SONY

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Ingest Scheduler Software

User's Guide

Software Version 1.0

PWA-ISC1

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Overview

PWA-ISC1 Ingest Scheduler Software is studio recording/transfer software for creating cutouts from material recorded on a PWS-4500 Multi Port AV Storage Unit, as required, and transferring them to external storage on a network drive.

In PWA-ISC1, a cutout/transfer task is referred to as a schedule. A schedule can be specified for a time slot of an existing recording or a future recording. A transfer for a time slot of an existing recording starts immediately. For a schedule specifying the time slot of a future recording, transfer starts when recording begins on the PWS-4500 at the specified time.

Starting and Exiting

Starting

Launch PRC Manager and Media Gateway, then double-click the [PWA-ISC1] shortcut on the desktop of the PC where this software is installed.
Start recording on the port set for loop recording (Loop Rec) to display the software screen.

Notes

- PRC Manager must be already running before starting PWA-ISC1. For details on how to start PRC Manager, refer to the installation guide for this software.
- For details on how to start Media Gateway, refer to the PWA-MGW1 Installation Guide.

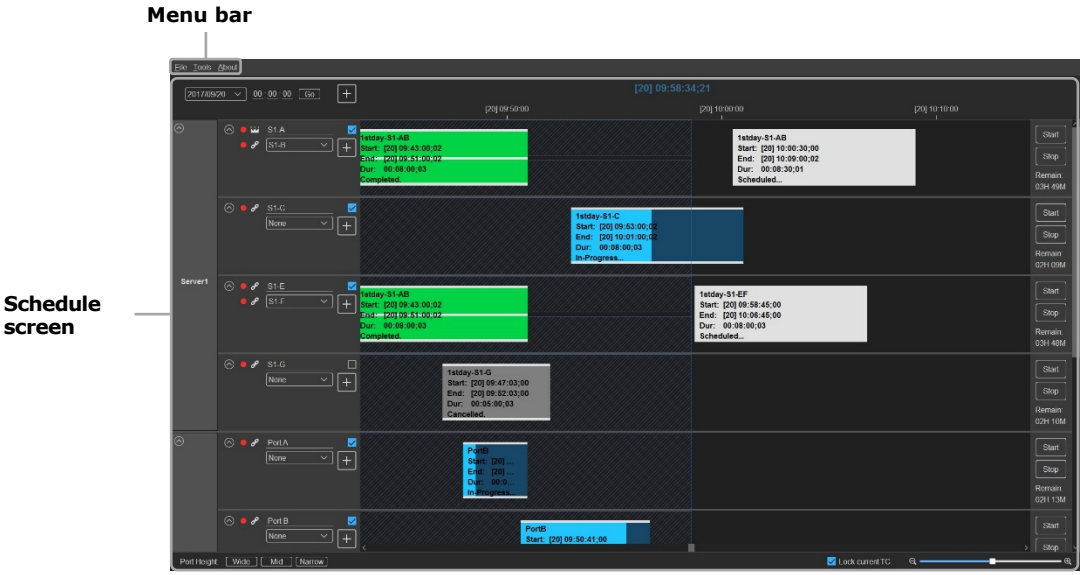
Exiting

In the menu bar, click [File] – [Exit].

Note

After exiting this software, if a registered schedule specifies a future time, PRC Manager continues to run. Therefore, scheduled transfers will still occur at their scheduled times.

Operation Screen



Menu bar

The menu bar displays three menus.

[File]

- [New schedule]: Creates a new schedule.
- [Exit]: Exits this software program.

[Tools]

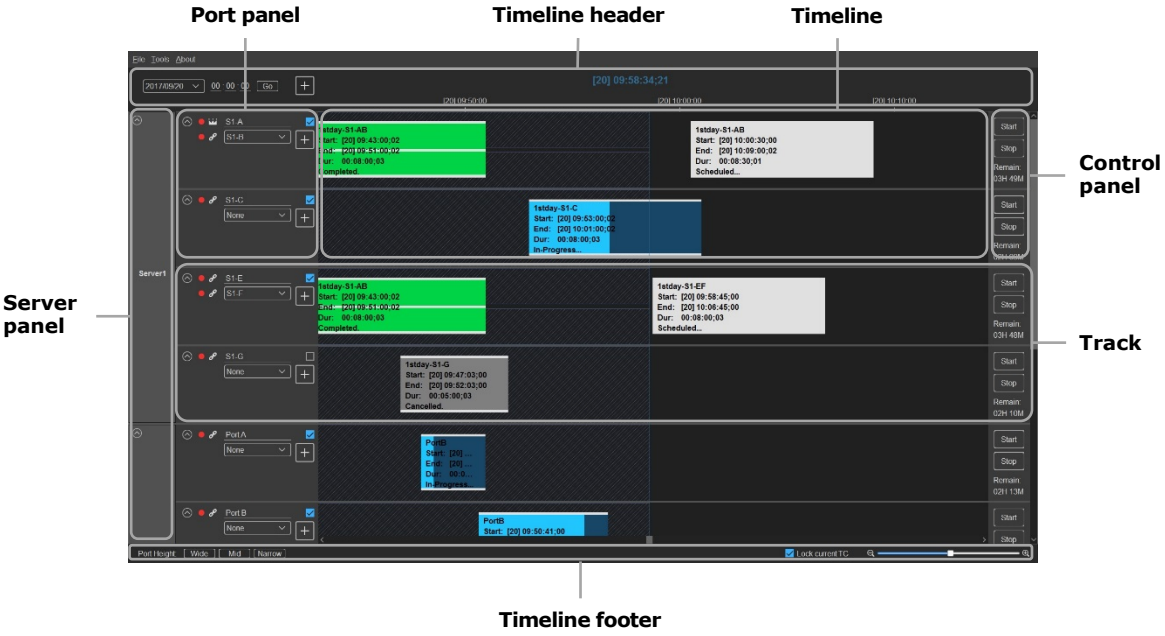
- [Settings]: Configures the software in the [Settings] dialog.
  For details, see “Settings” (page 19).
- [Maintenance]: Configures settings to recover server capacity in the [Maintenance] dialog.
  When executing maintenance, stop the recording and execute the [Recover storage capacity] function on the server.
  For details, see “Maintenance” (page 21).

[About]

- [About Ingest Scheduler]: The [About Ingest Scheduler] dialog displays software version information.

Schedule screen

The Schedule screen consists of the server panel, port panel, timeline, and control panel. The port panel, timeline, and control panel for each port are together called a track.



Notes

- When a port of the connected server is in normal recording mode, that port is disabled and inoperable.
- When attempting to connect to a server with a system frequency different from that of the port on which the master TC is acquired, that server will be disabled and inoperable. (It is only possible to switch the master TC port using the TC icons, open/close the server panel, and open/close the port panel.)

Server panel

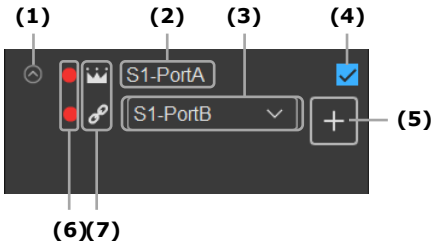
Displays the server name set by Media Gateway or other software.

Note

If the network of this software is disconnected from a server or if the software cannot recognize the server, that server is not displayed.

Port panel

Displays server port information registers a schedule.



(1) Open/Close button

Reduces or enlarges the port panel display. When reduced, only the proxy port name (if a proxy port is configured) and port selection checkbox are displayed.

(2) Port name

Displays the port name on the server.

Click to edit the port name (up to eight characters).

(3) Proxy port setting drop-down list

You can select the port for proxy data transfer. Tracks of the selected port are hidden, and information about the transfer is displayed on the track of the port set as the proxy port.

Select [None] if you do not want to set a proxy port.

If a proxy port is set, the schedule is executed according to the schedule information of the main port.

Notes

- If a proxy port is set, the schedule registered for the port selected in the drop-down list is cleared. Also, transfer is stopped if a transfer schedule is in progress.
- Make sure that the remaining recording time of a proxy port is longer than for the main port. If the remaining time of a proxy port is insufficient, recording on the proxy port will stop before the end.

(4) Port selection checkbox

When creating a schedule, place a check mark in the target port.

The port with the check mark becomes the target when registering a schedule using the [+] (New schedule) button in the timeline header or [File] – [New schedule], and then the [Ports] list in the [Schedule] dialog is checked.

(5) [+] (New port schedule) button

Click the button to create a schedule targeted at only that port.

When clicked, the [Schedule] dialog is displayed.

(6) Record indicator buttons

Indicates the status of recording.

The indicators are lit red during recording, and turned off when recording is stopped.

When the server is set for loop recording (Loop Rec), clicking an unlit indicator starts loop recording. Recording does not stop when you click on a lit indicator.

Note

It is not possible to stop recording on the connected server from this software.

(7) TC icons

The state of the timecode entered for each port is displayed using icons. Also, you can change the master TC to the timecode input on a different port.

When this software is started, the timecode entered for the port at the top of the first recognized server is automatically set as the master TC.

- : Master TC
- : Timecode is the same as the master TC.
- : Timecode is different from the master TC.

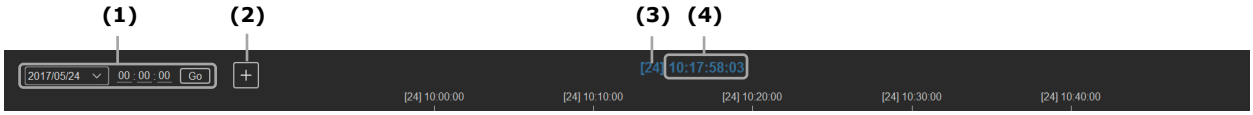
When you click a or TC icon, the timecode entered for that port is forced to be the master TC. When the master TC is changed, the TC icon indication for the other ports changes accordingly.

Timeline

This displays the current time, material information of the server, and displays or manages registered schedule information.

The display range can be zoomed in/out to display up to 15 days comprising the previous seven days, the current date, and the next seven days.

Timeline header



Timeline footer

(1) Timeline display at specified date and time

Specifies the date and time to display in the time slot on the timeline.

Select the date in the list box, enter the timecode in “hh:mm:ss” format in the text box, and click the [Go] button to display the set timecode on the timeline.

At this time, if the [Lock current TC] checkbox is checked, it will automatically be cleared.

(2) [+] (New port schedule) button

Creates a new schedule.

The [Schedule] dialog is displayed with the port that was checked in the port panel in the selected state.

(3) Current date

(4) Current timecode

Displays the current time of the master TC. The display format changes according to the drop-frame/non-drop-frame state of the master TC.

(5) [Wide] / [Mid] / [Narrow] buttons

Sets the height of all ports.

(6) [Lock current TC] checkbox

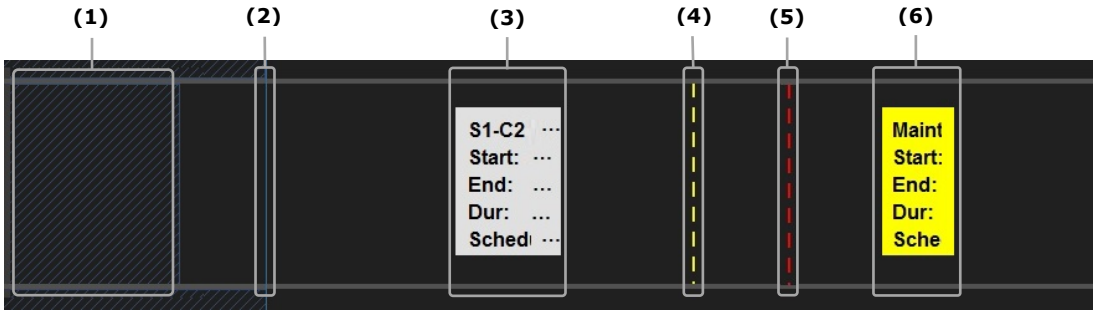
You can change how the line that indicates the current time moves.

- On: The line indicating the current time is fixed at the center of the timeline, and the timeline moves from right to left as time elapses. In this case, you cannot move the horizontal scroll bar.
- Off: The timeline for 15 days is fixed in the current state when Off is selected, and the line indicating the current time moves from left to right as time elapses.

(7) Timeline scale scroll bar

The timeline display can be zoomed in/out.

Timeline



(1) Presence of materials on the server

Blue diagonal lines indicate the time slot in which material that can be used with this software is present on the server.

When you specify a past time, you can register the schedule only in this area.

(2) Current time

The current time is indicated by a blue line.

Movement of the line indicating the current time depends on whether the [Lock current TC] checkbox is checked.

For details, see "[Lock current TC] checkbox" (page 10) in "Timeline."

(3) Schedule

Displays the registered schedule. The following information is displayed.

- Schedule name
- Schedule date/time
- Timecode of schedule start time
- Timecode of schedule end time
- Schedule duration
- Schedule transfer status

  The following transfer states occur.
  - Scheduled: Schedule registered but not transferred
  - Waiting: Processing of the schedule has started, but transfer has not started
  - In-Progress: Transfer has started and is in progress
  - Completed: Transfer completed normally
  - Cancelling: Transfer is being cancelled
  - Cancelled: Transfer has been cancelled
  - Transfer Error: Transfer error occurred (status bar turns red when an error occurs)
  - Rec Error: Recording error occurred
- Status bar

(4) Upper limit of schedule length when schedule from current position is created

The yellow dashed line indicates the upper limit for the length of a schedule when creating a schedule having the current time specified as the start time.

(5) Server maximum recording time (24 hours)

The red dashed line indicates the 24th hour from the point where the server started loop recording.

(6) Maintenance schedule

Displays the set maintenance schedule. The following information is displayed.

- Maintenance date
- Timecode of maintenance start time
- Timecode of maintenance end time
- Maintenance duration

For details, see “Maintenance” (page 21).

Context menu

Right clicking a schedule displays the following menu items.

- [Edit]: Displays the [Schedule] dialog to edit or re-transfer the schedule.

  For details, see “Editing and re-transferring past schedules” (page 16), “Editing the end time of a schedule containing the current time” (page 17), or “Editing future schedules” (page 17).
- [Delete]: Displays a confirmation dialog to delete the schedule.

  For details, see “Deleting a schedule” (page 18).

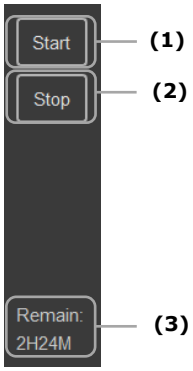
• [Stop]: Cancels transfer of the schedule being transferred.
For details, see "Cancelling schedule transfer" (page 16).

Timeline operations

• Moving a track up/down
Turn the mouse wheel above the timeline.
• Timeline display range zoom in/out
Press and hold the Ctrl key and turn the mouse wheel above the timeline.
  – When the [Lock current TC] checkbox is checked, the timeline zooms in/out with the current time in the center.
  – When the [Lock current TC] checkbox is unchecked, the timeline zooms in/out with the cursor position in the center.
• Panning the timeline left/right
Press and hold the Ctrl key and move the mouse left/right above the timeline. When the [Lock current TC] checkbox is checked, the timeline does not move.

Control panel

Displays the operation of the server connected with this software and the remaining recording time.



(1) [Start] button
Click to register a schedule with the current time set as the start time, and to start the transfer.
The registered schedule name is set using [Schedule Name Set] – [Start Now Rule] in the [Settings] dialog.
In the [Schedule] dialog displayed by the [+] (New port schedule) button for this port, or [Edit] in the context menu of the schedule, the most-recently set [Destination] information is registered as the transfer destination.

Note

If a schedule contains the current time, clicking it will not work.

(2) [Stop] button

When clicked, the current time is set as the end time if the schedule contains the current time. This changes the end time even for a schedule that already has a set end time.

(3) Server remaining recording time

Displays the remaining time for the port. If a proxy port is set, the remaining time of the proxy port is not displayed.

Operating Procedures

Registering and transferring a schedule

A schedule can be registered and transferred by specifying a future or past time.

1. To select multiple target ports to set, place a check mark in the port selection checkboxes of the target ports and click the [+] (New schedule) button in the timeline header. If there is only one target port, click the [+] (New port schedule) button for the target port.
The [Schedule] dialog appears.

2. Set the schedule name.
You can edit the schedule name in [Name] (up to 32 characters).

3. Set the date and time.
Use [Day], [Start] and [End] to set the date and start/end times. The duration is displayed automatically. If you edit [Dur] directly, the [End] time changes accordingly.
The upper limit that can be set in [End] is given by the following, whichever occurs first.
- The time immediately before the start time of the next schedule
- The maximum time that can be recorded in the remaining capacity of the server
- The time just before the set maintenance start time
- The 24th hour from the point where the server started loop recording (maximum recording time)

Schedule registration is possible without setting [End].
In this case, the upper limit time that can be set in [End] is set as the end time.

4. Select the target port to set.
The servers connected to this software are displayed in the [Ports] list, and a check mark is placed in the checkboxes of the target ports. You can change and add target ports with these checkboxes.
In addition, the proxy port name is displayed next to the port name for the port set as the proxy port.

5. Set the transfer destination media gateway and drive.
Select the transfer destination media gateway from the [MGW] drop-down list. Select a drive in the [Destination] drop-down list and a folder in the tree area, then click the [Set] button.
To transfer proxy data, place a check mark in the [With Proxy] checkbox, and select the transfer destination drive and folder.
Click the  (Update) button to update the media gateway or drive information.
You cannot set the folder if you clear the [MGW Folder] checkbox in the [Settings] dialog.
For details, see “Settings” (page 19).

6. Click the [OK] button.
Schedule registration is finished and the schedule information is displayed on the timeline.
Schedules registered with future start times specified will start transferring at their set start times.
Schedules registered with past start times will start transferring as soon as schedule registration is finished.

Notes

- Do not stop recording on the port set as the master TC. When recording is stopped on the port set as the master TC, the current time will not advance in this software.
- The following schedules will cause an error that prevents registration from completing.
  - Schedules that overlap an existing schedule or maintenance schedule
  - Schedules created when there is no material on the server in a past time slot
  - Schedules that contain the timecode for the point 24 hours from the recording start point of the current loop recording
- Recording stops when the loop recording port is in the following states. If a schedule exists, transfer continues up to the point where recording stops.
  - When the maximum recording time has elapsed
  - When there is no longer any remaining capacity
- This application will not function correctly if a TC jump occurs during loop recording.

Registering and transferring a schedule from the current time

You can register and transferring a schedule with the current time as the start time. Configure the following settings beforehand.

- Destination: Press the [+] (New port schedule) button or select [Edit] from the context menu of the target port to display the [Schedule] dialog, and register a schedule. Schedules will be transferred to the destination registered in the dialog.
- Schedule name: Specify the schedule name using [Schedule Name Set] – [Start Now Rule] in the [Settings] dialog. Schedule names will be registered according to the rules specified in the dialog.

1. Click the [Start] button on the control panel of the target port.
A schedule is registered with the current time as the start time, the upper limit time that can be set in [End] as the end time, and the transfer starts.
For details about the upper limit time that can be set in [End], see "Set the date and time." (page 14) in "Registering and transferring a schedule."

2. Click the [Stop] button on the control panel.
When clicked, the current time is set as the end time.

Note

If there is a schedule that contains the current time, schedule registration and transfer from the current time is not allowed.

Cancelling schedule transfer

You can abort a schedule during transfer.

1. Right-click on the schedule being transferred.
2. Click [Stop] in the displayed context menu.
   A confirmation dialog appears. Click the [OK] button to stop the transfer. When the transfer stop process finishes, the transfer status becomes [Cancelled].

Notes

- Schedule transfer can be cancelled only when the transfer status is [In-Progress].
- Depending on the transfer status, data up to the transfer stop point may remain on the destination drive or folder.

Editing and re-transferring past schedules

You can edit and re-transfer a schedule in the past time slot when transfer completion, transfer stop, or transfer error occurred.

1. Right-click on a schedule to edit or re-transfer.
2. Click [Edit] in the displayed context menu.
3. Edit the items in the displayed [Schedule] dialog, as required.
   You can edit only the schedule name and the transfer destination (including the transfer destination of the proxy data) of a past time slot schedule.
   For details about configuring items, see “Registering and transferring a schedule” (page 14).
4. Click the [OK] button.
   Registration of the edited schedule is finished, schedule information on the timeline is updated, and re-transfer is executed.

Notes

- Schedules can be re-transferred only when the transfer status is one of the following.
  - [Completed], [Cancelled], [Transfer Error]
- If there is no material on the server, it cannot be re-transferred.
- If there is no proxy data material on the server, the [With Proxy] checkbox is cleared and editing is disabled.

Editing the end time of a schedule containing the current time

You can edit the end time of a schedule containing the current time if transfer is in progress, transfer is stopped, or if a transfer error occurs. In the case of transfer stopped or transfer error, you can restart the transfer.

1. Right-click a schedule you want to edit.
2. Click [Edit] in the displayed context menu.
3. Edit the items in the displayed [Schedule] dialog.
   Only the end time and duration are editable.
   The configurable range of the end time is from the time 30 seconds after the [OK] button is clicked in step **4** to the upper limit time that can be set in [End].
   For details about the upper limit time that can be set in [End], see "Set the date and time." (page 14) in "Registering and transferring a schedule."
   For details about configuring items, see "Registering and transferring a schedule" (page 14).
4. Click the [OK] button.
   Registration of the edited schedule is finished and the schedule information on the timeline is updated.
   Transfer is executed again if the status is [Cancelled] or [Transfer Error].

Note

You can change the end time only if the transfer status is one of the following.

- [Waiting], [In Progress], [Cancelled], [Transfer Error]

Editing future schedules

You can edit schedules that specify a future time.

1. Right-click a schedule you want to edit.
2. Click [Edit] in the displayed context menu.
3. Edit the items in the displayed [Schedule] dialog.
   You can edit only the schedule name, date, time and transfer destination (including the transfer destination for proxy data).
   For details about configuring items, see "Registering and transferring a schedule" (page 14).
4. Click the [OK] button.
   Registration of the edited schedule is finished and the schedule information on the timeline is updated.

Note

Schedules can be edited only when the transfer status is [Scheduled].

Deleting a schedule

You can delete schedules.

1. Right-click a schedule you want to delete.
2. Click [Delete] in the displayed context menu.
3. Click the [OK] button in the displayed confirmation dialog.
   The schedule is deleted.

Notes

- A schedule cannot be deleted when the transfer status is one of the following. To delete, first let the transfer finish or click the [Stop] button to abort the transfer.
  - [In-Progress]
  - [Cancelled], [Transfer Error], or [Rec Error] for a schedule that contains the current time
- Deleting a schedule does not delete clips on the server.

Settings

Default values for PRC Manager registration and schedule registration are set in the [Settings] dialog.

The [Settings] dialog is displayed using [Tools] – [Settings] from the menu bar.

[PRCM IP]

Registers PRC Manager.

Enter the IP address and port number of PRC Manager.

To enable registration, restart the software after setting.

[MGW Folder] checkbox

Enables/disables the media gateway folder field in the [Schedule] dialog.

- On: Enable editing in the folder field.
- Off: Disable editing in the folder field.

[Default Start Point]

In the [Schedule] dialog, select the default [Start] time to be displayed.

- [Blank]: Leave the start time blank.
- [Current TC]: Displays the time when the [Schedule] dialog is displayed.

[Date]

Sets the current date of this software.

When this software is started the first time, the date information of the computer is used to set the current date. You can move the current date forward or backward by one day.

Select the date to be set as the current date in the [Date] list box.

[Schedule Name Set] drop-down list

Saves the default name settings of [New Schedule Rule] and [Start Now Rule] together as a set.

Up to 10 sets of default name settings can be saved ([Set 1] to [Set 10]).

Once saved, you can change the set by selecting from the drop-down list.

[New Schedule Rule]

Set the default name of the schedule to be registered using the [+] (New schedule) button of the timeline header or each port (up to 32 characters).

Enter text or variables in the text box. Variables are converted to port names and dates/times in the actual schedule.

To use a variable, double-click the following variable name from the list box.

- %CAMLBL%: Port name displayed on the port panel
- %CDATE%: Schedule start date displayed in “yyyymmdd” format
- %TCIN%: Schedule start time displayed in “hhmmssff” format

Note

If the schedule name created by converting a variable name exceeds the 32-character limit, it is automatically truncated to 32 characters.

[Start Now Rule]

Sets the default name of schedules to be registered using the [Start] button (up to 32 characters).

Enter text or variables in the text box, in the same way as for [New Schedule Rule].

Click the [OK] button to finish configuration.

Maintenance

Maintenance must be performed periodically (within 24 hours from the last maintenance) in order to ensure there is free space on the server. Deleting schedules with this software or deleting clips using PRC Manager does not recover free space on the server.
Maintenance is executed using [Tools] – [Maintenance] from the menu bar. Maintenance processing time is about 10 seconds.
When executing maintenance, the [Recover storage capacity] function is executed on the server. When maintenance ends, the server start recording automatically.
For details of the [Recover storage capacity] function, refer to the instruction manual of the server.

[Maintenance Time]

Enter the maintenance start time in "hh:mm:ss" (hour:minute:second) format, and click the [Set] button.

The set maintenance schedule will be displayed every day on the timeline of all ports on all servers at the current time.

[Maintenance Now] button

Click this button to start maintenance immediately.

Notes

- The maintenance time cannot be set if maintenance processing would overlap the time slot of an existing schedule.
- Maintenance cannot be executed by the [Maintenance Now] button if a schedule contains the current time.

Appendix

Trademarks

All system names and product names appearing in this document are registered trademarks or trademarks of their respective owners. Trademarked items are not indicated by ® or ™ symbols in this document.

Obtaining LGPL-licensed software

This product uses Qt software licensed under LGPL. You have the right to obtain, change, and distribute the source code of this software. To obtain the source code, contact your Sony sales or service representative for details. Note that we cannot respond to inquiries regarding the content of the source code.