

Honeywell

Guided Work Solutions

GWS App 4.3

Localization Guide

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Patents

For patent information refer to hsmpats.com

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This document describes the process of performing localization for the GWS App.

What is Localization?

Localization means adapting an app, in this case GWS App, so it feels natural and easy to use for people in different countries or regions. It's more than just translating words, it is about making the whole experience fit the local culture.

Supported Languages

Starting with version 4.3, GWS App officially supports translations for twelve languages. These languages are identified in the Official Translations column below. Officially supported means the GWS App is delivered with resource (resx) files that provide translation of the keys used in the GWS App.

For other languages, the resxfiles can be created using the instructions later in this document.

All the languages listed in the following table can be used with BlueSteak on Android and Talkman devices. Pick Up and Go (PnG) support is noted in the table.

Language Name	Locale Code	Talkman Devices	Android Devices	Pick Up and Go (PnG)	Official Translation
Arabic (Worldwide)	ar_WW	Yes	Yes	Yes (arAE, arSA)	No
Arabic (Emirates)	ar_AE	No	Yes	Yes	No
Arabic (Saudi Arabia)	ar_SA	No	Yes	Yes	No
Bengali	bnIN	No	No	No	No
Bulgarian	bgBG	No	Yes	Yes	No

Language Name	Locale Code	Talkman Devices	Android Devices	Pick Up and Go (PnG)	Official Translation
Czech	cs_CZ	Yes	Yes	Yes	No
Danish	da_DK	Yes	Yes	Yes	No
German (Germany)	deDE	Yes	Yes	Yes	Yes
Greek	eL_GR	Yes	Yes	Yes	No
English (Australia)	en_AU	Yes	Yes	Yes	No
English (India)	en_IN	Yes	Yes	Yes	No
English (United Kingdom)	en_GB	Yes	Yes	Yes	No
English (United States)	enUS	Yes	Yes	Yes	Yes
Spanish (Spain)	esES	Yes	Yes	Yes	Yes
Spanish (Mexico)	esMX	Yes	Yes	Yes	Yes
Persian	faIR	No	Yes	Yes	No
Finnish	fi_FI	Yes	Yes	Yes	No
French (Canada)	frCA	Yes	Yes	Yes	Yes
French (France)	fr_FR	Yes	Yes	Yes	Yes
Hebrew	heIL	No	Yes	Yes	No
Hindi	hi_IN	Yes	Yes	No	No
Croatian	hr_HR	Yes	Yes	No	No
Hungarian	hu_HU	Yes	Yes	Yes	No

Language Name	Locale Code	Talkman Devices	Android Devices	Pick Up and Go (PnG)	Official Translation
Indonesian	id_ID	Yes	Yes	Yes	No
Italian	it_IT	Yes	Yes	Yes	No
Japanese	jaJP	Yes	Yes	Yes	Yes
Korean	ko_KR	Yes	Yes	Yes	No
Malay	msMY	No	Yes	Yes	No
Dutch (Belgium)	nIBE	Yes	Yes	Yes	No
Dutch (Netherlands)	nINL	Yes	Yes	Yes	Yes
Norwegian	no_NO	Yes	Yes	Yes	No
Polish	pL_PL	Yes	Yes	Yes	No
Portuguese (Brazil)	ptBR	Yes	Yes	Yes	Yes
Portuguese (Portugal)	ptPT	Yes	Yes	Yes	Yes
Romanian	ro_RO	Yes	Yes	No	No
Russian	ruRU	Yes	Yes	Yes	Yes
Slovak	sk_SK	Yes	Yes	Yes	No
Slovenian	sL_SI	Yes	Yes	No	No
Serbian	sr_RS	Yes	Yes	No	No
Swedish	sv_SE	Yes	Yes	Yes	No
Chinese (Sichuan)	sz_CN	No	Yes	Yes	No

Language Name	Locale Code	Talkman Devices	Android Devices	Pick Up and Go (PnG)	Official Translation
Thai	th_TH	Yes	Yes	Yes	Yes
Turkish	tr_TR	Yes	Yes	Yes	No
Chinese (Simplified)	zh_CN	Yes	Yes	Yes	Yes
Chinese (Hong Kong)	zh_HK	Yes	Yes	Yes	Yes
Chinese (Traditional)	zh_TW	Yes	Yes	Yes	Yes

Key Terminology

The following terms are used throughout this document.

- Resource (.resx) file: A file containing all keys for localization. A resource file can be base (no language identified, which is American English) or can contain a two or four digit locale identifier, such as es (Spanish) or es-MX (Mexican Spanish).
- Common content: Keys (words) that the app shows or speaks.
- Vocab words: Keys (words) that the app shows or speaks and can recognize when spoken by the user.
- Phonetic substitution: A string to generate an alternate pronunciation the word. For example "led" for the word "lead" when referring to the metal.
- Pick Up & Go (PnG): Speaker independent speech recognition. user training is not required but can be used to improve speech recognition.
- BlueStreak: BlueStreak speech recognition is speaker dependent. Each user must train templates that aid in speech recognition.

Speech Recognition

GWS App uses Pick & Go (PnG) or BlueStreak for speech recognition. Depending on the recognition engine the app uses, be aware that:

- PnG operators can use multiple languages.
- BlueStreak operator can only be associated to one language.

For more information on speech recognition, refer to the Speech Recognition Guide available at help.honeywellaidc.com.

Text-to-Speech (TTS) Configurations

By default, the GWS App uses the native TTS software of the device.

- The A700x uses the TTS included in VoiceCatalyst. The available TTS Engines supported in VoiceCatalyst are the same ones listed as supported for Talkman devices in [Supported Languages](#).
- Most Android devices use Google Mobile Services (GMS) for TTS functionality. These TTS engines may be pre-installed or downloaded from the Google Play store.
- Non-GMS Android devices may have an inferior TTS engine or no TTS engine.

Using Embedded TTS in Android devices

The GWS App contains Embedded TTS Engines for the following languages:

- Chinese (Simplified) - zh_CN
- Chinese (Hong Kong) - zh_HK

To enable embedded TTS for zh-CN and zh-TW, use the following configurations in either OnetimeStartupSettings.config or PersistentWorkflowSettings.config. A “true” value in each language indicates the Embedded TTS Engine is activated:

```
{
  "Repositories":
  {
    "EmbeddedTtsAVoiceLocaleSupportedOverride" : {
      "zh-CN": "true",
      "zh-HK": "true"
    },
  }
}
```

Changing System/Google TTS

GWS App changes the TTS (Text-To-Speech) language automatically based on loaded globalization culture info using the Google TTS. It automatically downloads the TTS data for the selected language. If user wants to download / update TTS manually on an android device, they can follow below steps:

1. Open **Settings**
 - a. Unlock your Android device.
 - b. Tap the **Settings** app (usually a gear icon).
2. Navigate to **Accessibility** or **System**
 - a. Scroll down and tap **Accessibility**, or
 - b. Tap **System** > **Languages & input**.
3. Tap on **Text-to-Speech Output**
 - a. Under **Accessibility** or **Languages & Input**, find and tap **Text-to-Speech Output**.
 - b. This opens the TTS settings.
4. Select **Preferred Engine**
 - a. You'll see options like **Google Text-to-Speech Engine** or other installed engines.
 - b. Tap the gear icon next to your preferred engine (usually Google TTS).
5. Change Language
 - a. Tap **Language**.
 - b. A list of supported languages appears.
 - c. Select the language you want (e.g., English (US), Spanish, French, etc.).
6. Test the Voice (Optional)
 1. Tap **Play** or **Listen to an example** to hear how the voice sounds in the selected language.
7. Adjust Speech Rate and Pitch (Optional)
 - a. You can also adjust:
 - **Speech rate**: how fast it talks
 - **Pitch**: how high or low the voice sounds
8. Exit **Settings**
 - a. Once you've made your changes, press the **back** button or **home** button to exit.

Associated Documentation

- **Guided Work Solutions Checklist Plug-In Product Description**: This document contains the information related to this specific plug-in included in this release. The Checklist Plug-In can be used to integrate Honeywell Voice with several Host Systems.
- **Guided Work Solutions Checklist Plug-In Integration Guide**: This document contains the installation and configuration information and integration specifications for the Checklist

Plug-In.

- **Guided Work Solutions Developer Guide:** This document contains detailed information about GWS concepts required to create new plug-ins or customizations.
- **Guided Work Solutions ToolVad User Guide:** This document describes the ToolVad utility, which is used to convert an existing Talkman VAD into a VAD that allows the Talkman to use the plug-in embedded mode.
 - **ToolVad 2.0** is used for most VAD conversions
 - **ToolVad 1.1.1** must be used when embedding the Distribution or Checklist Plug-Ins due to a known issue.
- **Guided Work Solutions ToolVad Release Notes:** This document contains information on the latest ToolVad release.

Getting Help

Additional Documentation

Additional documentation may be found in your product package and on online partner portals. Find most Honeywell Voice technical documentation at help.honeywellaidc.com.

Honeywell Voice Reseller Services

If you purchased equipment or services through a Honeywell Voice reseller, please contact your reseller first for support or to purchase a support plan.

Honeywell Voice Technical Support

Submit incidents or questions to honeywell.custhelp.com or contact Honeywell Technical Support Center:

- **Americas**
Email: VoiceTechnicalSupport@Honeywell.com
Phone: +1(866) 862-7877
- **Europe, Middle East, Africa**
Email: VoiceTechnicalSupport@Honeywell.com
Phone: +44 (0) 1344-65-6123
- **Rest of World**
Email: VoiceTechnicalSupport@Honeywell.com
Phone: +1 (412) 376-9384

To report support incidents or ask technical questions for other Honeywell devices, visit honeywell.com/PSStechnicalsupport.

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For order placement or customer service inquiries:

- **North America, Latin America**
Email: VoiceCustomerServiceAmericas@Honeywell.com
Phone: +1(866)862-6553
- **Europe, Middle East, Africa, Turkey**
Email: voicecustomerserviceEMEA@honeywell.com
Phone: +44 (0) 1698-915777
- **Japan**
Email: csjapan.pss@honeywell.com

Phone: +81-3-6730-7344

- **Brazil**
Email: ACSHSMCentraldepedidos@honeywell.com
Phone: +55 (31) 2391-5600
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Email: VoiceCustomerServiceAPAC@honeywell.com
Phone: +44 16989 15777

Honeywell Voice Hardware Repair

For returns or to check the status of a Return Material Authorization (RMA) for Voice hardware products:

- **Americas**
Email: VoiceRMA@Honeywell.com
Phone: +1 (866) 417-6988
- **Europe, Middle East, Africa**
Email: VoiceEMEARMA@honeywell.com
Phone: +1 (866) 417-6988
- **Rest of World**
Email: VoiceRMA@Honeywell.com

For returns or to check the status of an RMA for other Honeywell hardware products, visit the SPS RMA portal: sps-support.honeywell.com/s/pss/pss-rma

Localization Files

GWS App uses .resx files to use and modify localization. These files are XML files. You need a .resx file for each language or local language you want to target. For example:

- GWExternalResources.resx - Base language
- GWExternalResources.fr.resx - Neutral language, in this case French
- GWExternalResources.es-MX.resx - Locale, in this case Spanish (Mexico)

As you see, the name of the files takes the following form:

GWExternalResources<.Locale>.resx

Where:

- The optional <.Locale> represents the locale of the resource file contents.

Resource Fallback Hierarchy

When the GWS App loads resources for a given culture, it does not use a single resx file in isolation. Instead, it resolves each key through a strict three-level fallback chain:

1. Locale (e.g., es-MX)
 - If found, the key is used.
 - If key is not found, the next level is used.
2. Neutral (e.g., es)
 - If found, the key is used.
 - If key is not found, the next level is used.
3. Base (en – GWExternalResources.resx)

This means that if a key is missing in the locale file, the system looks for it in the neutral file. If it is also missing there, the system falls back to the base English file. This ensures no key is dropped.

Fallback Rules

Situation	Result
Locale file exists and key is found	Key resolved from locale
Locale file exists but key missing Neutral has it	Key resolved from neutral
Locale file exists but key missing Neutral is also missing key	Key resolved from base
Only locale file exists, no neutral	Recognition fails or raises a validation error
Neutral file missing entirely	Recognition fails for any language in that family

Validation Checklist

Before deploying a localized configuration, verify:

- Base file (GWExternalResources.resx) is present and contains the full command set.
- Neutral file exists for every language family used (e.g., es for es-MX and es-ES).
- Neutral file contains all keys from the base file.
- Locale file only overrides keys that differ from the neutral file.
- No locale file exists without the corresponding neutral file.

Localization Content

A localization file contains `<data></data>` tags which the app uses for localization. Each data block corresponds a phrase, word or number. For instance, this tag is used for the affirmative button text on Android:

```
<data name="AffirmativeButtonText">  
  <value>Yes</value>  
  <comment>"Yes" button text.</comment>  
</data>
```

In this example, *AffirmativeButtonText* is known as a key. The GWS App uses keys in a `GWExternalResources.resx` to populate the text you see on the screen or the phrases you can hear. **You should not modify the key**, but you can modify the value that is between `<value></value>` tags though there are some exceptions, see [Vocab Words](#).

So, if you want to localize the previous key for Spanish, you would modify the value. In this case, this tag has to be placed in `GWExternalResources.es.resx`

```
<data name="AffirmativeButtonText">
  <value>Si</value>
  <comment>"Yes" button text.</comment>
</data>
```

Tips:

- Keep the base key names in `GWExternalResources.resx` unchanged (for example: `VCOMMAND01`, `VCOMMAND01_Display`, `VCOMMAND01_Spoken`).
- In the per-language files (`GWExternalResources.es.resx`, etc.) provide localized `_Display` and `_Spoken` values for each `VCOMMAND` defined in the base file.
- `_Display` is the human-facing text. It preserves accents and punctuation.
- `_Spoken` is the ASR-friendly (Automatic Speech Recognition)/normalized form. Preferred entry is plain ASCII, lower-case, remove any diacritics or provide phonetic variant. This is what recognition and ToolVad expect for training.

Modifying Localization

Before modifying localization for GWS App, you must have:

- A `GWExternalResources.resx` file, which is a base localization file. This file contains all keys the app uses for localization.
- A `GWExternalResources.resx` could be found in the delivered 'ExternalResources' folder that ships with each GWSApp release; it is the authoritative base resource file and must reside alongside any `GWExternalResources.<locale>.resx` files.
- A text editor that supports XML.
- If you are creating a locale resx file such as French (Canadian) you must end up with three files:
 1. `GWExternalResources.resx` (the base file)
 2. `GWExternalResources.resx.fr` (the neutral language file)
 3. `GWExternalResources.fr-CA.resx` (the locale file)

IMPORTANT

Before starting to modify key values be aware of the types of content you want to localize:

- Common content: The ones the app only shows or speaks. This is the most common item to localize.
- Vocab words: The ones that the app can recognize by voice, show and speak. They are used for phonetic substitution.

To start modifying localization:

1. Create a copy of GWExternalResources.resx. You should add the language code for the language you want to target. See supported languages above.

For example, GWExternalResources.fr-CA.resx for French (Canada).

2. Open the copy with your text editor. You should see a text file like this:

```
410 <data name="CancelButtonText">
411   <value>Pas plus</value>
412   <comment>"Cancel" button text.</comment>
413 </data>
414 <data name="CasesLabel">
415   <value>cas :</value>
416   <comment>Application screen label for the number of
cases.</comment>
417 </data>
418 <data name="CasesPrompt">
419   <value>{0} cas</value>
420   <comment>Spoken prompt stating the number of cases.</comment>
421 </data>
422 <data name="confirmation_of_spoken_value">
423   <value>{0}, n'est-ce pas?</value>
424   <comment>Spoken prompt asking user for confirmation of a spoken
value.</comment>
425 </data>
426 <data name="confirmation_of_spoken_value_and_anchor">
427   <value>{0}, {1}, n'est-ce pas?</value>
428   <comment>A spoken prompt asking the user to confirm their spoken
value and anchor</comment>
429 </data>
430 <data name="ConfirmDeleteWorkerWorkflowActivity_Header">
431   <value>Supprimer ce travailleur?</value>
```

```

432     <comment>Application screen header</comment>
433 </data>
434 <data name="CurrentProductLabel">
435     <value>Point actuel :</value>
436     <comment>Application screen label for the current item.</comment>
437 </data>

```

3. Modify the value for the key you want to localize.

For example, let's say you want to modify the value for **MenuItemDialogue_ConfirmMultiple_Prompt** key and translate it to French. The original value is:

```

<data name="MenuItemDialogue_ConfirmMultiple_Prompt">
  <value>You Selected: {0}, and {1}, correct?</value>
</data>

```

The text you want to translate to French is **You Selected: {0}, and {1}, correct?**. The translated text should be: **Vous avez sélectionné : {0} et {1}, c'est bien cela?**. Then, you can update the value in the .resx file:

```

<data name="MenuItemDialogue_ConfirmMultiple_Prompt">
  <value>Vous avez sélectionné : {0} et {1}, c'est bien cela?</value>
</data>

```

4. If the key has a value within <comment></comment> tags, don't change this value.
5. Repeat steps 3 and 4 for all the keys in the .resx file.

Vocab Words

The app uses these words or phrases for:

- Speech recognition.
- Phonetic substitution.

For most vocabs, each word or phrase has three keys:

- Vocab value
 - This is the phrase for the vocab.
 - The app uses this value for storing templates in Voice Console.
 - You **must not modify** this value.

- Its length must not exceed 74 characters.
- It must not contain these special characters: |\\?*<\">+[]/'
- Display value
 - The app uses this key for displaying the vocab.
 - Modify this value according to your target language.
- Spoken value
 - The app uses this value for phonetic substitution.
 - Modify this value according to your target language.

NOTE

Vocab and spoken values always should be a lowercase string.

One example is the VCOMMANDS. Each VCOMMAND needs to have three keys:

```
<data name="VCOMMAND02" xml:space="preserve">
  <value>dock</value>
  <comment>Displayed during voice training of command 02</comment>
</data>
<data name="VCOMMAND02_Display" xml:space="preserve">
  <value>Dock</value>
  <comment>Displayed during voice training of command 02</comment>
</data>
<data name="VCOMMAND02_Spoken" xml:space="preserve">
  <value>dock</value>
  <comment>The phonetic word for command 02</comment>
</data>
```

For other phonetic substitution content, the same key is used for the vocab, spoken and display value:

```
<data name="phonetic_h" xml:space="preserve">
  <value>hotel</value>
  <comment>The phonetic word for the letter "h"</comment>
</data>
```

You can help the app to pronounce the phrases better by changing the spoken value.

For instance, the word lead (a type of metal) or lead (to guide). If you want to help the app to pronounce the metal, you should change the spoken value to "led":

```
<data name="VCOMMAND02" xml:space="preserve">
  <value>lead</value>
  <comment>Displayed during voice training of command 02</comment>
</data>
<data name="VCOMMAND02_Display" xml:space="preserve">
  <value>lead</value>
  <comment>Displayed during voice training of command 02</comment>
</data>
<data name="VCOMMAND02_Spoken" xml:space="preserve">
  <value>lead</value>
  <comment>The phonetic word for command 02</comment>
</data>
```

<-- Spoken value changed to led -->

```
<data name="VCOMMAND02_Spoken" xml:space="preserve">
  <value>lead</value>
  <comment>The phonetic word for command 02</comment>
</data>
```

Phonetic Substitution

When speaking a prompt, the application replaces the vocab value to the value provided in the spoken key. Wherever the vocab value is found inside a screen, the word is automatically changed to the display value of the language that was provided via resx.

You can find the **Phonetic Substitution** values in Voice Console for Talkman devices in the task package screen:

Task Settings | Phonetic Sub. | Device Settings | Embedded Training

Filter by locale:

Phrase	Substitution	Display	Locale
VoCollect	vo collect	VoCollect	en_US
no more	no more	no more	en_US
noise sample	noise sample	noise sample	en_US
report problem	report problem	report problem	en_US
say again	say again	say again	en_US
sign off	sign off	Sign off	en_US
X	x ray	x ray	en_US
stop assignment	stop assignment	Stop assignment	en_US
undo last entry	undo last entry	Undo last entry	en_US
skip step	skip step	Skip step	en_US
does not apply	does not apply	Does not apply	en_US
take a break	take a break	Take a break	en_US
skip section	skip section	Skip section	en_US
switch assignment	switch assignment	Switch assignment	en_US
record memo	record memo	Record memo	en_US

Values can be added to this table for any other phonetic substitutions needed. Note that adding a value to this table only enables the word to be substituted, but it doesn't enable the value to be a valid vocab to be used within the application.

For users migrating from VIO, GWS App 4.3 and later automatically maps the following VIO Vocab. This happens when Backward Compatibility is turned on and Server. mode is used. The following equivalent mappings are made in both Android and Talkman.

Vio Vocab	New Vocab Phrase
VCONFIRM	ready
VYES	yes
VNO	no
VOPTIONS	options
VSIGNOFF	signoff
VCANCEL	cancel

Example: To manage substitution for VSIGNOFF, use the existing entry for signoff instead of adding a new row for managing VSIGNOFF.

For Plug-In users, prompts using VIO Vocabs need to be updated to the available vocabs described in the following section.

Vocab Words Keys

You can reference this table when translating vocab words.

Vocab	SpokenKey	DisplayKey
no more	VocabWord_NoMore	VocabWord_NoMore
noise sample	VocabWord_NoiseSample	VocabWord_NoiseSample
report problem	OverflowMenuItem_ReportProblem	OverflowMenuItem_ReportProblem
say again	VocabWord_SayAgain	VocabWord_SayAgain
sign off	VSIGNOFF_Spoken	VSIGNOFF_Display
.	whole_number_separator_phonetic	whole_number_separator
continue	Phonetic_Continue	Display_Continue
help	Phonetic_Help	Display_Help
louder	vocab.louder	vocab.louder
negative	vocab.negative	vocab.negative
no	VocabWord_No	VocabWord_No
options	VocabWord_Option	Display_Option
ready	phonetic_accept_entry_word	ReadyButtonText
sleep	vocab.sleep	vocab.sleep
softer	vocab.softer	vocab.softer
wakeup	vocab.wakeup	vocab.wakeup
yes	VocabWord_Yes	VocabWord_Yes

Vocab	SpokenKey	DisplayKey
-	phonetic_dash	sympoL_dash
A	phonetic_a	phonetic_a
B	phonetic_b	phonetic_b
C	phonetic_c	phonetic_c
D	phonetic_d	phonetic_d
E	phonetic_e	phonetic_e
F	phonetic_f	phonetic_f
G	phonetic_g	phonetic_g
H	phonetic_h	phonetic_h
I	phonetic_i	phonetic_i
J	phonetic_j	phonetic_j
K	phonetic_k	phonetic_k
L	phonetic_l	phonetic_l
M	phonetic_m	phonetic_m
N	phonetic_n	phonetic_n
O	phonetic_o	phonetic_o
P	phonetic_p	phonetic_p
Q	phonetic_q	phonetic_q
R	phonetic_r	phonetic_r
S	phonetic_s	phonetic_s
T	phonetic_t	phonetic_t

Vocab	SpokenKey	DisplayKey
U	phonetic_u	phonetic_u
V	phonetic_v	phonetic_v
W	phonetic_w	phonetic_w
X	phonetic_x	phonetic_x
Y	phonetic_y	phonetic_y
Z	phonetic_z	phonetic_z
cancel	VocabWord_Cancel	GuidedWork_CancelButtonText

Common Content

For this type of content, the app can only speak or show them on screen.

Usually, they are:

- Prompts.
- Text for the user interface.
- Error messages.

For instance, the login button:

```
<data name="LoginButtonText" xml:space="preserve">
  <value>Login</value>
  <comment>"Login" button text.</comment>
</data>
```

Be cautious when a placeholder appears, like {0} or {1}, within the text you want to localize. You must not delete them from the text. They get replaced by another text when the app is running.

```
<data name="MenuItemDialogue_ConfirmMultiple_Prompt" xml:space="preserve">
  <value>You Selected: {0}, and {1}, correct?</value>
</data>
```

Upload Your Localization

Android Devices

Recommended:

- adb installed.
- An Android device with GWS App installed.
- All GWExternalResources<.Locale>.resx files you want to upload.

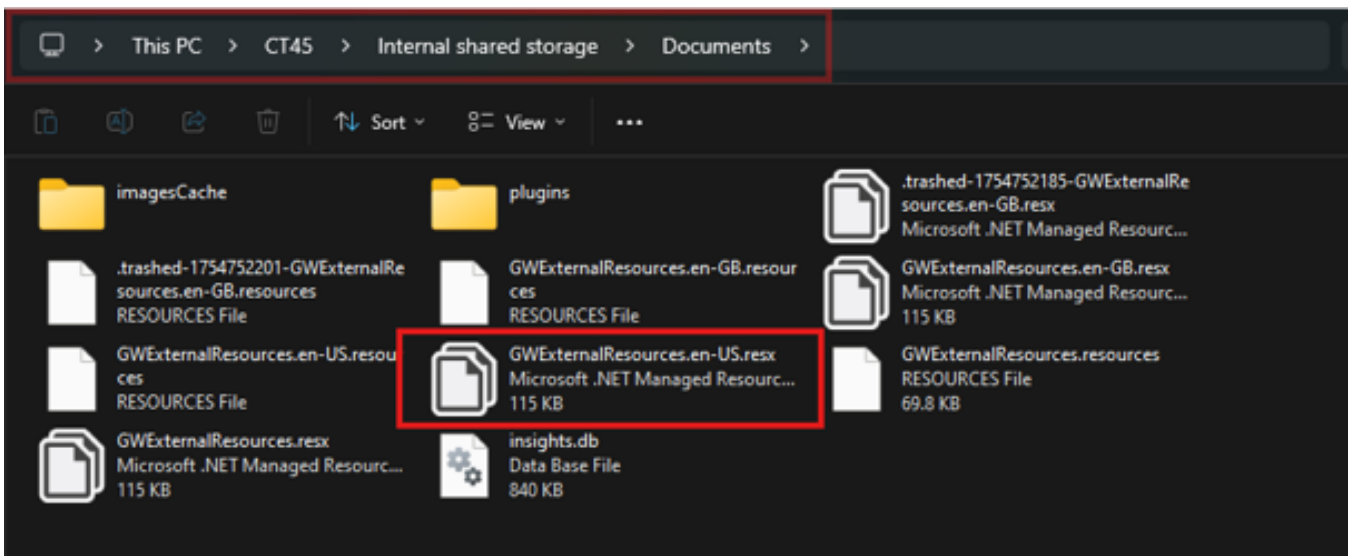
Steps:

1. Connect your Android device to your computer.
2. Turn on file sharing with your computer in your Android Device.
3. Push both GWExternalResources.resx and the modified GWExternalResources<.Locale>.resx via adb or Windows Explorer to /<InternalStorage>/Documents/ where <InternalStorage> denotes the root folder of the device.

For example, with adb:

```
adb push GWExternalResources.resx
/storage/emulated/0/Documents/GWExternalResources.resx
adb push GWExternalResources.fr-CA.resx
/storage/emulated/0/Documents/GWExternalResources.resx
```

and with Windows Explorer:



4. Open the app and transition to the home screen.
5. Change the app language to the language of the .resx you pushed.
6. You should see the changes already applied.

Talkman Devices

Before starting, you must have:

- A GWS App .vad file.
- All GWExternalResources<.Locale>.resx files you want to upload.
- Toolvad, a command line interface.

Recommended:

- Put your .vad file in the same directory as Toolvad.

There are two versions of ToolVad.

- Refer to the *GWS ToolVad User Guide 2.0* for most use cases.
- Refer to the *GWS ToolVad User Guide 1.1*. when embedding either the Checklist or Distribution Plug-In due to a known issue.

Steps when using ToolVad 2.x:

1. Put all your GWExternalResources<.Locale>.resx files inside a directory. Be sure the base GWExternalResources<.Locale>.resx is included.
2. Open PowerShell or Command Prompt where Toolvad is located.
3. Run the following command:

```
Toolvad --vad-file <VAD FILE> --resources <.RESX DIRECTORY> --output-filename <OUTPUT_FILENAME>
```

Where:

- <VAD FILE> is your GWS App .vad file.
- <.RESX DIRECTORY> is the directory that contains the .resx files.

For example:

```
ToolVad --vad-file VIO.net8.0-linux-arm64.vad --resources plugins\custom\resources --output-filename 5_plugin.vad
```

4. Toolvad creates a <NAME OF VAD>-plugin.vad file. Import this file as a Task into Voice Console.
5. Create a Task Package.
6. Load the Task Package to a A700x.

The app follows a fallback procedure when the app doesn't find a key in the current culture the app is running. For example, if **User's culture setting** is es-MX (Spanish - Mexico):

- **Resource lookup starts:** .NET looks for a resource file named `GWExternalResources.es-MX.resx`.
- **If not found:** It falls back to `GWExternalResources.es.resx` (general Spanish).
- **Still not found:** It finally falls back to `GWExternalResources.resx` (default, which is English).

If you push a `GWExternalResources.<locale>.resx` that is not officially supported by Honeywell:

- UI strings from that file are used when the app runs in that culture. There is no need to add to `LanguageNames`.

PnG availability:

- If the apk contains the PnG models for the language, PnG is automatically enabled when any `VoiceConsole` version is used.
- For `VoiceConsole` SaaS deployments, if a PnG model exists on the server and the device has network connectivity, the model is downloaded and PnG is enabled.
- For `VoiceConsole` On Prem deployments, it is not possible to download PnG models. The apk with the complete set of models needs to be used to support PnG.

FAQ

- What is it in a base `GWExternalResources.resx` file?
A base `.resx` file contains all the keys to localize GWS App (around +600 keys), for both Android and Talkman. The content of this `.resx` file is in English, which is the base language.

Consider that:

- `GWExternal` `resx` files contained in plug-in packages contain the keys for GWS App plus other keys the plug-in can use.
- For custom plug-ins, you should add any key that your plug-in requires.
- Can I add `VCOMMANDS` to a task through `Voice Console` for a Talkman device?
No, `Voice Console` doesn't support adding `VCOMMANDS`. You can only add `VCOMMANDS`

using Toolvad.

- If I am using different plug-ins, how does localization for each plug-in work?
To effectively use localization for a plug-in, you have to push the `GWExternalResources.resx` for the plug-in the app uses at the moment on Android.

For Talkman, you can only target the localization for one plug-in, either for Embedded or Service mode.

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