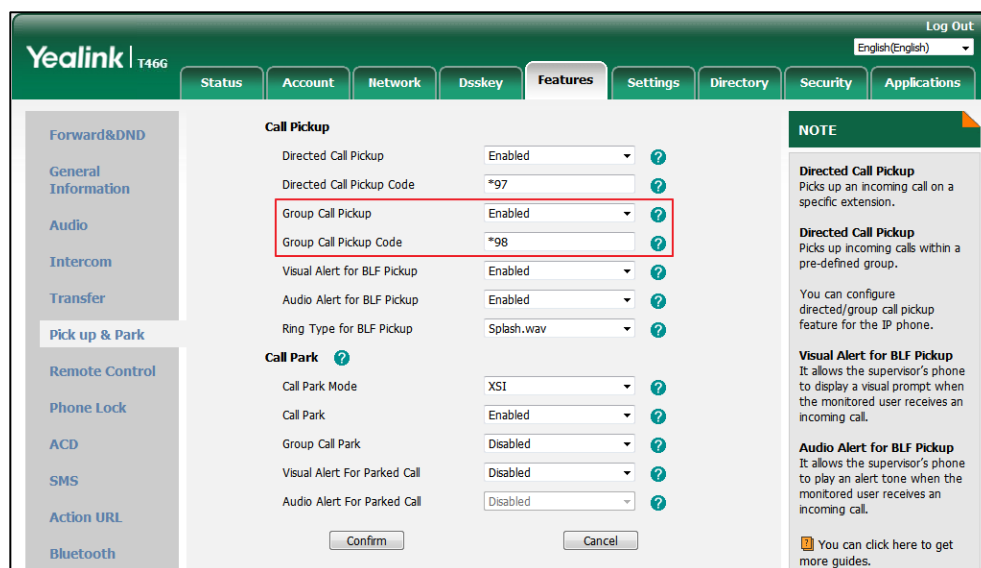
2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter value. An example is shown as below:

```
features.pickup.group_pickup_code = *98
```

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



Calling Line ID Presentation

Calling Line ID Presentation (CLIP) allows the IP phone to display the caller's identity, derived from a SIP header carried in the INVITE request when receiving an incoming call. The caller's identity consists of the calling line ID last name, calling line ID first name, and phone number. The BroadWorks server provides external calling line ID delivery and internal calling line ID delivery services. External calling line ID delivery allows the calling line ID for callers from outside your group or enterprise to be displayed. Internal calling line ID delivery allows the calling line ID for callers from inside your group to be displayed.

Calling Name Presentation

Calling Name Presentation allows the IP phone to display the caller's name, derived from a SIP header contained in the INVITE request when receiving an incoming call. The caller's name consists of the calling line ID last name and calling line ID first name. The BroadWorks server provides external calling name delivery and Internal calling name delivery services. External calling name delivery allows the name for callers from outside your group or enterprise to be displayed. Internal calling name delivery allows the name for callers from inside your group to be displayed.

Calling Number Presentation

Calling Number Presentation allows the IP phone to display the caller's phone number, derived from a SIP header contained in the INVITE request when receiving an incoming call. The BroadWorks server provides external calling number delivery and internal calling number delivery services. External calling number delivery allows the number of callers from outside

your group or enterprise to be displayed. Internal calling number delivery allows the number for callers from inside your group to be displayed. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

For more information on CLIP, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

You can configure the following for Calling Line ID Presentation:

- Assign the Calling Line ID Delivery service.
- Activate/Deactivate Calling Line ID Presentation feature.
- Assign the Calling Name Delivery service.
- Activate/Deactivate Calling Name Presentation feature.
- Assign the Calling Number Delivery service.
- Activate/Deactivate Calling Number Presentation feature.

Note

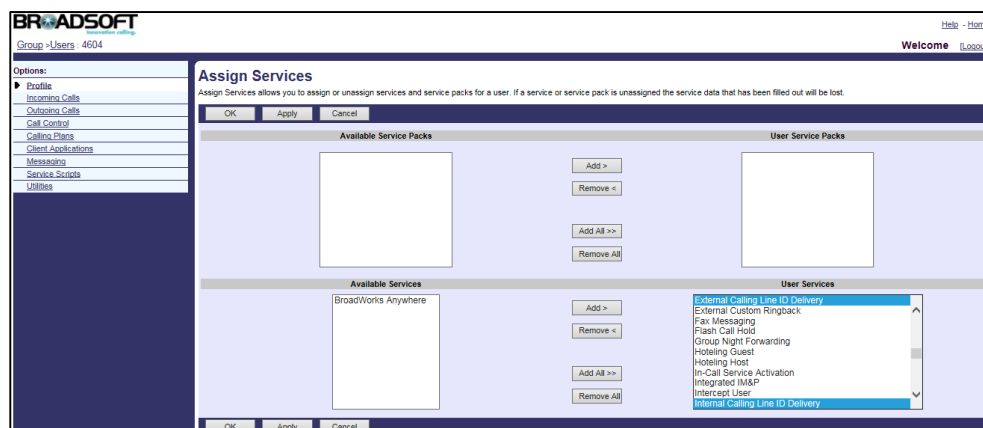
The Internal Calling Line ID Delivery and External Calling Line ID Delivery services have precedence over Calling Name/Number Delivery service. If you have either the Internal Calling Line ID Delivery or External Calling Line ID Delivery service assigned, the assignment and configuration of the Calling Name/Number Delivery service has no effect.

Assigning the Calling Line ID Delivery Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.

- In the **Available Services** box, select **External Calling Line ID Delivery** and **Internal Calling Line ID Delivery**, and then click **Add>**.

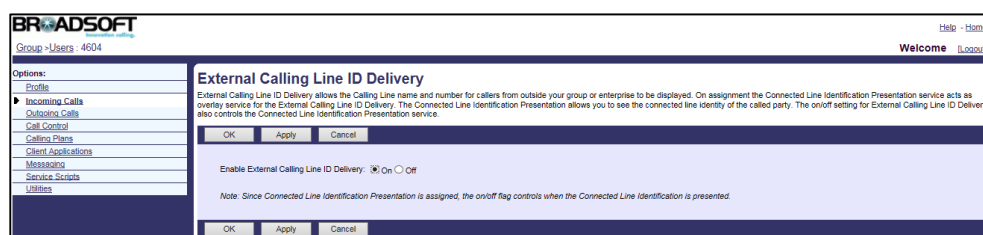


- Click **Apply** to accept the change.

Activating Calling Line ID Presentation Feature

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604), who has been assigned the calling line ID delivery service.
- Click **Incoming Calls->External Calling Line ID Delivery**.
- Mark the **On** radio box in the **Enable External Calling Line ID Delivery** field.



- Click **OK** to accept the change.
- Click **Incoming Calls->Internal Calling Line ID Delivery**.

- Mark the **On** radio box in the **Enable Internal Calling Line ID Delivery** field.

- Click **Apply** to accept the change.

Assigning the Calling Name Delivery Service to a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604).
- Click **Assign Services**.
- In the **Available Services** box, select **Calling Name Delivery** and then click **Add>**.

- Click **Apply** to accept the change.

Activating Calling Name Presentation Feature

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.

4. Select the desired user (e.g., 4604), who has been assigned the calling name delivery service.
5. Click **Incoming Calls->Calling Name Delivery**.
6. Mark the **On** radio box in the **Enable External Calling Name Delivery** field.
7. Mark the **On** radio box in the **Enable Internal Calling Name Delivery** field.

8. Click **Apply** to accept the change.

Assigning the Calling Number Delivery Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Calling Number Delivery** and then click **Add>**.

7. Click **Apply** to accept the change.

Activating Calling Number Presentation Feature

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the calling number delivery service.
5. Click **Incoming Calls-> Calling Number Delivery**.
6. Mark the **On** radio box in the **Enable External Calling Number Delivery** field.
7. Mark the **On** radio box in the **Enable Internal Calling Number Delivery** field.

8. Click **Apply** to accept the change.

Configuring Yealink IP Phones

IP phones support to derive calling line ID from the FROM, P-Preferred-Identity, P-Asserted-Identity and Remote-Party-ID SIP headers in the INVITE request.

Configuring the Calling Line ID Source

Procedure

1. Add/Edit Calling Line ID Source parameters in the configuration template files:
 The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
account.X.cid_source	Integer from 0 to 6	0

Parameters	Permitted Values	Default
<p>Description:</p> <p>Configures the calling line ID source for account X.</p> <p>0-FROM (Derives the name and number of the caller from the “From” header).</p> <p>1-PAI (Derives the name and number of the caller from the “PAI” header. If the server does not send the “PAI” header, displays “anonymity” on the callee’s phone).</p> <p>2-PAI-FROM (Derives the name and number of the caller from the “PAI” header preferentially. If the server does not send the “PAI” header, derives from the “From” header).</p> <p>3-RPID-PAI-FROM</p> <p>4-PAI-RPID-FROM</p> <p>5-RPID-FROM</p> <p>6-PREFERENCE</p> <p>If it is set to 6 (PREFERENCE), the IP phone uses the custom priority order for the sources of caller identity information (configured by the parameter “sip.cid_source.preference”).</p>		
sip.cid_source.preference	String	Refer to the following content
<p>Description:</p> <p>Configures the priority order for the sources of caller identity information. The headers can be in any order.</p> <p>Default values:</p> <p>P-Preferred-Identity, P-Asserted-Identity, Remote-Party-ID, From</p> <p>Note: Yealink IP phones support deriving caller identity from the following SIP headers: From, P-Asserted-Identity (PAI), P-Preferred-Identity and Remote-Party-ID (RPID). It works only if “account.X.cid_source” is set to 6 (PREFERENCE).</p>		

The following shows an example of the calling line ID source configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.cid.source = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:

The screenshot shows the Yealink T46G web interface. The top navigation bar includes tabs for Status, Account, Network, DSSKey, Features, Settings, Directory, Security, and Applications. The 'Account' tab is selected, and the 'Account 1' dropdown is visible. The left sidebar has links for Register, Basic, Codec, and Advanced. The main content area displays various settings for Account 1, including Keep Alive Type, Keep Alive Interval, RPort, Subscribe Period, DTMF Type, DTMF Info Type, DTMF Payload Type, BLF Send DTMF, BLF DTMF Code, Retransmission, Subscribe Register, Subscribe for MWI, MWI Subscription Period, Subscribe MWI To Voice Mail, Voice Mail, Voice Mail Display, Caller ID Source (highlighted with a red box and set to 'FROM'), Session Timer, and Session Expires. A 'NOTE' section on the right provides information about DTMF, Session Timer, Busy Lamp Field/BLF List, Shared Call Appearance (SCA)/ Bridge Line Appearance (BLA), Network Conference, and VQ-RTCPXR.

Calling Line ID Blocking Override

Calling Line ID Blocking Override allows the IP phone to always display the caller's identity, regardless of whether it is blocked by the caller.

This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

For more information on calling line ID blocking override, refer to *BroadWorks Web Interface Administrator Guide*.

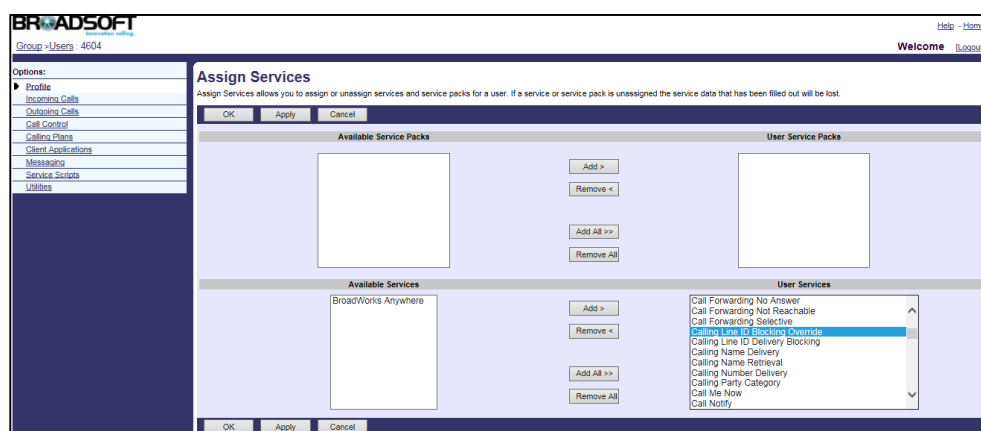
Configuring the BroadSoft Server

Assigning the Calling Line ID Blocking Override Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).

5. Click **Assign Services**.
6. In the **Available Services** box, select **Calling Line ID Blocking Override** and then click **Add>**.

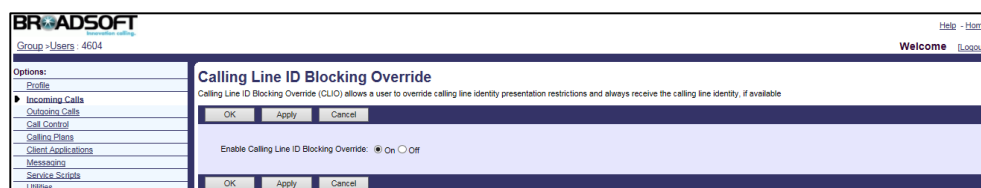


7. Click **Apply** to accept the change.

Activating Calling Line ID Blocking Override Feature

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the calling line ID blocking override service.
5. Click **Incoming Calls->Calling Line ID Blocking Override**.
6. Mark the **On** radio box in the **Enable Calling Line ID Blocking Override** field.



7. Click **Apply** to accept the change.

Connected Line Identification Presentation

Connected Line Identification Presentation (COLP) allows the IP phone to display the callee's identity specified for outgoing calls. The callee's identity consists of the calling line ID last name, calling line ID first name and phone number. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

Note

Before configuring the COLP feature, make sure the necessary calling line ID delivery service for a call is set to "On" on the BroadWorks server.

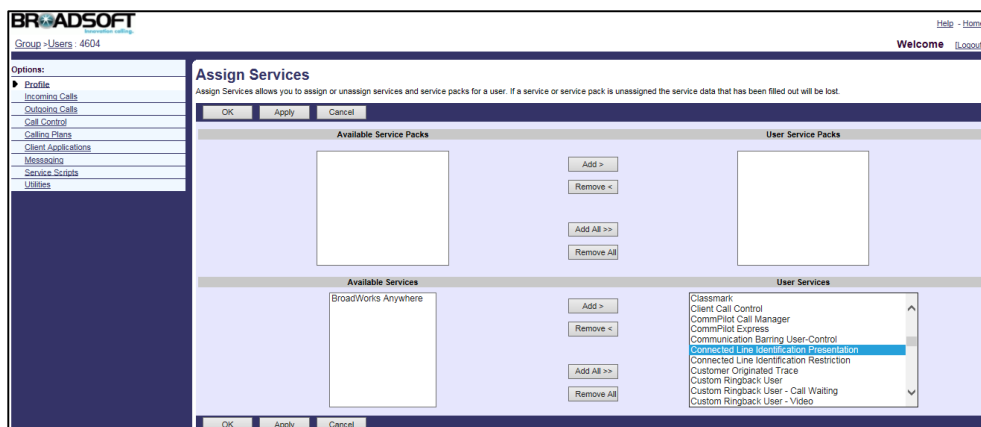
Configuring the BroadSoft Server

Assigning the Connected Line Identification Presentation

Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Connected Line Identification Presentation** and then click **Add>**.



7. Click **Apply** to accept the change.

For more information on COLP, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring Yealink IP Phones

IP phones support to display the dialed digits, or the identity from a SIP header (Remote-Party-ID or P-Asserted-Identity) carried in the 18x or 200 OK response, or the identity from the From header carried in the UPDATE message as described in RFC 4916.

Configuring the Connected Line Identification Source

Procedure

1. Add/Edit Connected Line Identification Source parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
account.X.cp_source	Integer from 0 to 2	0
Description: Configures the connected line identification source for account X. 0-PAI-RPID (Derives the name and number of the callee from the “PAI” header preferentially. If the server does not send the “PAI” header, derives from the “RPID” header). 1-Dialed Digits 2-RFC 4916 (Derives the identity of the callee from “From” header in the UPDATE message).		

The following shows an example of the connected line identification source configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.cp.source = 2
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Connected Line Identification Restriction

Connected Line Identification Restriction (COLR) allows a user to block his identity from showing up when receiving a call. When placing a call to the user with COLR enabled, the 18x response from BroadWorks to the caller contains a Privacy header set to “id”. The caller’s phone

LCD screen updates the callee's identity and displays "anonymous". This feature does not apply to calls from within a group. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

For more information on COLR, refer to *BroadWorks Web Interface Administrator Guide*.

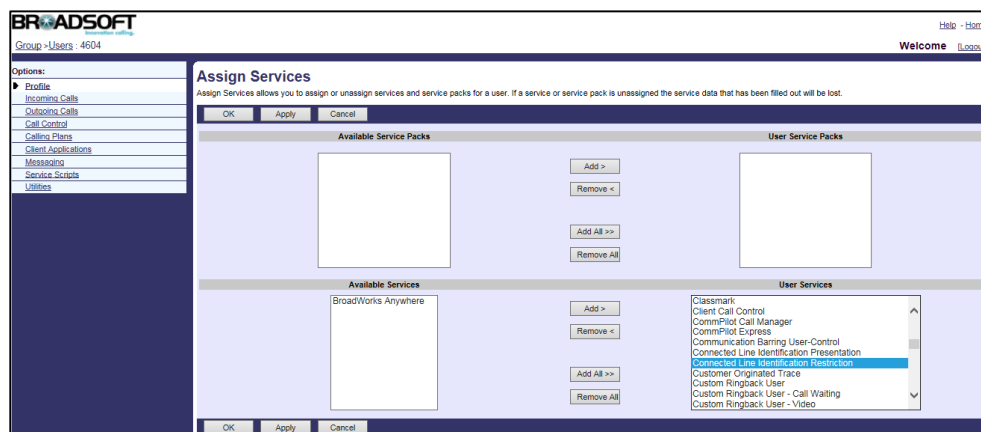
Configuring the BroadSoft Server

Assigning the Connected Line Identification Restriction

Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Connected Line Identification Restriction** and then click **Add>**.



7. Click **Apply** to accept the change.

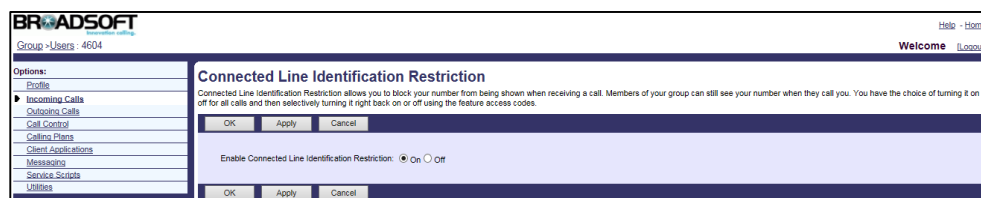
Activating the Connected Line Identification Restriction

Feature

Procedure

1. Log in to the web portal as a group administrator.

2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select two the desired user (e.g., 4604).
5. Click **Incoming Calls->Connected Line Identification Restriction**.
6. Mark the **On** radio box in the **Enable Connected Line Identification Restriction** field.



7. Click **Apply** to accept the change.

Meet-Me Conferencing

Meet-Me Conferencing provides the ability to schedule conference calls, where the moderator (who has control of the conference) and other participants calling into the conference are connected at the appropriate time. IP phones support the high-definition audio conference.

A group administrator creates a conference bridge and designates BroadWorks users who can host conferences on that bridge. Hosts can create scheduled and reservationless conferences. When a conference is created, there is a moderator PIN generated along with the conference ID. Any participant who joins the conference using the moderator PIN has special privileges for that instance of the conference. Within a conference, moderators can invoke functions such as recording, locking a conference, and inviting a new participant. There can be multiple moderators for an instance of a conference. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

For more information on Meet-Me Conferencing, refer to *BroadWorks Web Interface Administrator Guide*.

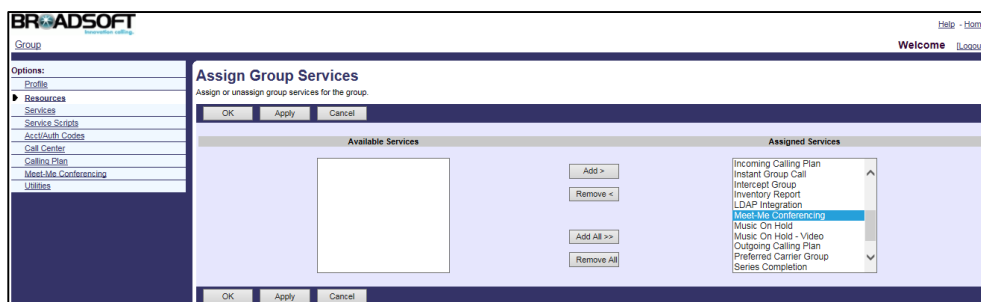
Configuring the BroadSoft Server

Assigning the Meet-Me Conferencing Service to the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resources->Assign Group Services**.

3. In the **Available Services** box, select **Meet-Me Conferencing** and then click **Add>**.



4. Click **Apply** to accept the change.

Adding a Meet-Me Conference Bridge

You can create conference bridges and assign users who can host conferences on those bridges.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Meet-Me Conferencing->Meet-Me Conference Bridges**.
3. Click **Add**.
4. Set the Meet-Me conference bridge parameters.

The following shows an example:

Conference Bridge ID: Bridgeone
 Name: Meet-Me Conference
 Calling Line ID Last Name: Conference
 Calling Line ID First Name: Meet-Me
 Allocated Ports To This Bridge: 2

5. Click **Search** to display all available users.

- In the **Available Users** box, select the desired user and then click **Add>** to assign the user to the conference bridge.

Meet-Me Conference Bridge Profile

Modify the selected Meet-Me conference bridge.

OK Apply Delete Cancel

Conference Bridge ID: Bridgeone

* Name: Meet-Me Conference

* Calling Line ID Last Name: Conference

Department: None

Time Zone: (GMT+08:00) Asia/Shanghai

Security Pin Length: 6 digits

Operator Phone Number / SIP-URI:

Maximum Ports Available For This Bridge: 3

* Allocated Ports To This Bridge: 2

☒ Allow Individual Outdial

☐ Play Warning Prompt: 10 minutes before the conference and

☐ Maximum Conference Duration: 3 hours 00 minutes

Maximum Scheduled Conference Duration: 23 hours 45 minutes

Enter search criteria below

User ID Starts With Search

Available Users

11100,11100 (335566)
12341,12341 (12341)
21,43 (4321)
22,43 (4322)
20,20 (4358)
40004980,40004980 (40004980)
40004981,40004981 (40004981)
4011,4011 (4011)
4200,4200 (4200)
4301Value,123 (4301)
4302,4302 (4302)

Add > Remove < Add All >> Remove All

Conference Hosts

Yealink,4604 (4604)
Yealink,4608 (4608)

OK Apply Delete Cancel

- Click **OK** to accept the change.
- Select the desired conference bridge added above and then click **Edit**.
- Click **Addresses**.
- Select the phone number from the drop-down menu of **Phone Number**.
- Enter the extension in the **Extension** field.

Meet-Me Conference Bridge Addresses

Addresses allows you to view and maintain your phone number and other identities that are used to make and receive calls.

OK Apply Cancel

Phone Number: 4607 Activated

Extension: 4607

Aliases: sip: @pbx.yealink.com

sip: @pbx.yealink.com

sip: @pbx.yealink.com

OK Apply Cancel

- Click **Apply** to accept the change.

Adding a New Conference

You can specify the number of participants the conference may have, how to notify the conference participants and which type of conference you want to create.

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all available users.

4. Select the desired user (e.g., 4604), who has been assigned to the Meet-Me conference bridge.
5. Click **Meet-Me Conferencing->Conferences**.
6. Click **Add**.
7. Set the Meet-Me conference parameters.

The main parameters are described below:

Parameter	Description
Estimated number of participants	Specifies the number of participants the conference may have. Note: The number is not higher than the maximum number of ports available on the bridge on which this conference is hosted.
When attendees join/leave	Specifies how to notify the conference participants when other participants join or leave the conference.
Type	Specifies the type of conference you want to create. One Time: The conference happens once, on the scheduled date and time, and is not repeated. Recurring (Daily, Weekly, Monthly, or Yearly): This is a scheduled conference that happens regularly at specified intervals. It can be ongoing or have an end-date. Reservationless: The conference is not scheduled for any particular time and can be started at any time.

The following shows an example:

Title: Myconference
 Estimated number of participants: 2
 Type: Reservationless
 Schedule Start Date: Select today's date

Schedule End Date: Never

- Click **OK** to accept the change.

After the conference is created, select the conference created above and note the Conference ID and Moderator PIN.

Configuring Yealink IP Phones

When a Meet-Me Conference key is configured on the IP phone, the user can join the conference by pressing the Meet-Me Conference key directly.

Configuring a Meet-Me Conference Key

Procedure

- Add/Edit DSS key parameters in the configuration template files:

You can configure a line key as a Meet-Me conference key (not applicable to SIP-T30P/T30/T19(P) E2 and CP920 IP phones).

The “X” is an integer which specifies the sequence number of the line key. For CP960, X=1-30; for SIP-T57W/T48U/T48S/T48G, X=1-29; for VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X=1-27; for SIP-T42U/T42S/T42G/T41S/T41P, X=1-15; for SIP-T53W/T53/T43U/T27G, X=1-21; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

Parameters	Permitted Values
linekey.X.type	55
Description:	

Parameters	Permitted Values
Configures the line key type. 55-Meet-Me Conference	
linekey.X.line	Refer to the following content
Description: Configures the line to apply the Meet-Me conference key. Permitted Values: 1 to 16 (For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G) 1 to 12 (For SIP-T53W/T53/T43U/T42S/T42G) 1 to 6 (For SIP-T42U/T41S/T41P/T27G) 1 to 4 (For SIP-T33P/T33G) 1 to 3 (For SIP-T40P/T40G/T23P/T23G) 1 to 2 (For SIP-T31P/T31G/T31/T21(P) E2) 1 (For CP960) 1-Line1 2-Line2 3-Line3 ... 16-Line16	
linekey.X.value	String within 99 characters
Description: Configures the Meet-Me conference bridge number.	
linekey.X.extension	String within 256 characters
Description: Configures the conference ID or Moderator PIN followed by the # sign.	
linekey.X.label	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.	

The following shows an example of Meet-Me conference key (line key) configurations in a template configuration file (e.g., y000000000028.cfg):

linekey.2.type = 55

linekey.2.line = 1

linekey.2.value = 4608

```
linekey.2.pickup_value = 382855#
```

You can also configure a programmable key as a Meet-Me conference key.

The “X” is an integer which specifies the sequence number of the programmable key. For SIP-T54W/T48U/T48S/T48G/T46U/T46S/T46G, X=1-10, 12-14, 17-18; for SIP-T53W/T53/T43U/T42U/T42S/T42G/T41S/T41P/T40G/T40P/T33P/T33G, X=1-10, 13, 17-18; for SIP-T29G/T27G, X=1-14, 17-18; for SIP-T23G/T23P/T21(P) E2, X= 1-10, 14, 17-18; for SIP-T31P/T31G/T31/T30P/T30/T19(P) E2, X=1-9, 13, 14, 17-18; for VP59/SIP-T58A/T57W, X=1-4, 12-14, 17-18; for CP960, X=1-3; for CP920, X=1-6, 9, 13.

Parameters	Permitted Values
programmablekey.X.type	55
Description: Configures the programmable key type. 55-Meet-Me Conference	
programmablekey.X.line	Integer from 1 to 16
Description: Configures the line to apply the Meet-Me conference key. Valid values are: 1 to 16 (For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G) 1 to 12 (For SIP-T53W/T53/T43U/T42S/T42G) 1 to 6 (For SIP-T42U/T41S/T41P/T27G) 1 to 4 (For SIP-T33P/T33G) 1 to 3 (For SIP-T40P/T40G/T23P/T23G) 1 to 2 (For SIP-T31P/T31G/T31/T21(P) E2) 1-Line1 2-Line2 3-Line3 ... 16-Line16 Note: It is not applicable to SIP-T30P/T30/T19(P) E2, CP920 IP phones.	
programmablekey.X.value	String within 99 characters
Description: Configures the Meet-Me conference bridge number.	
programmablekey.X.extension	String within 256 characters

Parameters	Permitted Values
Description: Configures the conference ID or Moderator PIN followed by the # sign.	
programmablekey.X.label (X ranges from 1 to 4)	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each soft key.	

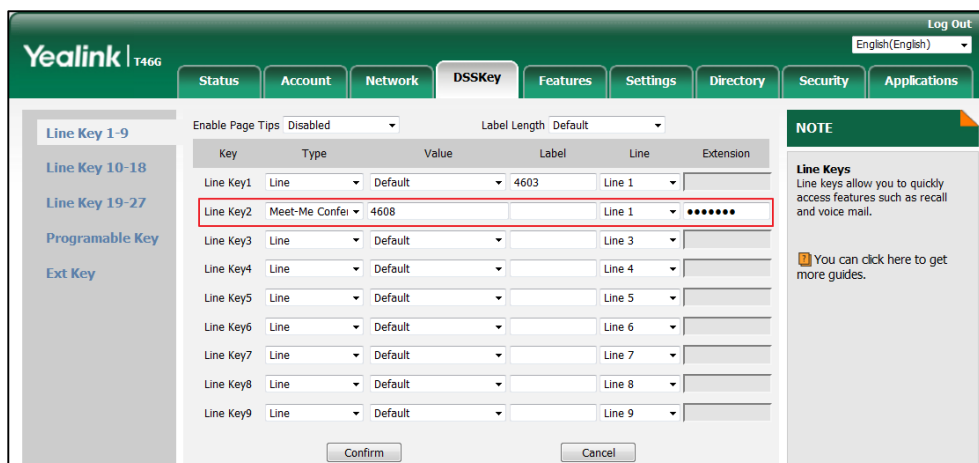
The following shows an example of the Meet-Me conference key (programmable key) configuration in a template configuration file (e.g., y000000000028.cfg):

```
programmablekey.5.type = 55
programmablekey.5.line = 1
programmablekey.5.value = 4608
programmablekey.5.pickup_value = 382855#
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



Busy Lamp Field List

Busy Lamp Field (BLF) List allows a user to monitor a list of specific extensions for status changes on the IP phone. It enables the monitoring phone to subscribe to a list of users and receive notifications of the status of monitored users. Different indicators on the monitoring phone show the status of monitored users. The monitoring user can also be notified about calls being parked/no longer parked against any monitored user. IP phones support BLF list using a SUBSCRIBE/NOTIFY mechanism as specified in RFC 3265.

When a monitored user is idle, the monitoring user presses the BLF list key to dial out the phone number. When a monitored user receives an incoming call, the monitoring user presses the BLF list key to pick up the call directly. When a monitored user is during a conversation, the monitoring user presses the BLF list key to barge in and set up a conference call. When the monitored user receives an incoming call, during conversation or has a parked call, users can also long press the BLF list key to view the call information first and then select to pick up the call, barge in the call, or retrieve the parked call.

This feature is not applicable to SIP-T30P/T30/T19(P) E2, CP920, W52P, W53P, W56P, W60P, W73P, W76P, W79P, CP930W-Base, and W90.

Note

To use barge-in, make sure Barge-In Exempt for the monitored user is set to "Off" on the BroadWorks server. For more information on Barge-In Exempt, refer to [Call Pickup](#).

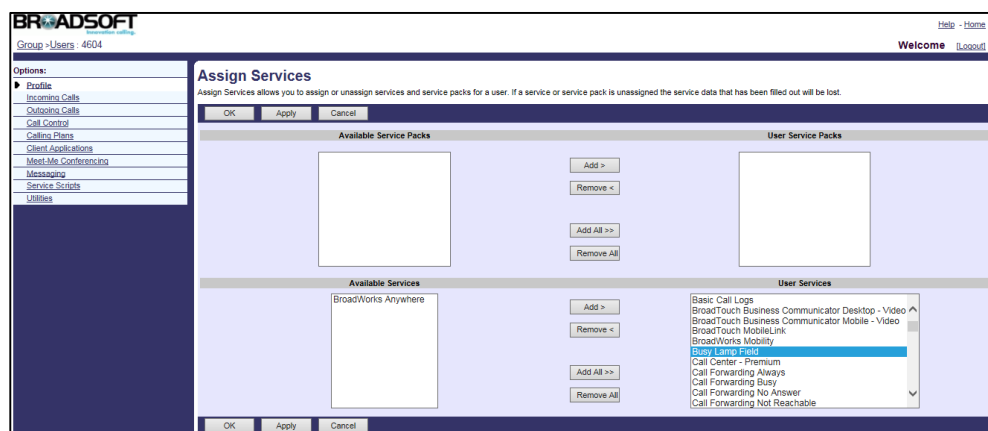
For more information on BLF List, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the BLF Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Busy Lamp Field** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring BLF List for the User

You can create a list of users to monitor and assign a SIP-URI to the list.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the Busy Lamp Field service.
5. Click **Client Applications->Busy Lamp Field**.
6. Enter the BLF List URI (e.g., 4604) in the **List URI** field.
7. Select the domain name (e.g., pbx.yealink.com) from the drop-down menu after the sign @.
8. Check the **Enable Call Park notification** checkbox.
9. Click **Search** to display all available users.
10. In the **Available Users** box, select the desired users and then click **Add>**.
11. Repeat step 10 to add more users to the **Monitored Users** box.

12. Click **Apply** to accept the change.

Configuring Yealink IP Phones

BLF List is configurable using template configuration files or via the web user interface.

Procedure

1. Add/Edit BLF List parameters in the configuration template files.

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for CP960, X=1.

If the user (e.g., 4604) is the first user assigned to the device profile, replace the “X” by “1”.

Parameters	Permitted Values	Default
phone_setting.auto_blf_list_enable	Boolean	1
Description: Enables or disables the IP phone to automatically configure the BLF list keys in order. 0 -Disabled 1 -Enabled		
account.X.blf.blf_list_uri	%BWBLF-URI-X%	Blank
Description: Configures the BLF List URI to monitor the users for account X.		
account.X.blf_list_code	%BWFAC-DIRECT ED-CALL-PICKUP- X%	Blank
Description: Configures the Directed Call Pickup FAC (default: *97) for account X.		
account.X.blf_list_barge_in_code	%BWFAC-DIRECT ED-CALL-PICKUP- WITH-BARGE-IN-X %	Blank
Description: Configures the Directed Call Pickup with Barge-in FAC (default: *33) for account X.		
account.X.blf_list_call_parked_code	%BWFAC-CALL-P ARK-PRIMARY%	Blank
Description: It configures the call park FAC (default: *68) for account X. Example: account.1.blf_list_call_parked_code = *68 Note: It is only applicable to phones running firmware version 84 or later.		
account.X.blf_list_call_parked_list	all or serial number in the BLF list	Blank
Description: It configures the serial numbers of the monitored users in the BLF list where you can park the active call to for account X. This parameter has a higher priority than “transfer.dsskey_deal_type”, so that when		

Parameters	Permitted Values	Default
<p>you press the BLF list key, the phone parks a call other than transferring a call.</p> <p>Multiple serial numbers are separated by commas.</p> <p>Example:</p> <p>account.1.blf_list_call_parked_list =</p> <p>When you leave it blank, you cannot park an active call to any monitored user.</p> <p>account.1.blf_list_call_parked_list = all</p> <p>You can park the active call to any monitored user.</p> <p>account.1.blf_list_call_parked_list = 1,3,4</p> <p>You can park the active call to the first, third or fourth monitored user in the BLF list.</p> <p>Note: It works only if “account.X.blf_list_call_parked_code” is configured. It is only applicable to phones running firmware version 84 or later.</p>		
account.X.blf_list_retrieve_call_parked_code	String within 32 characters	Blank
<p>Description:</p> <p>Configures Call Park Retrieve FAC (default: *88) for account X.</p>		
phone_setting.blf_list_sequence_type	0, 1, 2 or 3	0
<p>Description:</p> <p>Configures the order of BLF list keys to be assigned automatically.</p> <p>0-linekey->exp1 key->expN key</p> <p>1-exp1 key ->expN key ->linekey</p> <p>2-linekey page1->page1 from exp1 key to expN key ->page2 from exp1 key to expN key ->...->linekey from page2 to page3</p> <p>3- page1 from exp1 key to expN key ->page2 from exp1 key to expN key ->...->linekey</p> <p>N above is the number of your connected expansion modules.</p> <p>Note: It works only if “phone_setting.auto_blf_list_enable” is set to 1 (Enabled). It is only applicable to</p> <p>VP59/SIP-T58A/T57W/T54W/T53W/T53/T48U/T48S/T48G/T46U/T46S/T46G/T43U/T29G/T27G IP phones.</p>		
features.pickup.blf_visual_enable	Boolean	0
<p>Description:</p> <p>Enables or disables the IP phone to display a visual alert when the monitored user receives an incoming call.</p> <p>0-Disabled</p> <p>1-Enabled</p>		

Parameters	Permitted Values	Default
features.pickup.blf_visual.list	any, monitored phone number or ListX	any
<p>Description:</p> <p>Configures the monitored users who want to enable the visual alert for BLF pickup feature. The IP phone displays a visual alert when a monitored user receives an incoming call.</p> <p>Multiple monitored users are separated by commas.</p> <p>Example:</p> <p>features.pickup.blf_visual.list = any or leave it blank</p> <p>The IP phone displays a visual alert when any monitored user receives an incoming call.</p> <p>features.pickup.blf_visual.list = 4604,4605</p> <p>The IP phone displays a visual alert when monitored user 4604 or 4605 receives an incoming call.</p> <p>features.pickup.blf_visual.list = List1</p> <p>The IP phone displays a visual alert when any user in the List 1 receives an incoming call. ListX stands for the BLF list of account X configured by the parameter "account.X.blf.blf_list_uri".</p> <p>Note: It works only if "features.pickup.blf_visual_enable" is set to 1 (Enabled). It is only applicable to phones running firmware version 84 or later.</p>		
features.pickup.blf_audio_enable	Boolean	0
<p>Description:</p> <p>Enables or disables the IP phone to play an audio alert when the monitored user receives an incoming call.</p> <p>0-Disabled</p> <p>1-Enabled</p>		
features.pickup.blf_audio.list	any, monitored phone number or ListX	any
<p>Description:</p> <p>Configures the monitored users who want to enable the audio alert for BLF pickup feature. The IP phone plays an audio alert when a monitored user receives an incoming call.</p> <p>Multiple monitored users are separated by commas.</p> <p>Example:</p>		

Parameters	Permitted Values	Default
<p>features.pickup.blf_audio.list = any or leave it blank</p> <p>The IP phone plays an audio alert when any monitored user receives an incoming call.</p> <p>features.pickup.blf_audio.list = 4604,4605</p> <p>The IP phone plays an audio alert when monitored user 4604 or 4605 receives an incoming call.</p> <p>features.pickup.blf_audio.list = List1</p> <p>The IP phone plays an audio alert when any user in the List 1 receives an incoming call. ListX stands for the BLF list of account X configured by the parameter "account.X.blf.blf_list_uri".</p> <p>Note: It works only if "features.pickup.blf_audio_enable" is set to 1 (Enabled). It is only applicable to phones running firmware version 84 or later.</p>		
features.blf.ring_type	Refer to the following content	Splash.wav
<p>Description:</p> <p>Configures a ring tone to play when the monitored user receives an incoming call.</p> <p>Permitted Values:</p> <p>Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav or Splash.wav.</p> <p>Example:</p> <p>features.blf.ring_type = Ring1.wav</p> <p>Note: It works only if "features.pickup.blf_audio_enable" is set to 1 (Enabled). It is not applicable to VP59/SIP-T58A/CP960 IP phones.</p>		
features.blf_led_mode	0, 1, 2 or 3	0
<p>Description:</p> <p>Configures BLF LED mode and provides four kinds of definition for the BLF list key LED status.</p> <p>For more information, refer to BLF LED Mode.</p> <p>Note: For T58A, it is only applicable to the expansion module EXP50 connected to IP phones. It is not applicable to VP59/CP960 IP phones.</p>		
features.blf.show_callinfo.enable	0 or 1	1
<p>Description:</p> <p>Enables or disables the IP phone to display the call information by long pressing the BLF/BLF List key.</p>		

Parameters	Permitted Values	Default
0-Disabled 1-Enabled , when the monitored line is ringing, during a call, or has a parked call, users can long press the BLF/BLF List key to view the call information and then select to pick up the incoming call, barge in a conference, or retrieve the parked call. Note: It is only applicable to phones running firmware version 84 or later.		
features.parked_call_monitor.blf_visual_enable	0 or 1	0
Description: Enables or disables the IP phone to play a visual alert when a call is parked against the monitored user's phone number. 0-Disabled 1-Enabled Note: It is only applicable to phones running firmware version 84 or later.		
features.parked_call_monitor.blf_audio_enable	0 or 1	1
Description: Enables or disables the IP phone to play an audio alert when a call is parked against the monitored user's phone number. 0-Disabled 1-Enabled Note: It is only applicable to phones running firmware version 84 or later.		
features.parked_call_monitor.blf.ring_type	Refer to the following content	Splash.wav
Description: Configures a ring tone for the BLF parked call monitor. Valid value: Ring1.wav, Ring2.wav, Ring3.wav, Ring4.wav, Ring5.wav, Ring6.wav, Ring7.wav, Ring8.wav, Silent.wav, Splash.wav or custom ring tone name (e.g., Customring.wav) Note: It is only applicable to phones running firmware version 84 or later.		

The following shows an example of configuring BLF List in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.blf.blf_list_uri = %BWBLF-URI-1%
account.1.blf_list_code = %BWFAC-DIRECTED-CALL-PICKUP-1%
account.1.blf_list_barge_in_code
= %BWFAC-DIRECTED-CALL-PICKUP-WITH-BARGE-IN-1%
```



```
account.1.blf_list_retrieve_call_parked_code = *88
```

```
phone_setting.blf_list_sequence_type = 0
```

```
phone_setting.auto_blf_list_enable = 1
```

```
features.pickup.blf_visual_enable = 1
```

```
features.pickup.blf_audio_enable = 1
```

```
features.blf_led_mode = 1
```

If the parameter “phone_setting.auto_blf_list_enable” is set to 0, you need to configure the BLF list keys manually. Configure DSS keys to be BLF List keys using the following parameters in the configuration template files (e.g., y000000000028.cfg). The number of BLF List keys to be configured depends on the number of monitored users configured on BroadWorks.

You can configure line keys to be BLF List keys.

The “X” is an integer which specifies the sequence number of the line key. For CP960, X=1-30; for SIP-T57W/T48U/T48S/T48G, X=1-29; for VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X=1-27; for SIP-T42U/T42S/T42G/T41S/T41P, X=1-15; for SIP-T53W/T53/T43U/T27G, X=1-21; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

Parameters	Permitted Values
linekey.X.type	39
Description: Configures the line key type. 39 -BLF List.	
linekey.X.line	Refer to the following content
Description: Configures the line to apply the BLF List key. Permitted Values: 1 to 16 (For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G) 1 to 12 (For SIP-T53W/T53/T43U/T42S/T42G) 1 to 6 (For SIP-T42U/T41S/T41P/T27G) 1 to 4 (For SIP-T33P/T33G) 1 to 3 (For SIP-T40P/T40G/T23P/T23G) 1 to 2 (For SIP-T31P/T31G/T31/T21(P) E2) 1 (For CP960) 1-Line1 2-Line2 3-Line3	

Parameters	Permitted Values
... 16-Line16	
linekey.X.label	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.	

The following shows an example of BLF List keys (line keys) configurations in a template configuration file (e.g., y000000000028.cfg):

```
linekey.2.line = 1
```

```
linekey.2.type = 39
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file (e.g., %BWMACADDRESS%.cfg) will be replaced by the actual parameter values. An example is shown in the following:

```
account.1.blf_list_uri = 4604@pbx.yealink.com
```

```
account.1.blf_list_code = *97
```

```
account.1.blf_list_barge_in_code= *33
```

If you select to configure the BLF lists key automatically, after downloading the configuration files, the IP phone will automatically configure the BLF List keys from the first unused DSS key (Line Key->Ext Key (Expansion1->Expansion2...)), according to the response message from the BroadWorks server. When a DSS key is used, the IP phone will skip to the next unused DSS key.

The IP phone LCD screen is similar to the one shown below:



If you select to configure the BLF list key manually, after downloading the configuration files, the IP phone will configure the line keys according to the configurations in the configuration file.



BLF list feature is configurable via the web user interface at the path **Account->Advanced**.

Shared Call Appearance

Shared Call Appearance (SCA) allows users to share a SIP line on several IP phones. Any IP phone can be used to originate or receive calls on the shared line. An incoming call can be presented to multiple phones simultaneously. The incoming call can be answered on any IP phone but not all. A call that is active on one IP phone will be presented visually to other IP phones that share the call appearance. All SCA phones can also be notified about calls being parked/no longer parked against any SCA phone's extension.

IP phones support SCA using a SUBSCRIBE/NOTIFY mechanism as specified in RFC 3265. The events used are:

- "call-info" for call appearance state notification
- "line-seize" for the IP phone to ask to seize the line

SCA feature also has private hold capability. When putting a shared line call on private hold, the user can retrieve it on the hold phone only. Retrieve attempts on other phones are rejected.

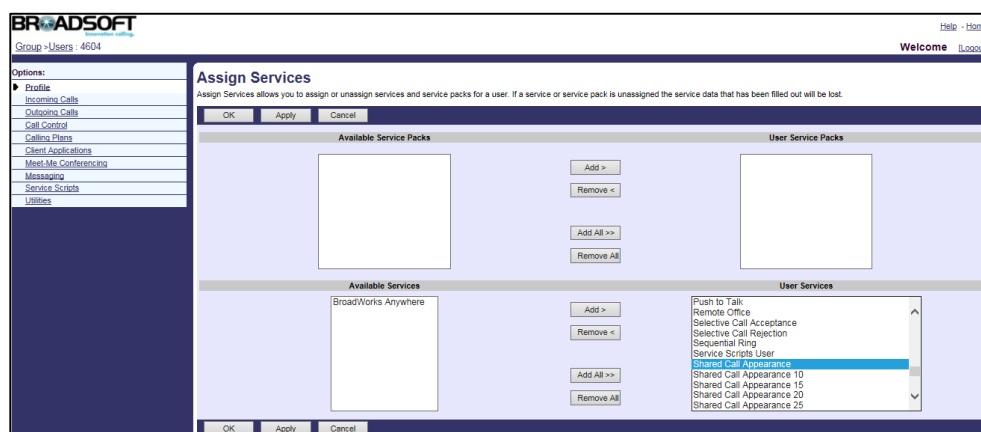
For more information on SCA, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the SCA Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Shared Call Appearance** and then click **Add>**.



- Click **Apply** to accept the change.

Configuring SCA for the User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604), who has been assigned the Shared Call Appearance service.
- Click **Call Control->Shared Call Appearance**.

The main SCA parameters are described below:

Parameter	Description
Alert all appearances for Click-to-Dial calls	Allows alerting all the locations sharing the call appearance when a location places a call from the CommPilot Call Manager.
Allow Call Retrieve from another location	Allows the other location sharing the call appearance to retrieve a call by dialing a call retrieve FAC.
Multiple Call Arrangement	Provides the ability for multiple calls to be handled concurrently on different SCA locations for a user.
Allow bridging between locations	Allows SCA locations to barge in on an active call involving another location.
Enable Call Park notification	Alerts all shared call appearance locations when a call is parked against the user's extension.

Parameter	Description
Bridge Warning tone	<p>Determines whether to play a warning tone when a shared location barges in on an active call.</p> <p>None: disables warning tone feature.</p> <p>Barge-in only: enables the warning tone feature.</p> <p>Barge-in and repeat every 30 seconds: enables the warning tone feature and the warning tone repeats periodically every 30 seconds.</p>

The following shows an example:

Alert all appearances for Click-to-Dial calls:	Selected
Alert all appearances for Group Paging calls:	Selected
Allow Call Retrieve from another location:	Selected
Multiple Call Arrangement:	On
Allow bridging between locations:	Selected
Enable Call Park notification:	Selected
Bridge Warning tone:	Barge-in only

- Click **Apply** to accept the change.
- Click **Add**.
- Select the desired device profile name (e.g., Yealink_T46G_Test) from the drop-down menu of **Identity/Device Profile Name**. Make sure the selected device profile has been created, and note this device profile.
- Enter the alternate phone number (e.g., 4604_1) in the ***Line/Port** field.
- Select the domain name (e.g., pbx.yealink.com) from the drop-down menu after the sign @.

Group > Users : 4604 Welcome [Logout]

Options:

- Profile
- Incoming Calls
- Outgoing Calls
- Call Control
- Calling Plans
- Client Applications
- Meet-Me Conferencing
- Messaging
- Service Scripts
- Utilities

Shared Call Appearance Add

Allows administrators to allocate additional devices or lines to you.

OK Cancel

Identity/Device Profile Name: Yealink_T46G_Test (Group) ▼

* Line/Port: 4604_1 @ pbx.yealink.com ▼

☒ Enable this location

☒ Allow Origination from this location

☒ Allow Termination to this location

OK Cancel

11. Click **OK** to accept the change.

12. Repeat steps 6 to 10 to configure more alternate locations.

Note

The primary account and the alternate accounts should be assigned to different device profiles.

Configuring Yealink IP Phones

Registering the Primary Account and Configuring SCA on the Primary Phone

Procedure

1. Add/Edit primary account parameters in the configuration template files:

The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for W52P/W56P, X=1-5; W53P/W60P/CP930W-Base, X=1-8; W73P/W76P/W79P, X=1-10; W90: X=1-2500; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

If the primary account (e.g., 4604) is the second user assigned to the device profile, replace "X" by "2".

Parameters	Permitted Values	Default
account.X.enable	%BWLIN-BINARY-X%	0
Description: Enables or disables the line X. 0 -Disabled 1 -Enabled		
account.X.label	%BWEXTENSION-X%	Blank
Description: Configures the label to be displayed on the phone for account X when the phone is idle.		
account.X.display_name	%BWCLID-X%	Blank
Description: Configures the name to be displayed on the callee's phone for account X.		
account.X.auth_name	%BWAUTHUSER-X%	Blank

Parameters	Permitted Values	Default
Description: Configures the authentication ID for account X.		
account.X.password	%BWAUTHPASSWORD-X%	Blank
Description: Configures the authentication password for account X.		
account.X.user_name	%BWLINEPORT-X%	Blank
Description: Configures the user ID for account X.		
account.X.sip_server.Y.address (Y ranges from 1 to 2)	%BWHOST-X%	Blank
Description: Configures the IP address of SIP server Y for account X.		
account.X.sip_server.Y.port (Y ranges from 1 to 2)	5060	5060
Description: Configures the port of SIP server Y for account X.		
account.X.outbound_proxy_enable	%USE_SBC_BOOLEAN%	0
Description: Enables or disables the outbound proxy server for account X. 0 -Disabled 1 -Enabled		
account.X.outbound_host	%SBC_ADDRESS%	Blank
Description: Configures the domain name or the IP address of the outbound proxy server 1 for account X.		
account.X.outbound_port	%SBC_PORT%	5060

Parameters	Permitted Values	Default
Description: Configures the port of the outbound proxy server 1 for account X.		
account.X.backup_outbound_host	IP address or domain name	Blank
Description: Configures the IP address or domain name of the outbound proxy server 2 for account X.		
account.X.backup_outbound_port	Integer from 0 to 65535	5060
Description: Configures the port of the outbound proxy server 2 for account X.		

The following shows an example of the primary account configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```

account.2.enable = %BWLIN-BINARY-2%
account.2.label = %BWEXTENSION-2%
account.2.display_name = %BWCLID-2%
account.2.auth_name = %BWAUTHUSER-2%
account.2.password = %BWAUTHPASSWORD-2%
account.2.user_name = %BWLINPORT-2%
account.2.sip_server.1.address= %BWHOST-2%
account.2.sip_server.1.port= 5060
account.2.outbound_proxy_enable = %USE_SBC_BOOLEAN%
account.2.outbound_host = %SBC_ADDRESS%
account.2.outbound_port = %SBC_PORT%

```

2. Add/Edit SCA parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the phone. If the primary account (e.g., 4604) is the second user assigned to the device profile, replace “X” by “2”.

Parameters	Permitted Values	Default
account.X.shared_line	%BWSHAREDLINE-BINARY-X%	0
Description: Configures the line to be private or shared for account X. 0- Disabled		

Parameters	Permitted Values	Default
1- Shared Call Appearance		
features.auto_linekeys.enable	%AUTO_LINEKEYS%	0
<p>Description:</p> <p>Enables or disables the DSS keys to be assigned with Line type automatically.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>Note: The number of the DSS keys is determined by the value of the parameter “account.X.number_of_linekey”. It is not applicable to SIP-T30P/T30/T19(P) E2, CP920, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		
account.X.auto_label.enable	Boolean	0
<p>Description:</p> <p>Enables or disables the Auto Label feature for account X. It is only applicable to the automatically assigned line DSS keys.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>If it is set to 0 (Disabled), the label displayed on the LCD screen is determined by the value of the parameter “account.X.label”.</p> <p>If it is set to 1 (Enabled), the label displayed on the LCD screen is determined by the value of the parameter “account.X.auto_label.rule”.</p> <p>Note: It works only if “features.auto_linekeys.enable” is set to 1 (Enabled). It is not applicable to SIP-T30P/T30/T19(P) E2, VP59, SIP-T58A, CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		
account.X.auto_label.rule	String	{L}_{1}
<p>Description:</p> <p>Configures the Auto Label rule for account X.</p> <p>You need to know the following basic regular expression syntax:</p> <p>{L}: The value is configured by the parameter “account.X.label”.</p> <p>{N}: An increasing number from N. For example, abc{1}{5} represents the following labels: abc15, abc26, abc37, and so on.</p> <p>Multiple labels are separated by “ ”. For example, Yea Yea Yea Tom_{2} means to display “Yea” for first three line keys, and from the fourth one, display label Tom_2, Tom_3, and so on in turn.</p> <p>Other Characters: for example, ABC, will display ABC the same as what you have</p>		

Parameters	Permitted Values	Default
<p>configured.</p> <p>Note: It works only if “features.auto_linekeys.enable” and “account.X.auto_label.enable” are set to 1 (Enabled). It is not applicable to SIP-T30P/T30/T19(P) E2, VP59, SIP-T58A, CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		
account.X.number_of_linekey	%NUM_OF_LINEKEY S%	1
<p>Description:</p> <p>Configures the number of DSS keys to be assigned with Line type automatically from the first unused one (unused one means the DSS key is configured as N/A or Line). If a DSS key is used, the IP phone will skip to the next unused DSS key.</p> <p>The order of DSS key assigned automatically is Line Key->Ext Key.</p> <p>Note: It works only if “features.auto_linekeys.enable” is set to 1 (Enabled). It is not applicable to SIP-T30P/T30/T19(P) E2, CP920, CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		
account.X.shared_line_callpull_code	String within 32 characters	Blank
<p>Description:</p> <p>Configures the shared line call pull FAC (default: *11) for account X.</p> <p>Note: It works only if “account.X.shared_line” is set to 1 (Shared line). It is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.</p>		

The following shows an example of the SCA configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

account.2.shared_line = %BWSHAREDLINE-BINARY-2%

features.auto_linekeys.enable = %AUTO_LINEKEYS%

account.2.number_of_linekey = %NUM_OF_LINEKEYS%

account.2.shared_line_callpull_code = *11

3. Customize the static tag on BroadWorks.

The following table shows an example:

Tag Name	Value
%BWLIN-BINARY-2%	1
%BWEXTENSION-2%	4604
%BWCLID-2%	4604 Yealink
%BWAUTHUSER-2%	4604

Tag Name	Value
%BWAUTHPASSWORD-2%	4604
%BWLINPORT-2%	4604
%BWHOST-2%	pbx.yealink.com
%USE_SBC_BOOLEAN%	1
%SBC_ADDRESS%	10.1.8.11
%AUTO_LINEKEYS%	1
%SBC_PORT%	5060
%BWSHAREDLIN-BINARY-2 %	1
%AUTO_LINEKEYS%	1
%NUM_OF_LINEKEYS%	2

For more information, refer to [Customizing a Static Tag](#).

4. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter values. An example is shown as below:

```
account.2.enable = 1
account.2.label = 4604
account.2.display_name = 4604 Yealink
account.2.auth_name = 4604
account.2.password = 4604
account.2.user_name = 4604
account.2.sip_server.1.address = pbx.yealink.com
account.2.sip_server.1.port = 5060
account.2.outbound_proxy_enable = 1
account.2.outbound_host = 10.1.8.11
account.2.outbound_port = 5060
account.2.shared_line = 1
features.auto_linekeys.enable = 1
account.2.number_of_linekey = 2
account.2.shared_line_callpull_code = *11
```

After a successful update, the user can find the primary phone LCD screen is similar to the one shown below:



The first line is private and the second line and the third line are associated with the shared line.

Registering the Alternate Accounts and Configuring SCA on the Alternate Phones

Procedure

1. Add/Edit alternate account parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. If the user is the second user assigned to the device profile, replace the “X” by “2”.

account.2.enable = %BWLINE-BINARY-2%

account.2.label = %BWEXTENSION-2%

account.2.display_name = %BWCLID-2%

account.2.auth_name = %BWAUTHUSER-2%

account.2.password = %BWAUTHPASSWORD-2%

account.2.user_name = %BWLINEPORT-2%

account.2.sip_server.1.address= %BWHOST-2%

account.2.sip_server.1.port= 5060

account.2.outbound_proxy_enable = %USE_SBC_BOOLEAN%

account.2.outbound_host = %SBC_ADDRESS%

account.2.outbound_port = %SBC_PORT%

2. Add/Edit SCA parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. If the user is the second user assigned to the device profile, replace the “X” by “2”.

account.2.shared_line = %BWSHAREDLINE-BINARY-2%

features.auto_linekeys.enable = %AUTO_LINEKEYS%

account.2.number_of_linekey = %NUM_OF_LINEKEYS%

```
account.2.shared_line_callpull_code = *11
```

3. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter values. An example is shown as below:

```
account.2.enable = 1
account.2.label = 4604
account.2.display_name = 4604 Yealink
account.2.auth_name = 4604
account.2.password = 4604
account.2.user_name = 4604_1
account.2.sip_server.1.address= pbx.yealink.com
account.2.sip_server.1.port= 5060
account.2.outbound_proxy_enable = 1
account.2.outbound_host = 10.1.8.11
account.2.outbound_port = 5060
account.2.shared_line = 1
features.auto_linekeys.enable = 1
account.2.number_of_linekey = 2
account.2.shared_line_callpull_code = *11
```

After successful update, user can find the alternate IP phone LCD screen is similar to the one shown as below:



The first line is private and the second line and the third line are associated with the shared line.

4. Repeat steps 1 to 3 to register more alternate accounts and configure SCA on other alternate phones.

Configuring a Private Hold Key

Procedure

1. Add/Edit DSS key parameters in the configuration template files:

You can configure a line key as a private hold key (not applicable to CP930W-Base, SIP-T30P/T30/T19(P) E2, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90).

The “X” is an integer which specifies the sequence number of the line key. For CP960, X=1-30; for SIP-T57W/T48U/T48S/T48G, X=1-29; for

VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X=1-27; for

SIP-T42U/T42S/T42G/T41S/T41P, X=1-15; for SIP-T53W/T53/T43U/T27G, X=1-21; for

SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for

SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

Parameters	Permitted Values
linekey.X.type	20
Description: Configures the line key type. 20-Private Hold	
linekey.X.label	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.	

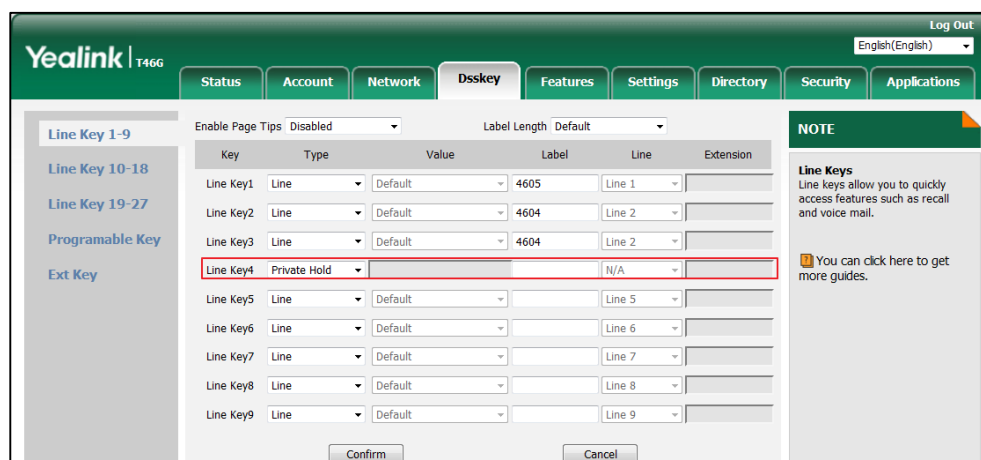
The following shows an example of private hold key (line key) configurations in a template configuration file (e.g., y000000000028.cfg):

```
linekey.4.type = 20
```

2. Upload the template configuration files.

For more information, refer to [Uploading Device Template Files](#).

After a successful update, the user can find the web user interface of the IP phone is similar to the one shown below:



Configuring Barge-in Feature

Procedure

1. Add/Edit barge-in parameter in the configuration template files.

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for CP960, X=1.

If the user (e.g., 4604) is the first user assigned to the device profile, replace the “X” by “1”.

Parameter	Permitted Values	Default
account.X.share_line.barge_in.enable	Boolean	1
Description: Enables or disables the users to interrupt/barge into an active call on the shared line for account X. 0 -Disabled 1 -Enabled Note: It is only applicable to phones (except SIP-T30P/T30/T19(P) E2/CP920, W53P, W60P, W73P, W76P, W79P, CP930W-Base, W90) running firmware version 83 or later.		

The following shows an example of the barge-in configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.share_line.barge_in.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Music/Video on Hold

Music/Video on Hold allows an audio or video source to be played to held parties in various scenarios (Call Park, Call Hold, and Busy Camp On). This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

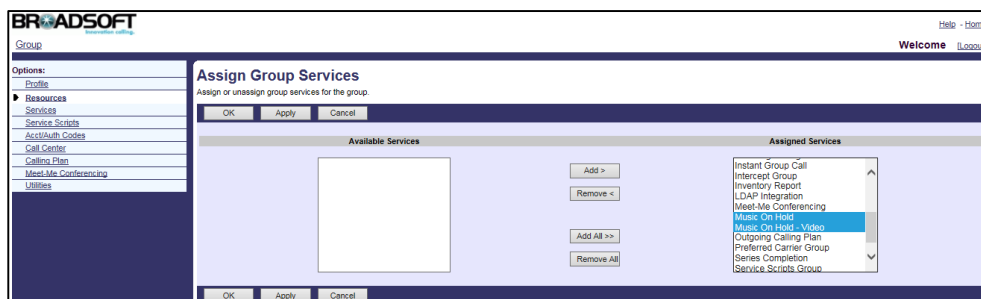
For more information on Music/Video on Hold, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

Assigning the Music/Video on Hold Service to the Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resources->Assign Group Services**.
3. In the **Available Services** box, select **Music On Hold** and **Music On Hold-Video**, and then click **Add>**.



4. Click **Apply** to accept the change.

Configuring Music/Video on Hold for a Department

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Music/Video On Hold**.
3. Click **Add**.
4. Select the desired department from the drop-down menu of **Department**.
5. Configure the Music on/Video on Hold for individual services:

- **Enable music/video during Call Hold:** Checking this checkbox enables the IP phone to play an audio or video file for held callers.
 - **Enable music/video during Call Park:** Checking this checkbox enables the IP phone to play an audio or video file for parked callers.
 - **Enable music/video during Busy Camp On:** Checking this checkbox enables the IP phone to play an audio or video file for camped callers.
6. Configure the source of the Music/Video on Hold message to play.
 7. Click **Apply** to accept the change.

Modifying Music/Video on Hold for a Group/Department

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Music/Video On Hold**.
3. Select the desired group/department and then click **Edit**.
4. Make the desired change.

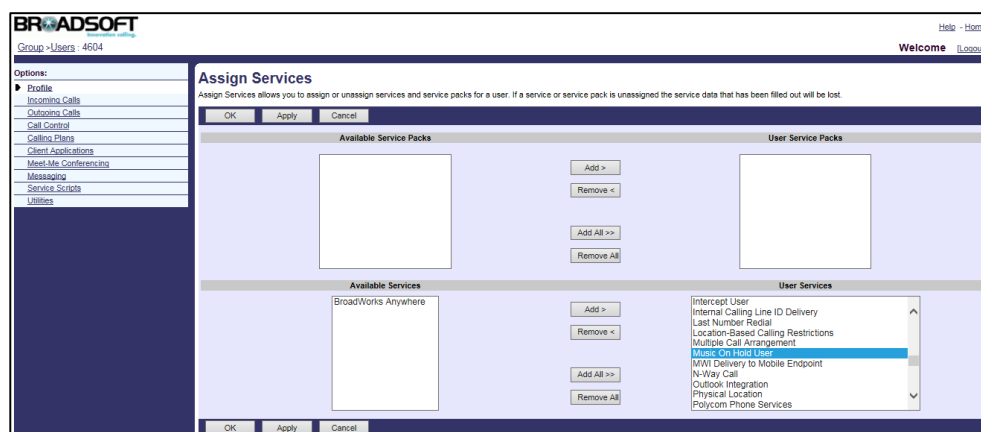
5. Click **Apply** to accept the change.

Assigning the Music/Video on Hold User Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.

6. In the **Available Services** box, select **Music On Hold User** and then click **Add>**.

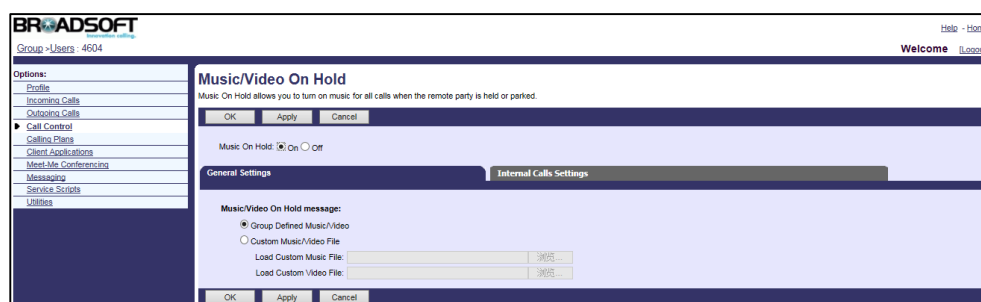


7. Click **Apply** to accept the change.

Configuring Music/Video on Hold for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the Music on Hold User service.
5. Click **Call Control->Music/Video On Hold**.
6. Mark the **On** radio box in the **Music On Hold** field.
7. Configure the source of the Music/Video on Hold message to play.



8. Click **Apply** to accept the change.

Priority Alert

Priority Alert allows users to define criteria to have certain incoming calls trigger distinctive alerting. Criteria can be defined based on the incoming phone numbers or digit patterns, the

time schedule, and the holiday schedule. When the incoming call matches the pre-defined criteria, the BroadWorks server sends an INVITE request to the callee with “Alert-Info” header. The priority alert service can be also assigned to hunt groups and call centers. In this case, the analysis of the incoming call against the set of criteria is done at the hunt group level or the call center level, and then affects the ringing pattern of all agents. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

For more information on Priority Alert, refer to *BroadWorks Web Interface Administrator Guide*.

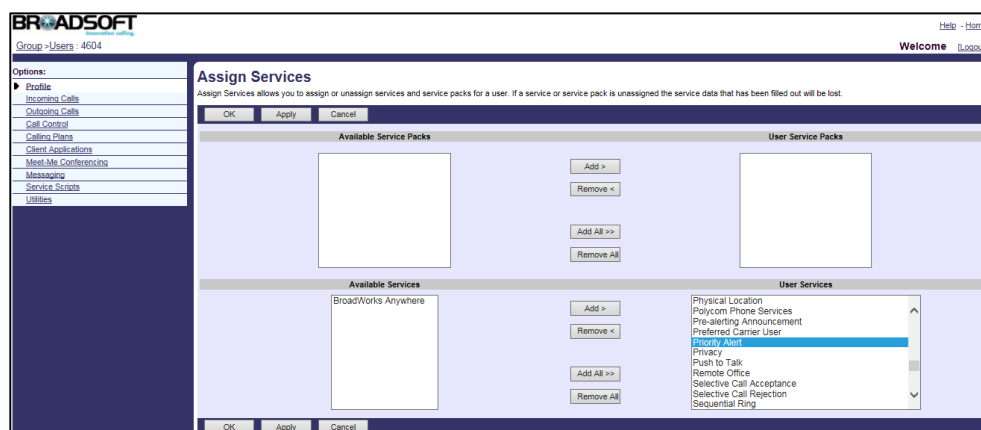
To use priority alert, distinctive ring feature should be enabled on the IP phone. For more information, refer to [Alternate Numbers](#).

Configuring the BroadSoft Server

Assigning the Priority Alert Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Priority Alert** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring Priority Alert for a User

Procedure

1. Log in to the web portal as a group administrator.

2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the priority alert service.
5. Click **Incoming Calls->Priority Alert**.
6. Click **Add** to add a new priority alert entry.
7. Set the parameters of priority alert.

The following shows an example:

Description: D-Ring
 Use Priority Alert: Selected
 Select Time Schedule: Every Day All Day
 Select Holiday Schedule: None
 Any external phone number: Selected

8. Click **OK** to accept the change.

Configuring Priority Alert for a Hunt Group

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Hunt Group**.
3. Select the desired group and then click **Edit**.
4. Click **Assign Services**.
5. In the **Available Services** box, select **Priority Alert** and then click **Add>**.

6. Click **OK** to accept the change.
7. Click **Incoming Calls->Priority Alert**.
8. Click **Add** to add a new priority alert entry.
9. Set the parameters of priority alert.

The following shows an example:

Description: G-ring
 Use Priority Alert: Selected
 Select Time Schedule: Every Day All Day
 Select Holiday Schedule: None
 Following phone numbers: Selected
 Any private number: Selected

10. Click **OK** to accept the change.

Configuring Priority Alert for Call Center

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Call Centers**.
3. Select the desired call center and then click **Edit**.
4. Click **Assign Services**.
5. In the **Available Services** box, select **Priority Alert** and then click **Add>**.

6. Click **OK** to accept the change.
7. Click **Incoming Calls->Priority Alert**.
8. Click **Add** to add a new priority alert entry.
9. Set the parameters of priority alert.

The following shows an example:

Description: C-ring
 Use Priority Alert: Selected
 Select Time Schedule: Every Day All Day
 Select Holiday Schedule: None
 Following phone numbers: Selected
 Specific phone numbers: 4607 4608

10. Click **OK** to accept the change.

Voice Messaging/Video Voice Messaging

Voice Messaging/Video Voice Messaging service allows users to record voice/video messages from callers for calls that are not answered within a specified number of rings, or for calls that receive a busy condition. BroadWorks also provides two options for voice messaging and video voice messaging: Distribution List and Voice Portal Calling. Distribution List allows users to send voice/video messages to the pre-defined list of numbers in bulk. Voice Portal Calling allows users to originate calls from the voice portal.

Visual Voice Mail

Visual voice mail feature allows the IP phone to present the users with a list of voice/video mails, download the voice/video mail detail summary content, mark voice/video mails as read or unread, and delete voice/video mails:

- Present the users with a list of voice/video mails and download the voice/video mail content by issuing a GET request to the `/user/<userid>/VoiceMessagingMessages Xsi-Actions` command.
- Listen/watch the voice/video mails by issuing a GET request to the

voicemailing/<messageId> Xsi-Actions command.

- Mark voice/video mails as read or unread by issuing a PUT request to the *voicemailing/<messageId>/markAsRead* (or *markAsUnread*) Xsi-Actions command.
- Delete voice/video mails by issuing a DELETE request to the *voicemailing/<messageId>* Xsi-Actions command.

Users can have one-touch access to view and manage the voice/video mails.

Note

Before configuring visual voice mail feature, make sure that the XSI has been configured. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

For more information on voice messaging, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring the BroadSoft Server

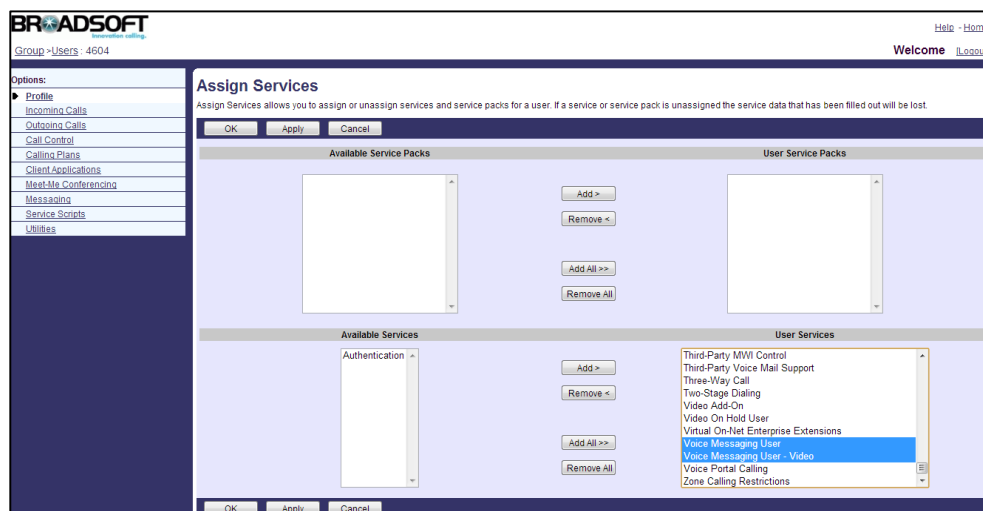
Assigning the Voice Messaging or Video Voice Messaging

Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604).
5. Click **Assign Services**.

- In the **Available Services** box, select **Voice Messaging User** or **Voice Message User - Video** and then click **Add>**.

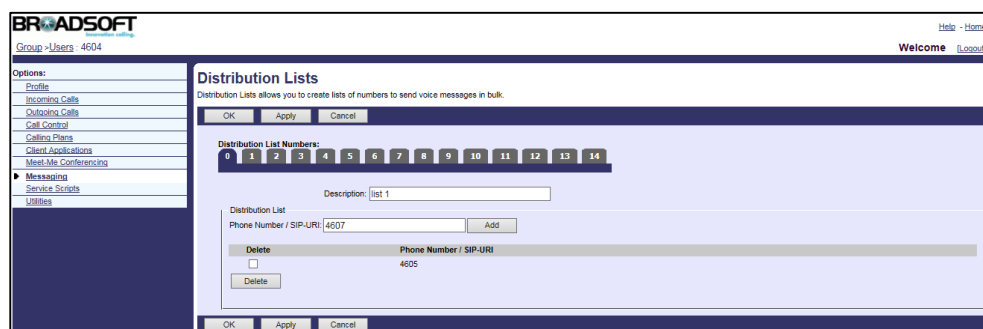


- Click **Apply** to accept the change.

Defining Distribution Lists to Send Voice Messages

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604), who has been assigned the voice messaging/video voice messaging service.
- Click **Messaging->Distribution Lists**.
- Click the desired distribution list number.
- Enter the description of the distribution list in the **Description** field.
- Enter the number or the SIP-URI in the **Phone Number / SIP-URI** field and then click **Add**.



- Repeat steps 6 to 8 to add more numbers.
- Click **Apply** to accept the change.

Configuring Voice Messaging for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the voice messaging /video voice messaging service.
5. Click **Messaging->Voice Management**.
6. Set the parameters of voice messaging.

The following shows an example:

Voice Messaging: On
 Send Busy Calls to Voice Mail: Selected
 Send Unanswered Calls to Voice Mail: Selected
 Use unified messaging: Selected
 Use Phone Message Waiting Indicator: Selected

The screenshot shows the 'Voice Management' configuration page for user 4604. The page has a sidebar with navigation links like Profile, Incoming Calls, Outgoing Calls, Call Control, Callings Plans, Client Applications, Meet/Me Conferencing, Messaging, Service Scripts, and Utilities. The main content area is titled 'Voice Management' and includes a description: 'Voice Management allows you to specify how to handle your messages. Use Unified messaging if you want to use your phone to retrieve messages. You can also just choose to send the message to your e-mail and not use the phone for messaging. Note that the message settings here also apply to other types of messaging such as fax if enabled.' Below this are several settings: 'Voice Messaging' is set to 'On'; 'Send All Calls to Voice Mail' is unchecked; 'Send Busy Calls to Voice Mail' is checked; 'Send Unanswered Calls to Voice Mail' is checked. Under 'When a message arrives...', 'Use unified messaging' is selected, and 'Use Phone Message Waiting Indicator' is also checked. There is a link for 'Advanced Settings (Also saves current screen data)'. Under 'Additionally...', there are checkboxes for 'Notify me by e-mail of the new message at this address', 'E-mail a carbon copy of the message to', and 'Transfer on ' to Phone Number', each followed by a text input field. At the bottom are 'OK', 'Apply', and 'Cancel' buttons.

7. Click **Apply** to accept the change.

Configuring Voice Portal Calling for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the voice messaging/video voice messaging service.
5. Click **Messaging->Voice Portal Calling**.

- Mark the **On** radio box in the **Voice Portal Calling** field.

- Click **Apply** to accept the change.

Configuring Yealink IP Phones

Procedure

- Add/Edit voice messaging parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for W52P/W56P, X=1-5; W53P/W60P/CP930W-Base, X=1-8; W73P/W76P/W79P, X=1-10; W90: X=1-2500; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

If the user (e.g., 4604) is the first user assigned to the device profile, replace “X” by “1”.

Parameters	Permitted Values	Default
voice_mail.number.X	%BWVOICE-PORTAL-NUMBER-X%	Blank
Description: Configures the voice mail number (voice mail access code).		
voice_mail.message_key.mode	Boolean	0
Description: Enables or disables to enter the View Voice Mail screen by pressing the MESSAGE key when the phone is idle. 0-Disabled 1-Enabled If it is set to 0 (Disabled), the IP phone use the voice mail number to access the voice mails. If the voice mail number is not configured, press the MESSAGE key to set voice mail. If the voice mail number is configured, press the MESSAGE key to dial out the voice mail number to access the voice mail portal. If it is set to 1 (Enabled), press the MESSAGE key to enter the View Voice Mail screen.		

Parameters	Permitted Values	Default
Note: It is not applicable to CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
bw.voice_mail.visual.enable	Boolean	0
Description: Enables or disables the visual voice mail feature. 0 -Disabled 1 -Enabled Note: It is not applicable to CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		
bw.voice_mail.visual.display_videomail.enable	Boolean	0
Description: Enables or disables to display the video mails in the Voice Mail list. 0 -Disabled 1 -Enabled Note: It works only if “bw.voice_mail.visual.enable” is set to 1 (Enabled). It is not applicable to CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.		

The following shows an example of the voice messaging configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
voice_mail.number.1 = %BWVOICE-PORTAL-NUMBER-1%
voice_mail.message_key.mode = 1
bw.voice_mail.visual.enable = 1
bw.voice_mail.visual.display_videomail.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tag in the template file will be replaced by the actual parameter values. An example is shown as below:

```
voice_mail.number.1 = 4602
#The number “4602” is the voice portal number provided on the BroadWorks server.
```

Automatic Call Distribution

Automatic Call Distribution (ACD) is often used in offices for customer service, such as call center. The ACD system handles incoming calls by automatically queuing and directing calls to

available registered IP phone users (agents). The primary benefit of ACD is to reduce customer waiting time and improve the quality of service. This feature is not applicable to CP920, CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

Once ACD is enabled on the IP phone, the user can Log in to the ACD system by pressing the **Login** soft key. After logging in the ACD system, the ACD system monitors the ACD status on the user's phone and then decides whether to assign an incoming call to it. The user can change the ACD status on the IP phone. You can configure a reason for changing the agent state to unavailable (e.g., on lunch, in the bathroom, taking a coffee break or a personal break).

Hold Reminder

If a call center call has been on hold after the pre-configured time, BroadWorks sends an INVITE with an Alert-Info header with the ring splash cadence to alert the agent. BroadWorks then sends a CANCEL for the ring splash INVITE. The CANCEL request contains a Reason header indicating ring splash which tells the IP phone that the call must not be identified as a missed call. The IP phone does not add the call to the missed calls list. It is not applicable to VP59/SIP-T58A IP phones.

Call Information

When the agent receives an incoming call, the call center call information is shown on the agent's phone LCD screen. Call center call information includes wait time, call center name, call center phone number and number of calls in queue. BroadWorks provides the capability to send additional call center call information via a call center MIME type carried in the INVITE SDP. In order for BroadWorks to send the call center call information in the INVITE SDP, the Support Call Center MIME Type option must be selected on the BroadWorks device profile. It is not applicable to VP59/SIP-T58A IP phones.

Disposition Code

Disposition Code is an additional attribute that enables calls to be identified with promotions, consults and other tags. BroadWorks provides the capability to obtain a call center call disposition code entered by the user via the IP phone. During a call, the disposition code is communicated from the IP phone to BroadWorks by use of an INFO message. During wrap-up, the code is communicated via the INVITE message from the IP phone to BroadWorks. This feature is implemented using the **Disp Code** soft key or a Disp Code key on the IP phone. It is not applicable to VP59/SIP-T58A IP phones.

Customer Originated Trace

Customer Originated Trace is used to trace the origin of an obscene, harassing, or threatening call. BroadWorks provides the capability for the call center agent to invoke a customer originated trace during the call or wrap-up. During a call, the request for customer originated trace is communicated from the IP phone to BroadWorks by use of an INFO message. During wrap-up, the request is communicated via INVITE from the IP phone to BroadWorks. This feature is implemented using the **Trace** soft key or an ACD Trace key on the IP phone. It is not applicable

to VP59/SIP-T58A IP phones.

Emergency Escalation

BroadWorks provides the capability for the call center agent to immediately escalate a call to a supervisor by pressing a key on the phone. The supervisor is immediately joined into the call. During a call, the request for emergency escalation is communicated from the IP phone to BroadWorks by use of an INFO message. This feature is implemented using the **Emergency** soft key or an Emergency key on the IP phone. It is not applicable to VP59/SIP-T58A IP phones.

Queue Status Notification

Queue Status Notification enables the agent to view the status of the call center queue on the IP phone. The queue can be in one of the following three states:

- **empty**: Indicates that no calls are currently in the queue.
- **Q'ing**: Indicates that one or more calls are currently in the queue.
- **ALERT**: Indicates that the call queue has reached the maximum number of calls, or that a call has been in the queue for too long. The Power LED Indicator will also flash. The LED will stop flashing once the call queue status returns to empty or Q'ing status.

It is not applicable to VP59/SIP-T58A IP phones.

For more information on ACD, refer to *BroadWorks Web Interface Administrator Guide*.

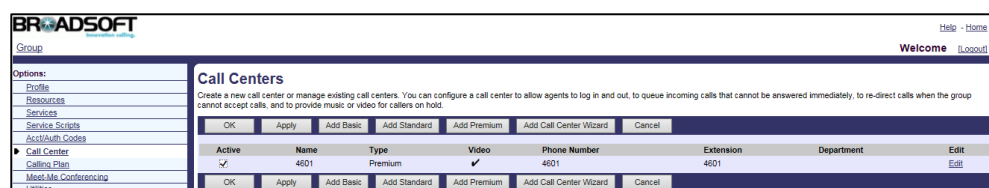
Configuring the BroadSoft Server

Adding a Premium Call Center

BroadWorks Call Center provides three types: Basic, Standard, and Premium. You can choose the solution that best suits your needs. The following takes Premium as an example.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Call Centers->Add Premium**.
3. After creating the call center, go back to **Call Center->Call Centers** and check the **Active** checkbox for the call center.

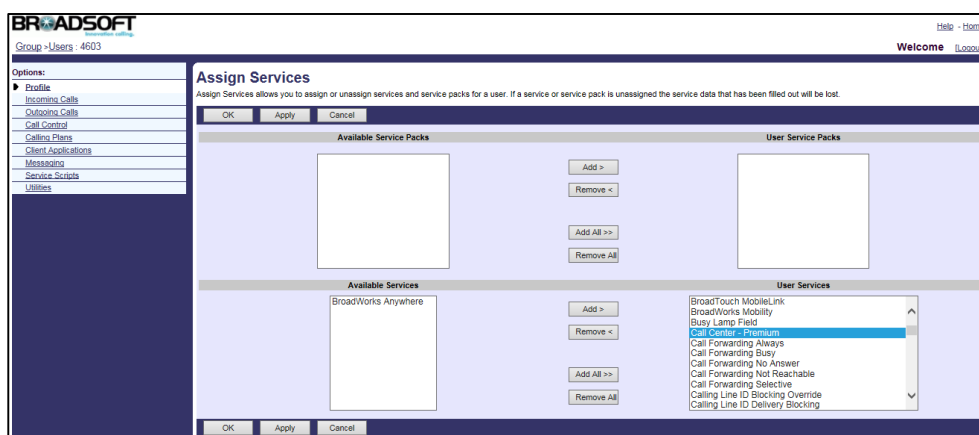


Assigning the Call Center Service to a User

It is a virtual user service that allows users to receive incoming calls from a central phone number.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Call Center-Premium**, and then click **Add>**.



7. Click **Apply** to accept the change.

Assigning Users to the Call Center

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Call Centers**.
3. Select the call center added above and then click **Edit**.
4. Click **Agents**.
5. Click **Search** to display all available users, who have been assigned the call center service.

- In the **Available Agents** box, select the desired agent and then click **Add>**.

- Repeat step 6 to assign more agents to the call center.
- Click **Apply** to accept the change.

Changing the Agent State

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all available users.
- Select the desired agent (e.g., 4603).
- Click **Call Control ->Call Centers**.

- Select the desired state from the drop-down menu of **ACD State**.
- Click **Apply** to accept the change.

Note

Make sure the **Join Call Center** checkbox is checked.

Configuring Unavailable Codes

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Agent Unavailable Codes**.
3. Check **Enable Agent Unavailable Codes** checkbox.
4. Click **Apply** to accept the change.
5. Click **Add**.
6. Enter the desired unavailable code and unavailable code name in the **Code** and **Description** fields respectively.
7. Check the **Active** checkbox.

The screenshot shows the BroadSoft web portal interface. On the left is a sidebar with a tree view under 'Options:' containing items like Profile, Resources, Services, Service Scripts, Account Codes, Call Center (selected), Callers Plan, Meet-Me Conferencing, and Utilities. The main content area is titled 'Agent Unavailable Codes Add' and includes a sub-header: 'Agent Unavailable Codes Add allows you to add a new Unavailable Code entry. Specify the code and description you would like for it.' Below this, there is a checkbox labeled 'Active' which is checked. There is a text input field for '* Code' containing the value '500' and another text input field for 'Description' containing the value 'On Lunch'. At the bottom of the form are 'OK' and 'Cancel' buttons.

8. Click **OK** to accept the change.
9. Repeat steps 5 to 8 to add more unavailable codes.

Configuring Hold Reminder

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Call Centers**.
3. Select the call center added above and then click **Edit**.
4. Click **Routing Policies->Bounced Calls**.
5. Check the **Alert agent if call is on hold for longer than <number>seconds** checkbox, and enter the amount of time (in seconds) if you want agents to be alerted about long-held calls.

6. Check the **Bounce calls after being on hold by agent for longer than <number> seconds** checkbox, and enter the number of time (in seconds) to bounce calls that are on hold longer than the specified number of seconds.

The screenshot shows the 'Bounced Calls' configuration page in the BroadSoft web portal. The page title is 'Bounced Calls' with a subtitle 'Configure the call center routing policy for calls unanswered by agents'. On the left, there is a sidebar with 'Options:' including Profile, Routing Policies, Incoming Calls, and Calling Plans. The main content area has a header with 'OK', 'Apply', and 'Cancel' buttons. Below the header, there are several checkboxes and input fields: 'Bounce Calls after 5 Rings' (checked), 'Transfer to phone number / SIP-URI' (unchecked), 'Bounce calls if agent becomes unavailable while routing the call' (unchecked), 'Alert agent if call is on hold for longer than 30 seconds' (checked), and 'Bounce calls after being on hold by agent for longer than 30 seconds' (checked). At the bottom, there are 'OK', 'Apply', and 'Cancel' buttons.

7. Click **Apply** to accept the change.

Configuring Call Information

Procedure

1. Log in to the web portal as a group administrator.
2. Create a device profile. Make sure the selected device profile type supports Call Center MIME Type.

The screenshot shows the 'Identity/Device Profile Add' page in the BroadSoft web portal. The page title is 'Identity/Device Profile Add' with a subtitle 'Add a new group identity/device profile'. On the left, there is a sidebar with 'Options:' including Profile, Resources, Services, Service Scripts, Acct/Auth Codes, Call Center, Calling Plan, Meet-Me Conferencing, and Utilities. The main content area has a header with 'OK' and 'Cancel' buttons. Below the header, there are several input fields and dropdown menus: '* Identity/Device Profile Name: Call Center_Call Inf', 'Identity/Device Profile Type: Yealink-T46G', 'Protocol: SIP 2.0', 'Host Name/IP Address:', 'Port:', 'Transport: Unspecified', 'MAC Address:', 'Serial Number:', 'Description:', 'Outbound Proxy Server:', 'STUN Server:', and 'Physical Location:'. At the bottom, there is an 'Authentication' section with two radio buttons: 'Use Identity/Device Profile Type Credentials' (selected) and 'Use Custom Credentials'. Below these are input fields for '* Device Access User Name:', '* Device Access Password:', and '* Re-type Device Access Password:'. At the bottom, there are 'OK' and 'Cancel' buttons.

- Assign the call center agent to the device profile. Make sure the selected device profile is the one created above.

BROADSOFT
Group - Users - 4603

Options:
 Profile
 Incoming Calls
 Outgoing Calls
 Call Control
 Calling Plans
 Client Applications
 Messaging
 Service Scripts
 Utilities

Addresses
 Addresses allows you to view and maintain your phone number and other identities that are used to make and receive calls.

OK Apply Cancel

Phone Number: 4603 Activated
 Extension: 4603
☒ Identity/Device Profile ☐ Trunking ☐ None

Identity/Device Profile Name: Call Center_Call Inf (Group)
 * LinePort: 4603 @ pbx.yealink.com | Advanced Settings
 Contact: sip
 sip
 sip
 sip
 sip

Aliases: sip: 4603@pbx.yealink.com
 sip: @ pbx.yealink.com
 sip: @ pbx.yealink.com
 sip: @ pbx.yealink.com

OK Apply Cancel

- Click **Apply** to accept the change.

Configuring Disposition Codes

Procedure

- Log in to the web portal as a group administrator.
- Click **Call Center->Call Centers**.
- Select the call center added above and then click **Edit**.
- Click **Call Disposition Codes**.
- Check **Enable call disposition codes** checkbox.

BROADSOFT
Group - Call Centers - 4601

Options:
 Profile
 Routing Policies
 Incoming Calls
 Outgoing Calls
 Call Control
 Calling Plans
 Client Applications
 Messaging
 Utilities

Call Disposition Codes
 Add or Modify Call Disposition Codes. Disposition Codes are attributes applied to a call to identify marketing promotions or other topics pertaining to a call.

OK Apply Add Cancel

☒ Enable call disposition codes
☒ Use enterprise codes in addition to call center codes
☐ Force use of call disposition codes with default code: None

Active	Code	Description	Level	Edit
<input checked="" type="checkbox"/>	100	Promotion A	Queue	Edit

[Page 1 of 1]

Code Starts With Find Find All

OK Apply Add Cancel

- Click **Apply** to accept the change.

To configure Disposition Codes:

- Log in to the web portal as a group administrator.
- Click **Call Center->Call Disposition Codes**.
- Click **Add**.
- Enter the desired disposition code and disposition name in the **Code** and **Description** fields respectively.

5. Check the **Active** checkbox.

6. Click **OK** to accept the change.
7. Repeat steps 3 to 5 to add more disposition codes.

Configuring Customer Originated Trace for the Agent

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all available users.
4. Select the desired agent (e.g., 4603).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Customer Originated Trace** and then click **Add>**.

7. Click **Apply** to accept the change.

Assigning Supervisors to the Call Center

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Call Centers**.
3. Select the call center added above and then click **Edit**.
4. Click **Supervisors**.

5. Click **Search** to display all available supervisors.
6. In the **Available Supervisors** box, select the desired supervisor and then click **Add>**.

7. Repeat step 6 to assign more supervisors to the call center.
8. Click the **Assign Agents** tab.
9. Select the desired supervisor from the drop-down menu of **Supervisors**.
10. Click **Search** to display all available agents for the supervisor.
11. In the **Available Agents** box, select the desired agent and then click **Add>**.

12. Click **Apply** to accept the change.

Configuring Queue Status Notification

Procedure

1. Log in to the web portal as a group administrator.

2. Click **Call Center->Call Centers**.
3. Select the call center added above and then click **Edit**.
4. Click **Queue Status Notification**.
5. Check the Enable notification of queue status to agent devices checkbox.
6. Check the **Number of calls in queue: <number>** checkbox, and enter a threshold on the number of calls in queue.
7. Check **Longest waiting time: <number> seconds** checkbox, and enter a threshold on the longest waiting time.

8. Click **Apply** to accept the change.

Configuring DND for Call Center

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Call Center->Call Centers**.
3. Select the call center added above and then click **Edit**.
4. Click **Incoming Calls->Do not Disturb**.
5. Check the **Enable** notification of queue status to agent devices checkbox.
6. In the **Do Not Disturb** field, mark the desired radio box.

7. Click **Apply** to accept the change.

Configuring Yealink IP Phones

Configuring Automatic Call Distribution Feature

Procedure

1. Add/Edit ACD parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920, X=1.

If the primary account (e.g., 4603) is the first user assigned to the device profile, replace “X” by “1”.

Parameters	Permitted Values	Default
account.X.acd.enable	%ACD_LINE_BINA RY%	0
Description: Enables or disables ACD feature for account X. 0 -Disabled 1 -Enabled		
account.X.acd.initial_state	Integer	1
Description: Configures the initial agent state for account X. 1 -Available 2 -Unavailable		
account.X.acd.available	Boolean	0
Description: Enables or disables the IP phone to display the Unavail and Avail soft keys for account X after logging into the ACD system. 0 -Disabled 1 -Enabled		
acd.enable	0 or 1	0

Parameters	Permitted Values	Default
Description: Enables or disables the IP phone to automatically change the status of the ACD agent to available after the designated time. 0 -Disabled 1 -Enabled Note: It works only if “account.X.acd.enable” is set to 1 (Enabled).		
acd.auto_available_timer	Integer from 0 to 120	60
Description: Configures the interval (in seconds) for the status of the ACD agent to be automatically changed to available. Note: It works only if “account.X.acd.enable” and “acd.enable” are set to 1 (Enabled).		
Unavailable Code		
account.X.acd.unavailable_reason_enable	Boolean	0
Description: Enables or disables unavailable code feature for account X. 0 -Disabled 1 -Enabled		
account.X.reason_code.Y (Y ranges from 1 to 100)	Integer from 1 to 2147483647	blank
Description: Configures the unavailable code which must match one of the codes configured on BroadWorks for account X. Multiple unavailable codes can be configured starting with Y=1,2,3...100. At most 100 unavailable codes can be configured, and the value of Y must be continuous.		
account.X.reason_code_name.Y (Y ranges from 1 to 100)	String within 99 characters	blank
Description: Configures the unavailable reason which must match one of the reasons configured on BroadWorks for account X. Multiple unavailable reasons can be configured starting with Y=1,2,3...100. At most 100 unavailable reasons can be configured, and the value of Y must be continuous.		

Parameters	Permitted Values	Default
Call Information		
account.X.call_center.call_info_enable	Boolean	0
Description: Enables or disables call center call information feature for account X. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/SIP-T58A IP phones.		
account.X.call_center.show_call_info_time	Integer	30
Description: Configures the interval (in seconds) to specify how long the call center call information displays for account X. Note: It is not applicable to VP59/SIP-T58A IP phones.		
Disposition Code		
account.X.call_center.disp_code_enable	Boolean	0
Description: Enables or disables the disposition code feature for account X. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/SIP-T58A IP phones.		
account.X.bw_disp_code.Y (Y ranges from 1 to 100)	Integer from 1 to 2147483647	Blank
Description: Configures the disposition code which must match one of the codes configured on BroadWorks for account X. Multiple disposition codes can be configured starting with Y=1,2,3...100. At most 100 disposition codes can be configured, and the value of Y must be continuous. Note: It is not applicable to VP59/SIP-T58A IP phones.		
account.X.bw_disp_code_name.Y (Y ranges from 1 to 100)	String within 99 characters	Blank

Parameters	Permitted Values	Default
Description: Configures the disposition code name which must match one of the names configured on BroadWorks for account X. Multiple disposition code names can be configured starting with Y=1,2,3...100. At most 100 disposition code names can be configured, and the value of Y must be continuous. Note: It is not applicable to VP59/SIP-T58A IP phones.		
Customer Originated Trace		
account.X.call_center.trace_enable	Boolean	0
Description: Enables or disables the customer originated trace feature for account X. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/SIP-T58A IP phones.		
Emergency Escalation		
account.X.call_center.emergency_enable	Boolean	0
Description: Enables or disables the emergency escalation feature for account X. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/SIP-T58A IP phones.		
account.X.supervisor_info_code.Y (Y ranges from 1 to 100)	Integer from 1 to 2147483647	Blank
Description: Configures the supervisor number for account X. Multiple supervisor numbers can be configured starting with Y=1,2,3...100. At most 100 supervisor numbers can be configured, and the value of Y must be continuous. Note: It is not applicable to VP59/SIP-T58A IP phones.		
account.X.supervisor_info_code_name.Y (Y ranges from 1 to 100)	String within 99 characters	Blank

Parameters	Permitted Values	Default
Description: Configures the supervisor name for account X. Multiple supervisor names can be configured starting with Y=1,2,3...100. At most 100 supervisor names can be configured, and the value of Y must be continuous. Note: It is not applicable to VP59/SIP-T58A IP phones.		
Queue Status Notification		
account.X.call_center.queue_status_enable	Boolean	0
Description: Enables or disables the queue status notification feature for account X. 0 -Disabled 1 -Enabled Note: It is not applicable to VP59/SIP-T58A IP phones.		
account.X.call_center.queue_status_light_enable	Boolean	0
Description: Enables or disables the power LED indicator to flash when the ACD call queue has reached the maximum number of calls for account X. 0 -Disabled (power LED indicator does not flash) 1 -Enabled (power LED indicator fast flashes (300ms)) Note: It is not applicable to VP59/SIP-T58A IP phones.		
features.homescreen_softkey.acd.enable	Boolean	1
Description: Enables or disables the IP phone to display the ACD soft keys such as Login or Logout on the idle screen. 0 -Disabled 1 -Enabled Note: It works only if the value of parameter "account.X.acd.enable" is set to 1 (Enabled). It is only applicable to IP (except VP59/SIP-T58A) phones running firmware version 83 or later.		

The following shows an example of ACD configurations in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.acd.enable = %ACD_LINE_BINARY%
```

```
account.1.acd.initial_state = 1
```

```
account.1.acd.available = 1
```

```

account.1.acd.unavailable_reason_enable = 1
account.1.reason_code.1 = 500
account.1.reason_code_name.1 = On Lunch
account.1.call_center.call_info_enable = 1
account.1.call_center.show_call_info_time = 30
account.1.call_center.disp_code_enable = 1
account.1.bw_disp_code.1 = 100
account.1.bw_disp_code_name.1 = Promotion A
account.1.call_center.trace_enable = 1
account.1.call_center.emergency_enable = 1
account.1.supervisor_info_code.1 = 4604
account.1.supervisor_info_code_name.1 = Supervisor A
account.1.call_center.queue_status_enable = 1
account.1.call_center.queue_status_light_enable = 1

```

2. Add/Edit feature key synchronization parameters in the configuration template files (e.g., y000000000028.cfg):

```
features.feature_key_sync.enable = 1
```

3. Add/Edit DSS key parameters in the configuration template files:

You can configure a line key as an ACD key, a Disp Code key, an ACD Trace key or an Emergency key (not applicable to SIP-T30P/T30/T19(P) E2 IP phones).

The "X" is an integer which specifies the sequence number of the line key. For SIP-T57W/T48U/T48S/T48G, X=1-29; for VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X=1-27; for SIP-T42U/T42S/T42G/T41S/T41P, X=1-15; for SIP-T53W/T53/T43U/T27G, X=1-21; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

Parameters	Permitted Values
linekey.X.type	Integer
Description: Configures the line key type. 42-ACD 58-ACD Trace (not applicable to VP59/SIP-T58A IP phones) 59-Disp Code (not applicable to VP59/SIP-T58A IP phones) 60-Emergency (not applicable to VP59/SIP-T58A IP phones)	
linekey.X.value	Integer

Parameters	Permitted Values
Description: Configures the value for the Disp Code key or the Emergency key.	
linekey.X.label	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.	

The following shows an example of the ACD Trace key (line key) configuration in a template configuration file (e.g., y000000000028.cfg):

```
linekey.2.type = 58
```

- Customize the static tag on BroadWorks. The tag name is %ACD_LINE_BINARY% and the tag value is 1.

For more information, refer to [Customizing a Static Tag](#).

- Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tag in the template file will be replaced by the actual parameter value. An example is shown as below:

```
account.1.acd.enable = 1
```

Configuring DND for Call Center

The call center is a virtual account, so if you want to enable the DND feature for it, you can enable the DND feature for the virtual account. As a result, all incoming calls to the call center are rejected automatically.

You can configure XSI for the virtual account to subscribe and synchronize the call center status with the server.

Procedure

- Add/Edit ACD parameters in the configuration template files:

Parameters	Permitted Values	Default
bw.virtual_user.1.enable	0 or 1	0
Description: Enables or disables the virtual account for the call center. 0-Disabled		

Parameters	Permitted Values	Default
1-Enabled Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). This parameter is only applicable to phones running firmware version 84 or later.		
bw.virtual_user.1.label	String within 99 characters	Blank
Description: Configures the virtual account label displayed on the phone. Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). This parameter is only applicable to phones running firmware version 84 or later. If you leave it blank, the virtual user name uses VirtualUser1 by default.		
bw.virtual_user.1.xsi.user	String within 99 characters	Blank
Description: Configures the user ID of virtual account for XSI access authentication. Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). This parameter is only applicable to phones running firmware version 84 or later.		
bw.virtual_user.1.xsi.password	String within 99 characters	Blank
Description: Configures the password of virtual account for XSI access authentication. Note: It works only if “bw.xsi.enable” is set to 1 (Enabled) and it is required only when the value of the parameter “sip.authentication_for_xsi” is set to 0 (User Login Credentials for XSI Authentication). This parameter is only applicable to phones running firmware version 84 or later.		
bw.virtual_user.1.xsi.host	IP address or domain name	Blank
Description: Configures the IP address of the Xtended Services Platform server for the virtual account. Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). This parameter is only applicable to phones running firmware version 84 or later.		
bw.virtual_user.1.xsi.server_type	HTTP or HTTPS	Blank
Description: Configures the access protocol of the Xtended Services Platform server for the virtual account. Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). This parameter is only		

Parameters	Permitted Values	Default
applicable to phones running firmware version 84 or later.		
bw.virtual_user.1.xsi.port	Integer from 1 to 65535	80
Description: Configures the port of the Xtended Services Platform server for the virtual account. Note: It works only if “bw.xsi.enable” is set to 1 (Enabled). This parameter is only applicable to phones running firmware version 84 or later.		
bw.virtual_user.1.xsi.dnd.enable	0 or 1	0
Description: Enables or disables the user to control the DND status for the virtual account. 0-Disabled 1-Enabled , user can toggle DND on or off for the virtual account. Note: It works only if “bw.xsi.enable” and “bw.virtual_user.1.enable” are set to 1 (Enabled). This parameter is only applicable to phones running firmware version 84 or later.		

The following shows an example of DND for call center configurations in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
bw.virtual_user.1.enable = 1
bw.virtual_user.1.label = VirtualUser1
bw.virtual_user.1.xsi.dnd.enable = 1
bw.virtual_user.1.xsi.user = 4620@pbx.yealink.com
bw.virtual_user.1.xsi.password = 132456
bw.virtual_user.1.xsi.host = xsp.yealink.com
bw.virtual_user.1.xsi.server_type = HTTP
bw.virtual_user.1.xsi.port = 80
```

2. Upload template boot and configuration files.

Hoteling

Hoteling enables users to use any available host (shared) phone by logging in with user credentials. After logging in, users have access to their own guest profile on the host phone. This is accomplished via a SUBSCRIBE/NOTIFY mechanism with the x-broadworks-hoteling event. Hoteling can be used on a private line only. This feature is not applicable to W52P/W53P/W56P/W60P/W73P/W76P/W79P/CP930W-Base phones/W90.

Configuring the BroadSoft Server

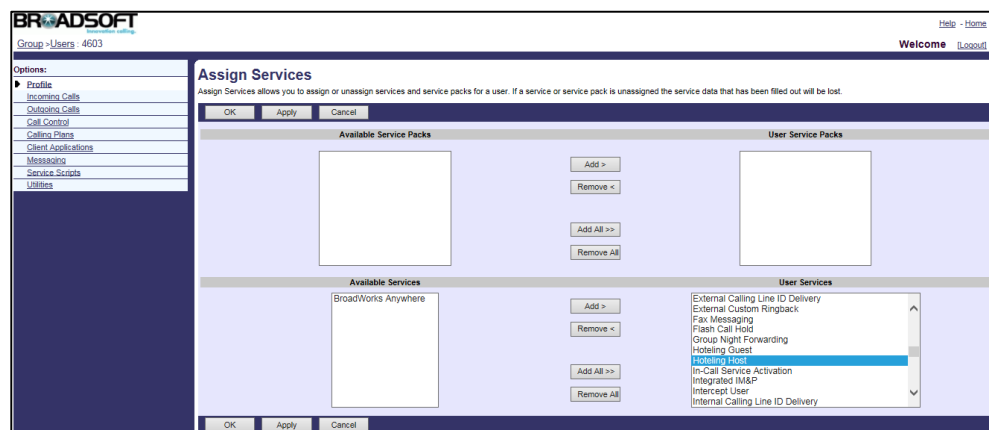
To use Hoteling, you need to first enable Hoteling on the BroadWorks server by creating a host profile and a guest profile. The host profile is the shared phone's default configuration. You can assign guest profiles to users who require hot desking.

Assigning the Hoteling Host Service to a User

This service allows for the designation of a particular user account as a host.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603).
5. Click **Assign Services**.
6. In the **Available Services** box, select **Hoteling Host** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring a Host Profile for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603), who has been assigned the hoteling host service.
5. Click **Call Control->Hoteling Host**.
6. Mark the **On** radio box in the **Hoteling Host** field.

- Check the **Enforce Association Limit <number> Hours** checkbox, and enter the number of hours to use the hoteling guest profile. If unchecked, the hoteling guest is allowed to associate with the hoteling host indefinitely.

- Click **Apply** to accept the change.

Assigning the Hoteling Guest Service to a User

This service allows a user to associate their profile with a Hoteling Host account.

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 4604).
- Click **Assign Services**.
- In the **Available Services** box, select **Hoteling Guest** and then click **Add>**.

- Click **Apply** to accept the change.

Configuring a Guest Profile for the User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4604), who has been assigned the hoteling guest service.
5. Click **Call Control->Hoteling Guest**.
6. Mark the **On** radio box in the **Hoteling Guest** field.
7. Check the **Limit Association to <number> Hours** checkbox, and enter the number of hours to associate with the hoteling host. The number of hours must be equal to or less than the association limit of the hoteling host.
8. Click **Search** to display all available hoteling hosts.
9. In the **Available Hosts** box, select the desired host and then click **Add>**.

10. Click **Apply** to accept the change.

Changing a Portal Password for Hoteling Guest

This portal password is used for authentication when a user logs into a host phone and access their own guest profile. It is also applying for BroadWorks Anywhere.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the hoteling guest added above and then click **Edit**.
5. Click **Profile->Passwords**.
6. Mark the **Set portal password** radio box.
7. Enter the new password in the **Type new password** field.

- Re-enter the new password in the **Re-type new password** field.

- Click **Apply** to accept the change.

For more information on hoteling, refer to *BroadWorks Web Interface Administrator Guide*.

Configuring Yealink IP Phones

After setting up Hoteling on the BroadWorks, you need to configure Hoteling on the IP phone.

Procedure

- Add/Edit Hoteling parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
account.X.hoteling.enable	Boolean	0
Description: Enables or disables hoteling feature for account X. 0 -Disabled 1 -Enabled		
account.X.hoteling.auto_login_enable	Boolean	0
Description: Enables or disables the IP phone to save login credentials automatically for account X when logging into the guest profile. 0 -Disabled 1 -Enabled		
account.X.hoteling.user_id	String within 99 characters	Blank

Parameters	Permitted Values	Default
Description: Configures the user ID used to log in to the guest profile for account X.		
account.X.hoteling.password	String within 99 characters	Blank
Description: Configures the password used to log in to the guest profile for account X.		
features.homescreen_softkey.hoteling.enable	Boolean	1
Description: Enables or disables the IP phone to display the Hoteling soft keys such as GuestIn or GuestOut on the idle screen. 0 -Disabled 1 -Enabled Note: It works only if “account.X.hoteling.enable” is set to 1 (Enabled). It is only applicable to phones (except VP59/SIP-T58A/CP960) running firmware version 83 or later.		
hoteling.authentication_mode	Boolean	0
Description: Configures the hoteling authentication mode. 0 -The phone uses the hoteling user ID and password as authentication credentials. 1 -The phone uses the provisioning user name and password as authentication credentials, and at the same time provides the hoteling user ID and password in the payload of the message for authentication credentials. Note: It works only if “account.X.hoteling.enable” is set to 1 (Enabled). It is only applicable to phones (except VP59/SIP-T58A/CP960) running firmware version 83 or later.		

The following shows an example of the hoteling configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.hoteling.enable = 1
```

- Add/Edit DSS key parameters in the configuration template files:

You can configure a line key as a hoteling key (not applicable to SIP-T30P/T30/T19(P) E2 IP phones).

The “X” is an integer which specifies the sequence number of the line key. For SIP-T57W/T48U/T48S/T48G, X=1-29; for VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X=1-27; for SIP-T42U/T42S/T42G/T41S/T41P, X=1-15; for SIP-T53W/T53/T43U/T27G,

X=1-21; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

Parameters	Permitted Values
linekey.X.type	57
Description: Configures the line key type. 57 -Hoteling.	
linekey.X.label	String within 99 characters
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.	

The following shows an example of the hoteling key (line key) configuration in a template configuration file (e.g., y000000000028.cfg):

```
linekey.2.type = 57
```

3. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

After downloading the configuration files, the IP phone with host user registered can be shared to the guest (e.g., 4604), who can log in to and out of the guest profile on the IP phone. Once users have logged into the guest profile, the shared phone acts exactly like their own phone.

Flexible Seating

Flexible Seating allows users with the flexible seating guest enabled to create an association with the host in a group. The host is a virtual subscriber that you can provision a list of hosts with the phone devices. After the association is successful, the host's phone will be provisioned with the guest's profile settings and is treated as an alternate device of the guest. The registered account is active on both the user's phone and the host's phone. The guest can lock the host's phone.

This feature is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

Note

Flexible Seating feature has similar functionality to the BroadWorks Hoteling feature. But it uses a different licensing model and allows the device to be provisioned with the guest's profile settings.

Associate and disassociate via phone or web portal is available:

Associate and disassociate via phone

If the host's device supports the Hoteling interface, the guest user can create the host-guest association by logging in to the phone and terminate the association by logging out of the phone. When logging in, the phone sends a SIP SUBSCRIBE request to the Application Server to create the host-guest association. The request subscribes to the x-broadworks-hoteling event package with a message body that specifies the guest (identified by the guest user ID). When logging out, the phone sends a SIP SUBSCRIBE request to the Application Server to disassociate from the host. The request subscribes to the x-broadworks-hoteling event package with a null guest address in the message body. The Application Server accepts the request and terminates the association. It sends a NOTIFY request to the phone for disassociation confirmation.

Associate and disassociate via web portal

Associating a guest user with a host is done on the Flexible Seating Guest page via the web portal. The system administrator navigates to the Flexible Seating Guest page and selects a host from the list of available hosts. Available hosts are Flexible Seating Host user accounts that are active, not associated with other guest users, have access levels that permit the guest to see the host, and have the same device profile type as the Flexible Seating Guest service's device profile type. Disassociating a guest from a host is accomplished from the same web pages.

After the host-guest association is established, the Application Server sends a reset NOTIFY request that triggers the host device to download the device files provisioned for the Flexible Seating Guest service, the host device is treated as an alternate device of the guest.

Flexible Seating Host/Guest Identity Device Profile

The Flexible Seating Host/Guest service must have an identity/device profile. The identity/device profile specifies the guest device files that the host's device download when the guest is associated with a host.

When associating the guest with a host, it is required that the device type of the identity/device profile assigned to the Flexible Seating Guest service matches the device type of the Flexible Seating Host's identity/device profile. For more information, refer to [Configuring Device Management on BroadWorks](#).

It is recommended that a Device Management file configuration template (for example, y000000000000.boot) should not contain any file references that contain device-identifying tags within the dynamic per-device file name. For more information, refer to [Uploading Device Template Files](#).

Flexible Seating Host-Guest Association Time Limit and Association Duration

The Flexible Seating Guest service allows the user to specify the maximum duration of the host-guest association. The maximum duration of the host-guest association can be configured by host and guest. When associating a guest with a host, the host-guest association duration is subject to the restrictions of both the association time limits of host and guest. As the following table enumerates cases shown:

Host		Guest		Association Duration
Enforce Association Limit	Association Limit (0-999)	Enable Association Limit	Association Limit (0-999)	
ON	a	ON	b	a, if $a \leq b$ b, if $a > b$
ON	a	OFF		a
OFF		ON	b	b
OFF		OFF		No limit

Unlock Phone PIN Code

A Flexible Seating Guest service allows the user to specify a PIN code for unlocking the phone. When a guest user creates an association with a host, the host device downloads the device files of the guest. If provisioned, this Unlock Phone PIN code is provided to the phone device via the device configuration files. If the Unlock Phone PIN code is set, the host phone can allow the guest user to lock the phone. The host-guest association cannot be disassociated via the phone until the phone is unlocked using the Unlock Phone PIN code.

Configuring the BroadSoft Server

Configuring the Flexible Seating Host

Creating a Virtual Account to be Flexible Seating Host

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Services->Flexible Seating Host**.
3. Click **Add**.
4. Set the parameters of Flexible Seating host.

The following shows an example:

Flexible Seating Host ID:	240028@yealink.com
Name:	240028
Calling Line ID Last Name:	HostL
Calling Line ID First Name:	HostF
Department:	None
Language:	English
Time Zone:	(GMT+08:00) PRC
Network Class of Service:	None

- Click **OK** to accept the change.

Configuring the Flexible Seating Host

Procedure

- Log in to the web portal as a group administrator.
- Click **Services->Flexible Seating Host**.
- Click **Search** to display all existing host.
- Click the desired host.
- Click **Addresses**.
- Set the parameters of flexible seating host.

The following shows an example:

Phone Number: 240028
 Extension: 0028
 Identity/Device Profile: Marked
 Identity/Device Profile Name: 240028 (Group)
 Line/Port: 240028@ylas.yealink.com

For more information about Identity/Device Profile, refer to [Creating the Device Profile Type](#).

- Click **Apply** to accept the change.
- Click **Configure Identity/Device Profile** to configure the device profile to the host.

- Copy the device type URL from the **Device Type URL** field. And then remember the device access user name and password.

The screenshot shows the 'Identity/Device Profile Modify' web interface. The 'Device Type URL' field is highlighted with a red box. Below it, the 'Authentication' section is visible, with the 'Use Custom Credentials' option selected. The 'Device Access User Name' and 'Device Access Password' fields are also highlighted with a red box.

- Click **Files** to edit the boot file and configuration files.

You can download the template configuration file (e.g., %BWMACADDRESS%.cfg) firstly, and then configure the CFG file to make sure ACD and hoteling feature are disabled, and Flexible Seating feature is enabled. Then upload the new %BWMACADDRESS%.cfg file to BroadWorks. For more information, refer to [Uploading Device Template Files](#).

Configuring the Phone for the Host

Procedure

- Log in to the web user interface.
The default administrator user name and password are both "admin" (case-sensitive).
- Click **Settings->Auto Provision**.
- Paste **Device Type URL** that you copy in step 9 above in the **Server URL** field.
- Enter **Device Access User Name** that you remember in step 9 above in the **User Name** field.

- Enter **Device Access Password** that you remember in step 9 above in the **Password** field.

The screenshot shows the Yealink T46G web portal interface. The 'Settings' tab is selected, and the 'Auto Provision' section is active. The following fields are visible:

- PNP Active: ☒ On ☐ Off
- DHCP Active: ☒ On ☐ Off
- Custom Option(128~254): [Empty]
- DHCP Option Value: yealink
- Server URL: https://yjsp.yealink.com:443/dms/Yea (highlighted)
- User Name: 240028 (highlighted)
- Password: [Redacted] (highlighted)
- Attempt Expired Time(s): 5
- Common AES Key: [Redacted]
- MAC-Oriented AES Key: [Redacted]
- Zero Active: Enabled
- Wait Time(1~100s): 10
- Power On: ☒ On ☐ Off
- Repeatedly: ☐ On ☒ Off
- Interval(Minutes): 1440
- Weekly: ☐ On ☒ Off
- Weekly Upgrade Interval(0~12week): 4
- Inactivity Time Expire(0~120min): 0
- Time: 00 : 00 -- 00 : 00
- Day of Week: ☒ Sunday, ☒ Monday, ☒ Tuesday, ☒ Wednesday, ☒ Thursday, ☒ Friday, ☒ Saturday
- Flexible Auto Provision: ☐ On ☒ Off
- Flexible Interval Days: 30
- Flexible Time: 02 : 00 -- : :

A red box highlights the 'Server URL', 'User Name', and 'Password' fields. The 'Auto Provision Now' button is located at the bottom of the form.

NOTE
Auto Provision
 The IP phone can interoperate with provisioning server using auto provisioning for deploying the IP phones.
 When the IP phone triggers to perform auto provisioning, it will request to download the configuration files from the provisioning server. During the auto provisioning process, the IP phone will download and update configuration files to the phone flash.
 You can click here to get more guides.

- Click **Autoprovision Now**.

Configuring the Association Limit Time of Host

Procedure

- Log in to the web portal as a group administrator.
- Click **Services->Flexible Seating Host**.
- Click **Search** to display all existing host.
- Click the desired host.
- Click **Guest Association**.
- Check the **Enforce Association Limit <Number> Hours** checkbox, and then configure the limit time for the guest.

If the association limit is not enforced, the guest user is allowed to associate with the host indefinitely. The time limit is not allowed until the association is terminated.

- Click **Apply** to accept the change.

Viewing the Host-guest Association for a Guest

Procedure

- Log in to the web portal as a group administrator.
- Click **Services->Flexible Seating Host**.
- Click **Search** to display all existing host.
- Click the desired host.
- Click **Guest Association**.

Configuring the Flexible Seating Guest

Assigning the Flexible Seating Guest Service to a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 240029).
- Click **Assign Services**.

6. In the **Available Service** box, select **Flexible Seating Guest** and then click **Add>**.

7. Click **Apply** to accept the change.

Configuring the Flexible Seating Guest for a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240029).
5. Click **Call Control->Flexible Seating Guest**.
6. Set the parameters of flexible seating guest.

The following shows an example:

Flexible Seating Guest: On
 Unlock Phone PIN Code: 1234
 Identity/Device Profile Name: 240029_1 (Group)
 Line/Port: 240029_1 @ylas.yealink.com

For more information about Identity/Device Profile, refer to [Creating the Device Profile Type](#).

7. Click **Apply** to accept the change.

8. Click **Configure Identity/Device Profile** to configure the device profile of the host.
9. Click **Files** to edit the boot file and configuration files.

You can download the template configuration file (e.g., %BWMACADDRESS%.cfg) firstly, and then configure the CFG file to make sure flexible seating feature is enabled. Then upload the new %BWMACADDRESS%.cfg file to BroadWorks. For more information, refer to [Uploading Device Template Files](#).

Creating the Host-guest Association

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240029).
5. Click **Call Control->Flexible Seating Guest**.
6. Click **Host Association**.
7. (Optional.) Check the **Limit Association to X Hours**, and then configure the limit time for the guest.

The time limit is not allowed until the association is terminated.

8. Click **Search** to search the available hosts.
9. In the **Available Hosts** box, select the desired host and then click **Add>**.

- Click **Apply** to accept the change.

The Association Date and Association Expiry display on the screen.

Configuring Yealink IP Phones

Procedure

- Add/Edit Flexible Seating parameters in the configuration template files:

The “X” in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
account.X.hoteling.mode	%BWHOT ELINGMO DE-X%	0
Description: Configures the hoteling mode for account X. 0 -Disabled 1 -Hoteling 2 -Flexible Seating Host 3 -Flexible Seating Guest		
account.X.flexible_seating.enable	Boolean	0
Description: Enables or disables the flexible seating feature for account X.		

Parameters	Permitted Values	Default
0-Disabled 1-Enabled Note: For the host, It works only if “account.X.hoteling.enable” and “account.X.acd.enable” are set to 0 (Disabled).		
account.X.hoteling.pin	%BWFLEXIBLESEATINGUNLOCKPIN-X%	Blank
Description: Configures the flexible seating PIN for account X.		
account.X.hoteling.auto_login_enable	Boolean	0
Description: Enables or disables the IP phone to save login credentials automatically for account X when logging into the guest profile. 0-Disabled 1-Enabled		
account.X.hoteling.user_id	String within 99 characters	Blank
Description: Configures the user ID used to log in to the guest profile for account X.		
account.X.hoteling.password	String within 99 characters	Blank
Description: Configures the password used to log in to the guest profile for account X.		
auto_provision.server.url	URL within 511 characters	Blank
Description: Configures the device type URL of the provisioning server for the host.		
auto_provision.server.username	String within 32	Blank

Parameters	Permitted Values	Default
	characters	
Description: Configures the device access user name of provisioning server for the host.		
auto_provision.server.password	String within 32 characters	Blank
Description: Configures the device access password of provisioning server for the host.		
features.homescreen_softkey.hoteling.enable	Boolean	1
Description: Enables or disables the IP phone to display the Flexible Seating soft keys such as GuestIn on the idle screen. 0 -Disabled 1 -Enabled Note: It works only if “account.X.flexible_seating.enable” is set to 1 (Enabled). It is only applicable to phones (except VP59/SIP-T58A/CP960) running firmware version 83 or later.		
bw.flexible_seating.remember_password ldap.enable	Boolean	0
Description: Enables or disables the IP phone to save and use LDAP directory user credentials when using flexible seating feature. 0 -Disabled 1 -Enabled Note: It works only if “account.X.flexible_seating.enable” is set to 1 (Enabled). The IP phone can record up to 100 user credentials. If you disable this feature, all saved user credentials are cleared. It is only applicable to phones running firmware version 84 or later.		

The following shows an example of the flexible seating configuration in a template configuration file of host (e.g., %BWMACADDRESS%.cfg):

```
account.1.flexible_seating.enable = 1
account.1.hoteling.mode = %BWHOTELINGMODE-1%
auto_provision.server.url = https://ylxsp.yealink.com:443/dms/YealinkT46G/
auto_provision.server.username = 240028
```



```
auto_provision.server.password = 123456
```

The following shows an example of the flexible seating configuration in a template configuration file of guest (e.g., %BWMACADDRESS%.cfg):

```
account.1.flexible_seating.enable = 1
```

```
account.1.hoteling.mode = %BWHOTELINGMODE-1%
```

```
account.1.hoteling.pin = %BWFLEXIBLESEATINGUNLOCKPIN-1%
```

```
account.1.hoteling.auto_login_enable = 1
```

```
account.1.hoteling.user_id = 240029
```

```
account.1.hoteling.password = 123456
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Centralized Call Recording

BroadWorks provides Centralized Call Recording features to the phones including the abilities to obtain recording status and control the recording. The IP phones send the *record-aware* option tag in the Supported and/or Required header of the INVITE message to indicate support for sending and receiving the SDP attributes “recordpref” and “record”, which are used to request recording preferences and to obtain the recording state. This feature is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

You can configure the recording mode to record all calls, or to selectively record calls that are operated by a user, or to never record calls when a user makes or receives it.

The following call recording modes are supported:

Recording Mode	Recording State	Recording Options
Always	All the calls will be recorded and saved automatically when the call is set up. Call setup: The BroadWorks sends a re-INVITE without SDP to set up the recording. The phone responses with 200 OK and offers SDP, and then receives ACK with SDP from BroadWorks contains an “a=record” attribute with the setting “on”.	None
Always with Pause/Resume	All the calls will be recorded and saved automatically when the call is set up. The user can pause and resume the recording. Call setup: The BroadWorks sends a re-INVITE with SDP contains an “a=record” attribute with the setting “on”. The phone response with 200 OK and answer SDP.	PauseREC/ResumeREC

Recording Mode	Recording State	Recording Options
	<p>Pause recording: The phone sends a re-INVITE (or UPDATE) SDP contains an “a=recordpref” attribute with setting “pause” to BroadWorks to pause recording, and BroadWorks responds a 200 OK with SDP contains an “a=record” attribute with the setting “paused”.</p> <p>Resume Recording: the phone sends a re-INVITE (or UPDATE) SDP contains an “a=recordpref” attribute with the setting “on” to BroadWorks, and BroadWorks responds a 200 OK with SDP contains an “a=record” attribute with the setting “on”</p>	
On Demand	<p>All the calls will be recorded, but not be saved automatically when the call is set up. The user can save the recording manually. Once the recording is saved, the user can pause and resume the recording.</p> <p>Call setup: The BroadWorks sends a re-INVITE without SDP to set up the recording. The phone responses with 200 OK and offers SDP, and then receives ACK with SDP from BroadWorks contains an “a=record” attribute with the setting “off”.</p> <p>Save recording: The phone sends re-INVITE (or UPDATE) SDP contains an “a=recordpref” attribute with the setting “on”, and BroadWorks responds a 200 OK with SDP contains an “a=record” attribute with the setting “on”.</p> <p>Pause recording: The same as Always with Pause/Resume Mode mentioned above.</p> <p>Resume Recording: The same as Always with Pause/Resume Mode mentioned above.</p>	<p>StartREC</p> <p>PauseREC/ResumeREC (appears when the recording is saved)</p>
On Demand with User Initiated Start	<p>All the calls are not recorded automatically when the call is set up.</p> <p>The user can start/stop or pause/resume recording during a call manually.</p> <p>Start recording: The phone sends a</p>	<p>StartREC/StopREC</p> <p>PauseREC/ResumeREC (appears when the recording is started)</p>

Recording Mode	Recording State	Recording Options
	<p>re-INVITE (or UPDATE) SDP contains an “a=recordpref” attribute with setting “on”. The BroadWorks responds a 200 OK with hold SDP, and then sends a re-INVITE SDP contains an “a=record” attribute with the setting “on”.</p> <p>Pause recording: The same as Always with Pause/Resume Mode mention above.</p> <p>Resume Recording: The same as Always with Pause/Resume Mode mention above.</p> <p>Stop recording: The phone sends re-INVITE (or UPDATE) SDP contains an “a=recordprdf” attribute with setting “off”. The BroadWorks responds with a 200 OK with SDP contains an “a=record” attribute with setting “off”.</p>	
Never	All the calls are not recorded. The phone intelligently chooses not to supply the record-aware option. The SDP from the BroadWorks does not contain the record attribute.	None

Note

Before configuring Centralized Call Recording under XSI mode, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the recording status can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

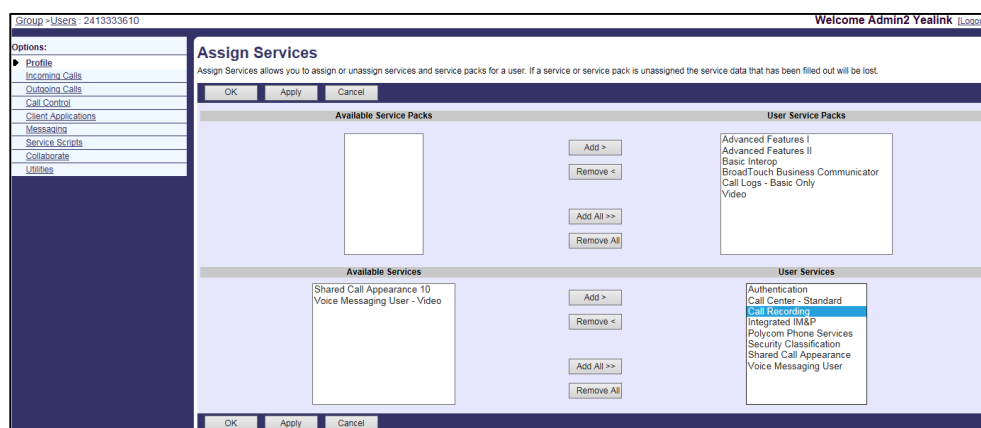
Configuring the BroadSoft Server

Assigning the Centralized Call Recording Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 2413333610).
5. Click **Assign Services**.

6. In the **Available Services** box, select **Call Recording** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring Call Recording for a User

You can select a recording mode, specify whether to notify the callers that the call is recorded.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 2413333610).
5. Click **Call Control->Call Recording**.



6. Select the desired recording mode (Always, Always with Pause/Resume, On Demand, On Demand with User Initiated Start or Never) in the Record Call field.
7. Configure the following parameter for recording.

Parameter	Description
Play Call Recording Start/Stop	Enables or disables to play start/stop

Parameter	Description
Announcement	announcement when the recording starts or ends. In the Always, Always with Pause/Resume or On Demand recording mode, the call recording starts automatically when the user makes or receives a call, and the call recording start announcement is played to notify all parties that the call is being recorded.

8. Mark the desired notification when the recording is paused in the **Pause/Resume Notification** field.
9. Check the **Repeat Record Call Warning Tone** checkbox and then enter the time interval in the next field.
10. Click **Apply** to accept the change.

Configuring Yealink IP Phones

Procedure

1. Add/Edit record parameters in the configuration template files:

The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
account.X.call_recording.enable	Boolean	0
Description: Enables or disables the centralized call recording feature for account X. 0 -Disabled 1 -Enabled		
bw.call_recording.mode	Boolean	1
Description: Configures the centralized call recording mode. 0 -XSI 1 -SIP		

The following shows an example of the Centralized Call Recording configuration in a template configuration file of the host (e.g., %BWMACADDRESS%.cfg):

```
account.1.call_recording.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Note

Before configuring Centralized Call Recording, please make sure the USB recording is disabled (the value of the parameter "features.usb_call_recording.enable" is set to 0).

Executive and Assistant

Executive and Assistant feature provides a new solution for executive/assistant interworking. The executive can filter and screen the incoming calls, and the calls are routed to the assistant. This feature is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

A user becomes an executive when the Executive service is assigned. The executive can configure the following Executive services:

Executive Service	Description
Assistants	Configure a list of assistants that are assigned to the executive, and set whether or not the assistants can opt in or opt out.
Call Filtering	Specify which incoming calls to be filtered. The executive service filters the calls and routes them to the assistant. The assistant is treated as a network location for the executive, and a SIP INVITE is sent towards the assistant over the network interface. "Diversion" header is added with the "reason" parameter set to "follow-me".
Call Screening	Configure the alert type and specific location for screening. The executive will not be alerted when call screening is disabled by filtering calls. Two alert types are available: Silent: The executive's access device locations are alerted with silent alerting by including Alert-Info: <http://127.0.0.1/silent> header in the SIP INVITE. Ring Splash: The executive's access device locations are alerted with silent alerting by including Alert-Info: <http://127.0.0.1/Bellcore-dr5> header in the SIP INVITE. Three optional alert locations available: Mobility Location: The executive's BroadWorks Mobility (BM) location can only be alerted for screening if it is enabled. It is available when the BroadWorks Mobility service is assigned. Anywhere Locations: The executive's BroadWorks Anywhere

Executive Service	Description
	<p>locations can only be alerted for screening if it is enabled. It is available when the BroadWorks Anywhere service is assigned. Refer to BroadWorks Anywhere for more information.</p> <p>Call Appearance Locations: The executive's Shared Call Appearance (SCA) locations can only be alerted for screening if it is enabled. It is available when the Shared Call Appearance (SCA) service is assigned. Refer to Shared Call Appearance for more information.</p> <p>Alert type does not apply to Broadworks Anywhere and Broadworks Mobility location.</p> <p>Note: Call screening will not take effect when call filtering is disabled.</p>
Call Alerting	<p>Configure the alerting feature for assigned assistants, call push and rollover action when the filtered call is not answered successfully by an assistant.</p> <p>Once the assistant pushes a call to the executive, the call is released and a SIP BYE is sent to the executive.</p>

A user becomes an assistant when the Executive-Assistant service is assigned. The assistant can then configure the following Executive-Assistant services:

Executive-Assistant Service	Description
Divert	Configure whether to divert the filtered calls, and the address to divert filtered calls to. It is essentially the same as the Call Forwarding Always service except that it only applies to filtered calls.
Opt-in/Opt-out	Configure whether they have opted in or opted out for the assigned executive.
Executive Settings	Access and modify the filtering, screening, and alerting components of the Executive service configuration for the executive.

Note

Before configuring Executive and Assistant feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the executive and assistant configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

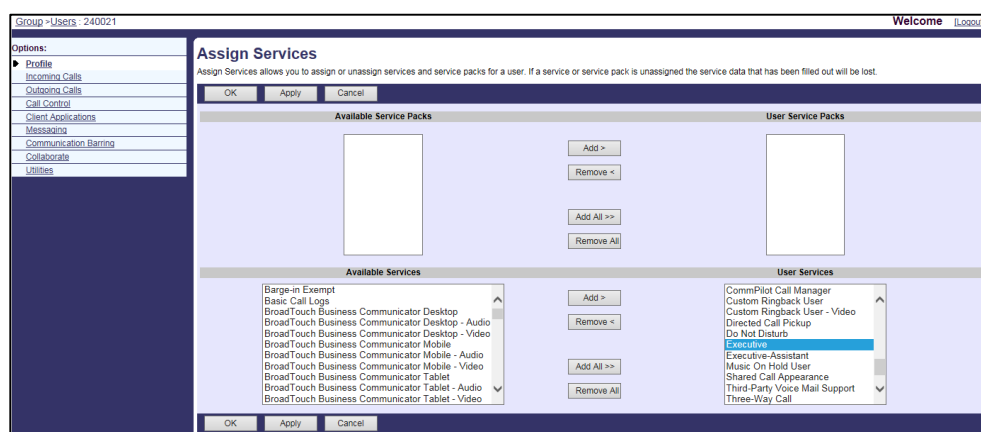
Configuring the BroadSoft Server

Configuring the Executive Feature

Assigning the Executive Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Assign Services**.
6. In the **Available Service** box, select **Executive** and then click **Add>**.



7. Click **Apply** to accept the change.

Configuring a List of Assistants for an Executive

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Call Control->Executive**.
6. (Optional.) Check the **Allow Assistants to Opt-in/Opt-out of Pool** checkbox.

If the **Allow Assistants to Opt-in/Opt-out of Pool** is checked, the assistants can opt in or opt out for executive. If the **Allow Assistants to Opt-in/Opt-out of Pool** is unchecked, the status of all assigned assistants is reset to opt in.

- In the **Available Assistants** box, select the desired user and then click **Add>** to assign the user to the executive.

- Click **Apply** to accept the change.

Assigning Multiple Call Arrangement Service to an Executive

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 240021).
- Click **Assign Services**.
- In the **Available Service** box, select **Multiple Call Arrangement** and then click **Add>**.

- Click **Apply** to accept the change.

Configuring the Call Filtering for an Executive

If the Multiple Call Arrangement service is not assigned to an executive, then Executive Call Filtering feature is always disabled.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Call Control->Executive**. And then click the **Filtering** tab.
6. Mark the **On** radio box in the **Call Filtering** field.

7. Select the desired filtering mode from the **Call Filtering Mode** field.
 - a) If you select the **Simple** mode, you can mark the corresponding radio box from the **Filter Type** field.
 - All Calls** – The call is always filtered.
 - All Internal Calls** – The call is filtered if it is an internal call.
 - All External Calls** – The call is filtered if it is an external call.
 - b) If you select the **Advanced** mode, click **Add**, you can add the call filtering criteria used in advanced mode.

The following shows an example:

Description:	Depart-A
Filter call:	Selected
Selected Time Schedule:	Every Day All Day
Selected Holiday Schedule:	None
Calls from:	Any phone number

Calls to:

Primary (240021/0021)

8. Click **OK** to accept the change.

Configuring the Call Screening for an Executive

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Call Control->Executive**. And then click the **Screening** tab.
6. Mark the **On** radio box in the **Call Screening** field.
7. Select **Silent** or **Ring Splash** from the **Alert Type** field.

Alert type does not apply to BroadWorks Anywhere and BroadWorks Mobility location.

8. (Optional.) Check the desired checkbox in the **Alert BroadWorks Mobility Location**, **Alert BroadWorks Anywhere Locations** or **Alert Shared Call Appearance Locations** checkbox field.

They appear when the **BroadWorks Mobility**, **BroadWorks Anywhere** or **Shared Call Appearance (SCA)** service is assigned.

If the checked location does not exist, call screening is essentially disabled and only the assistants are alerted for the filtered call.

9. Click **Apply** to accept the change.

Configuring the Call Alerting for an Assistant

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Call Control->Executive**. And then click the **Alerting** tab.
6. Mark the desired radio box in the **Alerting Mode** field.
 - **Simultaneous**: the opted-in assistants' phones will ring simultaneously.
 - **Sequential**: the opted-in assistants' phones will ring sequentially.

Select the desired value from the drop-down menu of **Advance to Next Assistant After :<number>Rings** field.

7. Mark the desired radio box in the **Alerting Calling Line ID Name** field.

Select the desired name to use for presentation identity:

- **Executive Name**: the executive's presentation identity name is used without privacy applied.
- **Originator Name**: the originator's presentation identity name is used without privacy applied.
- **Executive-Originator Name**: The originator's presentation identity name is appended to the executive's presentation identity name with a "-" separator between them. The executive's name does not have privacy applied, but the originator's name has privacy applied according to the originator's requested privacy.
- **Originator-Executive Name**: The executive's presentation identity name is appended to the originator's presentation identity name with a "-" separator between them. The executive's name does not have privacy applied, but the originator's name has privacy applied according to the originator's requested privacy.

- **Custom:** Custom a name to use for presentation identity. The custom name does not have privacy applied.
 - Enter the desired value in the **Alerting Custom Calling Line ID Name** field.
 - (Optional.) Enter the desired value in the **Unicode Alerting Custom Calling Line ID Name** field.
8. Mark the desired radio box in the **Alerting Calling Line ID Number** field.
- Select the desired number to use for presentation identity:
- **Executive Number:** the executive's presentation identity number is used without privacy applied.
 - **Originator Number:** the originator's presentation identity number is used with privacy applied according to the originator's requested privacy.
 - **Custom:** Custom a number to use for presentation identity. The custom number does not have privacy applied.
- Enter the desired value in the **Alerting Custom Number** field.
9. Select the desired value from the drop-down menu of **Call Push Recall After:<number> Rings**.
- The push call will be recalled to the assistant when the timer expires.
10. (Optional.) Check the **Rollover After Waiting:<number> seconds** checkbox. And configure the expired time to trigger the rollover action.
11. Mark the desired radio box in the **Rollover Action** field.

The screenshot shows the 'Executive' configuration page in the BroadSoft web portal. The page is titled 'Executive' and has a subtitle 'Executive allows a user to define an assistant pool that will answer calls for the user. The executive can configure call filtering, screening and alerting.' The page has a navigation bar with 'OK', 'Apply', and 'Cancel' buttons. The main content area is divided into four tabs: 'Assistants', 'Filtering', 'Screening', and 'Alerting'. The 'Alerting' tab is selected. Under the 'Alerting' tab, there are several settings: 'Alerting Mode' (radio buttons for 'Simultaneous' and 'Sequential'), 'Alerting Calling Line ID Name' (radio buttons for 'Executive Name', 'Executive-Originator Names', 'Originator-Executive Names', 'Originator Name', and 'Custom'), 'Alerting Calling Line ID Number' (radio buttons for 'Executive Number', 'Originator Number', and 'Custom'), 'Call Push Recall After' (a dropdown menu set to '4 Rings'), 'Rollover After Waiting' (a checkbox checked with a value of '30' seconds), and 'Rollover Action' (radio buttons for 'Voice Messaging', 'Forward to Phone Number / SIP-URI', and 'No Answer Processing'). The page also has a sidebar on the left with 'Options:' and a list of links: 'Profile', 'Incoming Calls', 'Outgoing Calls', 'Call Control', 'Client Applications', 'Messaging', 'Communication Barriers', 'Collaborate', and 'Utilities'. The top right corner has a 'Welcome' message and a 'Logout' link.

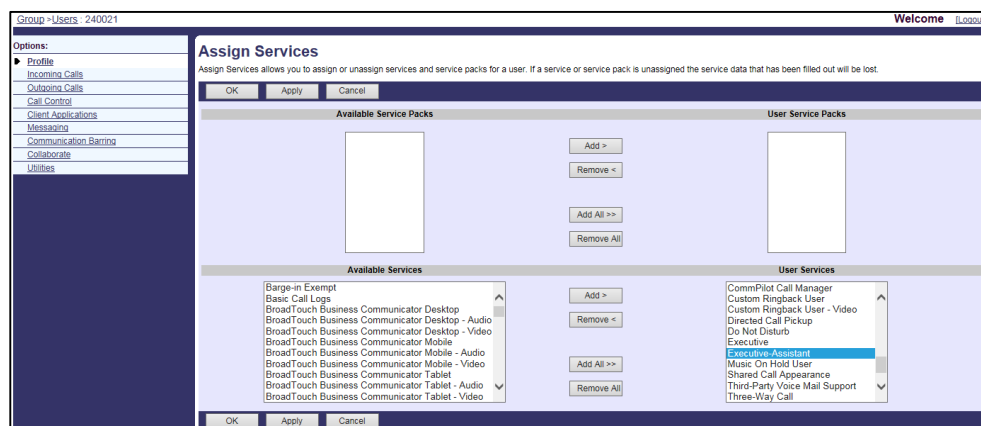
12. Click **Apply** to accept the change.

Configuring the Executive-Assistant Feature

Assigning the Executive-Assistant Service to a User

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.

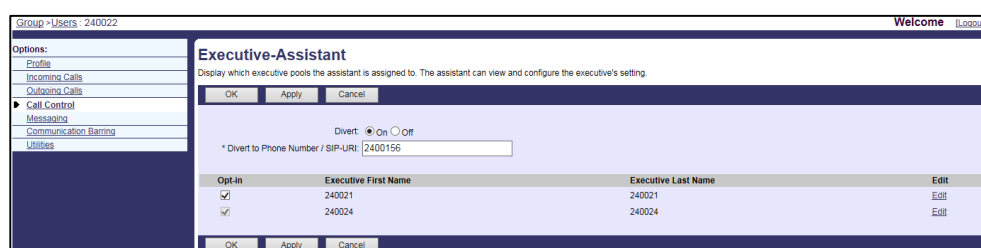
- Click **Search** to display all existing users.
- Select the desired user (e.g., 240022).
- Click **Assign Services**.
- In the **Available Service** box, select **Executive-Assistant** and then click **Add>**.



- Click **Apply** to accept the change.

Configuring the Assistant Feature for an Assistant

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 240022).
- Click **Call Control->Executive-Assistant**.
- Mark the **On** radio box in the **Divert** field.
- Enter the phone number or SIP-URI in the **Divert to Phone Number / SIP-URI** field.



- In the executive list, check the **Opt-in** checkbox before the desired executive name.
The **Opt-in** checkbox is checked and non-editable when the executive does not allow an assistant to opt-in/opt-out (refer to [Configuring the Executive Feature](#)).

Changing Filtering, Screening or Alerting for an Executive

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.

4. Select the desired user (e.g., 240022).
5. Click **Call Control->Executive-Assistant**.
6. Click **Edit** behind the corresponding executive.
7. Click the desired tab to edit.

Group: Users: 240022

Options: Profile, Incoming Calls, Outgoing Calls, Call Control, Messaging, Communication Barriers, Utilities

Executive

Allows an executive assistant to configure the executive's setting on behalf of the executive.

OK Apply Add Cancel

Filtering Screening Alerting

Executive Name: 240021, 240021
 Call Filtering: ☒ On ☐ Off
 Call Filtering Mode: ☒ Simple ☐ Advanced
 Filter Type: ☒ All Calls ☐ All Internal Calls ☐ All External Calls

Call Filtering Criteria Used in Advanced Mode:

Active	Description	Filter	Calls from	Calls to	Edit
<input checked="" type="checkbox"/>	Depart-A	Yes	All calls	Primary	Edit

OK Apply Add Cancel

8. Click **Apply** to accept the change.

Security Classification

The Security Classification service allows BroadWorks to classify a user's calls with a security classification level. It enables users to be conscious of the maximum level of classified information that can be exchanged in the conversation.

When the security classification level is assigned, the BroadWorks sends SIP INFO of this security classification level to the phone and the phone displays it to the user. The user can modify the assigned security classification level to a value lower than their assigned level while in an active call. This is implemented by a SIP SUBSCRIBE from the phone. If this modification affects the current security classification level for the call, then BroadWorks notifies the phone of the new security classification level for the call and the phone displays it to the user.

The BroadWorks provides five security classification levels from low to high:

Unclassified<Classified<Restricted<Secret<Top Secret.

This feature is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

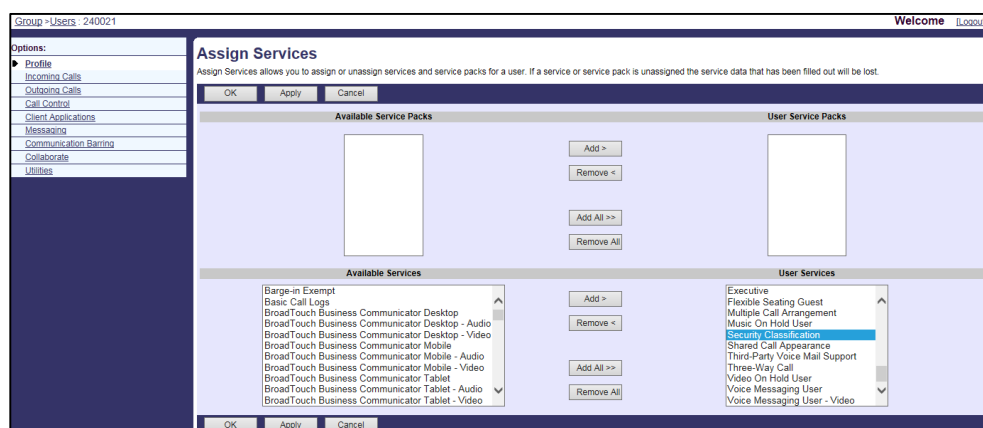
Configuring the BroadSoft Server

Assigning the Security Classification Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Assign Services**.

- In the **Available Service** box, select **Security Classification** and then click **Add>**.

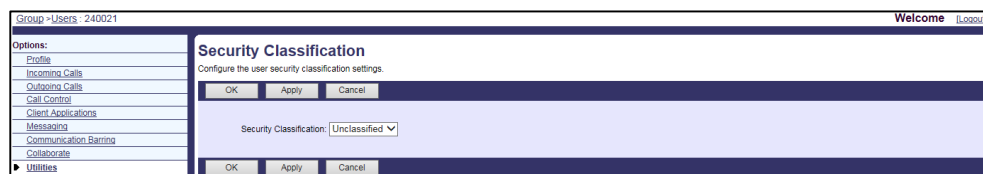


- Click **Apply** to accept the change.

Assigning Security Classification Levels for a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 240021).
- Click **Utilities->Security Classification**.
- Select the desired security level from the drop-down menu of **Security Classification**.



- Click **Apply** to accept the change.

Configuring Yealink IP Phones

Procedure

- Add/Edit Security Classification parameters in the configuration template files:

The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920/CP960, X=1.

Parameters	Permitted Values	Default
account.X.security_classification.enable	Boolean	0
Description: Enables or disables security classification feature for account X. 0 -Disabled 1 -Enabled		

The following shows an example of the Security Classification configuration in a template configuration file (e.g., %BWMACADDRESS%.cfg):

```
account.1.security_classification.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

BroadWorks Mobility

BroadWorks Mobility is a flexible solution that extends the BroadWorks Centrex features transparently to the mobile network. It enables a BroadWorks user to use a mobile device to use BroadWorks enhanced services.

This feature is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

Note

Before configuring Broadworks Mobility feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Broadworks mobility personal configurations can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

Configuring the BroadSoft Server

Assigning BroadWorks Mobility Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603).
5. Click **Assign Services**.

6. In the **Available Service** box, select **Broadworks Mobility** and then click **Add>**.

7. Click **Apply** to accept the change.

Configuring Broadworks Mobility Feature for a User

You can activate/deactivate Broadworks Mobility, assign mobile phone numbers and other custom settings for the mobile device.

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 4603).
5. Click **Call Control->Broadworks Mobility**.
6. Mark **On** radio box in the **Broadworks Mobility** field.
7. Mark the desired radio box in the **Phone to Ring** field.
8. Enter your mobile number in the **Mobile Number** field.
9. Configure the following parameters for the mobility feature.

Parameter	Description
Alert for Click-to-Dial calls	Specifies whether to alert the mobile location when the primary location receives an incoming call.
Alert for Group Paging calls	Specifies whether to alert the mobile location when the primary location receives a group paging call.
Enable Diversion Inhibitor	Specifies whether the mobile location to diver

Parameter	Description
	a call of primary location.
Require Answer Confirmation	Specifies whether to prompt the user to enter a confirmation digit before completing the mobile call answered by the use.
Use Broadworks-based Call Control Services	Specifies whether call control is performed by BroadWorks and not by the mobile device.

10. Set the parameters of Broadworks mobility in the **Broadworks Mobility Configuration** block.

Use Group Settings: Marked

Deny Call Originations: Checked

Deny Call Terminations: Checked

11. Click **Apply** to accept the change.

Call Decline Policy

Call Decline Policy allows the user to terminate ringing at all Shared Call Appearance (SCA), Flexible Seating Guest, and BroadWorks Mobility locations in addition to the primary location. When one device sends a SIP “486 Busy” response, the call receives “Busy” treatment. If a response other than a “486 Busy” (such as 403 or 603) response is received, the call is not declined and the remaining device continues to ring/alert. If Call Forwarding Busy or Voice Messaging services are configured, then the call is redirected to one of these services.

This policy does not apply to the following scenarios:

- Automatic Callback
- Call Transfer Recall
- Automatic Hold/Retrieve Recall
- Call Park Recall
- Executive-Assistant Call Push Recall

When a location declines the call in the context of these scenarios, the other locations continue to be alerted. This policy does not apply to the Executive service when the executive is configured to screen calls. Refer to [Executive and Assistant](#) for more information.

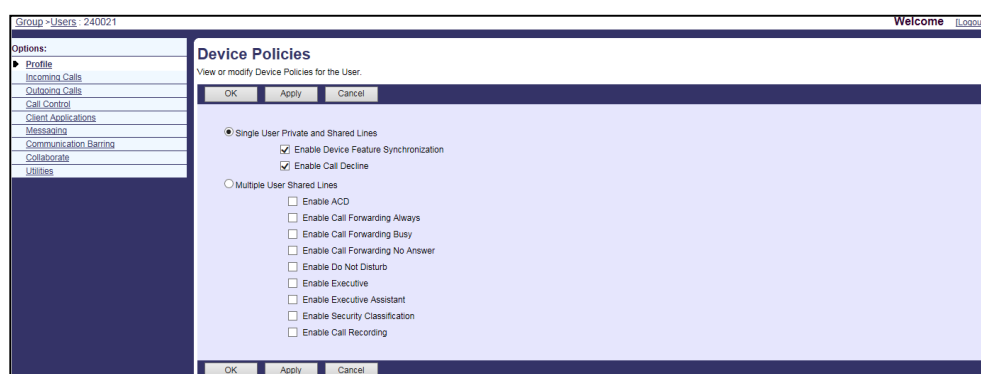
This feature is not applicable to CP930W-Base, CP960, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

Configuring the BroadSoft Server

Assigning the Call Decline Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240021).
5. Click **Device Policies**.
6. In the **Single User Private and Shared Lines** block, check the **Enable Call Decline** checkbox.



7. Click **Apply** to accept the change.

Configuring Yealink IP Phones

Procedure

1. Add/Edit Call Decline parameters in the configuration template files:

The "X" in the parameter is an integer which specifies the line number on the IP phone. For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42S/T42G, X=1-12; for SIP-T41S/T41P/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2/CP920, X=1.

Parameters	Permitted Values	Default
features.call_decline.enable	Boolean	0
Description: Enables or disables call decline feature. 0 -Disabled 1 -Enabled		
account.X.features.call_decline.enable	%BWDFS-CALL-DECLINE-BINARY-X%	Blank
Description: Enables or disables call decline feature for account X. 0 -Disabled 1 -Enabled		

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Emergency Call

In North America, emergency calling has distinct functionality allowing the operator to identify and communicate with a calling party making an emergency call. Yealink IP phone supports emergency dial plan and E911 (Enhanced 911).

Emergency dialplan allows users to dial the emergency telephone number (emergency services number) at any time when the IP phone is powered on and has been connected to the network. It is available even if your phone keypad is locked or no SIP account is registered.

This feature is not applicable to CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90.

Emergency Location Identification Number (ELIN)

The IP Phones support Link Layer Discovery Protocol for Media Endpoint Devices (LLDP-MED). LLDP-MED allows the phone to use the location information, Emergency Location Identification Number (ELIN), sent by the switch, as a caller ID for making emergency calls. The outbound identity used in the P-Asserted-Identity (PAI) header of the SIP INVITE request is taken from the network using an LLDP-MED Emergency Location Identifier Number (ELIN). You can customize the outbound identity. The custom outbound identity will be used if the phone fails to get the LLDP-MED ELIN value.

The following is an example of the PAI header:

P-asserted-identity: <sip: **1234567890**@abc.com > (where 1234567890 is the custom outbound

identity.)

P-Access-Network-Info (PANI)

When placing an emergency call, the MAC address of the phone/connected switch should be added in the P-Access-Network-Info (PANI) header of the INVITE message. It helps the aid agency to immediately identify the caller's location, improving rescue efficiency.

The following is an example of the PANI header:

P-Access-Network-Info: IEEE-802.3; eth-location="00:15:65:74:b1:6e" (where 00156574B16E is the phone's MAC address.)

E911 (Enhanced 911) is a location technology that enables the called party to identify the geographical location of the calling party. For example, if a caller makes an emergency call to E911, the feature extracts the caller's information for the police department to immediately identify the caller's location.

HTTP-Enabled Location Delivery (HELD)

The IP Phones support HTTP-Enabled Location Delivery (HELD) to request their location from a Location Information Server (LIS).

Firstly, the IP phone sends a Location Request message to LIS upon power on or IP change. Then the LIS replies a Location Response message with a Location URI to your IP phone. The IP phone stores the location URI for use in PDIF-LO.

When a user dials an emergency number (911), the IP phone will send an INVITE request to a gateway with PIDF-LO including the previously provided location URI.

The following is an example of location information sent in INVITE request message:

Geolocation:<https://anywhere.redskytech.com/e911Anywhere/heldref?zhangzl&companyId=y
ealink-e911&deviceId=10.10.117.26>,<Mac=00:15:65:45:16:BB>,<https://www.yealink.com/>
Geolocation-Routing: yes

This feature is not applicable to VP59/T58A/CP960 IP phones.

Network Hold and Operator Ring-back For Emergency Calls

Emergency Originator Actions

An emergency originator is defined as the BroadWorks user who initiates an emergency call. When a user originates an emergency call, both the *Resource-Priority: emgr.0* and *Priority: emergency* headers are presented in the initial INVITE. When emergency originator hangs up, the IP phone sends a re-INVITE with a=inactive in the SDP to the emergency operator, instead of sending a BYE to terminate the call. This is interpreted by the server as a call-on-hold request.

Emergency Operator Actions

An emergency operator is defined as the person who answers an emergency call. Whenever a call-on-hold request is received from the emergency originator for an emergency call that was initiated with an INVITE *Resource-Priority: emgr.0* and *Priority: emergency* headers, the emergency operator can initiate an event to ring the originator back via a **Hold/Resume** soft key or play a howler tone towards the emergency originator.

The originating phone will be preferentially ringing upon receiving the re-INVITE from the operator, regardless of the call state (for example, DND/call forward feature is activated). The ring tone is played continuously until the emergency originator answers or the server releases. The originator cannot reject this ring-back call.

Configuring Yealink IP Phones

Procedure

1. Add/Edit Emergency Call parameters in the configuration template files:

Parameters	Permitted Values	Default
dialplan.emergency.asserted_id_source	ELIN, CUSTOM or HELD	ELIN
<p>Description:</p> <p>Configures the precedence of the source of emergency outbound identities when placing an emergency call.</p> <p>If it is set to ELIN, the outbound identity used in the P-Asserted-Identity (PAI) header of the SIP INVITE request is taken from the network using an LLDP-MED Emergency Location Identifier Number (ELIN). The custom outbound identity configured by “dialplan.emergency.custom_asserted_id” will be used if the phone fails to get the LLDP-MED ELIN value.</p> <p>If it is set to CUSTOM, the custom outbound identity configured by “dialplan.emergency.custom_asserted_id” will be used; if the value of the parameter “dialplan.emergency.custom_asserted_id” is left blank, the LLDP-MED ELIN value will be used.</p> <p>If it is set to GENBAND (not applicable to VP59/T58A/CP960 IP phones), the GENBAND E911 feature is enabled, the location ID will be added to the INVITE and REGISTER SIP messages.</p> <p>If it is set to HELD (not applicable to VP59/T58A/CP960 IP phones), the IP phone will use the HELD protocol to retrieve location information from the Location Information Server.</p> <p>Note: If the obtained LLDP-MED ELIN value is blank and no custom outbound identity, the PAI header will not be included in the SIP INVITE request. HELD is only applicable to phones running firmware V82 or later.</p>		
dialplan.emergency.held.server_url	String	Blank

Parameters	Permitted Values	Default
Description: Configures the Location Information Server URL for the IP phone to send HELD location request. Note: It works only if “dialplan.emergency.asserted_id_source” is set to HELD. It is applicable to IP phones (except VP59/T58A/CP960) running firmware V82 or later.		
dialplan.emergency.held.request_type	SIMPLE or REDSKY	SIMPLE
Description: Configures the type of location request message. If it is set to SIMPLE, the IP phone will send the location request message defined in RFC5985. If it is set to REDSKY, the IP phone will send the location request message defined by REDSKY. Note: It works only if “dialplan.emergency.asserted_id_source” is set to HELD. It is applicable to IP phones (except VP59/T58A/CP960) running firmware version 82 or later.		
dialplan.emergency.held.request_element.X.name (X ranges from 1 to 255)	String	Blank
Description: Configures the custom element name to be sent in a location request message. For example: dialplan.emergency.held.request_element.1.name = mac dialplan.emergency.held.request_element.2.name = companyID dialplan.emergency.held.request_element.3.name = nai The value of X must be continuous. Note: It works only if “dialplan.emergency.asserted_id_source” is set to HELD. It is applicable to IP phones (except VP59/T58A/CP960) running firmware version 82 or later.		
dialplan.emergency.held.request_element.X.value (X ranges from 1 to 255)	String	Blank
Description: Configures the custom element value to be sent in a location request message. For example: dialplan.emergency.held.request_element.1.value = 001565B38ECB dialplan.emergency.held.request_element.2.value = 6f2f2d50-c385-4b72-b84a-ce0ca3a77cb7		

Parameters	Permitted Values	Default
<p>dialplan.emergency.held.request_element.3.value = 8611@pbx.yealink.com</p> <p>The value of X must be continuous.</p> <p>Note: It works only if “dialplan.emergency.asserted_id_source” is set to HELD. It is applicable to IP phones (except VP59/T58A/CP960) running firmware version 82 or later.</p>		
dialplan.emergency.custom_asserted_id	10-25 digits, SIP URI, or TEL URI	Blank
<p>Description:</p> <p>Configures the custom outbound identity when placing an emergency call.</p> <p>If using a TEL URI (for example, tel:+16045558000), the full URI is included in the P-Asserted-Identity (PAI) header (for example, <tel:+16045558000>).</p> <p>If using a SIP URI (for example, sip:1234567890123@abc.com), the full URI is included in the P-Asserted-Identity (PAI) header and the address will be replaced by the emergency server (for example, <sip:1234567890123@emergency.com>).</p> <p>If using a 10-25 digit number (for example, 1234567890), the SIP URI constructed from the number and SIP server (for example, abc.com) is included in the P-Asserted-Identity (PAI) header (for example, <sip:1234567890@abc.com>).</p> <p>Note: It works only if “dialplan.emergency.asserted_id_source” is not set to HELD.</p>		
dialplan.emergency.server.X.address (X ranges from 1 to 3)	IP address or domain name	Blank
<p>Description:</p> <p>Configures the IP address or domain name of the emergency server X to be used for routing calls.</p> <p>Note: If the account information has been configured (no matter whether the account registration succeeds or fails), the emergency calls will be dialed using the following priority: SIP server>emergency server; if not, the emergency server will be used. It works only if “dialplan.emergency.asserted_id_source” is not set to HELD.</p>		
dialplan.emergency.server.X.port (X ranges from 1 to 3)	Integer from 1 to 65535	5060
<p>Description:</p> <p>Configures the port of emergency server X to be used for routing calls.</p> <p>Note: It works only if “dialplan.emergency.asserted_id_source” is not set to HELD.</p>		
dialplan.emergency.server.X.transport_type (X ranges from 1 to 3)	0, 1, 2 or 3	0
<p>Description:</p>		

Parameters	Permitted Values	Default
<p>Configures the transport protocol the IP phone uses to communicate with the emergency server X.</p> <p>0-UDP</p> <p>1-TCP</p> <p>2-TLS</p> <p>3-DNS-NAPTR</p> <p>Note: It works only if “dialplan.emergency.asserted_id_source” is not set to HELD.</p>		
<p>dialplan.emergency.X.value (X ranges from 1 to 255)</p>	<p>number or SIP URI</p>	<p>Refer to the following content</p>
<p>Description:</p> <p>Configures the emergency number to use on your IP phone so a caller can contact emergency services in the local area when required.</p> <p>Default:</p> <p>When X = 1, the default value is 911;</p> <p>When X = 2-255, the default value is Blank.</p> <p>Note: It works only if “dialplan.emergency.asserted_id_source” is not set to HELD.</p>		
<p>dialplan.emergency.X.server_priority (X ranges from 1 to 255)</p>	<p>a combination of digits 1, 2 and 3</p>	<p>1, 2, 3</p>
<p>Description:</p> <p>Configures the priority for the emergency servers to be used.</p> <p>Multiple values are separated by commas. The servers to be used in the order listed (left to right).</p> <p>The IP phone tries to make emergency calls using the emergency server with higher priority, and then with lower priority. The IP phone tries to send the INVITE request to each emergency server three times.</p> <p>Example:</p> <p>dialplan.emergency.1.server_priority = 2, 1, 3</p> <p>It means the emergency calls will be dialed using the following priority: emergency server 2>emergency server 1>emergency server 3. The IP phone tries to send the INVITE request to each emergency server three times.</p> <p>Note: If the account information has been configured (no matter whether the account registration succeeds or fails), the emergency calls will be dialed using the following priority: SIP server>emergency server; if not, the emergency server will be used. It works only if “dialplan.emergency.asserted_id_source” is not set to HELD.</p>		

Parameters	Permitted Values	Default
bw.emergency_calling.enable	Boolean	0
Description: Enables or disables the BroadWorks Emergency Calling feature. 0 -Disabled 1 -Enabled, the IP phone supports network hold and operator ring-back for emergency calls. Note: It is only applicable to phones running firmware version 83 or later.		
account.X.reg_with_pani_header.enable¹	Boolean	0
Description: Enables or disables the IP phone to carry the PANI header in the REGISTER request message for account X. 0 -Disabled 1 -Enabled Note: It is only applicable to phones running firmware version 83 or later.		
account.X.invite_with_pani_header.enable¹	Boolean	0
Description: Enables or disables the IP phone to carry the PANI header in the INVITE request message. 0 -Disabled 1 -Enabled The PANI header format is: P-Access-Network-Info:IEEE-802.3; eth-location=<MAC Address Of The Phone>; local-time-zone="0800" Note: It is only applicable to phones running firmware version 83 or later.		

¹X is the account ID. For SIP-T57W/T54W/T48U/T48G/T48S/T46U/T46G/T46S/T29G, X=1-16; for SIP-T53W/T53/T43U/T42U/T42G/T42S, X=1-12; for SIP-T41P/T41S/T27G, X=1-6; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for SIP-T31P/T31G/T31/T21(P) E2, X=1-2; for SIP-T30P/T30/T19(P) E2, X=1.

The following shows an example of the emergency call configuration in a template configuration file (e.g., y000000000028.cfg):

```
dialplan.emergency.asserted_id_source = ELIN
dialplan.emergency.1.value= 311
dialplan.emergency.server.1.address = 10.200.108.48
dialplan.emergency.custom_asserted_id = tel:+16045558000
bw.emergency_calling.enable = 1
```

2. Upload template boot and configuration files.

For more information, refer to [Uploading Device Template Files](#).

Silent Alerting

When an incoming call arrives, the BroadWorks server sends INVITE to the phone with Alert-Info:<http://127.0.0.1/silent>. Then the IP phone automatically plays the silent ring tone (Silent.wav).

This feature is not applicable to CP930W-Base, W52P, and W56P IP phones.

The Silent Alerting feature is applicable to the following accounts:

- Primary
- Hoteling Guest
- Flexible Seating Guest
- Shared Call Appearance

Note

Before configuring Silent Alerting feature, make sure that the XSI has been configured. If the BroadWorks XSI is configured on the IP phone, the Silent Alerting can be synchronized between the IP phone and the BroadWorks server. For more information on BroadWorks XSI, refer to [Xtended Services Interface](#).

Configuring the BroadSoft Server

Assigning the Silent Alerting Service to a User

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Profile->Users**.
3. Click **Search** to display all existing users.
4. Select the desired user (e.g., 240161).
5. Click **Assign Services**.

- In the **Available Service** box, select **Silent Alerting** and then click **Add>**.

- Click **Apply** to accept the change.

Configuring the Silent Alerting Feature for a User

Procedure

- Log in to the web portal as a group administrator.
- Click **Profile->Users**.
- Click **Search** to display all existing users.
- Select the desired user (e.g., 240161).
- Click **Incoming Calls->Silent Alerting**.
- Mark the **On** radio box in the **Silent Alerting** field.

- Click **Apply** to accept the change.

Upgrading Firmware

Procedure

1. Add/Edit firmware URL in the configuration template files (e.g., y000000000028.cfg):
static.firmware.url =
http://%BWDEVICEACCESSFQDN%:%BWDEVICEACCESSPORT%/%BWDMSCONTEXT%/%BWDEVICEACCESSURI%%T46_FIRMWARE%
2. Customize the static tag on BroadWorks. The tag name is %T46_FIRMWARE% and the tag value is the firmware version (e.g., 28.81.193.10.rom).
For more information, refer to [Customizing a Static Tag](#).
3. Upload the firmware (e.g., 28.81.193.10.rom).
For more information, refer to [Uploading Static Files](#).
4. Upload template boot and configuration files.
For more information, refer to [Uploading Device Template Files](#).

After the above configurations, the tags in the template file will be replaced by the actual parameter values. An example is shown as below:
static.firmware.url = http://xsp.yealink.com:80/dms/YealinkT46/28.81.193.10.rom

You can also upgrade the firmware via the web user interface at the path
Settings->Upgrade. For more information on how to upgrade the firmware, refer to the latest
Administrator Guide for your phone on Yealink Technical Support.

Downloading and Verifying Configurations

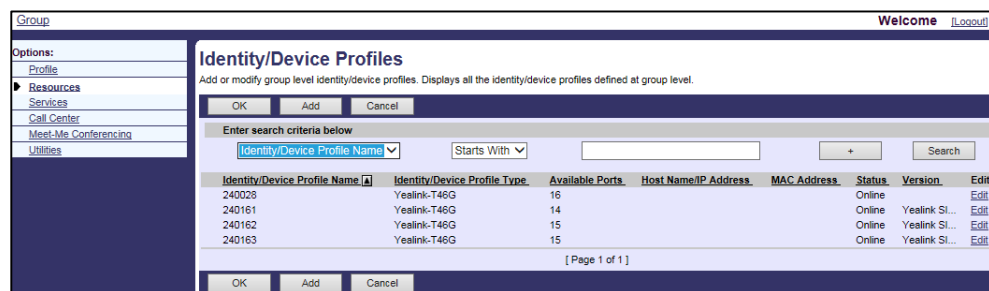
Downloading Boot and Configuration Files

Once obtaining the access URL, the phone will connect to the BroadWorks server and download boot file and configuration files. You should check the BroadWorks server settings and configure Yealink IP phones in advance.

Checking the BroadWorks Server Settings

Procedure

1. Log in to the web portal as a group administrator.
2. Click **Resources->Identity/Device Profiles**.
3. Click **Search** to display all existing device profiles (Click **Next** to turn to the next page).



4. Select the desired device profile to edit.
5. Click the **Profile** tab.

6. Check the parameters: URL, MAC address, user name and password in the corresponding fields.

Identity/Device Profile Modify
Modify or delete an existing group identity/device profile.

OK Apply Delete Cancel

Profile Users Files Custom Tags

Identity/Device Profile Name: 240028
Identity/Device Profile Type: Yealink-T46G
Device Type URL: https://xsp.yealink.com:443/dms/YealinkT46G/

Protocol: SIP 2.0
Host Name/IP Address: Port:
Transport: Unspecified

MAC Address: 00156574b450
Serial Number:
Description:
Outbound Proxy Server:
STUN Server:
Physical Location:

Lines/Ports: 16
Assigned Lines/Ports: 0
Unassigned Lines/Ports: 16
Version:

Authentication
☐ Use Identity/Device Profile Type Credentials
☒ Use Custom Credentials
* Device Access User Name: 240028
* Device Access Password:
* Re-type Device Access Password:

OK Apply Delete Cancel

Configuring the IP Phone via Web User Interface

Procedure

1. Log in to the web user interface as an administrator.
2. Click **Settings->Auto Provision**.
3. Enter the parameters: URL, user name and password in the corresponding fields.

- If the tag is a dynamic built-in tag, ensure that the tag is correct. You don't need to make any configuration on the BroadSoft server.

Appendix

BLF LED Mode

BLF LED Mode provides four kinds of definition for the BLF list key LED status. The following table lists the LED statuses of the BLF list key when BLF LED Mode is set to 0, 1, 2 or 3 respectively (not applicable to SIP-T30P/T30/T19(P) E2, CP920, CP960, CP930W-Base, W52P, W53P, W56P, W60P, W73P, W76P, W79P, and W90).

Line key LED (configured as a BLF List key and BLF LED Mode is set to 0)

LED Status	Description
Solid green	The monitored user is idle.
Fast-flashing red (200ms)	The monitored user receives an incoming call.
Solid red	The monitored user is dialing. The monitored user is talking. The monitored user's conversation is placed on hold (This LED status requires server support).
Slow-flashing red (1s)	The call is parked against the monitored user's phone number.
Off	The monitored user does not exist.

Line key LED (configured as a BLF List key and BLF LED Mode is set to 1)

LED Status	Description
Fast-flashing red (200ms)	The monitored user receives an incoming call.
Solid red	The monitored user is dialing. The monitored user is talking. The monitored user's conversation is placed on hold (This LED status requires server support).
Slow-flashing red (1s)	The call is parked against the monitored user's phone number.
Off	The monitored user is idle. The monitored user does not exist.

Line key LED (configured as a BLF List key and BLF LED Mode is set to 2)

LED Status	Description
Fast-flashing red (200ms)	The monitored user receives an incoming call.
Solid red	The monitored user is dialing.

LED Status	Description
	The monitored user is talking. The monitored user's conversation is placed on hold (This LED status requires server support).
Slow-flashing red (1s)	The call is parked against the monitored user's phone number.
Off	The monitored user is idle. The monitored user does not exist.

Line key LED (configured as a BLF List key and BLF LED Mode is set to 3)

LED Status	Description
Fast-flashing green (200ms)	The monitored user receives an incoming call.
Solid red	The monitored user is dialing. The monitored user is talking. The monitored user's conversation is placed on hold (This LED status requires server support).
Slow-flashing red (1s)	The call is parked against the monitored user's phone number.
Off	The monitored user is idle. The monitored user does not exist.

Line Keys and Programmable Keys

You can assign predefined functionalities to line keys and programmable keys. Line keys and programmable keys allow you to quickly access features such as call transfer and call forward. The line key can indicate the monitored status when the line keys are assigned with particular features, such as the BLF List.

The following table lists the number of DSS keys you can configure for each phone model:

Phone Model	Line Key	Programmable Key
CP960	30	3
VP59/SIP-T58A	27	9
SIP-T57W	29	8
SIP-T54W	27	15
SIP-T53W/T53	21	13
SIP-T48U/G/S	29	15
SIP-T46U/T46G/T46S	27	15

Phone Model	Line Key	Programmable Key
SIP-T43U	21	13
SIP-T42U/T42G/T42S	15	13
SIP-T41P/T41S	15	13
SIP-T40P/T40G	3	13
T33P/T33G	12	13
T31P/T31G/T31	2	13
T30P/T30	/	13
SIP-T29G	27	16
SIP-T27G	21	16
SIP-T23P/T23G	3	13
SIP-T21(P) E2	2	13
SIP-T19(P) E2	/	13
CP920	/	8

Configuring a Line Key

You can configure the line key to access the features for more convenience. The parameters of the line keys are detailed in the following:

The “X” is an integer which specifies the sequence number of the line key. For CP960, X=1-30; for SIP-T57W/T48U/T48S/T48G, X=1-29; for VP59/SIP-T58A/T54W/T46U/T46S/T46G/T29G, X=1-27; for SIP-T42U/T42S/T42G/T41S/T41P, X=1-15; for SIP-T53W/T53/T43U/T27G, X=1-21; for SIP-T33P/T33G, X=1-4; for SIP-T40P/T40G/T23P/T23G, X=1-3; for SIP-T31P/T31G/T31/T21(P) E2, X=1-2.

Parameters	Permitted Values	Default
linekey.X.type	Integer	Refer to the following content
Description: Configures the line key type. 2-Forward 5-DND 9-Direct Pickup 10-Call Park		

Parameters	Permitted Values	Default
20-Private Hold 23-Group Pickup 39-BLF List 42-ACD 55-Meet-Me Conference 56-Retrieve Park 58-ACD Trace 59-Disp Code 60-Emergency 62-Network UC Favorites 63-UC Favorite (if Auto Favorite feature is disabled, you need to configure UC Favorite keys manually, and then the downloaded information of favorites will be applied to these keys) 64-Buddies 65-My Status (It is configurable only when the parameter "bw.xmpp.change_presence.enable" is set to 1 (Enabled).) Note: Network UC Favorites, UC Favorite, Buddies, and My Status are only applicable to VP59/SIP-T58A/T57W/T54W/T48U/T48G/T48S/T46U/T46G/T46S/T29G/T33P/T33G IP phones.		
linekey.X.line	Refer to the following content	Refer to the following content
Description: Configures the line to apply the line key. Permitted Values: 1 to 16 (For VP59/SIP-T58A/T57W/T54W/T48U/T48S/T48G/T46U/T46S/T46G/T29G) 1 to 12 (For SIP-T53W/T53/T43U/T42S/T42G) 1 to 6 (For SIP-T42U/T41S/T41P/T27G) 1 to 4 (For SIP-T33P/T33G) 1 to 3 (For SIP-T40P/T40G/T23P/T23G) 1 to 2 (For SIP-T31P/T31G/T31/T21(P) E2) AS1 (For CP960) 1-Line1 2-Line2 3-Line3 ... 16-Line16 When X=1, the default value is 1.		

Parameters	Permitted Values	Default
When X=2, the default value is 2. When X=3, the default value is 3. When X=16, the default value is 16.		
linekey.X.extension	String within 256 characters	Blank
Description: Configures the conference ID or Moderator PIN followed by the # sign.		
linekey.X.label	String within 99 characters	Blank
Description: (Optional.) Configures the label displayed on the LCD screen for each line key.		

Configuring a Programmable Key

You can configure programmable key to access the features for more convenience. The parameters of the programmable keys are detailed in the following:

The “X” is an integer which specifies the sequence number of the programmable key. For SIP-T54W/T48U/T48S/T48G/T46U/T46S/T46G, X=1-10, 12-14, 17-18; for SIP-T53W/T53/T43U/T42U/T42S/T42G/T41S/T41P/T40G/T40P/T33P/T33G, X=1-10, 13, 17-18; for SIP-T29G/T27G, X=1-14, 17-18; for SIP-T23G/T23P/T21(P) E2, X= 1-10, 14, 17-18; for SIP-T31P/T31G/T31/T30P/T30/T19(P) E2, X=1-9, 13, 14, 17-18; for VP59/SIP-T58A/T57W, X=1-4, 12-14, 17-18; for CP960, X=1-3.

Parameters	Permitted Values	Default
programmablekey.X.type	Integer	Refer to the following content
Description: Configures the programmable key type. 5-DND 9-Direct Pickup 23-Group Pickup 55-Meet-Me Conference 64-Buddies 65-My Status (It is configurable only when the parameter		

Parameters	Permitted Values	Default
<p>“bw.xmpp.change_presence.enable” is set to 1 (Enabled).)</p> <p>For CP960 IP phones:</p> <p>When X=1, the default value is 308 (Dial)</p> <p>When X=2, the default value is 29 (Directory)</p> <p>When X=3, the default value is 309 (Bluetooth)</p> <p>For VP59/SIP-T58A IP phones:</p> <p>When X=1-4/12/13, the default value is 0 (NA).</p> <p>When X=14, the default value is 2 (Forward).</p> <p>When X=17/18, the default value is 0 (NA).</p> <p>For SIP-T57W IP phones:</p> <p>When X=1, the default value is 28 (History).</p> <p>When X=2, the default value is 61 (Directory).</p> <p>When X=3, the default value is 5 (DND).</p> <p>When X=4, the default value is 30 (Menu).</p> <p>When X=12, the default value is 0 (NA).</p> <p>When X=13, the default value is 0 (NA).</p> <p>When X=14, the default value is 2 (Forward).</p> <p>When X=17/18, the default value is 0 (NA).</p> <p>For SIP-T54W/T48U/T48S/T48G/T46U/T46S/T46G IP phones:</p> <p>When X=1, the default value is 28 (History).</p> <p>When X=2, the default value is 61 (Directory).</p> <p>When X=3, the default value is 5 (DND).</p> <p>When X=4, the default value is 30 (Menu).</p> <p>When X=5, the default value is 28 (History).</p> <p>When X=6, the default value is 61 (Directory).</p> <p>When X=7, the default value is 51 (Switch Account Up).</p> <p>When X=8, the default value is 52 (Switch Account Down).</p> <p>When X=9, the default value is 33 (Status).</p> <p>When X=10/12/13, the default value is 0 (NA).</p> <p>When X=14, the default value is 2 (Forward).</p> <p>When X=17/18, the default value is 0 (NA).</p> <p>For SIP-T53W/T53/T43U/T42U/T42S/T42G/T41S/T41P/T40P/T40G/T33P/T33G IP phones:</p> <p>When X=1, the default value is 28 (History).</p> <p>When X=2, the default value is 61 (Directory).</p> <p>When X=3, the default value is 5 (DND).</p>		

Parameters	Permitted Values	Default
<p>When X=4, the default value is 30 (Menu).</p> <p>When X=5, the default value is 28 (History).</p> <p>When X=6, the default value is 61 (Directory).</p> <p>When X=7, the default value is 51 (Switch Account Up).</p> <p>When X=8, the default value is 52 (Switch Account Down).</p> <p>When X=9, the default value is 33 (Status).</p> <p>When X=10/13/17/18, the default value is 0 (NA).</p> <p>For SIP-T29G/T27G IP phones:</p> <p>When X=1, the default value is 28 (History).</p> <p>When X=2, the default value is 61 (Directory).</p> <p>When X=3, the default value is 5 (DND).</p> <p>When X=4, the default value is 30 (Menu).</p> <p>When X=5, the default value is 28 (History).</p> <p>When X=6, the default value is 61 (Directory).</p> <p>When X=7, the default value is 51 (Switch Account Up).</p> <p>When X=8, the default value is 52 (Switch Account Down).</p> <p>When X=9, the default value is 33 (Status).</p> <p>When X=10/11/12/13, the default value is 0 (NA).</p> <p>When X=14, the default value is 2 (Forward).</p> <p>When X=17/18, the default value is 0 (NA).</p> <p>For SIP-T23P/T23G/T21(P) E2 IP phones:</p> <p>When X=1, the default value is 28 (History).</p> <p>When X=2, the default value is 61 (Directory).</p> <p>When X=3, the default value is 5 (DND).</p> <p>When X=4, the default value is 30 (Menu).</p> <p>When X=5, the default value is 28 (History).</p> <p>When X=6, the default value is 61 (Directory).</p> <p>When X=7, the default value is 51 (Switch Account Up).</p> <p>When X=8, the default value is 52 (Switch Account Down).</p> <p>When X=9, the default value is 33 (Status).</p> <p>When X=10, the default value is 0 (NA).</p> <p>When X=14, the default value is 2 (Forward).</p> <p>When X=17/18, the default value is 0 (NA).</p> <p>For SIP-T31P/T31G/T31/T30P/T30/T19(P) E2 IP phones:</p> <p>When X=1, the default value is 28 (History).</p>		

Parameters	Permitted Values	Default
<p>When X=2, the default value is 61 (Directory).</p> <p>When X=3, the default value is 5 (DND).</p> <p>When X=4, the default value is 30 (Menu).</p> <p>When X=5, the default value is 28 (History).</p> <p>When X=6, the default value is 61 (Directory).</p> <p>When X=7, the default value is 0 (NA).</p> <p>When X=8, the default value is 0 (NA).</p> <p>When X=9, the default value is 33 (Status).</p> <p>When X=13, the default value is 0 (NA).</p> <p>When X=14, the default value is 2 (Forward).</p> <p>When X=17/18, the default value is 0 (NA).</p>		
programmablekey.X.extension	String within 256 characters	Blank
<p>Description:</p> <p>Configures the conference ID or Moderator PIN followed by the # sign.</p>		
programmablekey.X.label	String within 99 characters	Blank
<p>Description:</p> <p>(Optional.) Configures the label displayed on the LCD screen for each soft key.</p>		