

***** VoiceAttack Virtual Co-Pilot v2.7 *****

The Virtual Co-Pilot is a VoiceAttack profile that will call out **YOUR OWN** checklist items for any DCS 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 to the next. 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 (*a precaution to prevent two checklists from running at the same time 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.

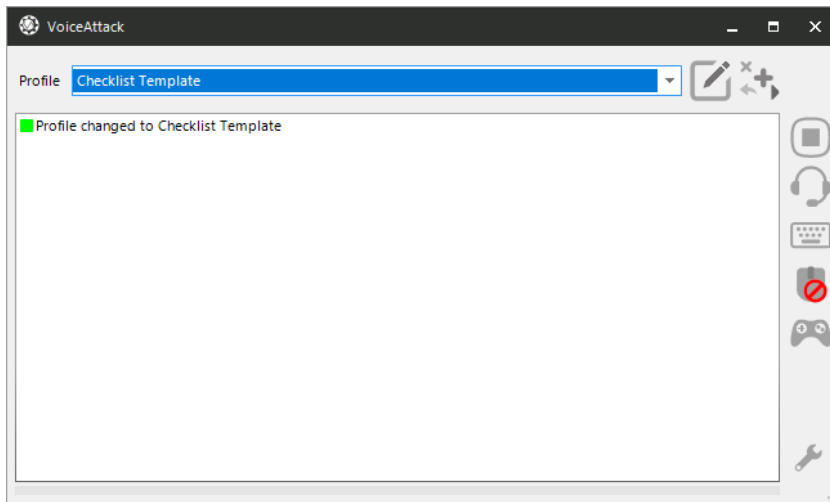
Video: https://youtu.be/_9i0EnDm4HA

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

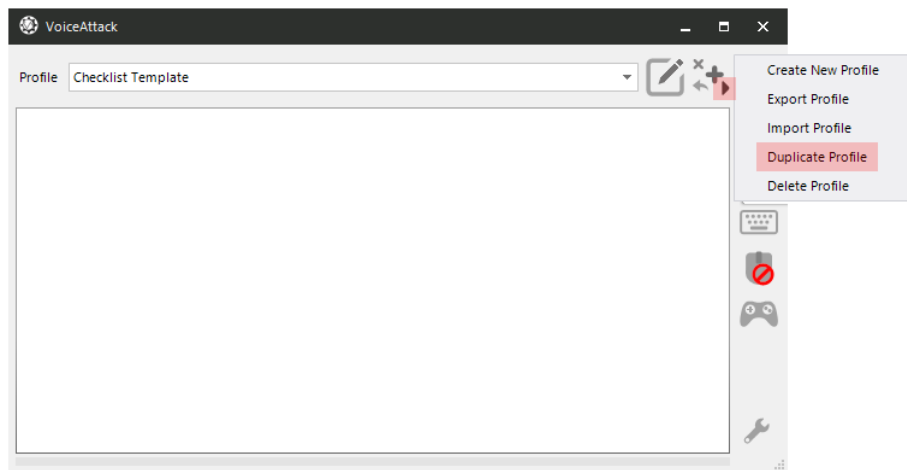
1. Create a folder anywhere on your PC named "Checklists".
2. Extract the **Virtual Co-Pilot.zip** file to this folder.
3. Open VoiceAttack and import either the "Checklist Template.vap" file or the "Continuous Checklist Template.vap" file (*or both files if you will want to try/use both options*).

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

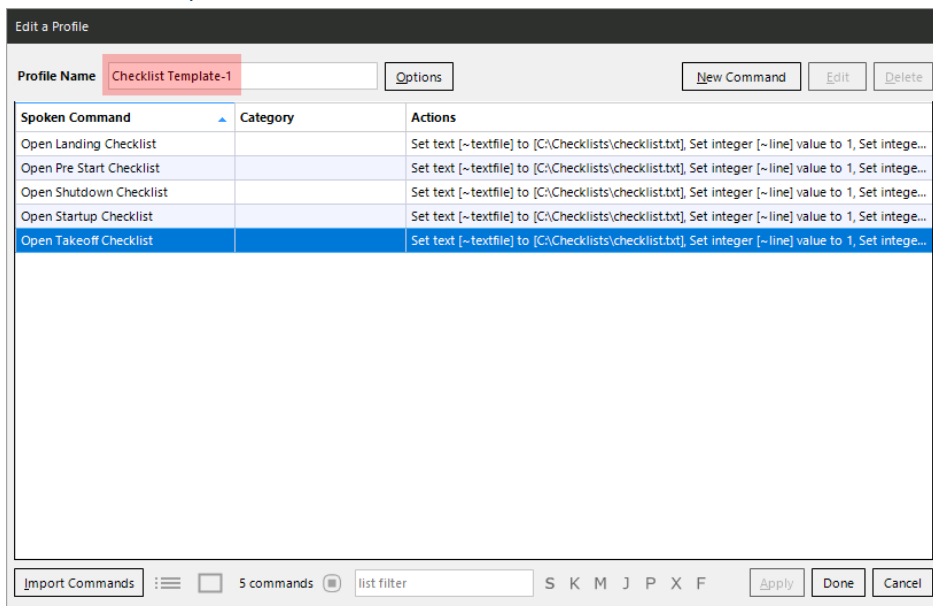
1. Open the **Notepad.exe** program (*or any word processor*), and create a list of checks you want to perform for a particular checklist. Put each check on a separate line.
2. Save this file to the "Checklists" folder you created above, and name the file according to the aircraft and type of checklist it is for (e.g. *P-47 Startup Checklist.txt*).
3. Repeat step 2 for every checklist you want to use for this particular aircraft.
4. Once you have created all checklist text files, open the VoiceAttack program and select the profile you previously imported.



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



6. Click the **Edit Profile** icon to edit this new profile, and rename it (*use your aircraft designation e.g. "P-47D Checklists"*)



Note: While in *Edit* mode, you will see that your new profile contains five typical aircraft checklists. You can use any of these as they are, rename them, duplicate them, or delete them as needed or desired.

7. Now that you have a new checklist profile for your aircraft, the easiest way to start is to double-click one of the default checklist items 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 >**
- Other >** Set integer [~line] value to 1
- Recorder** 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

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

8. 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

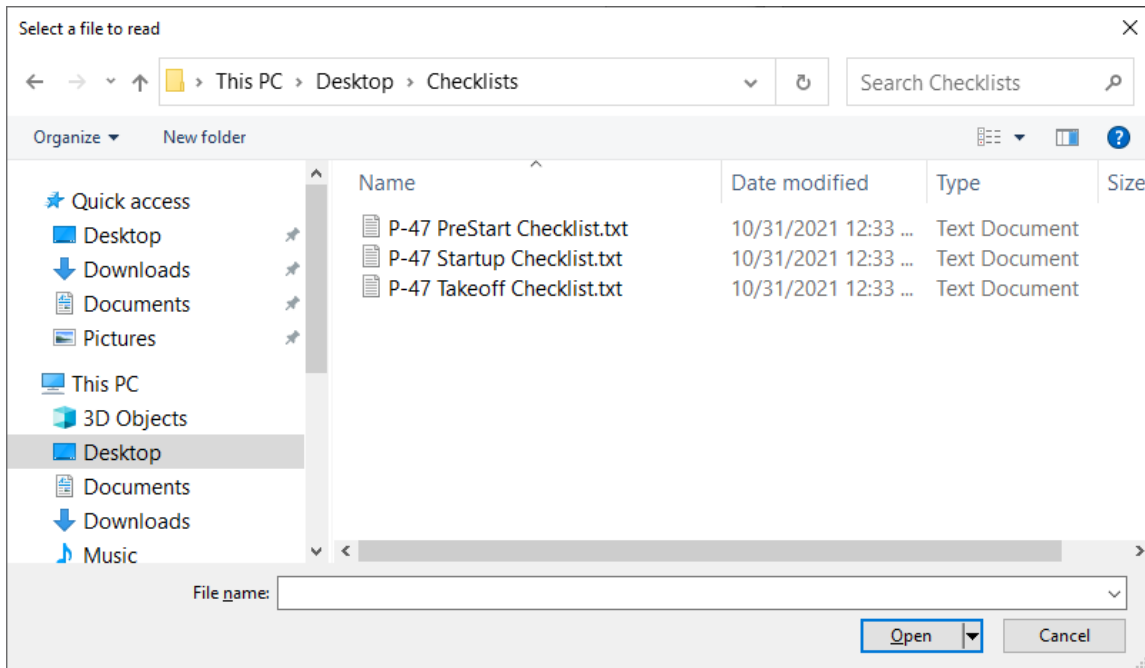
Text Options :

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

Click, 'OK' to update this action.

OK Cancel

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



- Click the **OK** button to save command changes then, and click the **Apply** button to save the profile changes. Repeat steps 7-9 for any other checklists you created for this aircraft.

Follow the steps below to use one of your checklists:

- Once you are in your aircraft, 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**" before continuing, while the other will pause 3 seconds and then continue automatically.
- When all checklist items have been called out 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.

The screenshot shows a dialog box titled "Say Something with Text-To-Speech". At the top, there is a header bar with the title and a star icon. Below the header, there is a text area containing the code "{TXT:~lineOutput}". To the right of the text area, there is a speech bubble icon and a star icon. Below the text area, there are several controls: a "Voice" dropdown menu set to "Microsoft Zira Desktop", a "Volume" slider set to 100%, a "Rate" slider set to 0, a "Channel" dropdown menu set to "Default", and an "Effect Set" dropdown menu set to "None". There are also checkboxes for "Use Speech Synthesis Markup Language (SSML)", "Wait until speech completes before continuing command", "This completes all other currently-playing text-to-speech", and "Mass update". At the bottom right, there are "OK" and "Cancel" buttons. A small note at the bottom left says "Click, 'OK' to update this action."

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 'Open Startup Checklist'. The sequence of actions includes setting a text file, setting an integer, and a loop for checking the status. A 'Wait for spoken response: 'Check;Exit Checklist'' action is highlighted in red. A dialog box titled 'Wait For Spoken Response' is open, showing the 'Responses' field with 'Check;Exit Checklist', the 'Text Variable' as 'resp', and the 'Timeout' set to '60.000 seconds'. The dialog also has a 'Continue on any Speech' checkbox and 'OK' and 'Cancel' buttons.

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** MODIFY PATH AND FILE BELOW FOR YOUR CHECKLIST
Set text [~textfile] to [C:\Checklists\F16C\Startup.txt]
- Mouse >**
- Pause >**
- Other >**
- Recorder**
- 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 : [resp] Equals 'no'**
 - Play sound, 'internal:Thomb'
 - Pause 3 seconds
 - Stop VoiceAttack command processing
- Else If Text Compare : [resp] Equals 'yes'**
 - Jump to Marker: CONTINUE
- End Condition**
- End Loop**

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