Time

The `Time` voice element captures a time input from the caller. The time input can be entered using spoken inputs (including hours and minutes) or DTMF inputs (in the HHMM format). The captured value will be stored in element data as a five character string in the format HHMMX, where X is one of four possible values: "a" for AM, "p" for PM, "h" for a military time, or "?" for an ambiguous time. Using speech input, the time input may be spoken in natural language.

Settings

Name (Label)	Type	Req'd	Single Setting Value	Sub. 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.
collect_max_noinput_count (Time Max NoInput Count)	int ≥ 0	Yes	`true`	`true`	3	The maximum number of noinput events allowed during time input capture. 0 = infinite noinputs allowed.

collect_max_nomatch_count (Time Max NoMatch Count)	int ≥ 0	Yes	`true`	`false`	3	The maximum number of nomatch events allowed during time input capture. 0 = infinite nomatches allowed.
collect_confidence_level (Time Confidence Level)	decimal (0.0 – 1.0)	Yes	`true`	`true`	0.40	The confidence level threshold to use during time capture.
modal (Disable Hotlinks)	boolean	Yes	`true`	`true`	`false`	If set to true, only the grammars of the current Time element 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 utterance, interpretation, value, nbestUtteranceX and nbestInterpretationX are masked in VXML server logs. The format used to render secure element attributes is to add a _*secureLogging*_ suffix. For example `nbestUtterance1_secureLogging,*****.`
maxnbest (Maxnbest)	int ≥ 1	Yes	`true`	`true`	1	The maximum number of speech recognition results that can be generated per voice input.

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 utterance. When n-best recognition is enabled, this stores the confidence score of the top hypothesis in the n-best list.
nbestLength	int ≥ 1	This stores the number of n-best hypotheses generated by the speech engine.
nbestUtterance1 nbestUtterance2 … nbestUtteranceX	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.

nbestInterpretation1 nbestInterpretation2 … nbestInterpretationX	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.
nbestConfidence1 nbestConfidence2 … nbestConfidenceX	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.
nbestInputmode1 nbestInputmode2 … nbestInputmodeX	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.
done	The time capture was completed.

Audio Groups

Time Capture

Name (Label)	Req'd	Max1	Notes
collect_initial_audio_group (Time Initial)	Yes	Yes	Played when the voice element first begins.
collect_noinput_audio_group (Time NoInput)	No	No	Played when a noinput event occurs. The noinput event count corresponds to the audio group count.

collect_nomatch_audio_group (Time NoMatch)	No	No	Played when a nomatch event occurs. The nomatch event count corresponds to the audio group count.
collect_help_audio_group (Time Help)	No	No	Played when a help event occurs. The help event count corresponds to the audio group count. If not specified, a help event is treated as nomatch.

End

Name (Label)	Req'd	Max 1	Notes
done_audio_group (Done)	No	Yes	Played after the time capture is completed. If not specified, no audio will be played.

Folder and Class Information

Studio Element Folder Name	Class Name
Date & Time	com.audium.server.voiceElement.time.MBasicTime

Events

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