

***** VoiceAttack Virtual Co-Pilot v2.9 *****

The Virtual Co-Pilot is a VoiceAttack profile that will call out **YOUR OWN** checklist items for any aircraft. Simply create a list of checklist items in a text file and point the profile to that file, and the Virtual Co-Pilot will audibly walk you through the checklist items when commanded.

There are two profiles included:

Checklist Template.vap will call out your first checklist item and wait for you to say "Check" before continuing. If you say "Repeat", the last checklist item will be repeated. If a response is not provided within 60 seconds, the virtual co-pilot will ask if you want to exit the checklist (*in case you have forgotten to complete or exit a running checklist*).

Continuous Checklist Template.vap will call out all checklist items in sequence with a 3 second pause between each, unless you say "Pause" or "Stop", at which time the call out will stop until you say "Continue". The code can easily be modified to change the default pause time between callouts.

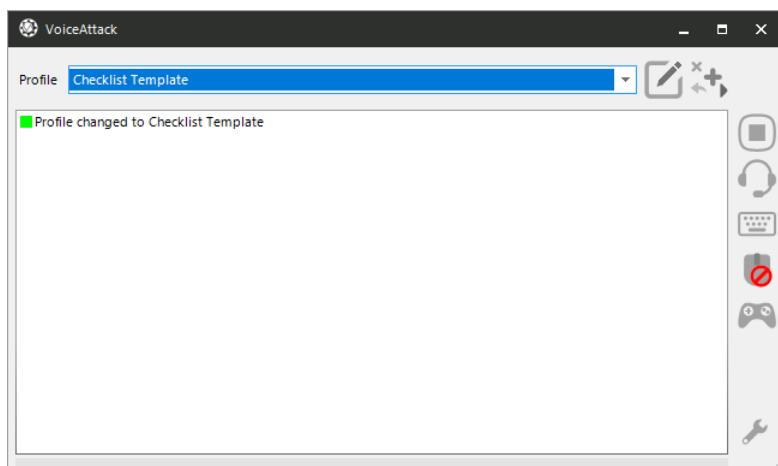
Video: https://youtu.be/_9i0EnDm4HA

Follow the three steps below to setup VoiceAttack to use the Virtual Co-Pilot profile. This is a one-time process:

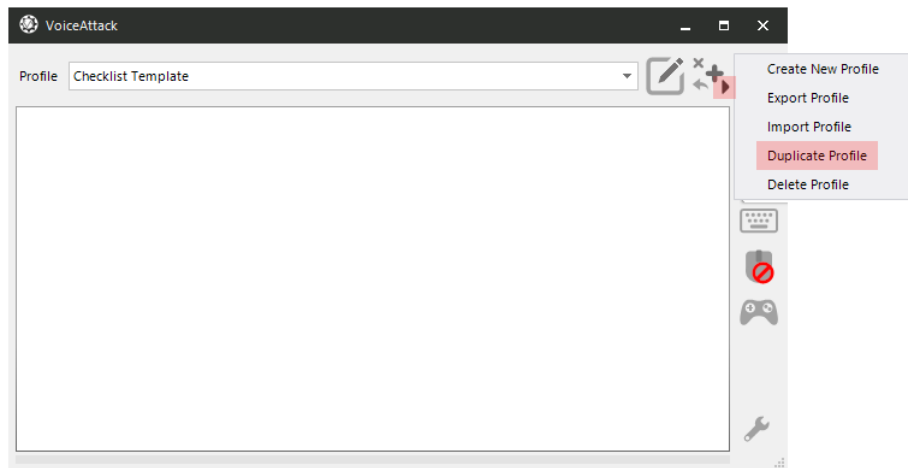
1. Create a folder anywhere on your PC named "Checklists".
2. Extract the **Virtual Co-Pilot.zip** file to this folder.
3. Open VoiceAttack and import either the "Checklist Template.vap" file or the "Continuous Checklist Template.vap" file (*or both files if you will want to try/use both options*).

Follow the steps below whenever you want to create a set of checklists for an aircraft:

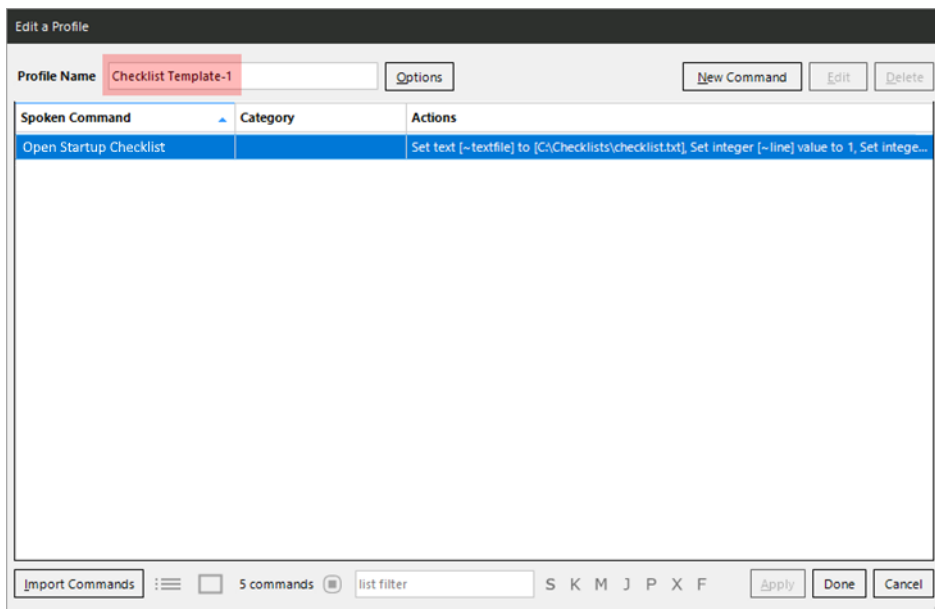
1. Open the "/Checklists" folder you created in step 1 above.
2. Create a sub-folder and name it the same as your aircraft (e.g. /Checklists/Cessna172)
3. Open the **Notepad.exe** program (*or any word processor*), and create a list of checks you want to perform for a particular checklist. Put each check on a separate line.
4. Save this file to the aircraft folder you created in step 2, and name the file according to the type of checklist it is for (e.g. *Startup.txt*).
5. Repeat steps 3 and 4 for every checklist you want to use for this particular aircraft.
6. Once you have created all checklist text files, open the VoiceAttack program and select either the "Checklist Template" file or the "Continuous Checklist Template" profile you imported (*step 3 above*).



7. Use the **Actions** menu to make a duplicate of the profile.



8. Click the **Edit Profile** icon to edit this new profile, and rename it (use your aircraft designation e.g. "Cessna172 Checklists")



Note: While in *Edit* mode, you will see that your new profile contains only one checklist. You can, rename and duplicate it as needed or desired to create addition checklists.

9. Now that you have a new checklist profile for your aircraft, the easiest way to start is to double-click the default “*Open Startup Checklist*” item to open it. If you want to use a different voice command for opening the checklist, you will want to modify the “**When I say:**” text to whatever you want. Otherwise, you can keep the default if it works for you.

Edit a Command

This command is executed:

- ☒ **When I say:** Open Landing Checklist
- ☐ **When I press keys:** Not assigned
- ☐ **When I press button:** Not assigned
- ☐ **When I press mouse:** Not assigned

When this command executes, do the following sequence:

- Key Press** MODIFY PATH AND FILE BELOW FOR YOUR CHECKLIST
- Mouse >** Set text [~textfile] to [C:\Checklists\checklist.txt]
- Pause >** Set integer [~line] value to 1
- Other >** Set integer [~targetline] value to the value of [~line]
- Recorder** Inline C# Function: Get line
- Say, '[TXT:~lineOutput]'
- Wait for spoken response: 'Check/Exit Checklist'
- Set integer [~line] to [~line] plus 1
- Start Indefinite Loop
- Begin Text Compare : [resp] Equals 'check'
- Set integer [~targetline] value to the value of [~line]
- Inline C# Function: Get line

Description:

Category:

☐ Send command to this target:

- ☒ Active Window
- ☐

Recognition:

Command Type:

Prefix/suffix group:

☐ Allow other commands to execute while this one is running

☐ Always execute this command

☐ Stop command if target window focus is lost

☐ Resume command if focus is regained

☐ Minimum confidence level:

Repeating:

2 times

OK Cancel

10. Next, double-click the second command line (*Set text [~textfile]...*) to open the associated dialog box below. Then click the menu button (...).

Set a Text Value

Set a text value to be used with various features, such as Text-To-Speech. This value can be accessed in various areas by using [TXT:variable name] tokens.

Variable Name:

Set Text Value To:

- ☐ Text
- ☐ A variable
- ☐ Retrieve saved value
- ☐ Clear variable value (set value to Not Set)
- ☒ Value from file/URI: C:\Checklists\checklist.txt

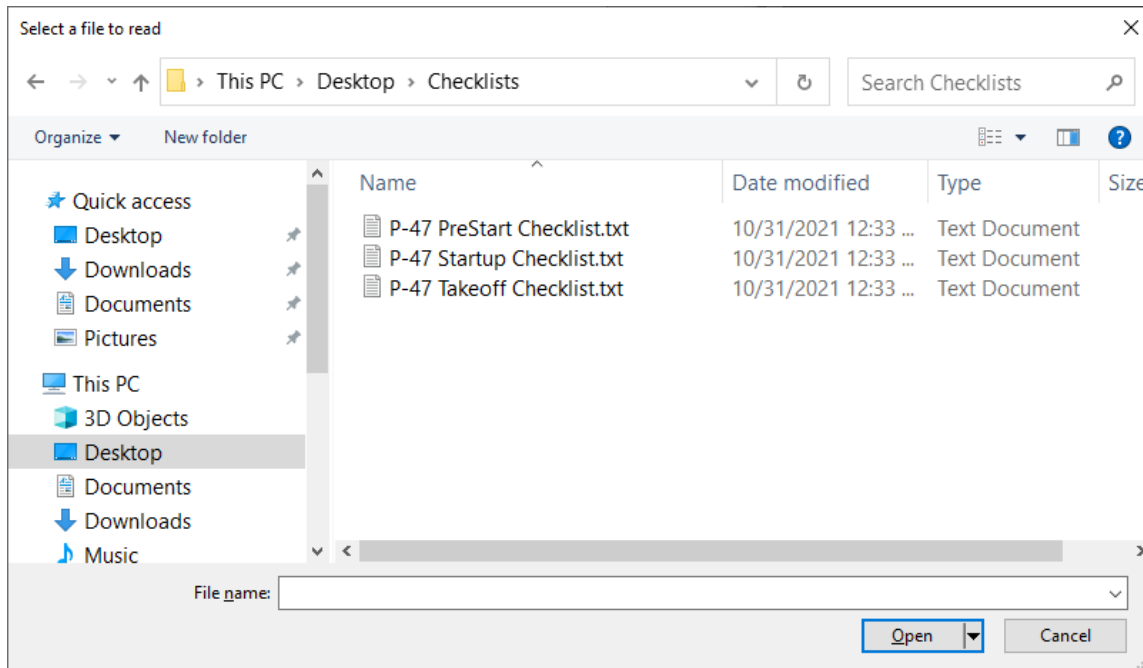
Text Options :

- ☒ Trim Spaces
- ☐ Upper Case
- ☐ Lower Case
- ☐ Replace: with
- ☐ Save value to profile

Click, 'OK' to update this action.

OK Cancel

11. When the dialog box opens, navigate to the “*Checklists/[aircraft]*” folder you created, select the checklist text file you want the virtual co-pilot to read from then, click the **Open** button.



12. Click the **OK** button to save command changes then, and click the **Apply** button to save the profile changes. Repeat steps 9-12 for any other checklists you created for this aircraft.

Follow the steps below to use one of your checklists:

1. Once you are in your aircraft (*with VoiceAttack running in the background with your aircraft profile selected*), start the virtual co-pilot by saying the VoiceAttack command assigned to a checklist (e.g. "Open Startup Checklist"). The virtual co-pilot will call out the first check from your list. As previously described, one of the templates will wait for you to say the word "**check**" or "**repeat**" before continuing, while the other will pause 3 seconds and then continue automatically.
2. When the last checklist item has been called out and you say "**check**", the virtual co-pilot will say, "**Checklist complete**".

At any time during the call out you can say "**exit checklist**" to stop the virtual co-pilot. A tone will be played to confirm that the checklist has been stopped.

Caution: To avoid VoiceAttack sync problems, make sure to either finish a checklist or exit a checklist before invoking a new one. Otherwise, you may hear both at the same time.

Follow the steps below if you want to change the TTS voice:

1. With the profile activated in **VoiceAttack**, click the '*Edit Profile*' icon to view the code.
2. In the code list you will see three separate lines that read, **Say, '{TXT:~lineOutput}'**. Double-click one of these lines to open the TTS dialog box. There you can use the "Voice" drop-down box provided to change voices. Do this for all three instances.

Say Something with Text-To-Speech

Say Something with Text-To-Speech

Give yourself audible feedback using Text-To-Speech. Just type what you want VoiceAttack to say, select a voice, adjust the volume, and click, 'Preview' to try it out. Separate statements with a semicolon (;) and VoiceAttack will pick one at random. Note that you can use square brackets for dynamic responses (see documentation for more info).

{TXT:~lineOutput}

Voice: **Microsoft Zira Desktop** Channel: **Default** Preview

Volume: 100%

Rate: 0 Effect Set: **None** ...

☐ Use Speech Synthesis Markup Language (SSML) ☐ This completes all other currently-playing text-to-speech

☐ Wait until speech completes before continuing command ☐ Mass update

Click, 'OK' to update this action.

OK Cancel

Follow the steps below if you want to change the timeout timer in the standard template:

1. With the profile activated in **VoiceAttack**, click the '*Edit Profile*' icon to view the code.
2. In the code list you will see the highlighted line below. Double-click this line and change the timeout value.

The screenshot shows the 'Edit a Command' window in VoiceAttack. The command is named 'Open Startup Checklist'. The sequence of actions includes setting a text file, setting an integer, and a loop that compares text responses. A specific line in the loop, 'Wait for spoken response: 'Check;Exit Checklist'', is highlighted in red. A dialog box titled 'Wait For Spoken Response' is open over the command editor. This dialog box has a text field for 'Responses' containing 'Check;Exit Checklist', a 'Text Variable' field with 'resp', and a 'Timeout' field set to '60.000 seconds'. The 'Continue on any Speech' checkbox is unchecked. The dialog box also includes 'OK' and 'Cancel' buttons and a note: 'Click, 'OK' to update this action.'

Edit a Command

This command is executed:

- ☒ When I say: Open Startup Checklist
- ☐ When I press keys: Not assigned
- ☐ When I press button: Not assigned
- ☐ When I press mouse: Not assigned

When this command executes, do the following sequence:

- Key Press
- Mouse >
- Pause >
- Other >
- Recorder

MODIFY PATH AND FILE BELOW FOR YOUR CHECKLIST

Set text [~textfile] to [C:\Checklists\F16C\Startup.txt]

Set integer [~line] value to 1

Set integer [~targetline] value to the value of [~line]

Inline C# Function: Get line

Say, 'TXT:~lineOutput'

Wait for spoken response: 'Check;Exit Checklist'

Set integer [~line] to [~line] plus 1

Start Indefinite Loop

Begin Text Compare : [resp] Equals 'check'

Set integer [~targetline] value to the value of [~line]

Inline C# Function: Get line

Begin Text Compare : [~lineOutput] Equals 'checklist complete'

Say, 'TXT:~lineOutput'

Pause 3 seconds

Stop VoiceAttack command processing

Else

Say, 'TXT:~lineOutput'

End Condition

Else If Text Compare : [resp] Equals 'Exit Checklist'

Play sound, 'internal:Thomb'

Pause 1 second

Stop VoiceAttack command processing

End Condition

Marker: CONTINUE

Wait for spoken response: 'Check;Exit Checklist'

Begin Text Compare : [resp] Has Not Been Set

Say, 'Do you want to exit checklist?'

Wait for spoken response: 'no;yes'

Begin Text Compare : [~question] Equals 'yes'

Play sound, 'internal:Thomb'

Pause 3 seconds

Stop VoiceAttack command processing

Else If Text Compare : [resp] Equals 'Exit Checklist'

Jump to Marker

End Condition

End Condition

Set integer [~line] to [~line] plus 1

End Loop

Description

Category: Checklists

☐ Send command to

☒ Active Window

Recognition

Command Type

Prefix/suffix group

Wait For Spoken Response

This action will wait for particular spoken responses from the user. The response given by the user is placed in a variable. If the user does not respond, you can specify a certain amount of time to wait before continuing.

Responses: Check;Exit Checklist

Text Variable: resp

Timeout: 60.000 seconds

☐ Continue on any Speech

Click, 'OK' to update this action.

OK Cancel

Follow the steps below if you want to change the pause time in the “Continuous” template:

1. With the profile activated in **VoiceAttack**, click the 'Edit Profile' icon to view the code.
2. In the code list you will see two lines that reads, “**Pause 3 seconds**”. Simply double-click these lines and change the value to whatever you want to use.

Edit a Command

This command is executed:

☒ When I say:

Open Startup Checklist

☐ When I press keys:

Not assigned

...

☐ When I press button:

Not assigned

...

☐ When I press mouse:

Not assigned

...

When this command executes, do the following sequence:

Key Press

Mouse >

Pause >

Other >

Recorder

MODIFY PATH AND FILE BELOW FOR YOUR CHECKLIST

Set text [~textfile] to [C:\Checklists\checklist.txt]

Set integer [vPause] value to 0

Set integer [~line] value to 0

Start Indefinite Loop

Marker: loop

Set integer [~line] to [~line] plus 1

Set integer [~targetline] value to the value of [~line]

Inline C# Function: Get line

Begin Text Compare : [~lineOutput] Equals 'checklist complete'

Say, 'TXT:~lineOutput'

Pause 3 seconds

Stop VoiceAttack command processing

Else

Say, 'TXT:~lineOutput' (and wait until it completes)

Pause 3 seconds

End Condition

Start Indefinite Loop

Begin Small Integer Compare : [vPause] Equals 1

Wait for spoken response: 'continue'

Set integer [vPause] value to 0

Jump to Marker: loop

Else

Jump to Marker: loop

End Condition

End Loop

End Loop

Up

Down

Edit

Delete

↶

↷

Description

☒ Allow other commands to execute while this one is running

Category

☐ Always execute this command

Advanced

☐ Send command to this target:

☒ Active Window

☐

☐ Stop command if target window focus is lost

Recognition

Normal

☐ Resume command if focus is regained

Command Type

Full command

☐ Minimum confidence level

0

Prefix/suffix group

Repeating

Execute only once

2

↑

↓

times

OK

Cancel