Zebra Voice Client

Version 9.0.24304

Workcloud Communication



Programmer Guide

2024/12/23

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Contents

About this Guide	5
Chapter Descriptions	5
Notational Conventions	6
Service Information	6
Revision History	6
Actions	8
Load New Configuration File	8
Update Configuration Parameters	9
Update with Token	10
Configure the Subscribe Feature	10
Zebra Voice Sign-out Action	11
Quit	13
Make a Call	13
End a Call	15
Import Contacts	15
Phone State Monitoring	17
Display Data Consent	19
Bypass Data Consent Using StageNow	20
Pinboard Integration - Intents/APIs to Share Call Data	20
Headless Mode	22
Enabling Headless Mode	22

Contents

Voice Connector	23
WFCDemo	23

About this Guide

This guide provides application programming interface (API) information for writing applications that use Zebra Voice. The guide assumes that the reader is familiar with Zebra Voice intents.

The API consists of a series of intents that can be invoked via the following methods:

- StageNow: A Zebra Voice intent can be generated using StageNow as described at techdocs.zebra.com/mx/intent/. The intent can be sent immediately, scheduled, or triggered off by pressing a button or sensor.
- **2. MDM**: A Zebra Voice intent can be generated from many MDMs. A couple of examples are provided below:
 - Soti Mobicontrol: soti.net/mc/help/v14.4/en/scriptcmds/reference/sendintent
 - Airwatch/Workspace ONE docs.vmware.com/en/VMware-Workspace-ONE-UEM/index
- **3. Zebra Voice application**: A Zebra Voice application can generate an intent to another application on the device. For more information, refer to developer.android.com/guide/components/intents-filters.

When Zebra Voice receives the intent, it takes the action indicated by the intent. The available intents are detailed in the following sections and include initiating Voice calls, sending messages, signing in/out of the application, and configuring the client.

Chapter Descriptions

The following chapters cover in this guide:

- About this Guide chapter provides explanation about the notational conventions, service information, related documentation, and revision history.
- · Actions chapter provides information about enabling background voice configuration.
- Headless Mode provides information about configuring the PTT Pro application.
- Voice Connecter provides information about WCCvoiceConnector library and initiating and controlling voice call remotely.

Notational Conventions

The following notational conventions make the content of this document easy to navigate.

- **Bold** text is used to highlight the following:
 - Dialog box, window, and screen names
 - Dropdown list and list box names
 - Checkbox and radio button names
 - · Icons on a screen
 - · Key names on a keypad
 - Button names on a screen
- Bullets (•) indicate:
 - · Action items
 - · List of alternatives
 - Lists of required steps that are not necessarily sequential.
- Sequential lists (for example, those that describe step-by-step procedures) appear as numbered lists.

Service Information

If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: <u>zebra.com/support</u>.

When contacting support, please have the following information available:

- · Serial number of the unit
- · Model number or product name
- Software type and version number

Zebra responds to calls by email, telephone, or fax within the time limits set forth in support agreements.

If your problem cannot be solved by Zebra Customer Support, you may need to return your equipment for servicing and will be given specific directions. Zebra is not responsible for any damages incurred during shipment if the approved shipping container is not used. Shipping the units improperly can possibly void the warranty.

If you purchased your Zebra business product from a Zebra business partner, contact that business partner for support.

Revision History

Revision	Date	Description
MN001718A01, Rev A	02/2016	Initial release.
MN001718A02, Rev A	05/2019	Added a new section, Signing Out Registered Users.
MN001718A03, Rev A	06/2021	Updated for WFC Voice version 9.0.21109.

About this Guide

Revision	Date	Description
MN001718A04, Rev A	11/2021	Updated the Make Call intents, versions supported, and UI changes.
MN001718A05, Rev A	03/2022	Updated intents for Subscribe, Android 11, and above.
MN001718A06, Rev A	09/2022	Fixed the bug contacts_url in the Import Contacts topic.
MN-001718-07EN Rev A	01/2024	Added Data Consent and Pinboard Integration - Intents/ APIs.
MN-001718-08EN Rev A	04/2024	Rebranded to Workcloud Communication.
MN-001718-09EN Rev A(v9.0.24304)	12/2024	Updated Phone State Monitoring.

Actions

This section provides descriptions and methods to initiate actions available in the Zebra Voice API.

Load New Configuration File

The Zebra Voice app reads the XML configuration file and restarts services with the new configuration. This is used during initial deployment or after an upgrade.

Prerequisites

- · Zebra Voice Client is loaded on the device.
- An XML file with configuration parameters has been prepared and is available.
- All versions of Zebra Voice Client 9.0 support these intents.



NOTE: The URI may be a network location or a file location on the device.

Intent Definition

Name	Description
Action	wfc.voice.ACTION_NEW_CONFIG
Intent Type	startActivity
Extra 0	This extra parameter defines the URI of the configuration file.
Туре	String
Name	profile_uri
Value	URI pointing to file location

ADB Examples

File located on the network:

\$ adb shell am start -a wfc.voice.ACTION_NEW_CONFIG --es profile_uri https://
example.com/voice/profiles/1234

File located on the device:

\$ adb shell am start -a wfc.voice.ACTION_NEW_CONFIG --es profile_uri /
sdcard/new_profile.xml

Pushing the Config XML to the device (For Android 11):

adb push d:\adb\WFCConnect.xml /enterprise/device/settings/WFConnect

adb shell am start -a wfc.voice.ACTION_NEW_CONFIG --es profile_uri /
enterprise/device/settings/WFConnect/WFConnect.xml

Update Configuration Parameters

The Zebra Voice app updates parameters and reloads services. It may be simpler to use this intent when updating one or two parameters, as an option to loading a new configuration file.

Prerequisites

- · Zebra Voice Client is loaded on the device.
- All versions of Zebra Voice Client 9.0 support these intents.

Intent Definition

Name	Description
Action	wfc.voice.ACTION_UPDATE_CONFIG
Intent Type	startActivity
Extra 0	This extra parameter specifies the configuration parameter and value. This extra parameter may be present once or multiple times to update multiple configuration parameters.
Type	String
Name	Parameter(s) as defined in the appropriate Zebra Voice PBX Administrator Guide.
Value	Corresponding value



NOTE: The URI may be a network location or a file location on the device.

ADB Example

Updating the log level in the client:

\$ adb shell am start -a wfc.voice.ACTION_UPDATE_CONFIG --es log_level Error

Update with Token

This intent is used to pass a token to the Provisioning Manager for the following purposes:

- Receive configuration information associated with the token in return. After application is successfully
 configured, the application restarts. For more information on specific configuration parameters related
 to PBX, refer to the Voice PBX Administrator Guide.
- Associate Voice Client with a customer account for licensing the client. The token may or may not have configuration information associated with it.

Prerequisites

- The Provisioning Manager must be set up with the token used in the intent. Refer to the <u>Workcloud</u>
 <u>Communication Provisioning Manager Customer Administrator Guide</u> for more information on tokens
 and associated configuration information with them.
- All versions of Voice Client 9.0 support these intents.

Intent Definition

Name	Description
Action	android.intent.action.VIEW with URI and package
Intent Type	startActivity
URI	wfcvp:// <token></token>
Package	com.symbol.wfc.voice



NOTE: Upon a fresh installation of the application, Zebra Voice contacts the Provisioning Manager, using its device ID as the token, and receives any configuration information associated with its device ID in return.

ADB Example

\$ adb shell am start -a android.intent.action.VIEW -d "wfcvp://ACME-3016"
com.symbol.wfc.voice

Configure the Subscribe Feature

The following intent can be used to subscribe or unsubscribe the departments when used along with Extension Manager and Asterisk PBX.

Prerequisites

- · Zebra Voice Client is loaded on the device.
- Zebra Voice Client version 9.0.21410 and above.
 - Asterisk PBX
 - Extension Manager

Intent Definition

Name	Description
Action	wfc.voice.SUBSCRIBE
Intent Type	startActivity
Extra 0	This parameter defines the names of the subscriptions which are subscribed or unsubscribed.
Туре	Array
Name	subscriptions
Value	Subscription strings
Extra 1	This optional parameter defines whether the subscriptions are subscribed (true) or unsubscribed (false). If this parameter is not present, it sets to true by default
Туре	Boolean
Name	clear
Value	true or false

ADB Examples

Subscribe to departments. If any departments were previously selected, the new departments are added to the existing list. Multiple departments can be separated by a comma without space.

```
$ adb shell am start -a wfc.voice.SUBSCRIBE --esa subscriptions "Food, Toys"
```

Unsubscribe from all departments and subscribe to new departments. Only the new departments are selected:

```
$ adb shell am start -a wfc.voice.SUBSCRIBE --esa subscriptions "Food" --ez
clear true
```

Unsubscribe from all departments:

```
$ adb shell am start -a wfc.voice.SUBSCRIBE --ez clear true
```

Zebra Voice Sign-out Action

The wfc.voice.SIGN_OUT action achieves different goals depending on the presence and value of the change parameter. It can be used to invoke the following behavior in the Zebra Voice Client:

- **Reload** (formerly called Sign out/Reload): Use with Extension Manager to sign out and reload the configuration based on the configuration parameters or use it to simply force Zebra Voice Client to reregister when configured without Extension Manager.
- Change Department: Use with Extension Manager to sign out and reload the configuration with a list of all available departments. Users can select new departments to register with multiple extensions. In legacy configurations, this is the same as reload.

Actions

- Add Department: Use with Extension Manager to sign out and reload the configuration with a list of all
 available departments, where the originally configured department is auto-selected. Users can add or
 change departments to register with multiple extensions. In legacy configurations, this is the same as
 reload.
- **Sign Out**: Use to sign out and de-register from the PBX. The app remains signed-out until the user manually restarts the app or the app receives an external intent to reload. Sign Out functions the same with or without Extension Manager.

Prerequisites

- Zebra Voice Client is loaded on the device and the user is signed in.
- All versions of Zebra Voice Client 9.0 support these intents.

Intent Definition

Name	Description
Action	wfc.voice.SIGN_OUT
Intent Type	broadcast
Extra 0	This extra parameter specifies the requested behavior when using the voice client alone or in combination with the Extension Manager.
Type	String
Name	change
Value	Reload: change parameter is not present or change =2
	Change Department: change=1
	Add Department:change=3
	Sign Out: change=0

ADB Examples

Reload:

```
$ adb shell am broadcast -a wfc.voice.SIGN_OUT
```

Change Department:

```
$ adb shell am broadcast -a wfc.voice.SIGN_OUT --es change 1
```

Add Department:

```
$ adb shell am broadcast -a wfc.voice.SIGN_OUT --es change 3
```

Sign Out:

```
$ adb shell am broadcast -a wfc.voice.SIGN_OUT --es change 0
```

Quit

Use Quit to sign out, de-register from the PBX, and quit all application services.

Prerequisites

- · Zebra Voice Client is loaded on the device.
- All versions of Zebra Voice Client 9.0 support these intents.

Indent Definition

Name	Description
Action	wfc.voice.STOP_APP
Indent Type	broadcast

ADB Example

\$ adb shell am broadcast -a wfc.voice.STOP_APP

Make a Call

There are several intents which can be used to make a voice call. The different intents are supported due to the differing requirements third-party applications have, but they all result in initiating a call in Zebra Voice.

Emergency call is supported by all the intents in this section by ensuring that a call can be made at all times, even if the device is locked.

The intents can also be used to bring up the dialpad by omitting the number or address of the intended recipient. The regular dialer is brought up when the device is unlocked; the emergency dialer is brought up when the device is locked.

Supported Schema

The following table summarizes the intents and the supported schemas for each.

Intent	Supported Schemas
wfc.voice.ACTION_BUTTON	"tel", "sip", "csip", "sips"
android.intent.action.VIEW	"tel", "sip", "csip", "sips
android.intent.action.CALL	"tel", "sip", "sips"
android.intent.action.DIAL	"tel", "sip", "sips"

Prerequisites

- Zebra Voice Client is loaded on the device, configured for PBX connectivity, and registered to the PBX.
- All versions of Zebra Voice Client 9.0 support these intents.

Make a Call with wfc.voice.ACTION_BUTTON

Name	Description
Action	wfc.voice.ACTION_BUTTON
Intent Type	startActivity
Data Scheme	tel, sip, csip, or sips
Extra 0	
Туре	String
Name	action
Value	CALL
Extra 1	
Туре	String
Name	value
Value	Number or address of the intended recipient

Make a Call with android.intent.action.VIEW

Name	Value
Action	android.intent.action.VIEW
Intent Type	startActivity
Data Scheme	tel, sip, csip, or sips followed by ":" and the number or address of the intended recipient

Make a Call with android.intent.action.DIAL

Name	Description
Action	android.intent.action.CALL
Intent Type	startActivity
Data Scheme	tel, sip, or sips followed by ":" and the number or address of the intended recipient.



NOTE: Zebra Voice can be registered to multiple PBX lines simultaneously. This intent is sent to the current line, which can be selected via the Zebra Voice dial pad. The user can switch between lines by clicking "Local line" info field.

ADB Examples

 $\$ adb shell am start -a wfc.voice.ACTION_BUTTON -d 'tel:' --es action CALL-es value 8471234567\$

\$ adb shell am start -a android.intent.action.CALL -d sip:2001

\$ adb shell am start -a android.intent.action.VIEW -d csip:2001

```
$ adb shell am start -a android.intent.action.DIAL -d tel:555
```

The following intent brings the regular dialer up when the device is unlocked and the emergency dialer when the device is locked.

adb shell am start -a android.intent.action.DIAL -d sip:

End a Call

Use the End Call action to end an active call session.

Prerequisites

- Zebra Voice Client is loaded on the device and configured for PBX connectivity.
- Zebra Voice Client is currently involved in a call.
- The minimum required Zebra Voice Client version is 9.0.20302.

Intent Definition

Name	Description
Action	com.zebra.wfc.ACTION_END_ACTIVE_SESSION
Intent Type	broadcast

ADB Example

\$ adb shell am broadcast -a com.zebra.wfc.ACTION_END_ACTIVE_SESSION

Import Contacts

Import contacts from a CSV file. The file is stored on the device or on a server.

Prerequisites

- The Zebra Voice Client is loaded to the device.
- The CSV file is stored on the device or on a server.
- All versions of Zebra Voice Client 9.0 support these intents.

Intent Definition

Name	Description
Action	wfc.voice.SYNC_CONTACTS
Intent Type	startActivity
Extra 0	Location of the contacts CSV file

Name	Description
Туре	String
Name	contacts_url
Value	URL of a downloadable CSV file or a file name on the SD card
Extra 1	This extra parameter specifies if the existing contacts should be deleted or not before applying the CSV file
Туре	boolean
Name	reset
Value	true: the app deletes all existing contacts prior to loading the CSV file false: existing contacts are not deleted

ADB Examples

To load a file stored on the device, and clear existing contacts before applying the file:

```
$ adb shell am start -a wfc.voice.SYNC_CONTACTS --es contacts_url /sdcard/
contacs.csv --ez reset true
```

To load a file stored on a network, and leave existing contacts:

```
$ adb shell am start -a wfc.voice.SYNC_CONTACTS --es contacts_url https://
example.com/voice/contacts/1234 --ez reset false
```

Import Contacts Template

This section provides a description and example of the CSV file template used to import contacts.

- The following fields are required:
 - contactId—Use a unique integer for each contact. If a contact already exists with the same contactId, the existing record is updated. To delete a contact, set this to a value less than zero.
 - firstName-First name
 - lastName-Last name
- Provide at least one of the following:
 - cellNumber-Cell phone number
 - officeNumber-Office phone number
 - homeNumber-Home phone number

Optional Fields

• group-List group names separated by semicolons.

- ringtone-Provide a ringtone for the contact using one of the following value types:
 - Name-Name of an existing Android ringtone
 - · URL-Link to the downloadable music file
 - Filename-Path to the music file on the SD card
 - Empty string-Leave blank to use the default ringtone.
- photo-URL to a downloadable image file or the path to a file on the SD card. Supported image formats are PNG and JPG.

Table 1 Sample Import

group	contact Id	first Name	last Name	cell Number	office Number	home Number	ringtone	photo
Work; Home; Paint	1	Mike	Smith	2725	847-123- 4560	6540		/sdcard/ WFConnect / pic1.jpg
Work; Home	2	John	Page	2726		6541	sample.com / ringtone25.ogg	/sdcard/ WFConnect / pic2.jpg
Paint	3	Frank	Flyer	2727			/sdcard/ WFConnect / ring4.ogg	sample.com / photo.jpg
Electronics	4	Emilia	Kratzer	2728		6542		/sdcard/ WFConnect / pic4.jpg
	-5	Kate	Perry	2729				



NOTE: The column headings in the import CSV file must be one word. For example, contact Id should be contactId. The spaces in the sample are to format the table.

Phone State Monitoring

The Zebra Voice Client broadcasts its status using the following intent. This is an intent that the Zebra Voice Client sends. A third-party application can register to receive the intents.

Prerequisites

- Zebra Voice Client is loaded to the device.
- The third-party application must register to receive the intents as described in the Phone State Example.
- All versions of Zebra Voice Client 9.0 support these intents.

Intent Definition

Name	Description
Action	wfc.voice.PHONE_STATE
extras	
registration_state	PBX registration state ACTIVE ACTIVE_DND CONNECTING INACTIVE EXTENSION_UNAVAILABLE

Name	Description
state	Voice call state IDLE CALLING RINGING ACTIVE
number	The phone number for the current session that is reported when the voice call state changes (optional).
line_id	The line number is reported when one of the line registers (optional).
line_extension	Line extension that is reported when one of the lines registers (optional).
line_registered	A boolean expression that is reported when one of the lines registers (optional).
suspended	A boolean expression that is reported when the state is IDLE because one of the sessions is suspended or on hold (optional).



NOTE: The suspended extra is only available in Zebra Voice version 9.0.21104 or later. The EXTENSION_UNAVAILABLE registration state is broadcasted solely when no extension is available for the specific department or PFM role chosen by the user.

Phone State Example

The following code example registers the phone state intent from a third-party app.

```
// Create a broadcast receiver
BroadcastReceiver mMessageReceiver = new BroadcastReceiver()
{
      @Override
      public void onReceive(Context context, Intent intent)
            Log.i(TAG,
                  "Received PHONE_STATE from WFCVoice "
                + " registration_state=" +
 intent.getStringExtra("registration_state")
                + " call state=" + intent.getStringExtra("state")
                + " number=" + intent.getStringExtra("number")
                + " line_id=" + intent.getStringExtra("line_id")
                + " line_extension=" +
 intent.getStringExtra("line_extension")
                + " line_registered=" +
 intent.getBooleanExtra("line_registered" false)
                );
        }
};
//Register broadcast receiver in the Activity
IntentFilter mMessageReceiver = new IntentFilter();
requestFilter.addAction("wfc.voice.PHONE_STATE");
registerReceiver(mMessageReceiver, requestFilter);
```

Display Data Consent

All the users of the Zebra Voice Client must accept/decline the data consent agreement before using the Voice Client application.

Prerequisites

- Zebra Voice Client must be installed on the devices.
- The Zebra Voice Client version 9.0.23305+ is required.

Table 2 Intent Definition

Name	Description
Action	com.symbol.wfc.voice/com.zebra.wfc.dialer.DialerActivity
Intent Type	StartActivity
Extra 0	This parameter can be used to disable or enable the display of the Data Consent Screen after installation. This parameter is optional.
Туре	Boolean
Name	showDisclosure
Value	True: Displays the Data Consent screen. False: Does not display the Data Consent screen.

ADB Command to Display the Data Consent ShowDisclosure

```
adb shell am start -n com.symbol.wfc.voice/
com.zebra.wfc.dialer.DialerActivity --ez showDisclosure "true"
```

ADB Command to Bypass the Data Consent ShowDisclosure

```
adb shell am start -n com.symbol.wfc.voice/
com.zebra.wfc.dialer.DialerActivity --ez showDisclosure "false"
```

General Rules Related to Data Consent

The Data Consent screen appears when the Zebra Voice Client for Android is activated first time. The app does not work until the consent is accepted/declined.

- When the user opens Voice Client application for the first time after installation, the Data Consent screen displays. The App allows the user to proceed to the Voice Client for Android screen only after the Data Consent is accepted. If the user declines it, the application is closed there.
- If the user reopens the application, the Data Consent screen is displayed again. The user must accept the Data Consent to proceed further to configure the Voice Client for Android.
- Similarly, the showDisclosure must be set to true in ADB Commands to proceed to get the Voice Client Configuration screen.

Bypass Data Consent Using StageNow

An administrator can use StageNow to configure to bypass the Data Consent windows of the Zebra Voice Client.

Example:

Pinboard Integration - Intents/APIs to Share Call Data

Generic Intent to Get Call Data on Demand

The Voice Client exposed the following intent com.zebra.wfc.voice.GET_INFO to get the specific category of call-data count from the Voice Client on-demand basis. Any third-party applications need to follow the following-mentioned steps to get the count from the Voice Client.

Code Snippet

```
Intent i= new Intent("com.zebra.wfc.voice.GET_INFO"); i.putExtra("call_type",
    "MISSED"); //Same can be done for other call_type as well sendBroadcast(i);
```

1. Register and Listen to the Following Broadcast

```
IntentFilter call_info= new IntentFilter();
call_info.addAction("com.zebra.wfc.voice.CALL_INFO");
registerReceiver(mReceiver, call_info);

public void onReceive(Context context, Intent intent) {
   String action= intent.getAction();
   if(action.equals("com.zebra.wfc.voice.CALL_INFO")) {
      if (intent.hasExtra("MISSED")) { //Same can be done for other
   call_type as well
            count = intent.getIntExtra("MISSED", 0);
            Log.d("Call data:- "+count)
      } // ERROR handling
```

```
if(intent.hasExtra("ERROR")){
    String error= "ERROR: " + intent.getStringExtra("ERROR");
    Log.d(TAG,error);
    }
}
```

The above example shows that after following the above steps, any 3rd party application can trigger an intent to receive a specific call count from Voice Client.

Generic Intent Broadcast Call information

The Voice Client exposed the intent com.zebra.wfc.voice.CALL_INFO_BROADCAST to get the specific category call data count from the Voice Client whenever there is a change in call history information.

Any third-party applications need to follow the following steps to get the count from the Voice Client.

Code Snippet to Register CALL_INFO_BROADCAST

```
IntentFilter call_info = new IntentFilter();
call_info.addAction("com.zebra.wfc.voice.CALL_INFO_BROADCAST");
registerReceiver(mReceiver,call_info);
```

Code Snippet to Listen to the CALL_INFO_BROADCAST

```
public void onReceive(Context context, Intent intent) {
   String action= intent.getAction();
   if(action.equals("com.zebra.wfc.voice.CALL_INFO_BROADCAST")) {
      if (intent.hasExtra("MISSED") { //Same can be done for other Extras as well
         count = intent.getIntExtra("MISSED", 0);
      Log.d("Call data:- "+count)
      }
   }
}
```

Generic Intent to Open Voice History Fragment

The Voice Client exposed the following intent calllog.open_history to open the Voice Client History Fragment with the specific category of filter selected option on-demand basis. Any third-party applications need to follow the following steps to request for opening Voice Client History Fragment with a specific filter set

Code Snippet for calllog.open_historyIntent i= new

```
Intent("com.zebra.wfc.voice.calllog.open_history");
i.putExtra("call_type", "MISSED"); //Same can be done for other call_type as
well
sendBroadcast(i);
```

Headless Mode

Configure the Zebra Voice as a background service (headless mode) to allow third-party apps to control voice calls remotely and display the call status on their own user interface (UI) screens.

When headless mode is enabled:

- The Zebra Voice home dashboard screen is hidden. Launching the Zebra Voice app displays the dial pad or contacts screen.
- Access Zebra Voice settings by swiping down from the top of the screen and touching the Zebra Voice notification.

Enabling Headless Mode

You can enable headless mode in the XML configuration file or in the app.

- In the WFConnect XML configuration file, set the headless_mode parameter to true.
- From the Zebra Voice app, touch the three-line menu at the top of the screen and go to Settings >
 Advanced Settings > UI Settings > Headless Mode.

Voice Connector

WFCVoiceConnector is an Android library that allows third-party apps to establish a service connection with a voice app running in headless mode.

The WFCVoiceConnector.aar library is part of WFCDemo project.

WFCDemo

WFCDemo is a sample project for an Android app that uses the WFCVoiceConnector library. The app has a UI screen that allows a user to initiate and control voice calls remotely through the service connector project.

The WFCDemo project is available at github.com/ZebraDevs/wfc-voice-demo/.

