Deploying and Managing the Applications on Yealink Smart Business Phones

Introduction

Yealink T5 series smart business phones offer access to a large amount of third-party Android applications. The third-party applications can be installed or uninstalled either one by one or in batch.

There are two versions of the application deployment and management function: special version and standard version. This guide provides detailed information on how to deploy and manage the applications in both two versions. And the features described in this guide are available on the SIP-T58A phones.

Special Version

In special version, the IP phone runs with highest privileges, you can deploy the applications directly without granting the appropriate permissions to the application. We recommend that you to use the special version with caution, because in this version the IP phone has all the permissions and there may be a security risk.

To deploy the third-party applications in special version using configuration files:

Add/Edit corresponding parameters in configuration files (e.g., app.cfg).
 The following table lists the information of parameters:

Parameters	Permitted Values	Default	
pm.version	standard, special	standard	
Description:			
Configures the version of the application deployment and management function.			
Web User Interface:			
None			
Phone User Interface:			
None			
app.install_url	URL within 511 characters	Blank	

Parameters	Permitted Values	Default
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Description:

Configures the access URL of the third-party application.

Example:

app.install_url = http://192.168.10.25/QQ.apk

During the auto provisioning process, the IP phone connects to the HTTP provisioning server "192.168.10.25", and downloads the application "QQ.apk".

If you want to install/update multiple applications to the phone simultaneously, you can configure as following:

app.install_url = http://192.168.10.25/QQ.apk

app.install_url = http://192.168.10.25/Kugou.apk

Web User Interface:

None

Phone User Interface:

None

app.uninstall	app name/app name.apk/packag	Blank
	e name	

Description:

Uninstalls the specified third-party application.

Example:

To uninstall QQ, do one of the following:

app.uninstall = QQ

app.uninstall = QQ.apk

app.uninstall = com.tencent.mobileqq

If you want to uninstall multiple applications on the phone simultaneously, you can configure as following:

app.uninstall = QQ

app.uninstall = Kugou

Web User Interface:

None

Phone User Interface:

None

The following shows an example of QQ installation in configuration files:

pm.version = special

app.install_url = http://192.168.10.25/QQ.apk

The following shows an example of uninstalling QQ in configuration files:

pm.version = special

app.uninstall = QQ

2. Reference the configuration file in the boot file (e.g., y000000000000boot).

Example:

include:config "http://192.168.10.25/app.cfg"

- 3. Upload the boot file and configuration file to the root directory of the provisioning server.
- **4.** Trigger IP phones to perform an auto provisioning for configuration update.

For more information on auto provisioning, refer to the latest Auto Provisioning Guide on Yealink Technical Support.

Standard Version

In standard version, the IP phone does not have all the permissions, only the administrator can deploy and manage applications using configuration files. There are a series of parameters for administrator to control the applications and grant permissions to applications.

After installing the application, you may need to grant the appropriate permissions to the application to use the application.

Deploying the Third-party Applications

To deploy the third-party applications in standard version using configuration files:

Add/Edit corresponding parameters in configuration files (e.g., app.cfg).
 The following table lists the information of parameters:

Parameters	Permitted Values	Default
pm.version	standard, special	standard

Description:

Configures the version of the application deployment and management function.

Web User Interface:

None

Phone User Interface:

None

Parameters	Permitted Values	Default
app.install_url	URL within 511 characters	Blank

Description:

Configures the access URL of the third-party application.

Example:

app.install_url = http://192.168.10.25/QQ.apk

During the auto provisioning process, the IP phone connects to the HTTP provisioning server "192.168.10.25", and downloads the application "QQ.apk".

If you want to install/update multiple applications to the phone simultaneously, you can configure as following:

app.install_url = http://192.168.10.25/QQ.apk

app.install_url = http://192.168.10.25/Kugou.apk

Web User Interface:

None

Phone User Interface:

None

app.uninstall	app name/app name.apk/packag	Blank
	e name	

Description:

Uninstalls the specified third-party application.

Example:

To uninstall QQ, do one of the following:

app.uninstall = QQ

app.uninstall = QQ.apk

app.uninstall = com.tencent.mobileqq

If you want to uninstall multiple applications on the phone simultaneously, you can configure as following:

app.uninstall = http://192.168.10.25/QQ.apk

app.uninstall = http://192.168.10.25/Kugou.apk

Web User Interface:

None

Phone User Interface:

None

The following shows an example of QQ installation in configuration files:

pm.version = standard

app.install_url = http://192.168.10.25/QQ.apk

The following shows an example of uninstalling QQ in configuration files:

pm.version = standard

app.uninstall = QQ

2. Reference the configuration file in the boot file (e.g., y000000000000.boot).

Example:

include:config "http://192.168.10.25/app.cfg"

- 3. Upload the boot file and configuration file to the root directory of the provisioning server.
- **4.** Trigger IP phones to perform an auto provisioning for configuration update.

For more information on auto provisioning, refer to the latest Auto Provisioning Guide on Yealink Technical Support.

In order to use the application, you may need to grant appropriate permissions to the application. For more information, refer to Permission Control on page 8.

You can also control the application to run after startup, run in the background, run during the call and so on. For more information, refer to Application Control on page 5.

Managing the Applications

Application Control

To control the applications using configuration files:

Add/Edit corresponding parameters in configuration files (e.g., app.cfg).
 The following table lists the information of parameters:

Parameters	Permitted Values	Default
app.unavailable	app name/app name.apk/packag e name	none

Description:

Hides the system applications on the IP phone.

Example:

app.unavailable = Settings

If you want to hide multiple applications on the phone simultaneously, you can configure as following (between two applications are separated by "/"):

app.unavailable = Settings/FileManager/Message

Parameters	Permitted Values	Default			
If you want to cancel the operations for applications of	on the phone, you can c	onfigure as			
following:					
app.unavailable = none					
Note: It works only if the value of the parameter "pm.version" is set to standard. It is only					
applicable to the system applications.					
Web User Interface:					
	None				
Phone User Interface:					
None					
	app name/app				
app.autorun	name.apk/packag	none			
	e name				
Description:					
Allows the application to run automatically after the p	hone starts up.				
For more information on how to configure it, refer to	the parameter "app.una	available".			
Note: It works only if the value of the parameter "pm.	version" is set to standa	ard.			
Web User Interface:					
None	None				
Phone User Interface:		Phone User Interface:			
None		None			
	app name/app				
app.prohibit_bgrun	app name/app name.apk/packag	none			
app.prohibit_bgrun		none			
app.prohibit_bgrun Description:	name.apk/packag	none			
	name.apk/packag	none			
Description:	name.apk/packag e name				
Description: Prohibits the application to run in the background.	name.apk/packag e name the parameter "app.una	available".			
Description: Prohibits the application to run in the background. For more information on how to configure it, refer to	name.apk/packag e name the parameter "app.una	available".			
Description: Prohibits the application to run in the background. For more information on how to configure it, refer to Note: It works only if the value of the parameter "pm.	name.apk/packag e name the parameter "app.una	available".			
Description: Prohibits the application to run in the background. For more information on how to configure it, refer to Note: It works only if the value of the parameter "pm. Web User Interface:	name.apk/packag e name the parameter "app.una	available".			
Description: Prohibits the application to run in the background. For more information on how to configure it, refer to Note: It works only if the value of the parameter "pm. Web User Interface: None	name.apk/packag e name the parameter "app.una	available".			
Description: Prohibits the application to run in the background. For more information on how to configure it, refer to Note: It works only if the value of the parameter "pm. Web User Interface: None Phone User Interface:	name.apk/packag e name the parameter "app.una	available".			
Description: Prohibits the application to run in the background. For more information on how to configure it, refer to Note: It works only if the value of the parameter "pm. Web User Interface: None Phone User Interface:	name.apk/packag e name the parameter "app.una version" is set to standa	available".			

Parameters	Permitted Values	Default
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Description:

Prohibits the application to run during the call.

For more information on how to configure it, refer to the parameter "app.unavailable".

Note: It works only if the value of the parameter "pm.version" is set to standard.

Web User Interface:

None

Phone User Interface:

None

app.prohibit_uninstall	app name/app name.apk/packag	none
	e name	

Description:

Prohibits the users to uninstall the third-party application via phone user interface.

For more information on how to configure it, refer to the parameter "app.unavailable".

Note: It works only if the value of the parameter "pm.version" is set to standard. It is only applicable to the third-party applications.

Web User Interface:

None

Phone User Interface:

None

The following shows an example of QQ installation in configuration files:

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app.unavailable = Settings
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app.autorun = QQ

app.prohibit_bgrun = Recorder

app.prohibit_callrun = Browser

app.prohibit_uninstall = QQ

2. Reference the configuration file in the boot file (e.g., y000000000000boot).

Example:

include:config "http://192.168.10.25/app.cfg"

- 3. Upload the boot file and configuration file to the root directory of the provisioning server.
- 4. Trigger IP phones to perform an auto provisioning for configuration update.

For more information on auto provisioning, refer to the latest Auto Provisioning Guide on Yealink Technical Support.

Permission Control

Yealink provide a series of parameters that allow you to manage the third-party application permissions. With the help of these parameters, you can easily grant the privacy data/security control/system tool permissions to the third-party applications.

To grant permissions to applications in standard version using configuration files:

1. Add/Edit corresponding parameters in configuration files (e.g., app.cfg). The following table lists the information of parameters:

Parameters	Permitted Values		Description
	all	Grants the permission to all third-party applications.	
	Grants the permission to the specified third-party application.		
app.permission ap	app name/ app name.apk/ package name	Grants the permission to multiple third-party applications simultaneously (between two applications are separated by "/").	Allows a third-party application to access all limited-level permissions described in following.
	none	Cancels the operations for third-party applications on the phone.	
Privacy Data:			

Parameters	Permitted Values	Description
app.permission.privacy_data		Allows a third-party application to access the following privacy data.
app.permission.privacy_data.a ccount		Allows a third-party application to direct access to the accounts managed by the Account Manager.
app.permission.privacy_data.a ccount.get		Allows a third-party application to access the list of accounts in the Accounts Service.
app.permission.privacy_data.a ccount.auth	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to act as an AccountAuthenticator for the AccountManager.
app.permission.privacy_data.a ccount.manage		Allows a third-party application to manage the list of accounts in the AccountManager.
app.permission.privacy_data.a ccount.credential		Allows a third-party application to request authentication from the AccountManager.
app.permission.privacy_data.lo cation		Allows a third-party application to access the following location information.
app.permission.privacy_data.lo cation.coarse		Allows a third-party application to access approximate location derived from network location sources such as cell towers and Wi-Fi.
app.permission.privacy_data.lo cation.fine		Allows a third-party application to access precise location from location sources such as GPS, cell towers, and Wi-Fi.

Parameters	Permitted Values	Description
app.permission.privacy_data.lo cation.mock	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to create mock location providers for testing.
app.permission.privacy_data.lo cation.extra		Allows a third-party application to access extra location provider commands.
app.permission.privacy_data.p hone_state		Allows a third-party application to access phone state.
app.permission.privacy_data.b ookmarks		Allows a third-party application to read and write the user's browsing history and bookmarks.
app.permission.privacy_data.b ookmarks.read		Allows a third-party application to read the user's browsing history and bookmarks.
app.permission.privacy_data.b ookmarks.write		Allows a third-party application to write (but not read) the user's browsing history and bookmarks.
app.permission.privacy_data.c alendar		Allows a third-party application to read and write the user's calendar data.
app.permission.privacy_data.c alendar.read		Allows a third-party application to read the user's calendar data.
app.permission.privacy_data.c alendar.write		Allows a third-party application to write (but not read) the user's calendar data.
app.permission.privacy_data.p		Allows a third-party application to read and write the user's personal profile data.

Parameters	Permitted Values	Description
app.permission.privacy_data.p rofile.read	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to read the user's personal profile data.
app.permission.privacy_data.p rofile.write		Allows a third-party application to write (but not read) the user's personal profile data.
app.permission.privacy_data.c		Allows a third-party application to read and write the user's call log.
app.permission.privacy_data.c all_log.read		Allows a third-party application to read the user's call log.
app.permission.privacy_data.c all_log.write		Allows a third-party application to write (but not read) the user's call log.
app.permission.privacy_data.c ontacts		Allows a third-party application to read and write the user's contacts data.
app.permission.privacy_data.c ontacts.read		Allows a third-party application to read the user's contacts data.
app.permission.privacy_data.c ontacts.write		Allows a third-party application to write (but not read) the user's contacts data.
app.permission.privacy_data.s ubscribed_feed		Allows a third-party application to read and write the subscribed feeds ContentProvider.
app.permission.privacy_data.s ubscribed_feed.read		Allows a third-party application to read the subscribed feeds ContentProvider.

Parameters	Permitted Values	Description
app.permission.privacy_data.s ubscribed_feed.write	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to write (but not read) the subscribed feeds ContentProvider.
app.permission.privacy_data.u ser_dictionary		Allows a third-party application to read and write the user dictionary.
app.permission.privacy_data.u ser_dictionary.read		Allows a third-party application to read the user dictionary.
app.permission.privacy_data.u ser_dictionary.write		Allows a third-party application to write (but not read) to the user dictionary.
app.permission.privacy_data.v		Allows a third-party application to add voicemails into the system.
Security Control:		
app.permission.security_contr	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to access the following security control.
app.permission.security_contr ol.camera		Allows a third-party application to access the camera device.
app.permission.security_contr ol.microphone		Allows a third-party application to record audio.
app.permission.security_contr ol.screen_lock		Allows a third-party application to disable the phone lock.

Parameters	Permitted Values	Description		
app.permission.security_contr ol.get_tasks	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to access the current or recently used applications list.		
app.permission.security_contr ol.show_alert_window		Allows a third-party application to open windows using the type TYPE_SYSTEM_ALERT, shown on top of all other applications.		
app.permission.security_contr ol.clear_app_cache		Allows a third-party application to clear the caches of all installed applications on the IP phone.		
app.permission.security_contr ol.shortcut		Allows a third-party application to install or uninstall a shortcut in Launcher.		
app.permission.security_contr ol.shortcut.install		Allows a third-party application to install a shortcut in Launcher.		
app.permission.security_contr ol.shortcut.uninstall		Allows a third-party application to uninstall a shortcut in Launcher.		
System Tool:				
app.permission.system_tool	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to use the following system tool.		
app.permission.system_tool.kil l_background_processes		Allows a third-party application to call killBackgroundProcesses(String).		
app.permission.system_tool.ge t_package_size		Allows a third-party application to find out the space used by any package.		

Parameters	Permitted Values	Description
app.permission.system_tool.re ceive_boot_completed	For more information on how to configure it, refer to the parameter "app.permission".	Allows a third-party application to receive the ACTION_BOOT_COMPLETED that is broadcast after the system finishes booting.
app.permission.system_tool.br oadcast_sticky		Allows a third-party application to broadcast sticky intents.
app.permission.system_tool.ex pand_status_bar		Allows a third-party application to expand or collapse the control center and notification center.
app.permission.system_tool.au dio_setting		Allows a third-party application to modify global audio settings.
app.permission.system_tool.sy stem_setting		Allows a third-party application to read and write the system settings.
app.permission.system_tool.sy nc_setting		Allows a third-party application to read and write the sync settings.
app.permission.system_tool.sy nc_setting.read		Allows a third-party application to read the sync settings.
app.permission.system_tool.sy nc_setting.write		Allows a third-party application to write the sync settings.
app.permission.system_tool.sy nc_setting.read_stats		Allows a third-party application to read the sync status.

^{2.} Reference the configuration file in the boot file (e.g., y000000000000boot).

Example:

include:config "http://192.168.10.25/app.cfg"

- **3.** Upload the boot file and configuration file to the root directory of the provisioning server.
- **4.** Trigger IP phones to perform an auto provisioning for configuration update.

For more information on auto provisioning, refer to the latest Auto Provisioning Guide on Yealink Technical Support.

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