

# Variables

VoiceXML variables and ECMAScript variables share the same variable space. In other words, variables declared in a `<script>` element can be used in VoiceXML, and ECMAScript can use variables declared by a `<var>` element.

The variables can be declared in 3 different ways:

- By a `<var>` element.
- Within the `<script>` element in an ECMAScript block.
- Field item variables declared by one of the form items: `<block>`, `<field>`, `<initial>`, `<object>`, `<record>`, `<subdialog>`, `<transfer>`, `<data>`

VoiceXML defines the following variable scopes:

## Session Variables

Session variables are available to all VoiceXML applications within a particular session. They are declared by the interpreter and are read-only. New session variables cannot be declared by VoiceXML documents. The following are standard VoiceXML session variables:

### **session.connection.local.uri**

This variable refers to the DNIS (Dialed Number Identification Service). It provides the telephone number dialed by the caller if the service is supported, (alias `session.telephone.dnis`).

### **session.connection.remote.uri**

This variable refers to the ANI (Automatic Number Identification). It provides the telephone number of the caller if the service is supported, (alias `session.telephone.ani`).

The following are specific session variables added by Vxi VoiceXML browser:

### **session.telephone.session**

This variable indicates the session/channel ID.

### **session.telephone.id**

This variable contents the call ID or a user parameter assigned by the Asterisk Extension script.

### **session.telephone.param**

This variable contents a user parameter assigned by the Asterisk Extension script.

## Application Variables

Application variables are available to the root document and its application leaf documents. They are

declared by the <var> elements of application root document's <vxml> element. Application variables defined in the root document can be referenced by the application leaf documents as application.variable. The following are standard VoiceXML application variables:

### **application.lastresult\$[i]**

This read-only variable holds information about the last recognition to occur within this application. It is an array of elements, application.lastresult\$[i], for the N-best recognition.

#### **application.lastresult\$[i].confidence**

This variable is the confidence level for this interpretation from 0.0 (minimum confidence) to 1.0 (maximum confidence).

#### **application.lastresult\$[i].utterance**

This variable indicates the raw string of words that were recognized for this interpretation.

#### **application.lastresult\$[i].inputmode**

The input mode variable is the mode in which user input was provided: DTMF or Voice.

#### **application.lastresult\$[i].interpretation**

The last result variable is the interpretation of this result. It will be the same as raw results for index 0 when no slot match was found, and for any index > 0.

#### **application.lastresult\$[i].recording**

Enable if property **recordutterance** is set to true. This variable contain the last audio part treat by field or record tag, or undefined if no audio is collected.

#### **application.lastresult\$[i].recordingsize**

Enable if property **recordutterance** is set to true. This variable contain the size of the recording in bytes, or undefined if no audio is collected.

#### **application.lastresult\$[i].recordingduration**

Enable if property **recordutterance** is set to true. This variable contain the duration of the recording in milliseconds, or undefined if no audio is collected.

## **Document Variables**

Document variables are available within the VoiceXML document. They are declared by the <var> elements that are children of the <vxml> element. Certain form items (<field>, <record>, <transfer>) may declare shadow variables in addition to the field item variable itself. Please refer to each tag reference for detailed information.

## Dialog Variables

Each dialog (<form> or <menu>) has a dialog scope that exists while the user is visiting the dialog. Variables are declared by <var> elements or by form items.

## Anonymous Variables

<block>, <filled>, and <catch> (includes <error>, <help>, <noinput>, and <nomatch>) elements define a new anonymous scope to contain variables declared in that element. Other predefined anonymous variables are available within the <catch> and <enumerate> elements. Please refer to the tag reference for detailed information.

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