Time

Plugin Name:	time
Display Name:	Time/Time Period
Class Name:	com.audium.sayitsmart.plug-ins.AudiumSayItSmartTime

Description

This Say It Smart type handles the playback of the time or a time period. Whether to play back the time or a time period is specified by an input format. The plug-in also supports the different components of the time separated by colons (:) and will require the use of this delimiter if any component of the time is expressed with one digit instead of two (for example, 1:09 AM can be expressed as 0109 or 1:9 where the colon is required if any component is not padded with 0s). The time arrives in 24-hour military format and time periods arrive in combinations of hours, minutes, and seconds. The time is read back in standard English fashion; the hour, the minute, and either "A.M." or "P.M.". Time periods are read back with each component followed by a qualifier (*hours*, *minutes*, or *seconds*). The plug-in will only read the time or time period if it is legitimate (the components are within the appropriate range).

This plug-in uses the Unified CVP Number Say it Smart plug-in to render each component of the time or time period. It uses the same audio files so recordings done to support Number can be leveraged to support Time.

Input Formats

Name (Display Name)	Description

time_hhmm (24Hr Time (HHMM))	This input format is used to specify the time. It must arrive in 24-hour format with the hours from 00 to 23 and the minute from 00 to 59.
	The data can be handled in any of the following formats:
	• hhmm
	• hh:mm
	• h:mm
	• hh:m
	• h:m
period_hhmmss (Time Period (HHMMSS))	This input format is used to specify a time period including hours (from 00 to 99), minutes (from 00 to 59), and seconds (from 00 to 59).
	The data can be handled in any of the following formats:
	• hhmmss
	• hh:mm:ss
period_hhmm (Time Period (HHMM))	This input format is used to specify a time period including hours (from 00 to 99) and minutes (from 00 to 59).
	The data can be handled in any of the following formats:
	• hhmm
	• hh:mm
period_mmss (Time Period (MMSS))	This input format is used to specify a time period including minutes (from 00 to 99) and seconds (from 00 to 59).
	The data can be handled in any of the following formats:
	• mmss
	• mm:ss

Output Formats

Name (Display Name)	Input Format Depends On	Description
time (The Time)	time_hhmm	The time is read back with the hour (from 1 to 12) followed by the minute (from 0 to 59) followed by "A.M." or "P.M.". If the minute is zero, it will be omitted.

time_special_12 (The Time 12=Midnight/Noon)	time_hhmm	The time is read back exactly as above except that 00:00 is read as *midnight* and 12:00 is read as *noon*.
period (Time Period)	period_hhmmss period_hhmm period_mmss	The time period is read back with each component followed by the qualifier *hours*, *minutes*, or *seconds*. If one component is zero, it is omitted.

Filesets

Name (Display Name)	Output Format Depends On	Description
standard_time (Standard Time)	time	This fileset involves fewer audio files to render the time but at the cost of sounding a bit robotic. This directly correlates to the Unified CVP Number Say it Smart plug-in's `standard` fileset.
enhanced_time (Enhanced Time)	time	This fileset involves more audio files to render a better sounding time. This directly correlates to the Unified CVP Number Say It Smart plug-in's `enhanced` fileset.
standard_special_12 (Standard Time + Noon/Midnight)	time_special_12	This fileset is exactly the same as `standard_time` except with two extra files; *noon* and *midnight*.
enhanced_special_12 (Enhanced Time + Noon/Midnight)	time_special_12	This fileset is exactly the same as `enhanced_time` except with two extra files; `noon` and `midnight`.
standard_period (Standard Time Period)	period	This fileset involves fewer audio files to render the time period but at the cost of sounding a bit robotic. This directly correlates to the Unified CVP Number Say it Smart plug-in's `standard` fileset.
enhanced_period (Enhanced Time Period)	period	This fileset involves more audio files to render a better sounding time period. This directly correlates to the Unified CVP Number Say It Smart plug-in's `enhanced` fileset.

Audio Files

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Note When reading back a time, zeros are replaced by *oh*. for example, 13:05 is read back as *one oh five P.M.* This is not the case for time periods.

standard_time

oh	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	30	40	50	am	pm				

enhanced_time

oh	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
am	pm								

standard_special_12

oh	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	30	40	50	am	pm	noon	midnight		

enhanced_special_12

oh	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59

am	pm	noon	midnight						

standard_period

oh	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	30	40	50	60	70	80	90		
hour	hours	minute	minutes	second	seconds				

enhanced_period

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99
hour	hours	minute	minutes	second	second				

Examples

Example #1

Data:	20:43
Input Format:	time_hhmm
Output Format:	time
Fileset	standard_time
Playback:	"8" "40" "3" "pm"

Example #2

Data:	20:43

Input Format:	time_hhmm
Output Format:	time
Fileset	enhanced_time
Playback:	"8" "43" "pm"

Example #3

Data:	0000
Input Format:	time_hhmm
Output Format:	time_special_12
Fileset	standard_special_12
Playback:	"midnight"

Example #4

Data:	02:00
Input Format:	time_hhmm
Output Format:	time_special_12
Fileset	enhanced_special_12
Playback:	"2" "am"

Example #5

Data:	12:09
Input Format:	time_hhmm
Output Format:	time
Fileset	standard_time
Playback:	"12" "oh" "9" "pm"

Example #6

Data:	810001
Input Format:	period_hhmmss
Output Format:	period
Fileset	standard_period
Playback:	"80" "1" "hours" "1" "second"

Example #7

Data:	0001
Input Format:	period_hhmm
Output Format:	period
Fileset	standard_period
Playback:	"1" "minute"

Example #8

Data:	99:59
Input Format:	period_mmss
Output Format:	period
Fileset	enhanced_period
Playback:	"99" "minutes" "59" "seconds"

Examples