MasterScope Framework
Calendar Management and Schedule Management
Import Definition File
Reference

Revision History

Edition	Chapter/Section	Details
First Edition	-	-

Contents

1. Preface

This document is an operation procedure manual that is used to register calendar or schedule definitions by using a command on the manager in MasterScope Framework Ver3.20.0 and later.
Calendar and schedule definitions cannot be registered discretely. You must register them from the function that uses them. Refer to the command reference for each function to check whether calendar and schedule definitions can be registered.

2. Supported OS

The supported OS is the same as that of the MasterScope Framework manager.

3. Functional outline

The calendar provides a function to manage whether an operation is performed on each date. The schedule provides a function to manage and report times or periods.

This import function can be used to import a calendar and schedule from a definition file created in advance.

Cautions

- The import function cannot be used in the manager of MasterScope Framework Ver.3.20.0 or earlier. Upgrade the version of all of the monitoring terminals and managers when those with the version prior to MasterScope Framework Ver3.20.0 are used. When the import function is performed in the monitoring terminal/manager of the version prior to MasterScope Framework Ver3.20.0, incorrect operation of the monitoring terminal and the manager, and damage on the monitoring definition file may possibly occur. In that case, reinstall the product, or perform restoration from the backup file.
- It is recommended to back up the monitoring definition file before performing the import process.
- Edited import files cannot be imported from the console. Specify a file exported from the console.
- When the just imported definition is exported from the monitoring terminal, the files used for import and files output during export do not necessarily match even if export is performed without changing any definition at all.
- To delete a calendar or schedule definition registered by using this import function, delete it from the console.
- The calendar and schedule names are unique on the manager. If you specify a registered calendar or schedule name, a new definition is not added. The process to overwrite or update the existing definition is skipped depending on the function that uses the calendar or schedule definition.

4. Calendar and schedule definition files

You can include calendar and schedule definitions in the calendar and schedule definition files.
When only importing a calendar definition, you must include the calendar definition, but you do not have to include a schedule definition.
When importing a schedule definition, you must include the schedule definition. If the name of the calendar used in the schedule definition is already registered, you can omit the calendar definition. If the calendar name is not yet registered, you must include the calendar definition.
When creating a calendar or schedule definition file, note the following:

- With respect to the character code and line feed character in the file, specify UTF-16 (without BOM) and the CR+LF line feed character for the Windows manager while specifying UTF-8 (without BOM) and the LF line feed code for the UNIX manager (HP-UX (IPF), Linux).
- To add an indent, the tab character and one-byte spaces can be used.
- The file is composed of a header part and a definition part. Because the header part is fixed, follow the specification example exactly. The definition part consists of a calendar definition and a schedule definition. When only importing a calendar definition, you must include the calendar definition, but you do not have to include the schedule definition. When importing a schedule definition, you must include the schedule definition but can omit the calendar definition. However, if the name of the calendar used in the schedule definition is not yet registered, you must include the calendar definition.
- For the comment, "#" must be added at the beginning of a line.
- You can also import a file exported from the console. Note, however, that a file exported from the console cannot be edited.

Example of description

```
MaserScope Framework Schedule and Calendar Import File
```
— Header part
— — — — — — — — — — — — — — — — — —
— Definition part

```
Calendar Import Section
CalendarName,Description,ParentCalendarName,Kind,Type,Year,Month,Date,Week,WeekDay,SUN,
MON,TUE,WED,THU,FRI,SAT,StartDate,EndDate,Endless,TimeZoneStr
# Calendar 001 - Calendar used in Time schedule 001
"Calendar 001","Calendar where all days except for Wednesdays and January 1 are operating
days","All operating days",2,1,,,,,,0,0,0,1,0,0,0,2015/01/01,2015/12/31,1,
"Calendar 001","Calendar where all days except for Wednesdays and January 1 are operating
days","All operating days",2,4,,1,1,,,,,,,,,2015/01/01,2015/12/31,1,
# All operating days - Original calendar of Calendar 001
"All operating days","","",99,,,,,,,,,,,,,,,
Calendar End Section
```
— Calendar definition

```
Schedule Import Section
ScheduleName,CalendarName,Mode,PastTimeMinute,PastTimeCount,ServiceID,NotifyTimeSpan,Typ
e,Year,Month,Date,Week,WeekDay,SUN,MON,TUE,WED,THU,FRI,SAT,Hour,Minute,EndHour,EndMi
nute,StartDate,EndDate,StartDate2,EndDate2,Endless,IntervalTime,NotifyService
# Time schedule 001 - Schedule executed every hour between 09:00 and 21:00 and at 00:00 on
operating days
"Time schedule 001","Calender 001",0,60,1,,,1,,,,,,,,,,,,,09,00,21,00,2015/01/01,2015/12/31,,,1,3600,
"Time schedule 001","Calender 001",0,60,1,,,0,,,,,,,,,,,,,00,00,,,2015/02/05,2015/12/31,,,1,,
Schedule End Section
```
— Schedule definition

4.1 Header part

The character strings in the header part are described as below:

```
MasterScope Framework Schedule and Calendar Import File        ... Product name/Function name (Fixed)
```

4.2 Definition part

4.2.1 Calendar definition

This section describes the calendar definition.
Specify the column header of the following calendar definition on the line following Calendar Import Section.

CalendarName,Description,ParentCalendarName,Kind,Type,Year,Month,Date,Week,WeekDay,SUN,MON,TUE,WED,THU,FRI,SAT,StartDate,EndDate,Endless,TimeZoneStr

Define one or more calendars in the calendar definition. A calendar consists of one or more calendar rules.
Specify a calendar rule on each line following the column header of the calendar definition. Specify the definition of one item in each column separating them with commas (,) according to the column header.
Calendar rules have priorities. The closer the calendar rule is to the top of the file, the higher its priority.

When describing this section, note the following.
- Commas (,) and double quotation marks (") cannot be used unless otherwise stated in the "Value" column.
- For items where [Required] is described in the description of the "Value", the Key=Value line must be described. For items where no [Required] is described, they can be omitted; however, a whole line including the item must be omitted.

Column number	Key	Value
1	CalendarName	Describe the calendar name by using up to 64 characters. **[Required]** The calendar name shall be enclosed with the double quotations. If you want to use commas (,) or double quotation marks (") in the calendar name, escape them with backslashes (\). If you specify one-byte or double-byte spaces or tabs at the beginning or end of the calendar name, they will be deleted. The calendar whose name is "All business dates" or "weekday business dates" is created by default and cannot be updated. All specifications other than CalendarName are ignored.
2	Description	Specify the calendar description by using up to 128 characters. The calendar description shall be enclosed with the double quotations. If you want to use commas (,) or double quotation marks (") in the description, escape them with backslashes (\). If you specify one-byte or double-byte spaces or tabs at the beginning or end of the description, they will be deleted. If you specify multiple calendar rules for the same CalendarName, the first definition is used. The second and subsequent definitions are ignored.

Column number	Key	Value
3	ParentCalendarName	Specify the name of the original calendar by using up to 64 characters. If you specify the original calendar name, the statuses of operating days and non-operating days are taken over from the original calendar. You do not have to specify this item when not taking over these statuses. An error occurs if the import file or registered calendar does not contain the original calendar even though the original calendar was specified. The original calendar name must be enclosed in double quotations. If you want to use commas (,) or double quotation marks (") in the original calendar name, escape them with backslashes (\). If you specify one-byte or double-byte spaces or tabs at the beginning or end of the original calendar name, they will be deleted. If you specify multiple calendar rules for the same CalendarName, the first definition is used. The second and subsequent definitions are ignored.
4	Kind	Specify whether the calendar rule exists and whether operations are performed (whether the days are operating days or non-operating days) by using 1, 2, or 99. 1: A calendar rule exists (operating day). *Default 2: A calendar rule exists (non-operating day). 99: No calendar rule exists. If you specify 99 (no calendar rule exists), multiple calendar rules with the same CalendarName cannot be defined. Also note that 99 cannot be specified together with 1 (operating day) or 2 (non-operating day).
5	Type	Specify the calendar rule type as a value within the range from 0 to 6. **[Required]** 0: Every day 1: Every week 2: Every month (date) 3: Every month (day of the week) 4: Every year (date) 5: Every year (day of the week) 6: Specific date
6	Year	Specify a value within the range from 1971 to 2036. **[Required*]** ∗ This item is required only when Type is 6 (specific date). The specified value is ignored when Type is another value.
7	Month	Specify a value within the range from 1 to 12. **[Required*]** ∗ This item is required only when Type is 4 (every year (date)), 5 (every year (day of the week)), or 6 (specific date). The specified value is ignored when Type is another value.

Column number	Key	Value

8	Date	Specify a value within the range from 1 to 31, and 99. **[Required*]**
		  1 to 31: Specific date
		  99: End of the month
		This item is restricted by the values specified for Year and Month. An error occurs if the specified value is larger than the last day of the relevant month. If 2 is specified for Month without specifying Year, the last day is 29. If Year and Month are not specified, the last day is 31.
		∗ This item is required only when Type is 2 (every month (date)), 4 (every year (date)), or 6 (specific date). The specified value is ignored when Type is another value.

9	Week	Specify a value within the range from 0 to 4. **[Required*]** 0: First week 1: Second week 2: Third week 3: Fourth week 4: Last week ∗ This item is required only when Type is 3 (every month (day of the week)) or 5 (every year (day of the week)). The specified value is ignored when Type is another value.
10	WeekDay	Specify a value within the range from 0 to 6. **[Required*]** 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday ∗ This item is required only when Type is 3 (every month (day of the week)) or 5 (every year (day of the week)). The specified value is ignored when Type is another value.
11	SUN	Specify whether the relevant day of the week is subject to the rule (Sunday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.
12	MON	Specify whether the relevant day of the week is subject to the rule (Monday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.
13	TUE	Specify whether the relevant day of the week is subject to the rule (Tuesday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.

Column number	Key	Value
14	WED	Specify whether the relevant day of the week is subject to the rule (Wednesday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.
15	THU	Specify whether the relevant day of the week is subject to the rule (Thursday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.
16	FRI	Specify whether the relevant day of the week is subject to the rule (Friday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.
17	SAT	Specify whether the relevant day of the week is subject to the rule (Saturday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 1 (every week). The specified value is ignored when Type is another value.
18	StartDate	Specify the first day of the application period in the range from 1971/01/01 to 2036/12/31. **[Required*]** ∗ This item is required only when Type is 0 (everyday), 1 (every week), 2 (every month (date)), 3 (every month (day of the week)), 4 (every year (date)), or 5 (every year (day of the week)). The specified value is ignored when Type is another value.
19	EndDate	Specify the last day of the application period in the range from 1971/01/01 to 2036/12/31. **[Required*]** An error occurs if a day before StartDate is specified. ∗ This item is required only when Type is 0 (everyday), 1 (every week), 2 (every month (date)), 3 (every month (day of the week)), 4 (every year (date)), or 5 (every year (day of the week)). The specified value is ignored when Type is another value.
20	Endless	Specify the expiration of the application period by using 0 or 1. **[Required*]** 0: Limited (The value specified for EndDate is used.) 1: Unlimited (2036/12/31) ∗ This item is required only when Type is 0 (everyday), 1 (every week), 2 (every month (date)), 3 (every month (day of the week)), 4 (every year (date)), or 5 (every year (day of the week)). The specified value is ignored when Type is another value.
21	TimeZoneStr	Not required to be specified. Specify a null.

Whether the keys in the 6th to 20th columns must be specified depends on Type. (○: Required to be specified, ×: Not required to be specified

Column number	Key	Type						
		0 Every day	1 Every week	2 Every month (date)	3 Every month (day of the week)	4 Every year (date)	5 Every year (day of the week)	6 Specific date
6	Year	×	×	×	×	×	×	○
7	Month	×	×	×	×	○	○	○
8	Date	×	×	○	×	○	×	○
9	Week	×	×	×	○	×	○	×
10	WeekDay	×	×	×	○	×	○	×
11	SUN	×	○	×	×	×	×	×
12	MON	×	○	×	×	×	×	×
13	TUE	×	○	×	×	×	×	×
14	WED	×	○	×	×	×	×	×
15	THU	×	○	×	×	×	×	×
16	FRI	×	○	×	×	×	×	×
17	SAT	×	○	×	×	×	×	×
18	StartDate	○	○	○	○	○	○	×
19	EndDate	○	○	○	○	○	○	×
20	Endless	○	○	○	○	○	○	×

4.2.2 Schedule definition
(1) Schedule Import Section to Schedule End Section
In this section, the schedule definition is described.
Specify the column header of the following schedule definition on the line following Schedule Import Section.

ScheduleName,CalendarName,Mode,PastTimeMinute,PastTimeCount,ServiceID,NotifyTimeSpan,Type,Year,Month,Date,Week,WeekDay,SUN,MON,TUE,WED,THU,FRI,SAT,Hour,Minute,EndHour,EndMinute,StartDate,EndDate,StartDate2,EndDate2,Endless,IntervalTime,NotifyService

Define one or more schedules in the schedule definition. A schedule consists of one or more schedule rules. Specify a schedule rule on each line following the column header of the schedule definition. Specify the definition of one item in each column separating them with commas (,) according to the column header.

When describing this section, note the following:
- Commas (,) and double quotation marks (") cannot be used unless otherwise stated in the "Value" column.
- For items where [Required] is described in the description of the "Value", the Key=Value line must be described. For items where no [Required] is described, they can be omitted; however, a whole line including the item must be omitted.

Column number	Key	Value

Column number	Key	Value
1	ScheduleName	Describe the schedule name by using up to 64 characters. **[Required]** The schedule name shall be enclosed with the double quotations. If you want to use commas (,) or double quotation marks (") in schedule names, escape them with backslashes (\). If you specify one-byte or double-byte spaces or tabs at the beginning or end of the schedule name, they will be deleted.
2	CalendarName	Describe the name of the calendar to use by using up to 64 characters. **[Required]** An error occurs if the import file or registered calendar does not contain the specified calendar name. The calendar name shall be enclosed with the double quotations. If you want to use commas (,) or double quotation marks (") in the calendar name, escape them with backslashes (\). If you specify one-byte or double-byte spaces or tabs at the beginning or end of the calendar name, they will be deleted. If you specify multiple schedule rules for the same ScheduleName or Mode, the first definition is used. The second and subsequent definitions are ignored.
3	Mode	Specify the schedule modes as a value within the range from 0 to 2. **[Required]** 0: Time schedule 1: Period schedule 2: Time schedule (no notification during system down) Specify this item according to the settings of the function that uses the schedule. By specifying 0 (time schedule) or 2 (time schedule (no notification during system down)), you can execute processing at the scheduled date and time. If you specify 2 (time schedule (no notification during system down)), PastTimeMinute and PastTimeCount cannot be specified. Other settings and operations are the same as when 0 (time schedule) is specified. By specifying 1 (period schedule), you can execute and stop a process during the scheduled period. An error of up to about five seconds may occur when determining the period schedule.

Column number	Key	Value
4	PastTimeMinute	Specify how much time (minutes) to go back when sending a schedule notification that was not sent while the system was down in the range between 0 and 10079. **[Required*]** 0: Do not report 1 to 10079: Report If you specify multiple schedule rules for the same ScheduleName or Mode, the first definition is used. The second and subsequent definitions are ignored. ∗ This item is required only when Mode is 0 (time schedule). The specified value is ignored when Mode is another value.
5	PastTimeCount	Specify how many times a schedule notification that was not sent while the system was down is sent by using 0 or 1. **[Required*]** 0: All 1: Last schedule If you specify multiple schedule rules for the same ScheduleName or Mode, the first definition is used. The second and subsequent definitions are ignored. ∗ This item is required only when Mode is 0 (time schedule). The specified value is ignored when Mode is another value.
6	ServiceID	Not required to be specified. Specify a null.
7	NotifyTimeSpan	Not required to be specified. Specify a null.
8	Type	Specify the schedule rule type. **[Required]** 0: Operating day 1: Operating day, iteration 2: Every week 3: Every month (date) 4: Every month (day of the week) 5: Every year (date) 6: Every year (day of the week) 7: Specific date 8: Continuous days 1 (operating day, iteration) can be specified only when Mode is 0 (time schedule) or 2 (time schedule (no notification during system down)). 8 (continuous days) can be specified only when Mode is 1 (period schedule).
9	Year	Specify a value within the range from 1971 to 2036. **[Required*]** ∗ This item is required only when Type is 7 (specific date). The specified value is ignored when Type is another value.
10	Month	Specify a value within the range from 1 to 12. **[Required*]** ∗ This item is required only when Type is 5 (every year (date)), 6 (every year (day of the week)), or 7 (specific date). The specified value is ignored when Type is another value.

Column number	Key	Value
11	Date	Specify a value within the range from 1 to 31, and 99. **[Required*]** 1 to 31: Specific date 99: End of the month This item is restricted by the values specified for Year and Month. An error occurs if the specified value is larger than the last day of the relevant month. If 2 is specified for Month without specifying Year, the last day is 29. If Year and Month are not specified, the last day is 31. ∗ This item is required only when Type is 3 (every month (date)), 5 (every year (date)), or 7 (specific date). The specified value is ignored when Type is another value.
12	Week	Specify a value within the range from 0 to 4. **[Required*]** 0: First week 1: Second week 2: Third week 3: Fourth week 4: Last week ∗ This item is required only when Type is 4 (every month (day of the week)) or 6 (every year (day of the week)). The specified value is ignored when Type is another value.
13	WeekDay	Specify a value within the range from 0 to 6. **[Required*]** 0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday ∗ This item is required only when Type is 4 (every month (day of the week)) or 6 (every year (day of the week)). The specified value is ignored when Type is another value.
14	SUN	Specify whether the relevant day of the week is subject to the rule (Sunday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.
15	MON	Specify whether the relevant day of the week is subject to the rule (Monday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.
16	TUE	Specify whether the relevant day of the week is subject to the rule (Tuesday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.

Column number	Key	Value
17	WED	Specify whether the relevant day of the week is subject to the rule (Wednesday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.
18	THU	Specify whether the relevant day of the week is subject to the rule (Thursday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.
19	FRI	Specify whether the relevant day of the week is subject to the rule (Friday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.
20	SAT	Specify whether the relevant day of the week is subject to the rule (Saturday) by using 0 or 1. **[Required*]** 0: Not subject. 1: Subject. ∗ This item is required only when Type is 2 (every week). The specified value is ignored when Type is another value.
21	Hour	Specify a value within the range from 0 to 23. **[Required*]** ∗ This item is required only when Type is 0 (operating day), 1 (operating day, iteration), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), 6 (every year (day of the week)), or 7 (specific date). The specified value is ignored when Type is another value.
22	Minute	Specify a value within the range from 0 to 59. **[Required*]** ∗ This item is required only when Type is 0 (operating day), 1 (operating day, iteration), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), 6 (every year (day of the week)), or 7 (specific date). The specified value is ignored when Type is another value.
23	EndHour	Specify a value within the range from 0 to 23. **[Required*]** ∗ When Mode is 0 (time schedule) or 2 (time schedule (no notification during system down)), this item is required only if Type is 1 (operating day, iteration). The specified value is ignored when Type is another value. When Mode is 1 (period schedule), this item is required only if Type is 0 (operating days), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), 6 (every year (day of the week)), or 7 (specific date). The specified value is ignored when Type is another value.

Column number	Key	Value
24	EndMinute	Specify a value within the range from 0 to 59. **[Required*]** A date and time before Hour and Minute cannot be specified for EndHour and EndMinute, respectively. Moreover, if Type is 1 (operating day, iteration), the same value as Hour and Minute cannot be specified. ∗ When Mode is 0 (time schedule) or 2 (time schedule (no notification during system down)), this item is required only if Type is 1 (operating day, iteration). The specified value is ignored when Type is another value. When Mode is 1 (period schedule), this item is required only if Type is 0 (operating days), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), 6 (every year (day of the week)), or 7 (specific date). The specified value is ignored when Type is another value.
25	StartDate	Specify the first day of the application period in the range from 1971/01/01 to 2036/12/31. **[Required*]** ∗ This item is required only when Type is 0 (operating day), 1 (operating day, iteration), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), or 6 (every year (day of the week)). The specified value is ignored when Type is another value.
26	EndDate	Specify the last day of the application period in the range from 1971/01/01 to 2036/12/31. **[Required*]** An error occurs if a day before StartDate is specified. ∗ This item is required only when Type is 0 (operating day), 1 (operating day, iteration), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), or 6 (every year (day of the week)). The specified value is ignored when Type is another value.
27	StartDate2	Specify the start date and time in the range from 1971/01/01 to 2036/12/31. **[Required*]** ∗ This item is required only when Type is 8 (continuous days). The specified value is ignored when Type is another value.
28	EndDate2	Specify the end date and time in the range from 1971/01/01 to 2036/12/31. **[Required*]** An error occurs if a date and time before StartDate2 is specified. ∗ This item is required only when Type is 8 (continuous days). The specified value is ignored when Type is another value.
29	Endless	Specify the expiration of the application period by using 0 or 1. **[Required*]** 0: Limited (The value specified for EndDate is used.) 1: Unlimited (2036/12/31) ∗ This item is required only when Type is 0 (operating day), 1 (operating day, iteration), 2 (every week), 3 (every month (date)), 4 (every month (day of the week)), 5 (every year (date)), or 6 (every year (day of the week)). The specified value is ignored when Type is another value.

Column number	Key	Value
30	IntervalTime	Specify the iteration interval s as a value within the range from 60 to 43200. **[Required*]** Specify a value that is divisible by one minute (60). ∗ This item is required only when Type is 1 (operating day, iteration). The specified value is ignored when Type is another value.
31	NotifyService	Not required to be specified. Specify a null.

Whether the keys in the 9th to 30th columns must be specified depends on Mode and Type. (○: Required to be specified, ×: Not required to be specified)

The table below shows whether each key must be specified when Mode is 0 (time schedule) or 2 (time schedule (no notification during system down)).

Column number	Key	Type							
		0 Operating day	1 Operating day Iteration	2 Every week	3 Every month (date)	4 Every month (day of the week)	5 Every year (date)	6 Every year (day of the week)	7 Specific date
9	Year	×	×	×	×	×	×	×	○
10	Month	×	×	×	×	×	○	○	○
11	Date	×	×	×	○	×	○	×	○
12	Week	×	×	×	×	○	×	○	×
13	WeekDay	×	×	×	×	○	×	○	×
14	SUN	×	×	○	×	×	×	×	×
15	MON	×	×	○	×	×	×	×	×
16	TUE	×	×	○	×	×	×	×	×
17	WED	×	×	○	×	×	×	×	×
18	THU	×	×	○	×	×	×	×	×
19	FRI	×	×	○	×	×	×	×	×
20	SAT	×	×	○	×	×	×	×	×
21	Hour	○	○	○	○	○	○	○	○
22	Minute	○	○	○	○	○	○	○	○
23	EndHour	×	○	×	×	×	×	×	×
24	EndMinute	×	○	×	×	×	×	×	×
25	StartDate	○	○	○	○	○	○	○	×
26	EndDate	○	○	○	○	○	○	○	×
27	StartDate2	×	×	×	×	×	×	×	×
28	EndDate2	×	×	×	×	×	×	×	×
29	Endless	○	○	○	○	○	○	○	×
30	IntervalTime	×	○	×	×	×	×	×	×

The table below shows whether each key must be specified when Mode is 1 (period schedule).

Colum	Key	Type

n number		0 Operating day	2 Every week	3 Every month (date)	4 Every month (day of the week)	5 Every year (date)	6 Every year (day of the week)	7 Specific date	8 Continuous days
9	Year	×	×	×	×	×	×	○	×
10	Month	×	×	×	×	○	○	○	×
11	Date	×	×	○	×	○	×	○	×
12	Week	×	×	×	○	×	○	×	×
13	WeekDay	×	×	×	○	×	○	×	×
14	SUN	×	○	×	×	×	×	×	×
15	MON	×	○	×	×	×	×	×	×
16	TUE	×	○	×	×	×	×	×	×
17	WED	×	○	×	×	×	×	×	×
18	THU	×	○	×	×	×	×	×	×
19	FRI	×	○	×	×	×	×	×	×
20	SAT	×	○	×	×	×	×	×	×
21	Hour	○	○	○	○	○	○	○	×
22	Minute	○	○	○	○	○	○	○	×
23	EndHour	○	○	○	○	○	○	○	×
24	EndMinute	○	○	○	○	○	○	○	×
25	StartDate	○	○	○	○	○	○	×	×
26	EndDate	○	○	○	○	○	○	×	×
27	StartDate2	×	×	×	×	×	×	×	○
28	EndDate2	×	×	×	×	×	×	×	○
29	Endless	○	○	○	○	○	○	×	×
30	IntervalTime	×	×	×	×	×	×	×	×