

Release Notes

Honeywell Development Kit 1.9

February 13 2023

Verifying Download Files

The release files for Honeywell Development Kit (DevKit) 1.9 are zip files signed with a certificate. This allows a user to verify the files they download have not been modified. After downloading the files, use the process below to verify authenticity before unzipping the files.

1. Java JDK (version 1.8 or newer) must be installed.
2. Execute the jarsigner executable against the file to verify. Example:

```
jarsigner -verify Honeywell-DevKit-1.9-signed.zip
```

Code Changes

Changes to code, including breaking API changes, can be found in the CHANGELOG.md file in the devkit directory, included in the DevKit zip file.

New Features in Honeywell DevKit

Embedded TTS for Android Devices

Support is added for embedded TTS voices. These voices can be used when Google Managed Services (GMS) TTS voices are not available. Support for embedded TTS voices are provided by a Nuget Package for each language.

The embedded TTS options are:

- English, United States (en-US), Pick Up & Go supported
- English, Great Britain (en-GB), Pick Up & Go supported
- Simplified Chinese, China, (zh-CN), Pick Up & Go supported
- Mandarin Chinese, Taiwan (zh-TW), Pick Up & Go not supported

The use of an embedded TTS can be specified in the app or in a config file. Refer to the DevKit help for information on implementing an embedded TTS.

Support for .NET 6 on A700x

Support is added for .NET 6. .NET 6 development requires Visual Studio 2022 (17.3.3 or greater for Windows) Visual Studio for Mac 2022 (17.4 or greater).

- .NET 3.1 Core is still supported.
- VoiceCatalyst 4.6 ECS 001 or greater is required for the A700x to support .NET 6.
- Mac is recommended for development only, due to limitations in Visual Studio for Mac 17.4.

Custom Data Files

The CustomDataPath class is used to obtain the path for custom external data files (such as resx). The path property returns the correct path regardless of the device on which it is running.

External resx file Support

The ability to load external resx files is now supported. This allows adding translations without recompiling the app. Add these files to the location specified by CustomDataPath.

Feature License Requirement for A700x

A feature license in VoiceConsole is required to run vad files generated with DevKit 1.9 and later on A700x devices.

Logging

Improved logging for TCPQueue, including details on progress receiving and decoding responses.

VoiceLink Server Options

Secure Connections can be toggled on/off for the LegacyServer option.

Issues Fixed in this Release

NOTE

Additional resolved issues are included in the CHANGELOG.md file in the devkit directory, included in the DevKit zip file.

Issue Description

Issue ID

Crashes using certain PnG languages

Using the ar-SA, fa-IR, and nn-NO Pickup & Go languages can cause a crash in DevKit versions after 1.6.

VOSMB-6977

IMPORTANT

The Sichuanese (zh-SI) language model (both NuGet and Enterprise Voice download) is not a valid .NET language and is not supported.

Error Processing Intent

A700x languages that do not support Dynamic Templates could prompt with the Error Processing Intent message and prevent the user from moving forward. This included Ready, GetValue, and Menu Intents.

VOSMB-6981

Error Retrieving Templates

Error retrieving templates from server message can occur by signing off and back on with the same operator when using trainable Pick Up & Go.

VOSMB-7085

System Requirements

The following devices and software were tested for this release of DevKit.

Minimum Android Device Specifications

- **Processor:** Qualcomm Snapdragon 410 MSM8916 1.2 GHz quad-core
- **Memory:** 2GB RAM
- **Storage:** 8GB/16GB Flash
- **WLAN:** IEEE 802.11 a/b/g/n radio
- **Bluetooth:** Bluetooth Class 4.0, Bluetooth HFP (Hands-Free Profile) version 1.6
- **Operating System:** Android N (7.0)

The above are the minimum recommended device specifications. If the device does not meet or exceed these specifications, the following symptoms may occur:

- Poor audio quality
- Slow application screen responsiveness
- Delayed input entry

Hardware

The following devices were tested for this release.

Devices

- Honeywell CT40
- Honeywell CT40 XP
- Honeywell CT45
- Honeywell CT60
- Honeywell CT60 XP
- Honeywell CN80
- Honeywell CN80G
- Honeywell CK65
- Honeywell CW45
- Honeywell ScanPal EDA51
- Honeywell ScanPal EDA71
- Honeywell A700x

Third-Party Devices

- Zebra WT6000
- Zebra TC5x
- Zebra TC7x

Headsets

- Honeywell SRX-SL Light Industrial Use Headset
- Honeywell SRX2 Wireless Headset (with firmware 4.05)
- Honeywell SRX3 Wireless Headset (with firmware 6.07)

NOTE

SRX3 firmware 6.07 or greater is required to support the headset's flip-to-mute feature. Earlier versions of firmware are supported, however flipping the microphone up places the device in standby rather than muting the microphone. Upgrade the headset firmware using the [Honeywell Accessory Update Utility](#).

Scanners

- Honeywell CT40 On-board Scanner
- Honeywell CT40 XP On-board Scanner
- Honeywell CT45 On-board Scanner
- Honeywell CT60 On-board Scanner
- Honeywell CT60 XP
- Honeywell CN80
- Honeywell CN80G
- Honeywell CK65
- Honeywell EDA51 On-board Scanner
- Honeywell EDA71 On-board Scanner
- Honeywell 8670 Ring Scanner

Android Device Operating System Support

- Android N (7.1.1)
 - Honeywell CT40
 - Honeywell CT60
- Android O (8.1.0)
 - Honeywell CT40
 - Honeywell CT60
 - Honeywell CK65
 - Honeywell ScanPal EDA51
 - Honeywell ScanPal EDA71
- Android P (9)
 - Honeywell CT40
 - Honeywell CT40 XP
 - Honeywell CT60
 - Honeywell CT60 XP
 - Honeywell CK65
- Android 10
 - Honeywell CT40
 - Honeywell CT40XP
 - Honeywell CT60
 - Honeywell CT60XP
 - Honeywell CK65
- Android 11
 - Honeywell CT40
 - Honeywell CT40XP
 - Honeywell CT45
 - Honeywell CT60
 - Honeywell CT60XP
 - Honeywell CK65
- Android 12
 - Honeywell CW45

Honeywell A700x Software Support

- VoiceCatalyst 4.4 or greater

NOTE

Honeywell A700 series and A500 devices are not supported.

Management Server Support

- VoiceConsole 5.5 or greater

Previously Reported Limitations

| Issue Description | Issue ID |
|---|------------|
| Scanning Data Can Override Priority Prompts Priority prompts can be overridden by scanning data at a screen where scanning is a valid input. | VOSMB-1415 |
| Voice Dialogue Continues to Run During Background Activity When waiting for background spinner activity to complete, speech recognition may allow the operator to use some menu items through voice, e.g., Say Again and Help. | VOSMB-1406 |
| Unable to Exit Error Screen with VoiceLink Entering an invalid host address can cause an indefinite processing (spinner icon) state, with VoiceLink. Workaround: Close the Guided Work Application and enter a valid host address | VOSMB-1353 |
| Do Not Press + and - Buttons on SRX3 Headset to Unpair When unpairing your SRX3 headset from an Android device, do not press the + and - buttons simultaneously. This procedure causes known issues with TTS and voice recognition. Proper Procedure: To unpair your SRX3 headset from an Android device, go to your device Bluetooth settings, display the Paired devices screen, select the headset, and tap FORGET to unpair the headset and the Android device. | VOSMB-1448 |
| Pressing Power Button on SRX-SL or SRX2 Headset Causes Unpairing If you press the Power button on your SRX-SL or SRX2 headset, the headset unpairs from the device. Workaround: Power off the headset and re-pair your device and headset. | VOSMB-1252 |
| Application goes into landscape from Photo Intent Exiting the camera view in the photo intent while in landscape mode will cause the application to be in landscape mode, which is not supported and may cause issues. Workaround: Rotate the device to portrait mode before or after exiting the camera view. | VOSMB-992 |
| "GatewayTimeout" error message from Microservices If the mobile application has trouble reaching the Microservices host ("GatewayTimeout") while attempting to retrieve templates it may force the user to retrain all words for that workflow. Workaround: If you experience this behavior close and restart the app and log in again | VOSMB-971 |

| Issue Description | Issue ID |
|--|-------------------------|
| <p>Do Not Press Next Button Quickly</p> <p>If you have untrained words and get to the template training instructions screen, if you tap the Next button in rapid succession, it can cause the application to shut down unexpectedly.</p> | <p>VOSMB-230</p> |
| <p>Audio to the Bluetooth Headset Can Fail</p> <p>In some situations, the audio no longer comes through a Bluetooth headset even though it is still paired to the device.</p> <p>Workaround: Unpair and re-pair the headset.</p> | <p>VOSMB-28</p> |
| <p>Errors while Transmitting Files to VoiceConsole</p> <p>A number of errors may appear in the device logs when transmitting logs to VoiceConsole. In spite of these errors, all log files are eventually transmitted successfully.</p> | <p>VOSMB-570</p> |
| <p>State Machine Recommendation</p> <p>Do not create a state machine where the first state goes directly into a secondary state machine and sets the next trigger for return. The app will become unresponsive when returning from the secondary state machine and the second state will never run.</p> | <p>VOSMB-465</p> |