EB GUIDE Speech Extension tutorial

Inserting variable placeholders into speech input Copyright © 2017 Elektrobit Automotive GmbH

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1. Tutorial: Inserting variable placeholders into speech input

The following instructions guide you through the process of configuring a command with a datapool slot. The datapool slot is linked to a datapool item with a list of radio stations.

Approximate duration: 10 minutes.



Adding a datapool item of type String list

The following instruction guide you through the process of adding two datapool items. The first datapool item provides values for a list of radio stations. The datapool items will be used within an SRGS grammar of a command.

Prerequisite:

- The EB GUIDE model contains a talk state.
- The Change station event is added.
- The content area displays a talk.
- The talk contains an SSML prompt.
- The SSML prompt property is linked to a datapool item of type SSML prompt.
- The datapool item contains the text Select a station.
- The navigation area displays the All tab.

Step 1

In the navigation area, go to **Datapool**, and click \square .

A menu expands.

<u>Step 2</u> In the menu, click String list.

A new datapool item of type String list is added.

Step 3

Rename the datapool item to Radio station result.

Step 4

Add another datapool item of type String list or copy and paste the first datapool item with Ctrl+C and Ctrl+V.

Step 5

Press the F2 key and rename the datapool item to ${\tt Radio}$ station list.

Step 6

In the Properties panel, go to the Value property, and click the ... button next to the property.

An editor opens.

```
Step 6.1
```

To add an item to the list, click Add.

A new entry is added to the table.

Step 6.2 Enter Station one in the Value text box.

<u>Step 6.3</u> Add the following values to the Radio station list datapool item.

- Station two
- Station three
- Station four

```
Step 6.4
Click Accept.
```

The content of the list is displayed next to Value.

You added two datapool items of type String list.



Adding a command and linking the SRGS grammar

Prerequisite:

You completed the previous instruction.

Step 1

Drag a command from the **Toolbox** into the lower section of the content area.

A dialog opens.

<u>Step 2</u> To add a datapool item, enter RadioGrammar in the combo box.

<u>Step 3</u> Click Add datapool item.

<u>Step 4</u> Confirm with **Accept**.

The dialog closes. In the properties panel, next to the grammar property, the button is displayed. It indicates that the grammar property is linked to a datapool item.

Step 5

In the navigation area, click the command.

Step 6

Rename the command to ${\tt Radio}.$

You added a command and linked the grammar property to a new RadioGrammar datapool item of type SRGS grammar.



Adding and editing a datapool slot

The following instructions guide you through the process of adding a datapool slot to a command. You link the datapool slot to the datapool items that you created previously.

Prerequisite:

You completed the previous instruction.

Step 1

In the content area, double-click the Radio command.

The content area displays an editor.

Step 2

Drag a datapool slot from the Toolbox into the Slot instance section in the content area.

<u>Step 3</u> Select the datapool slot.

The Properties panel displays the properties of the datapool slot.

<u>Step 4</u> Go to the **Properties** panel.

Step 5

In the ${\tt slotName}\ text$ box enter ${\tt Station}.$

Step 6

Next to the <code>recognizedOrthography</code> property, click the \hfill button.

A menu expands.

<u>Step 6.1</u> Select Add link to datapool item.

Step 6.2 Select Radio station result.

Step 6.3 Click Accept.

Step 7

Next to the inputOrthography property, click the **button**.

A menu expands.

<u>Step 7.1</u> Select Add link to datapool item.

<u>Step 7.2</u> Select Radio station list.

Step 7.3 Click Accept.

You added the Station datapool slot to the Radio command. You linked the properties to datapool items.

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Figure 1. Datapool slot inside a command



Defining an SRGS grammar for the command

Prerequisite:

You completed the previous instruction.

Step 1

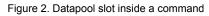
In the content area, go to the SRGS grammar section.

```
Step 2
Enter Select.
```

Step 3

Drag the Station datapool slot from the Slot instance section into the SRGS grammar section.

 SRGS grammar Select \$<station></station> 	
✓ Slot Instance	
Datapool slot	
SLOT NAME	INPUT ORTHOGRAPHY
Station	Radio station list: Station one Station two Station three Station for
✓ Reaction	





To see a reaction on user input, you fire an event which changes a radio station.

Prerequisite:

You completed the previous instruction.

Step 1

In the content area, go to the Reaction section.

<u>Step 2</u> Enter the following EB GUIDE Script:

```
function()
{
  fire ev:"Change station"()
}
```

Every time a user input for the Radio command is recognized the Change station event is fired. The datapool item Radio station result contains the recognized radio station with highest confidence, e.g. Station three.