



Number_with_Confirm

The `Number_With_Confirm` voice element captures a standard number, and presents a confirmation menu allowing the caller to either accept their entry or re-enter the number. The number can be spoken or entered using the keypad. The resulting value will be stored in element data as a decimal value. The number can be negative or positive and can contain a decimal point. Using DTMF entry, however, the number is restricted to being positive and the decimal point is entered by pressing the * key. Using speech input, the number may be spoken naturally.

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Events

Name (Label)	Notes
Event Type	You can select Java Exception , VXML Event , or Hotlink as event handler for this element.

Settings

Name (Label)	Type	Req'd	Single Setting Value	Substitution Allowed	Default	Notes
inputmode (Input Mode)	string enum	Yes	true	false	both	The type of entry allowed for input. Possible values are: voice dtmf both.
noinput_timeout (Noinput Timeout)	string	Yes	true	true	5s	The maximum time allowed for silence or no keypress before a noinput event is

						thrown. Possible values are standard time designations including both a non-negative number and a time unit, for example, 3s (for seconds) or 3000ms (for milliseconds). Default = 5s.
number_max_noinput_count (Number Max NoInput Count)	int ≥ 0	Yes	true	true	3	The maximum number of noinput events allowed during number input capture. 0 = infinite noinputs allowed.
number_max_nomatch_count (Number Max NoMatch Count)	int ≥ 0	Yes	true	true	3	The maximum number of nomatch events allowed during number input capture. 0 = infinite nomatches allowed.
confirm_max_noinput_count (Confirm Max NoInput Count)	int ≥ 0	Yes	true	true	3	The maximum number of noinput events allowed during number input confirmation. 0 = infinite noinputs allowed.
confirm_max_nomatch_count (Confirm Max NoMatch Count)	int ≥ 0	Yes	true	true	3	The maximum number of nomatch events allowed during number input confirmation. 0 = infinite nomatches allowed.
max_disconfirmed_count (Max Disconfirmed Count)	int ≥ 0	Yes	true	true	3	The maximum number of times a caller is allowed to disconfirm a captured input. 0 = infinite disconfirmations allowed.
number_confidence_level (Number Confidence Level)	decimal (0.0 – 1.0)	Yes	true	true	0.40	The confidence level threshold to use during number capture.
confirm_confidence_level (Confirm Confidence Level)	decimal (0.0 – 1.0)	Yes	true	true	0.50	The confidence level threshold to use during confirmation.
modal (Disable Hotlinks)	boolean	Yes	true	true	false	If set to true, only the grammars of the current <code>Number_With_Confirm</code> element (the builtin number and boolean grammars) will be enabled for the duration of the element. Otherwise all active grammars will be enabled.
secure_logging (Secure Logging)	boolean	Yes	true	true	false	If set to true, user DTMF input for the element is considered secure and the attributes <code>utterance</code> , <code>interpretation</code> , <code>value</code> , <code>nbestUtteranceX</code> and <code>nbestInterpretationX</code> are masked in VXML server logs. The format used to render secure element attributes is to add a <code>_secureLogging</code> suffix. For example <code>nbestUtterance1_secureLogging,****</code> .

maxnbest (Maxnbest)	int \geq 1	Yes	true	true	1	The maximum number of speech recognition results that can be generated per voice input.
dtmf_overlay (DTMF Overlay)	Boolean	Yes	true	true	false	<p>Setting this property to <code>true</code> will enable the generation of random DTMF digits tone at random duration while DTMF recognition is in progress.</p> <p>Note <code>dtmf_overlay</code> supports only the following VoiceXML Gateways, and one of these options must be selected before creating or deploying the Call Studio application.</p> <ul style="list-style-type: none"> • Cisco DTMF • VoiceXML 2.1 Cisco DTMF
dtmf_overlay_interval (DTMF Overlay Interval)	String	Yes	true	true	1000ms	<p>Time Interval (in ms) between the generation of two DTMF tones. The interval is a random number that is +/-25% of the duration that is mentioned. For example, if the duration mentioned is 1000ms, the interval will be between 750ms and 1250ms.</p> <p>Note The duration mentioned must be between 500ms (minimum) and 2000ms (maximum).</p>

Refer to the Element Data table for information about `nbestUtteranceX` and `nbestInterpretationX`.

Element Data

Name	Type	Notes
Value	string	The number captured and stored as a whole or decimal number with an optional minus sign.
value_confidence	float	This is the confidence value of the captured number utterance. When n-best recognition is enabled, this stores the confidence score of the top hypothesis in the n-best list.
confirm_confidence	float	This is the confidence value of the captured confirm utterance.
nbestLength	int \geq 1	This stores the number of n-best hypotheses generated by the speech engine.

<p>nbestUtterance1 nbestUtterance2 ... nbestUtteranceX</p>	string	This set of element data stores the captured n-best utterances. While the maximum number of nbestUtteranceX values is equal to the maxnbest setting value, the actual number of these values available is determined by speech recognition at runtime, where nbestUtterance1 holds the utterance of the top hypothesis in the n-best list and nbestUtteranceX holds the utterance of the last hypothesis.
<p>nbestInterpretation1 nbestInterpretation2 ... nbestInterpretationX</p>	string	This set of element data stores the interpretations of captured n-best utterances. While the maximum number of nbestInterpretationX values is equal to the maxnbest setting value, the actual number of these values available is determined by speech recognition at runtime, where nbestInterpretation1 holds the interpretation of the top hypothesis in the n-best list and nbestInterpretationX holds the interpretation of the last hypothesis.
<p>nbestConfidence1 nbestConfidence2 ... nbestConfidenceX</p>	float	This set of element data stores the confidence scores of captured n-best utterances. While the maximum number of nbestConfidenceX values is equal to the maxnbest setting value, the actual number of these values available is determined by speech recognition at runtime, where nbestConfidence1 holds the confidence score of the top hypothesis in the n-best list and nbestConfidenceX holds the confidence score of the last hypothesis.
<p>nbestInputmode1 nbestInputmode2 ... nbestInputmodeX</p>	string	This set of element data stores the input modes of captured n-best utterances.

Exit States

Name	Notes
max_nomatch	The maximum number of nomatch events has occurred. If the nomatch max count is 0, this exit state will never occur.
max_noinput	The maximum number of noinput events has occurred. If the noinput max count is 0, this exit state will never occur.
max_disconfirmed	The maximum number of disconfirmations has occurred. If the max disconfirmed count is set to 0, this exit state will never occur.
done	The number captured was confirmed.

Note

If the number to be captured is a positive whole number and the input is via DTMF, the number can be entered using this voice element or the `Digits_With_Confirm` voice element.

Audio Groups

Number Capture

Name (Label)	Req'd	Max1	Notes
number_initial_audio_group (Number Initial)	Yes	Yes	Played when the voice element first begins.
number_nomatch_audio_group (Number NoMatch)	No	No	Played when a nomatch event occurs during number capture.
number_noinput_audio_group (Number NoInput)	No	No	Played when a noinput event occurs during number capture.
number_help_audio_group (Number Help)	No	No	Played when the caller asks for help during number capture. If not specified, by default help is treated as a nomatch.

Number Confirm

Name (Label)	Req'd	Max1	Notes
confirm_initial_audio_group (Confirm Initial)	Yes	Yes	Played when confirmation first begins.
confirm_nomatch_audio_group (Confirm NoMatch)	No	No	Played when a nomatch event occurs during confirmation. The nomatch event count corresponds to the audio group count.
confirm_noinput_audio_group (Confirm NoInput)	No	No	Played when a noinput event occurs during confirmation. The noinput event count corresponds to the audio group count.
confirm_help_audio_group (Confirm Help)	No	No	Played when a help event occurs during confirmation. The help event count corresponds to the audio group count. If not specified, help throws a nomatch by default.
disconfirmed_audio_group (Disconfirmed)	No	No	Played after the caller disconfirms a captured number entry.

End

Name (Label)	Req'd	Max 1	Notes
yes_audio_group (Yes)	No	Yes	Played after the caller chooses the <i>yes</i> option. If not specified, no audio will be played when this option is chosen.

Folder and Class Information

Studio Element Folder Name	Class Name
Number Capture	com.audium.server.voiceElement.number. MBasicNumberWithConfirm