



Time

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

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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)) | <p>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.</p> <p>The data can be handled in any of the following formats:</p> <ul style="list-style-type: none"> • hhmm • hh:mm • h:mm • hh:m • h:m |
| period_hhmmss (Time Period (HHMMSS)) | <p>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).</p> <p>The data can be handled in any of the following formats:</p> <ul style="list-style-type: none"> • hhmmss • hh:mm:ss |
| period_hhmm (Time Period (HHMM)) | <p>This input format is used to specify a time period including hours (from 00 to 99) and minutes (from 00 to 59).</p> <p>The data can be handled in any of the following formats:</p> <ul style="list-style-type: none"> • hhmm • hh:mm |
| period_mmss (Time Period (MMSS)) | <p>This input format is used to specify a time period including minutes (from 00 to 99) and seconds (from 00 to 59).</p> <p>The data can be handled in any of the following formats:</p> <ul style="list-style-type: none"> • 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 <i>midnight</i> and 12:00 is read as <i>noon</i> . |
| period (Time Period) | period_hhmmss period_hhmm period_mmss | The time period is read back with each component followed by the qualifier <i>hours</i> , <i>minutes</i> , or <i>seconds</i> . 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 <i>standard</i> 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 <i>enhanced</i> fileset. |
| standard_special_12 (Standard Time + Noon/Midnight) | time_special_12 | This fileset is exactly the same as <i>standard_time</i> except with two extra files; <i>noon</i> and <i>midnight</i> . |
| enhanced_special_12 (Enhanced Time + Noon/Midnight) | time_special_12 | This fileset is exactly the same as <i>enhanced_time</i> except with two extra files; <i>noon</i> and <i>midnight</i> . |
| 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 <i>standard</i> 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 <i>enhanced</i> fileset. |

Audio Files


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” |

