



Media Gateway Software

Installation Guide

Software Version 2.8.0

PWA-MGW1

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Overview

PWA-MGW1 Media Gateway software is an application software to archive files stored in the PWS-4500 multi-port AV storage unit and BPU4800 Broadband Processor Unit, to media, and to retrieve files stored in media to the PWS-4500 and BPU4800. Optical disc archive cartridges, Professional Discs*, SxS memory*, network drives, XDCAM, and hard disk drives can be used as media.

This document describes the installation of the PWA-MGW1.

The intended audience for this documentation is engineers who perform system integration and installation.

Installing the ODS Driver

1. Turn on the PC.
2. Install the ODS driver (setup.exe).
3. Shut down the PC.
4. Turn on the PC again.
5. Check that ODS-D55U/D77U has been correctly recognized in Device Manager.

Environment

PC to install PWA-MGW1

An application dedicated to PWS-100MG1 series. HP DL320e witch supported up to v1.x is not supported.

Other Equipment

To use the PWA-MGW1, the following equipment is required.

- PWS-4500 Multi-port AV storage unit or BPU4800 Broadband Processor Unit
- 10GbE NIC card (either one of the following.)
 - Intel Ethernet Converged Network Adapter X540-T1
 - Intel Ethernet Converged Network Adapter X520-DA1
- USB Audio (PWS-100MG1 supports audio playback using HDMI)
 - Connect Sound Blaster Play! to a USB connector for sound check during preview. Connect headphones to the Phone connector first, and then start Catalyst Browse for playing back audio.

If headphones are connected after the start of Catalyst Browse, Catalyst Browse needs to be restarted.

The following are optional equipment for production control.

- PWS-100PR1/PWS-110PR1 Production Control Software (PWA-PRC1 is installed)
- PWSK-4403 USB Control Device
- MSQ-S321 XAVC 4K/HD Codec Card (installed in the PWS-100PR1/PWS-110PR1)

Preparation

Configuring PRC Manager

PRC Manager software is included with PWA-MGW1. PRC Manager is software that manages the PWS-4500/BPU4800 devices, PWA-PRC1, and PWA-MGW1 on a network without using an operation screen.

Only one PRC Manager instance must be running on a network, regardless of whether there is only one PWA-MGW1 or multiple PWA-PRC1 installations on the same network.

Note

If both PWA-PRC1 and PWA-MGW1 are on the same network, do not use PRC Manager on the PWA-MGW1.

To perform management functions using PRC Manager, the PWS-4500/BPU4800 and PWA-MGW1 must have the following settings.

PWS-4500/BPU4800 settings

Click [System] – [Network], and configure the following settings in [PRCM Setting] on the displayed screen.

Item	Setting
Port Number	50000
PRCM 1 Connection	Enable
PRCM 1 IP Address	IP address of PC on which PRC Manager is installed

PWA-MGW1 settings

Click [Settings] – [PRC Manager] – [PRC Manager List] – [Add], and configure the following settings on the displayed screen.

Item	Setting
IP Address	IP address of PC on which PRC Manager is installed
Port Number	51000

PWA-PRC1 settings

If using an NMI and Share Play, different settings for PTP domain are required. If the settings need to be changed, change the PTP domain setting in [Settings] – [System] – [PRC manager].

Setting the PSW-4500

This section describes the web menu of PWS-4500 V2.6 as an example.

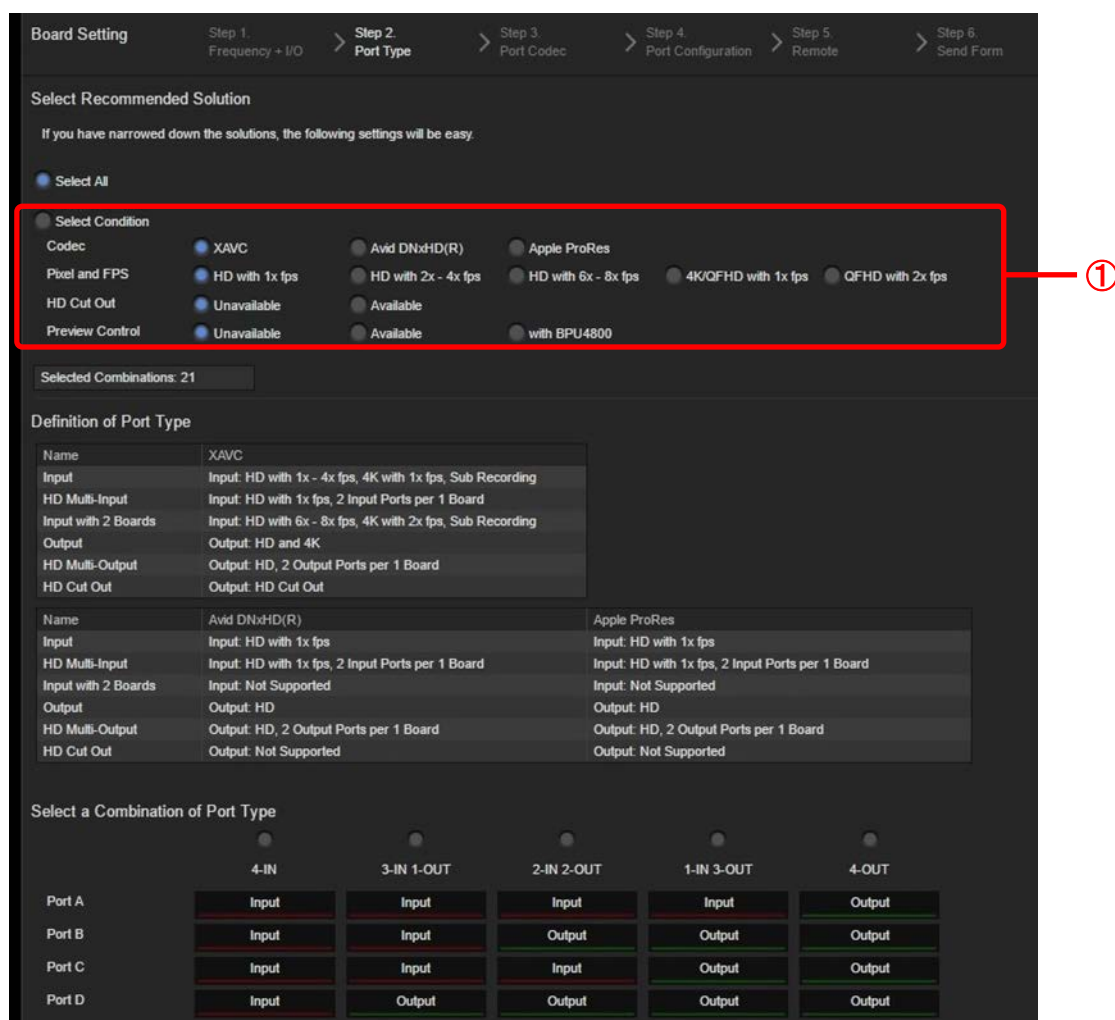
1. Configure the PWS-4500 Port A through Port D settings, according to the PGM mode used by PWA-PRC1.

When each condition is selected in the following figure (①), select the desired settings from the enabled I/O configurations.

Refer to the PWS-4500 Operation Manual for details on port settings.

Note

PWA-PRC1 does not support 1-IN, 2-IN, 3-IN, 4-IN, 2-OUT, 3-OUT, 4-OUT, 1-IN 3-OUT and 2-IN 3-OUT configurations as the local server.



Board Setting Step 1. Frequency + I/O > Step 2. Port Type > Step 3. Port Codec > Step 4. Port Configuration > Step 5. Remote > Step 6. Send Form

Select Recommended Solution

If you have narrowed down the solutions, the following settings will be easy.

☒ Select All

☒ Select Condition

Codec ☒ XAVC ☐ Avid DNxHD(R) ☐ Apple ProRes

Pixel and FPS ☒ HD with 1x fps ☐ HD with 2x - 4x fps ☐ HD with 6x - 8x fps ☐ 4K/QFHD with 1x fps ☐ QFHD with 2x fps

HD Cut Out ☒ Unavailable ☐ Available

Preview Control ☒ Unavailable ☐ Available ☐ with BPU4800

Selected Combinations: 21

Definition of Port Type

Name	XAVC
Input	Input: HD with 1x - 4x fps, 4K with 1x fps, Sub Recording
HD Multi-Input	Input: HD with 1x fps, 2 Input Ports per 1 Board
Input with 2 Boards	Input: HD with 6x - 8x fps, 4K with 2x fps, Sub Recording
Output	Output: HD and 4K
HD Multi-Output	Output: HD, 2 Output Ports per 1 Board
HD Cut Out	Output: HD Cut Out

Name	Avid DNxHD(R)	Apple ProRes
Input	Input: HD with 1x fps	Input: HD with 1x fps
HD Multi-Input	Input: HD with 1x fps, 2 Input Ports per 1 Board	Input: HD with 1x fps, 2 Input Ports per 1 Board
Input with 2 Boards	Input: Not Supported	Input: Not Supported
Output	Output: HD	Output: HD
HD Multi-Output	Output: HD, 2 Output Ports per 1 Board	Output: HD, 2 Output Ports per 1 Board
HD Cut Out	Output: Not Supported	Output: Not Supported

Select a Combination of Port Type

	4-IN	3-IN 1-OUT	2-IN 2-OUT	1-IN 3-OUT	4-OUT
Port A	Input	Input	Input	Input	Output
Port B	Input	Input	Output	Output	Output
Port C	Input	Input	Input	Output	Output
Port D	Input	Output	Output	Output	Output

2. Configure each port.

Note

PWA-PRC1 may not function properly if the following settings are not correctly made. Be sure to make the following settings.

- Make the same Video Format settings for each port.
- In Cut Out mode, make the same Format settings for PortD: Output and [Monitor Out].
- In Cut Out mode, make the same settings for [Monitor Out] for each port.
- In modes other than Cut Out mode, set [Monitor Out] to “xxp to xxi & HD-SDI” (where “xx” is the resolution) where available.

Board Setting Step 1. Frequency + I/O > Step 2. Port Type > Step 3. Port Codec > **Step 4. Port Configuration** > Step 5. Remote > Step 6. Send Form

Common Settings

The following settings are preferentially selected for all ports.

External Interface: **HD-SDI**

Monitor Out: ☒ HD-SDI ☐ 3G-SDI(A) ☐ 3G-SDI(B)

Port A-1: Input: HD with 1x - 4x fps, 4K with 1x fps, Sub Recording

XAVC	HD: 1280 x 720 YPbPr 4:2:2 10bit	HD: 1920 x 1080 YPbPr 4:2:2 10bit	QFHD: 3840 x 2160 YPbPr 4:2:2 10bit		4K: 4096 x 2160 YPbPr 4:2:2 10bit	
	Class 100	Class 100	Class 300	Class 480	Class 300	Class 480
50i		<input type="radio"/>				
50i 2x		<input type="radio"/>				
50i 3x		<input type="radio"/>				
50i 4x		<input type="radio"/>				
25PsF		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25p		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
50p	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
50p 2x	<input type="radio"/>	<input type="radio"/>				
50p 3x	<input type="radio"/>	<input type="radio"/>				
50p 4x	<input type="radio"/>	<input type="radio"/>				

Next: **50p QFHD: 3840 x 2160 YPbPr 4:2:2 10bit XAVC Class 300**

External Interface: **3G-SDI(A) SQD (Square Division)**

NMI Video Quality: **Unused**

Monitor Out: ☒ 50p to 50i & HD-SDI ☐ 50p & 3G-SDI(A) ☐ 50p & 3G-SDI(B)

Sub Recording: ☒ Off ☐ Using Internal Signal ☐ Using External Interface

Sub Recording Configuration: **Unusable Configuration**

Port B-1: Output: HD and 4K

XAVC	HD: 1280 x 720 YPbPr 4:2:2 10bit	HD: 1920 x 1080 YPbPr 4:2:2 10bit	QFHD & 4K to QFHD: 3840 x 2160 YPbPr 4:2:2 10bit		4K: 4096 x 2160 YPbPr 4:2:2 10bit	
	Class 100	Class 100	Class 300	Class 480	Class 300	Class 480
50i		<input type="radio"/>				
50p to 50i		<input type="radio"/>				
25PsF		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25p		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
50p	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Next: **50p QFHD & 4K to QFHD: 3840 x 2160 YPbPr 4:2:2 10bit XAVC Class 300**

External Interface: **3G-SDI(A) SQD (Square Division)**

NMI Video Quality: **Unused**

Monitor Out: ☒ 50p to 50i & HD-SDI ☐ 50p & 3G-SDI(A) ☐ 50p & 3G-SDI(B)

- Set [Chunk File] of the input port to “24H”.

- TC to Input shall be in synchronization. Set [TCG Source] of the input port to "Master TC".
- Configure the correct [DF mode] for each input/output port. Do not mix DF and NDF settings.

Note

Correct operation will not occur if a TC jump exists in the recorded file.

The screenshot displays a software interface for configuring video recording ports. At the top, there are tabs for Home, Status, System, Port, File, Storage, Maintenance, and SNMP. The 'Port' tab is active, showing sub-tabs for Common, Port A-1, Port B-1, Port C-1, and Port D-1. The 'Port A-1' sub-tab is selected, showing a configuration for 'Board A: Input: HD with 1x - 4x fps, 4K with 1x fps, Sub Recording'. Below this, there's a section for 'Port A-1' with 'IN' and 'FILE' buttons, and a 'Next: FILE' button. A 'CLOSE' button is also present. Below the 'CLOSE' button, there are two lines of text: '50p 3840x2160 3G-SDI(A) SOD' and '50p 3840x2160 YPbPr 4:2:2 10bit XAVC Class 300'. A note states: 'This port uses the audio settings of Port C-1 except for [Track Number: 8].'

Below the port configuration, there's an 'Option' section with several settings: 'Remote 9pin' (Off), 'Remote 25pin' (Off), 'SDI Remote' (Off), and 'Chunk File' (24H). The 'Chunk File' setting is highlighted with a red box. Below this, there's a 'User Specified Name' field with 'CAM1' entered, and a '- Template -' dropdown menu. 'Submit' and 'Cancel' buttons are also present.

At the bottom, there's a 'TC' section, also highlighted with a red box. It contains a 'TC Setup' table with the following settings:

TC Setup	Value	Dropdown
TCG Source	Master TC	Master TC
REGENE Source	TC & UB	TC & UB
RUN Mode	Free Run	Free Run
DF Mode	NDF	NDF
TC OUT	Regene	Regene
Timer Select	TC	TC
Timer Set: Disabled	---	---

At the bottom right of the 'TC' section, there are 'Set' and 'Reset' buttons.

- Set [Forced Shuttle Mode] of the output port to "Off".

Home Status System **Port** File Storage Maintenance SNMP

Common Port A-1 **Port B-1** Port C-1 Port D-1

Board B: Output: HD and 4K

Port B-1 [FILE] NONE → [OUT] QFHD

CLOSE [FILE] 50p XAVC Class 300
[OUT] 50p 3840x2160 3G-SDI(A) SQD

CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9	CH 10	CH 11	CH 12	CH 13	CH 14	CH 15	CH 16
TR 1	TR 2	TR 3	TR 4	TR 5	TR 6	TR 7	TR 8	TR 9	TR 10	TR 11	TR 12	TR 13	TR 14	TR 15	TR 16
SDI-A/E	SDI-A/E	SDI-A/E	SDI-A/E	SDI-A/E	SDI-A/E	SDI-A/E	SDI-A/E	SDI	SDI	SDI	SDI	SDI	SDI	SDI	SDI

Option

Remote 9pin Off Off ▼

Remote 25pin Off Off ▼

Continuous Mode Single File Normal Single File Normal ▼

Feed Play Mode Off (1x) Off (1x) ▼

Forced Shuttle Mode Off Off ▼

Dual Port Effect Mode Off Off ▼

- Set [Shuttle Muting] of the output port to "On".

Audio

Audio Output Select: **SDI-A/E** or SDI

Port B-1 CH01 CH02 CH03 CH04 CH05 CH06 CH07 CH08 CH09 CH10 CH11 CH12 CH13 CH14 CH15 CH16

Track 01 ▼ 02 ▼ 03 ▼ 04 ▼ 05 ▼ 06 ▼ 07 ▼ 08 ▼ 09 ▼ 10 ▼ 11 ▼ 12 ▼ 13 ▼ 14 ▼ 15 ▼ 16 ▼

Clear

Submit Cancel

Muting

Shuttle Muting Off Off ▼

VAR Muting Off Off ▼

Others

Audio Output Phase 128 128 samples [0 ≤ 128 default ≤ 255]

- When using Cut Out mode, set [Time Shifted Play] to "From Storage Only".

The screenshot shows the 'System Parameters' configuration page. The 'Time Shifted Play' setting is highlighted with a red box and is set to 'From Storage Only'. Other settings include Reference Source (Input Port A-1), Preroll Time (5 sec), Rec Inhibit (Off), Frame PB Mode (Field), Freeze PB Mode (Field1), Record File Naming (FILE + Sequential), File Delete Mode (Inhibit), Front LED Mode (On), QFHD/4K SDI with TC (SDI-1 Only), Output Port SDI-1,2,3,4 (On), No Video Output Signal (Gray), Control Inhibit (Off), Automatic Start (Off), and Master Audio (Port C-1).

- When recording using Loop Recording, set all recording ports on the PWS-4500 to the same settings.

Note

If the port settings are changed, reconfigure [Create Loop Recording Area].

The screenshot shows the 'Create Loop Recording Area' configuration page. The 'Port A-1' and 'Port C-1' sections are highlighted with a red box. The 'Port A-1' section shows 'Assign Port' checked, 'Assign Area' set to 'Number of Blocks: 6 - Size: 676 GB - Time: About 02 h 40 min', and 'Area Information' set to 'Area 1'. The 'Port C-1' section shows 'Assign Port' checked, 'Assign Area' set to 'Number of Blocks: 8 - Size: 902 GB - Time: About 03 h 35 min', and 'Area Information' set to 'Area 2'. A progress bar at the bottom shows 'Area 1 (37.5%)' and 'Area 2 (50%)' with a 'Remaining (12.5%)' label. A legend at the bottom lists various areas and their usage.

3. Configure FTP Server

Note

PWA-MGW1 may not function properly if the following settings are not correctly made. Be sure to make the following settings.

- Set [Activation] to "On"

Home	Status	System	Port	File	Storage	Maintenance	SNMP
Board	Setup	Monitor	Remote	Network	Share Play	Bank	Power

Network Setting

Network 1 (1GbE)

IP Address	192	168	0	62	192	168	0	62
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	0	0	0	0
MAC Address	AC:9B:0A:56:EC:4B							

Network 2 (1GbE)

IP Address	192	168	0	2	192	168	0	2
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	[Network 1 Common]			
MAC Address	AC:9B:0A:56:EC:4A							

Network 3 (10GbE)

IP Address	192	168	0	165	192	168	0	165
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	0	0	0	0
MAC Address	A0:36:9F:50:E4:E4							
MTU	1500				1500			

This setting has the following restrictions.
- We need to reboot the server.
- All ports will be closed automatically.

FTP Server

Activation	On	On ▼
Importing File Naming	Off	Off ▼

- Set [Importing File Naming] to "Off".

Home	Status	System	Port	File	Storage	Maintenance	SNMP
Board	Setup	Monitor	Remote	Network	Share Play	Bank	Power

Network Setting

Network 1 (1GbE)

IP Address	192	168	0	62	192	168	0	62
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	0	0	0	0
MAC Address	AC:9B:0A:56:EC:4B							

Network 2 (1GbE)

IP Address	192	168	0	2	192	168	0	2
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	[Network 1 Common]			
MAC Address	AC:9B:0A:56:EC:4A							

Network 3 (10GbE)

IP Address	192	168	0	165	192	168	0	165
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	0	0	0	0
MAC Address	A0:36:9F:50:E4:E4							
MTU	1500				1500			

This setting has the following restrictions.

- We need to reboot the server.
- All ports will be closed automatically.

Submit Cancel

FTP Server

Activation	On	On ▼
Importing File Naming	Off	Off ▼

- Set [Import Clips with Odd Frames(50p & 59.94p)] to "Acceptable (Omit Last Frame)".

Home	Status	System	Port	File	Storage	Maintenance	SNMP
Board	Setup	Monitor	Remote	Network	Share Play	Bank	Power

Network Setting

Network 1 (1GbE)

IP Address	192	168	0	62	192	168	0	62
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	0	0	0	0
MAC Address	AC:9B:0A:56:EC:4B							

Network 2 (1GbE)

IP Address	192	168	0	2	192	168	0	2
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	[Network 1 Common]			
MAC Address	AC:9B:0A:56:EC:4A							

Network 3 (10GbE)

IP Address	192	168	0	165	192	168	0	165
Subnet Mask	255	255	255	0	255	255	255	0
Default Gateway	0	0	0	0	0	0	0	0
MAC Address	A0:36:9F:50:E4:E4							
MTU	1500				1500			

This setting has the following restrictions.

- We need to reboot the server.
- All ports will be closed automatically.

Submit Cancel

FTP Server

Activation On On ▼

Importing File Naming Off Off ▼

Import Clips with Odd Frames (50p & 59.94p)

Acceptable (Omit Last Frame) Acceptable (Omit Last Frame) ▼

Note

When doing the setting from which the odd material is received by frequency of 50p/59.95p on PWS-4500 side, the last odd frame is omitted.

Configuring the BPU4800

Configure the input/output ports of the BPU4800. This section describes the web menu of BPU4800 V1.5 as an example.

The following four methods are supported for using ports.

Port	Description
Replay Port	Set when using as the PWA-PRC1 local server for replay control. It can also be used as a network server for Share Play connection. Clips created on the BPU4800 cannot be transferred to an external device.
XAVC Transcode Port	Set when using as a network server for Share Play connection. Clips created on the BPU4800 can be transferred to an external device. Cannot be used as the local server.
HD Cut Out Port	Set when using as the PWA-PRC1 local server for Cut Out operation. It can also be used as a network server for Share Play connection. Clips created on the BPU4800 cannot be transferred to an external device.
Replay Port + XAVC Transcode Port	This setting is selected automatically if the format is HD. It enables replay control and transcoding to XAVC files.

The playback port method selection is configured using the [Replay Port + XAVC Transcode Port] setting in the web menu of the BPU4800.

Board Setting Step 1. Port Configuration Step 2. Send Form

System Frequency
☐ 25Hz ☒ 29.97Hz

Replay Port + XAVC Transcode Port

Replay Port
 XAVC Transcode Port: 59.94p QFHD: 3840x2160
 HD Cut Out Port

HFR Data	HD: 1920 x 1080 16bit	QFHD: 3840 x 2160 16bit
59.94p (60fps)	<input type="radio"/>	<input type="radio"/>
59.94p 4x (240fps)	<input type="radio"/>	<input checked="" type="radio"/>
59.94p 8x (480fps)	<input type="radio"/>	<input type="radio"/>
59.94p 16x (960fps)	<input type="radio"/>	<input type="radio"/>

Current 59.94p 4x (240fps) QFHD: 3840 x 2160 16bit HFR Data

Replay Port

HFR Data	HD: 1280 x 720 16bit	HD: 1920 x 1080 to HD: 1280 x 720 16bit	HD: 1920 x 1080 16bit	QFHD: 3840 x 2160 16bit
59.94i				
59.94p to 59.94i			<input type="radio"/>	
59.94p		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

XAVC	HD: 1280 x 720 YPbPr 4:2:2 10bit Class 100	HD: 1920 x 1080 to HD: 1280 x 720 YPbPr 4:2:2 10bit Class 100	HD: 1920 x 1080 YPbPr 4:2:2 10bit Class 100	QFHD: 3840 x 2160 YPbPr 4:2:2 10bit Class 300
59.94i				
59.94p to 59.94i			<input type="radio"/>	
59.94p	<input type="radio"/>		<input type="radio"/>	<input checked="" type="radio"/>

Slot 1 Configuration 59.94p QFHD: 3840 x 2160 HFR Data / XAVC 3G-SDI (Level A) 2SI

Slot 2 Configuration 59.94i HD: 1920x1080 HD-SDI

Slot 3 Configuration 59.94i HD: 1920x1080 HD-SDI

Back Next Cancel

Notes

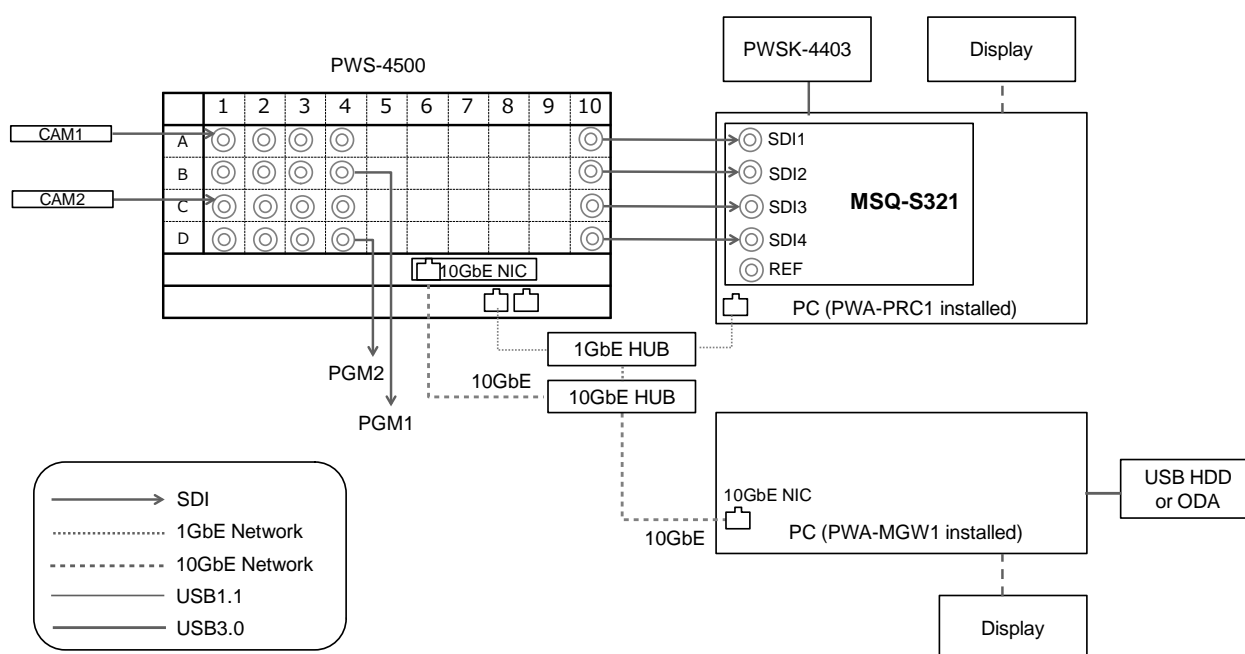
- When HD Cut Out Port is selected, make sure the Format of the slot used for connection with the PWS-100PR1/PWS-110PR1 is the same as the Format of Slot 1 Replay (Slot 1 is set using the web menu, and the slot used for PWS-100PR1/PWS-110PR1 connection is set using the BPU menu).
- Set each port to the correct [DF Mode] setting. Do not mix DF and NDF settings.
- Set the [Forced Shuttle Mode] setting of the Replay port to [Off].
- When HD Cut Out Port is selected, set [Time Shifted Play] to [From Storage Only].

Connection

Note

- In configurations that require two MSQ-S321 boards, only PWS-100PR1/PWS-110PR1 connection is supported.
- In following figures, MSQ-S321 or MSQ-S321(1) means an upper slot and MSQ-S321(2) means a lower slot.
- Be sure to use 10GbE as the NIC of PWS-100MG1/110MG1. Also, when using other NICs, please do not use the same network segment for IP address.

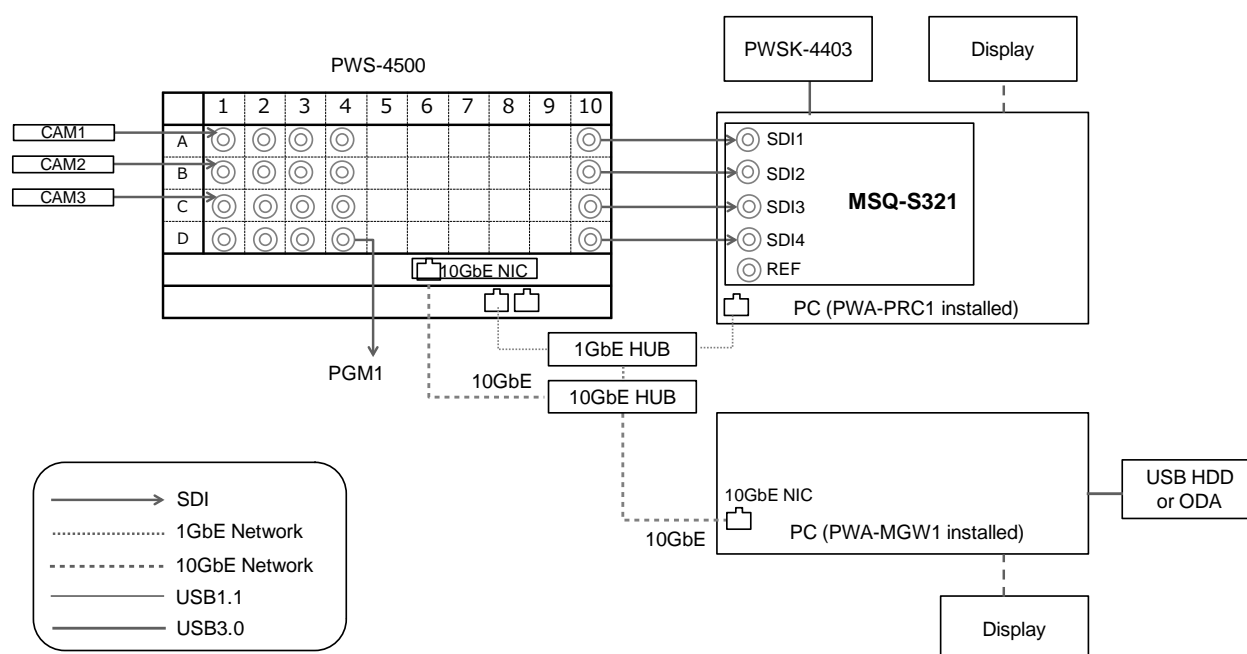
2IN/2OUT (4K) with 10GbE Network



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

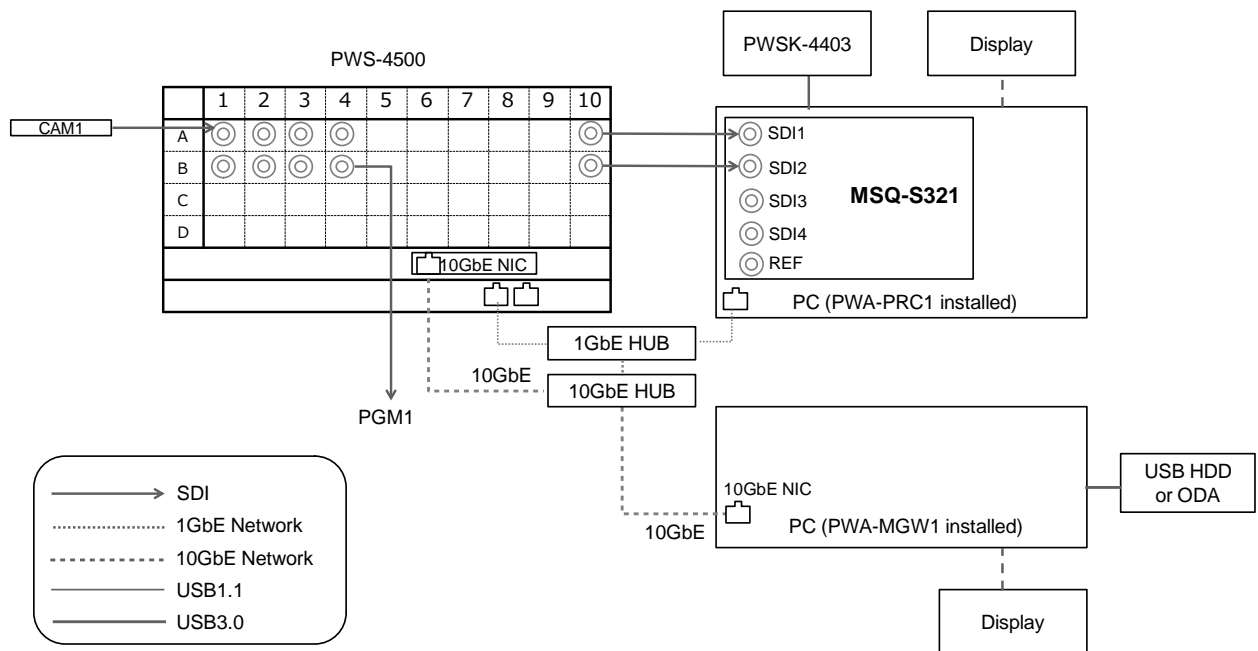
3IN/1OUT (4K) with 10GbE Network



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

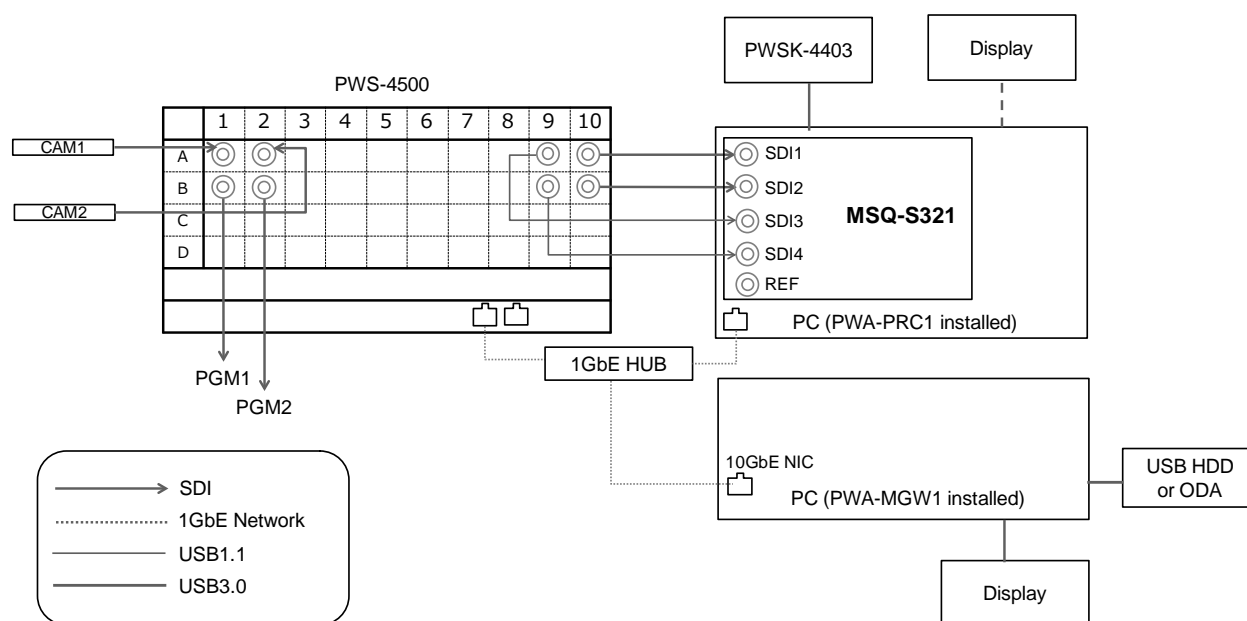
1IN/1OUT (4K) with 10GbE Network, without PWSK-4504



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

2IN/2OUT (HD) with 1GbE Network, without PWSK-4504



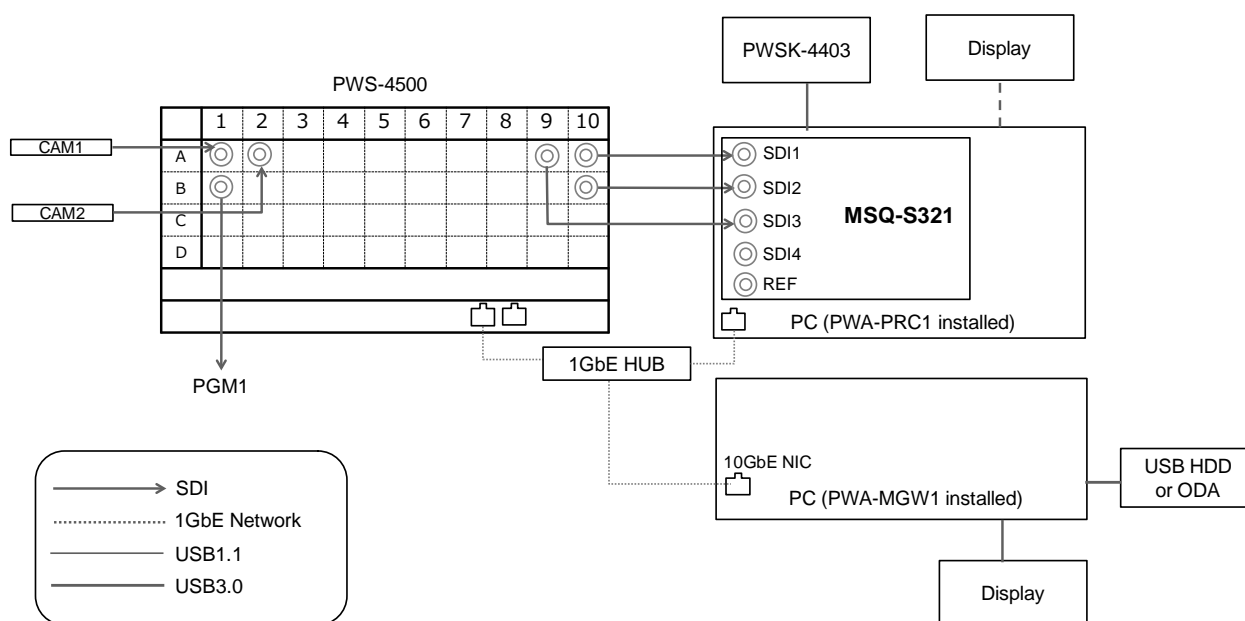
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

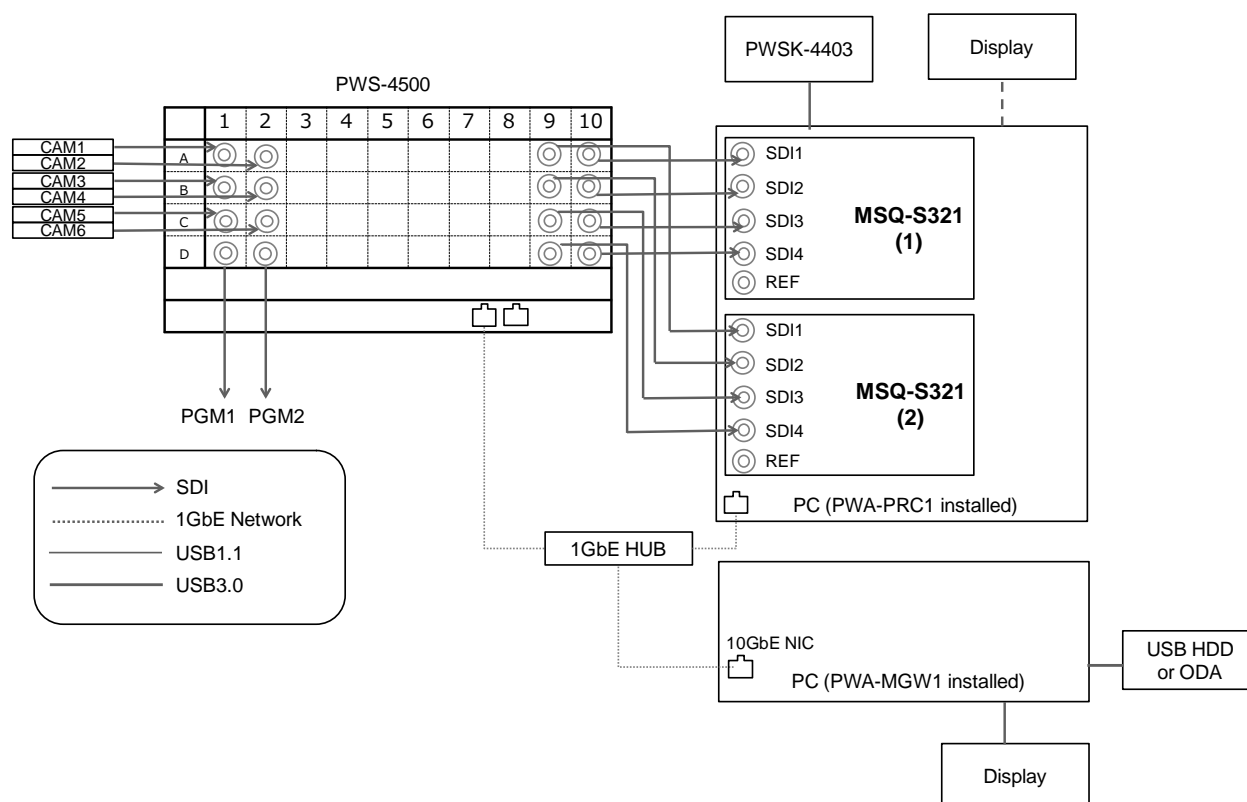
2IN/1OUT (HD) with 1GbE Network, without PWSK-4504



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

6IN/2OUT (HD) with 1GbE Network, without PWSK-4504



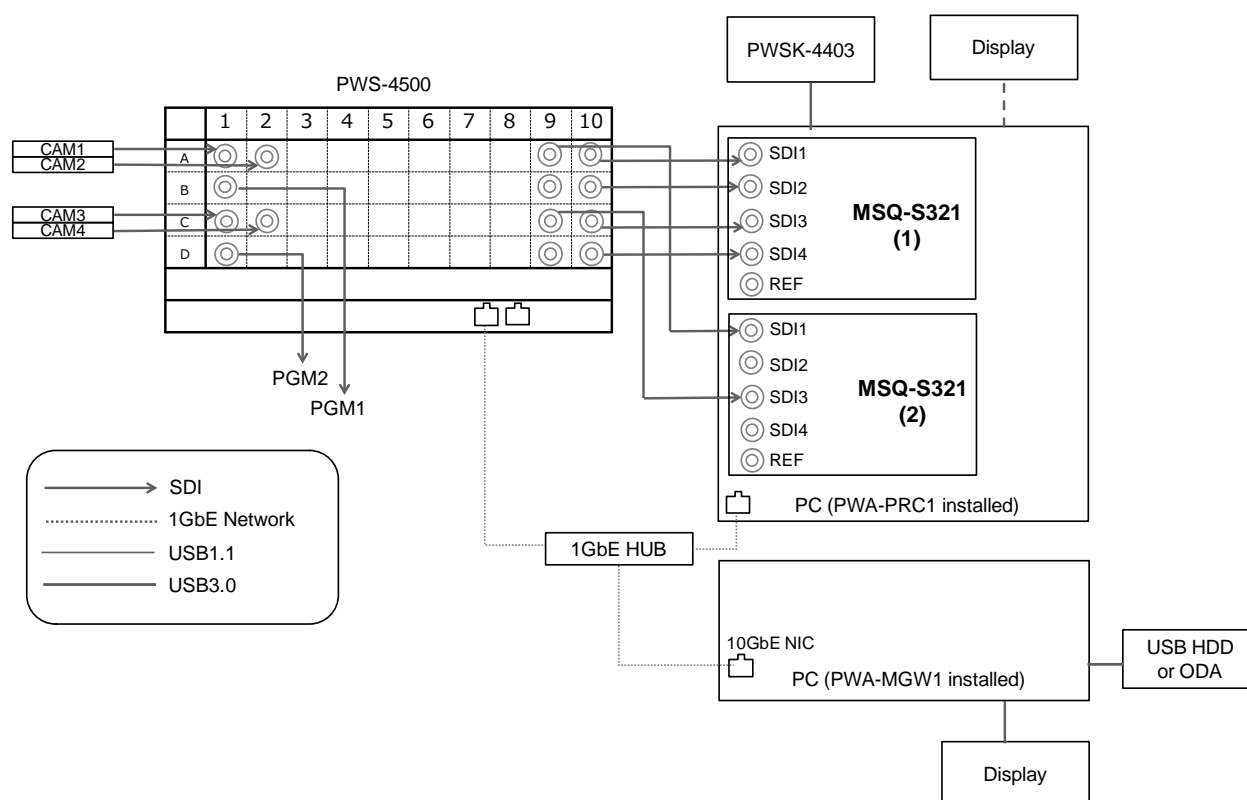
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

4IN/2OUT (HD) with 1GbE Network



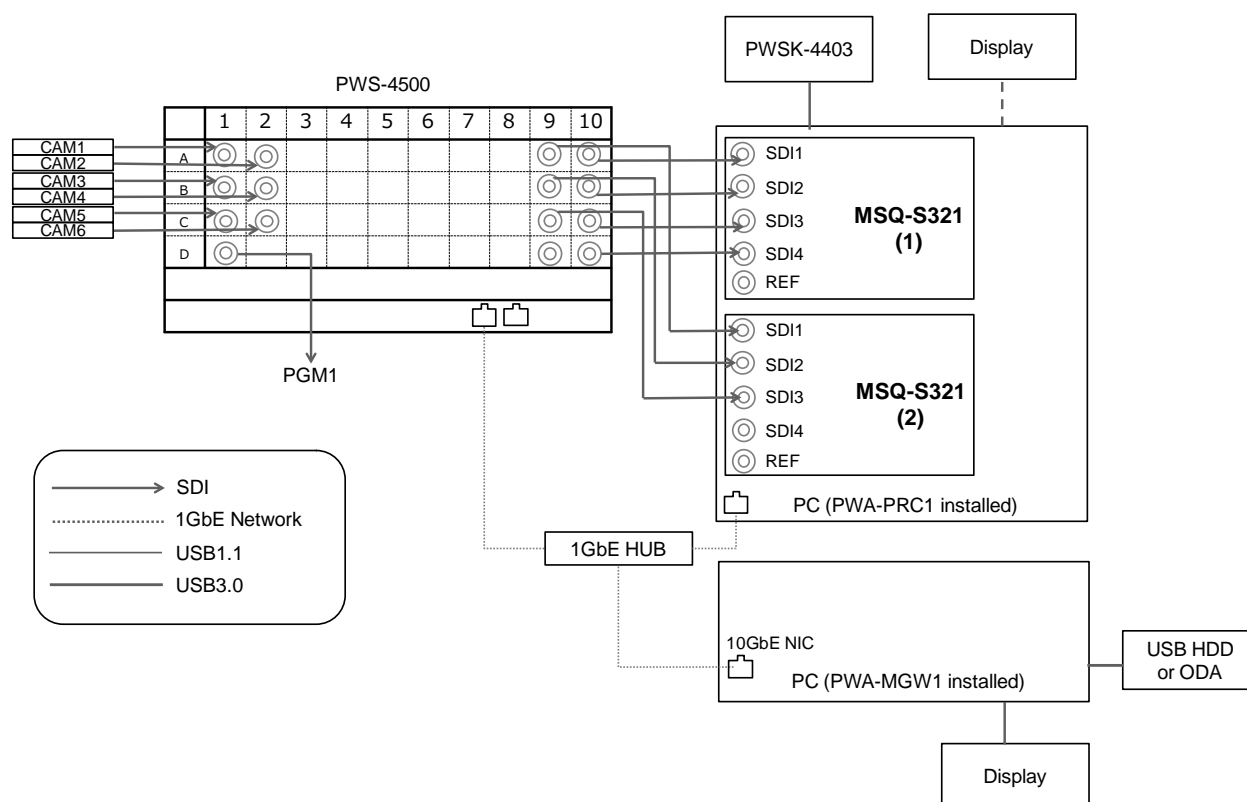
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

6IN/1OUT (HD) with 1GbE Network



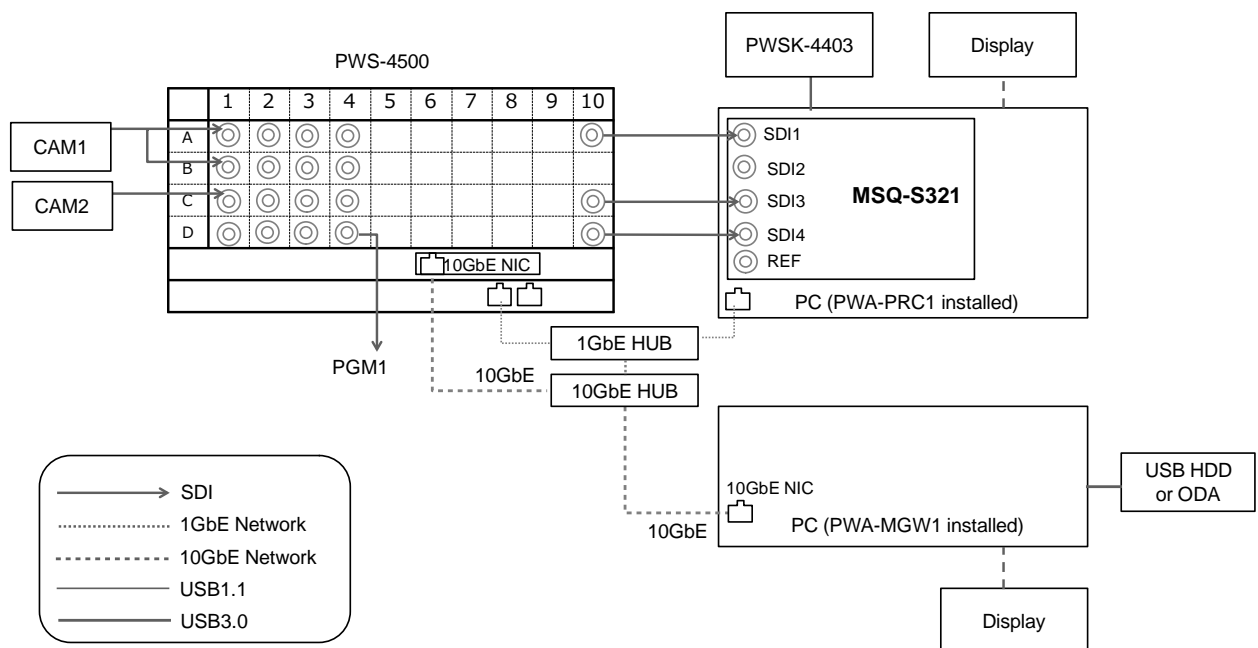
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 2IN/1OUT (4K 2x) with 10GbE Network



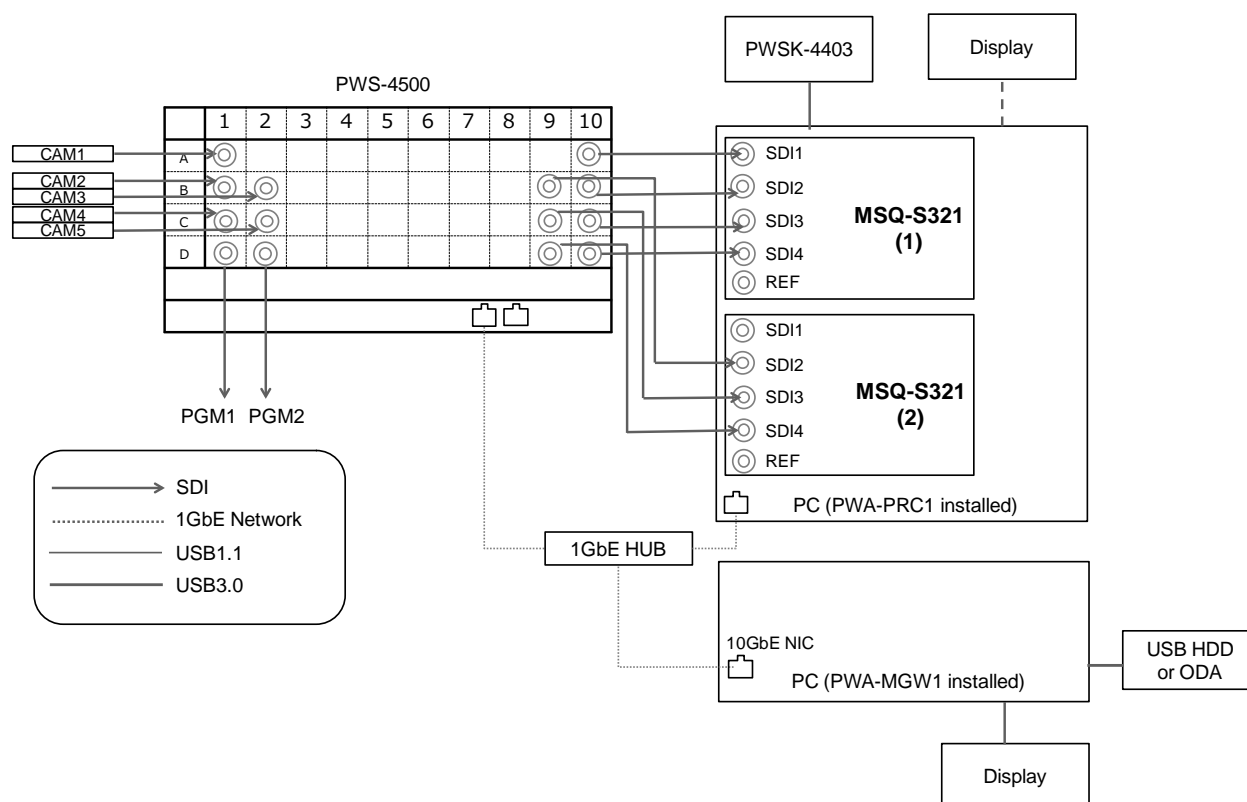
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address



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HFR 5IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network



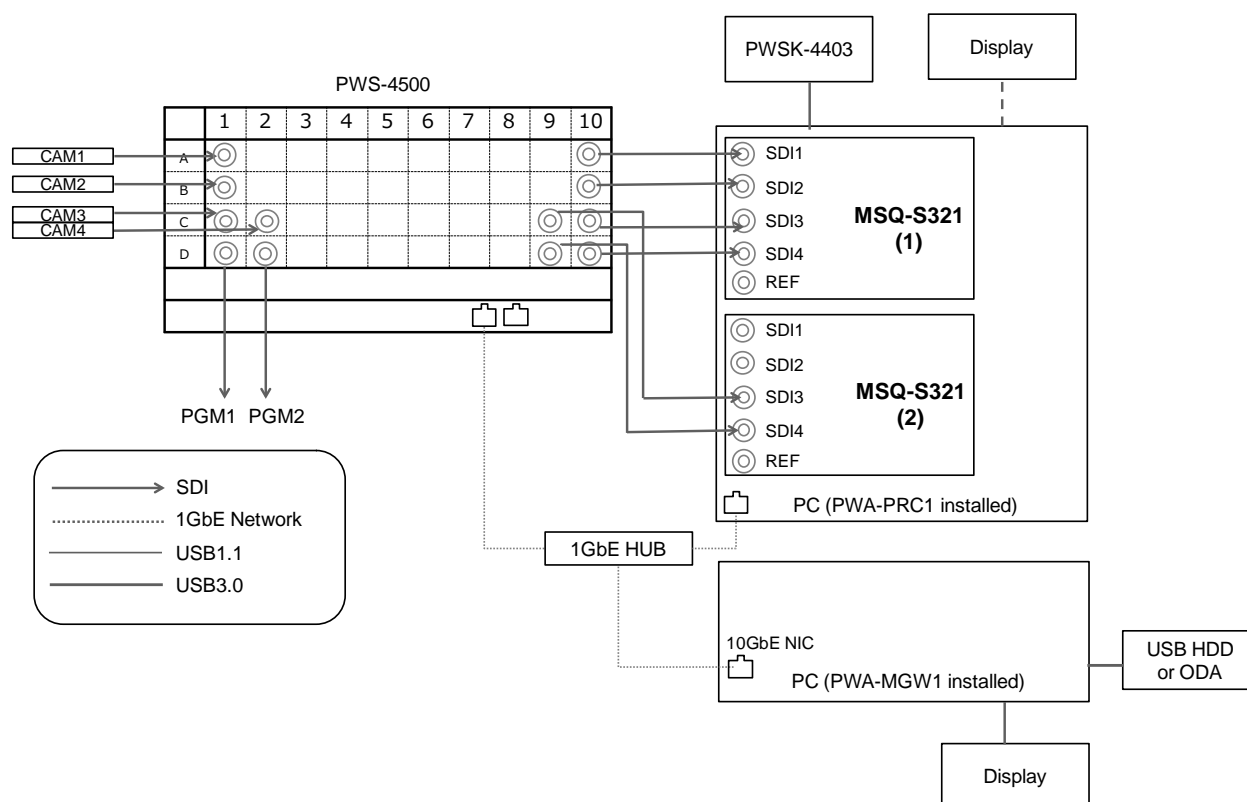
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 4IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network



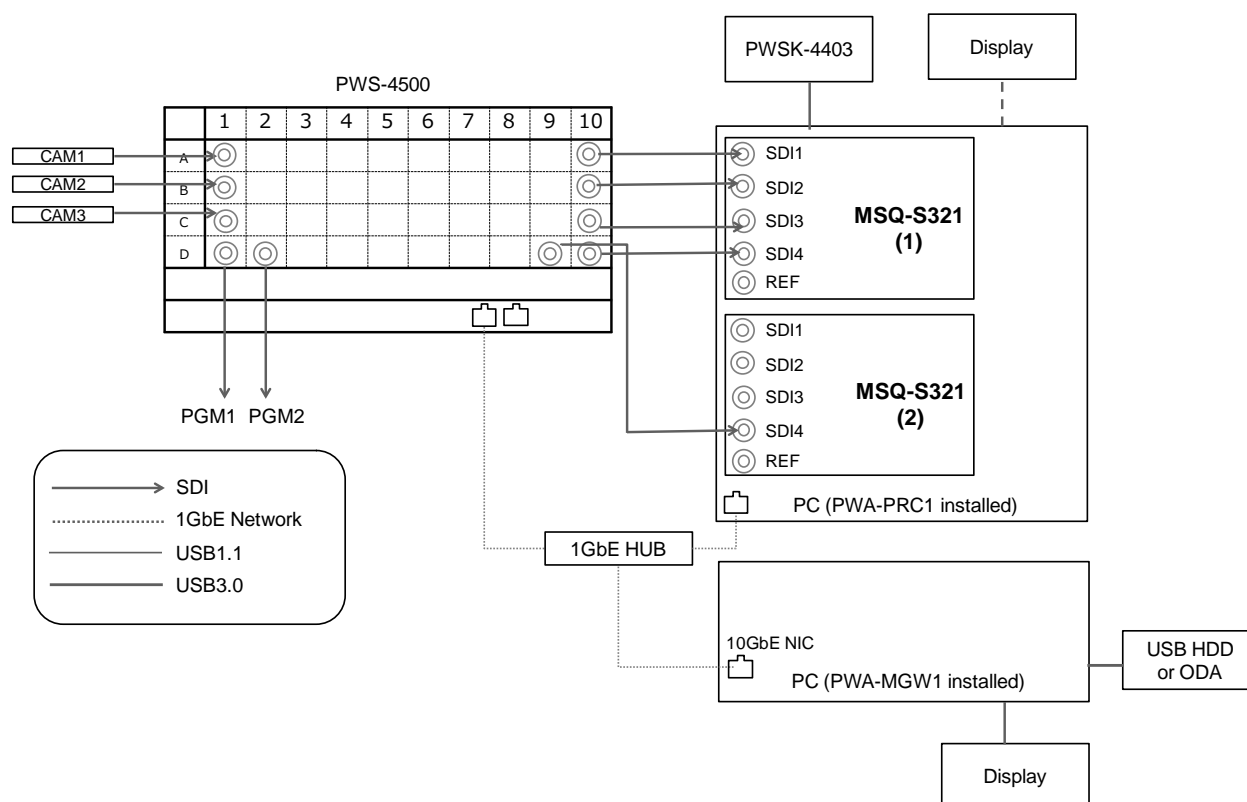
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 3IN/2OUT (HD 4x, 3x, 2x) with 1GbE Network



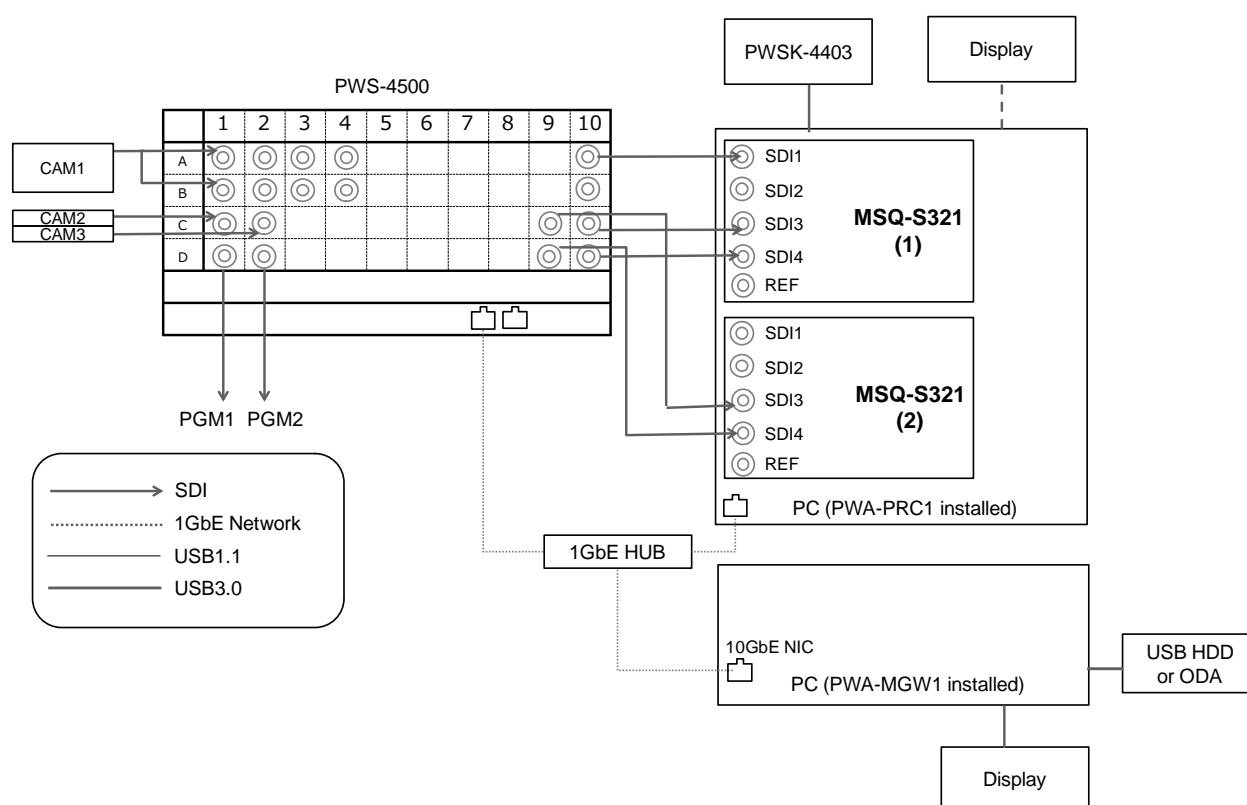
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 3IN/2OUT (HD 8x, 6x) with 1GbE Network



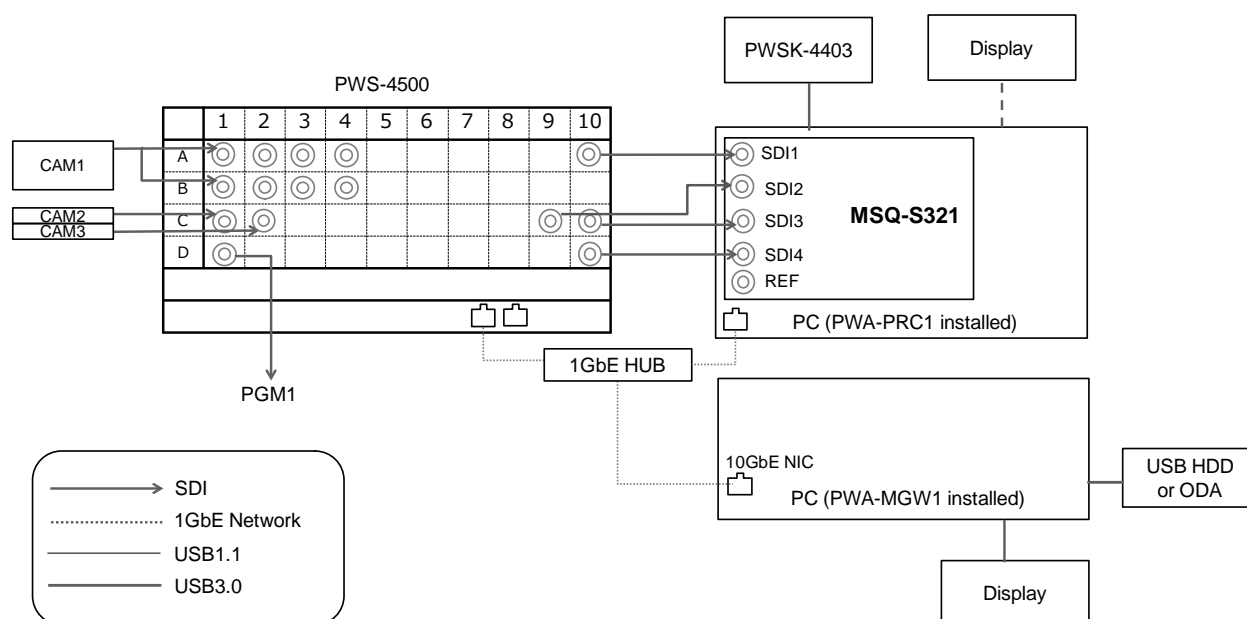
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 3IN/1OUT (HD 8x, 6x) with 1GbE Network



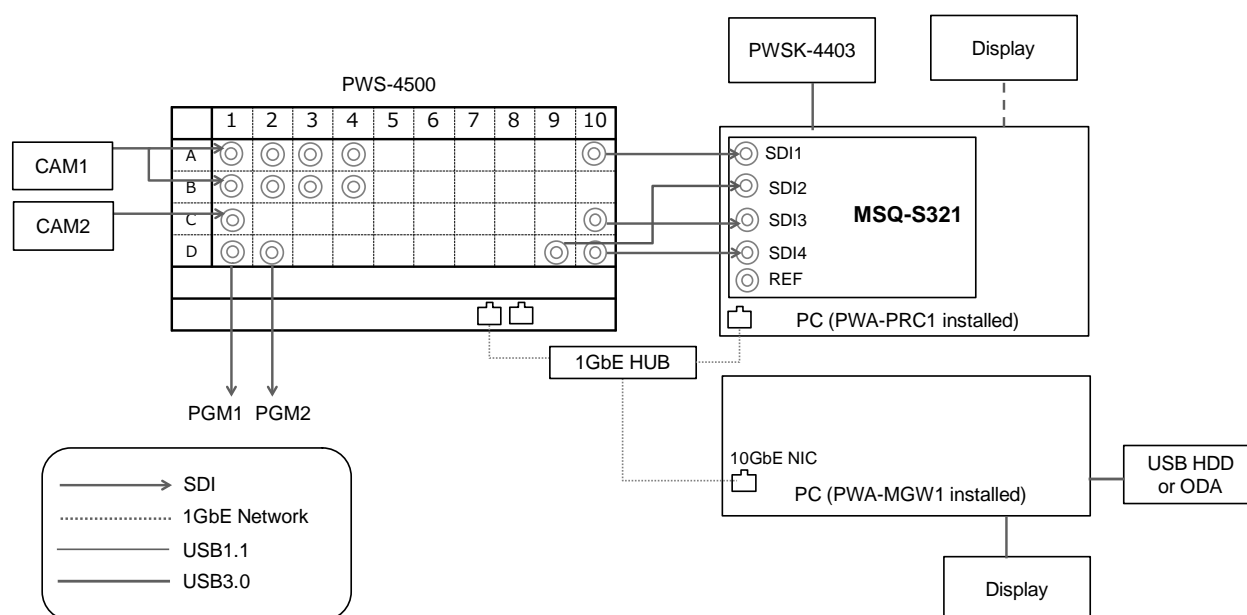
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

HFR 2IN/2OUT (HD 8x, 6x) with 1GbE Network



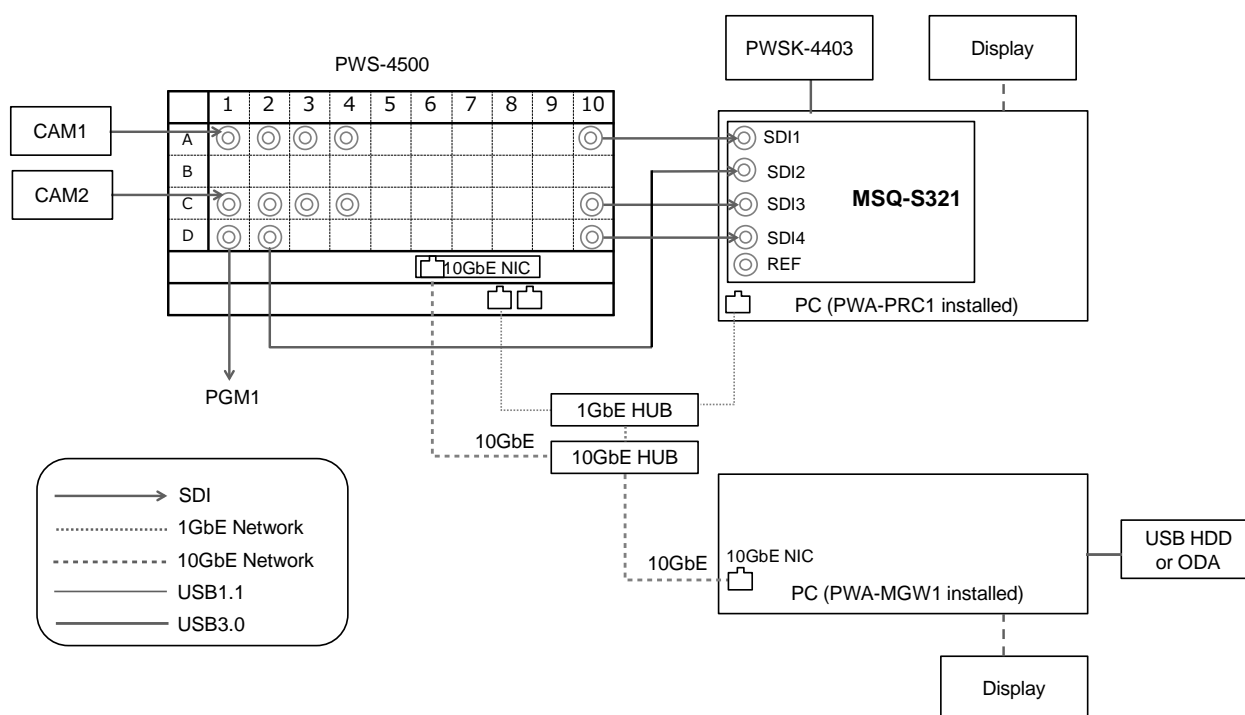
PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 1GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Note

For faster high-speed transfer using ISO REC, for example, connect between the server and Media Gateway using a 10GbE network.

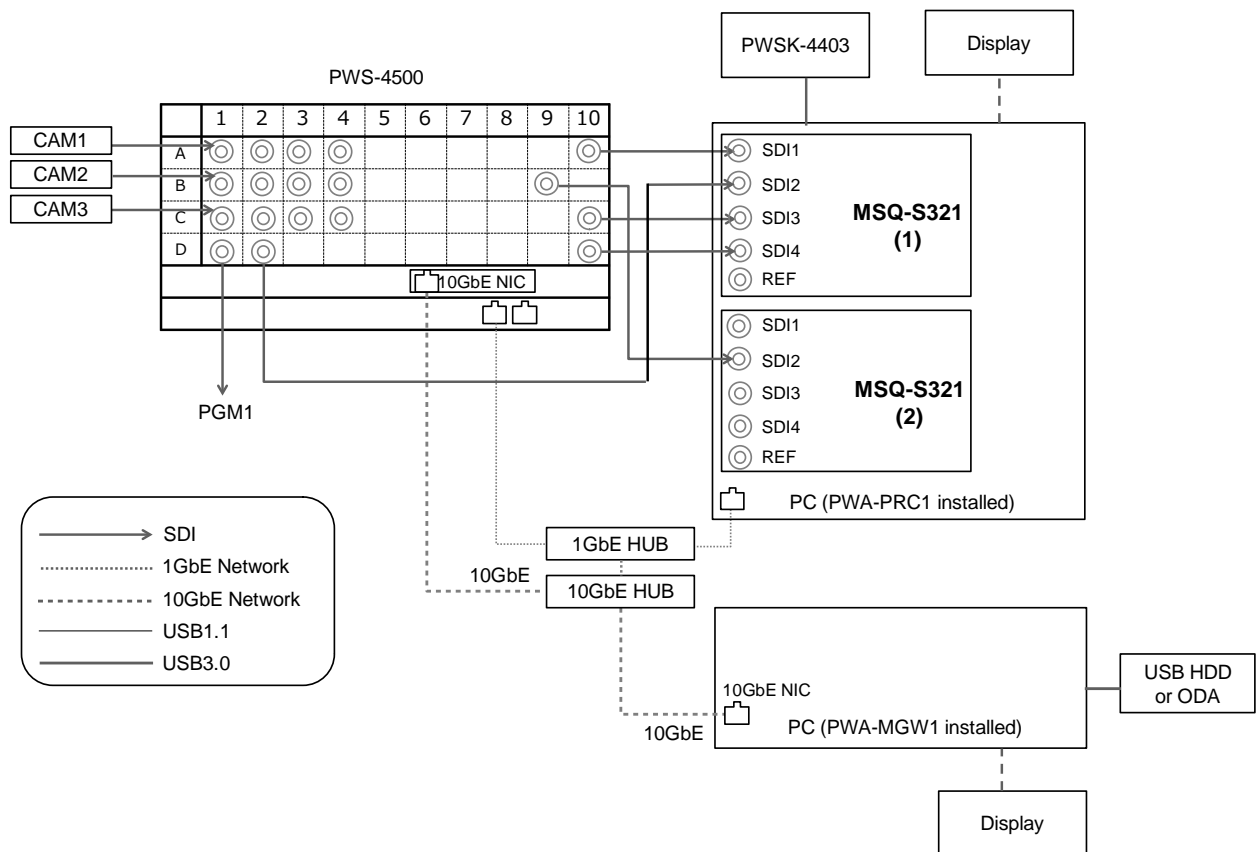
Cut Out with 10GbE Network (for MSQ-S321 1pc)



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

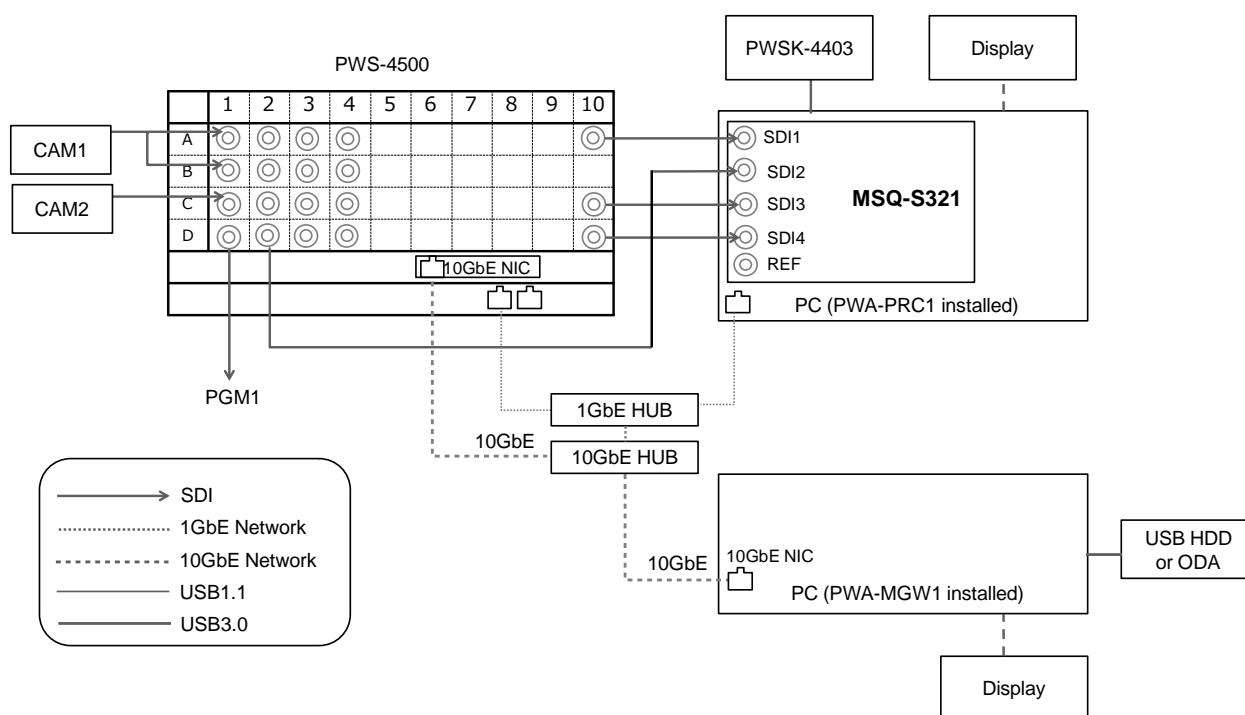
Cut Out with 10GbE Network (for MSQ-S321 2pcs)



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

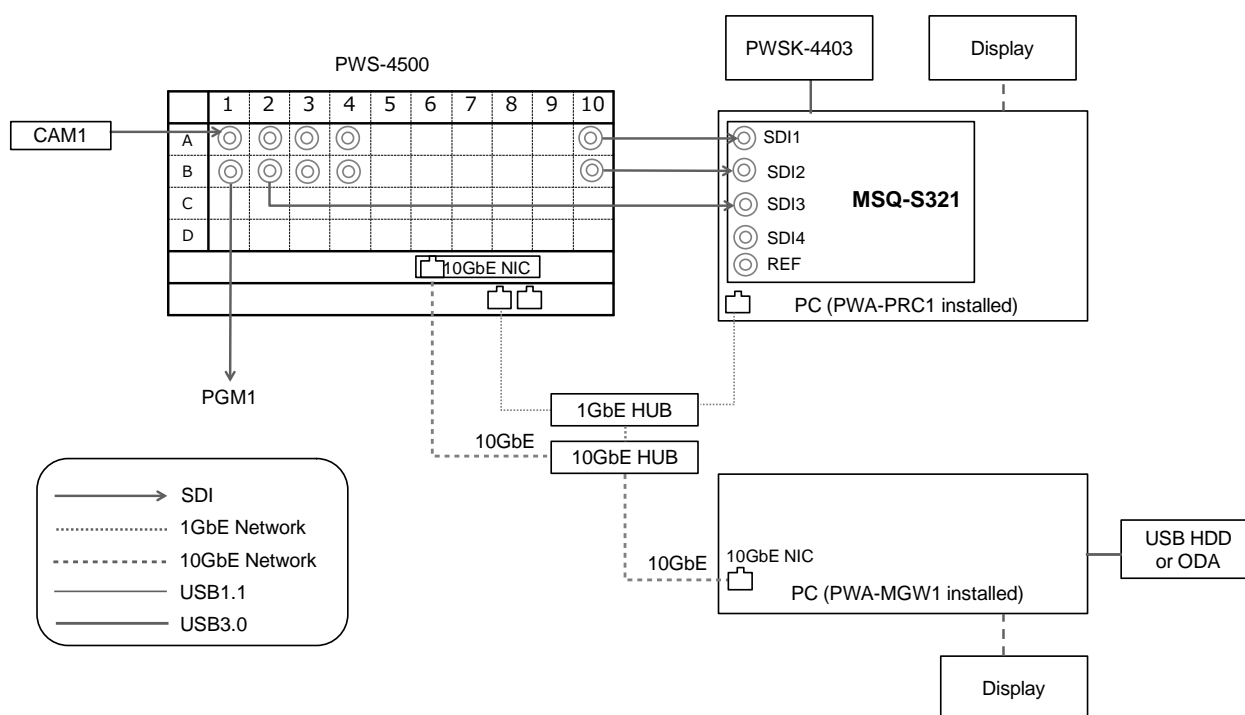
HFR + Cut Out with 10GbE Network (for MSQ-S321 1pc)



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

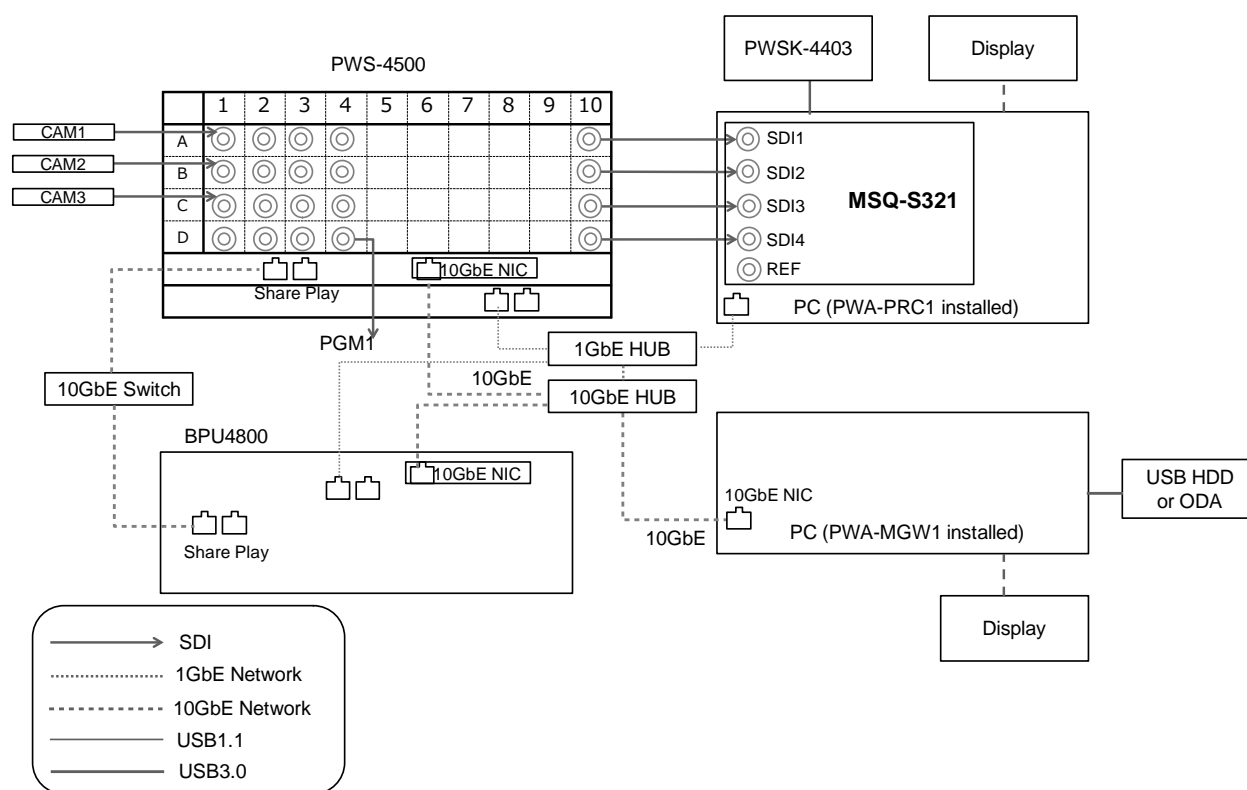
Cut Out with 10GbE Network, without PWSK-4504



PWA-PRC1 settings

[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

BPU4800 XAVC Transcode Port, Replay Port + XAVC Transcode Port

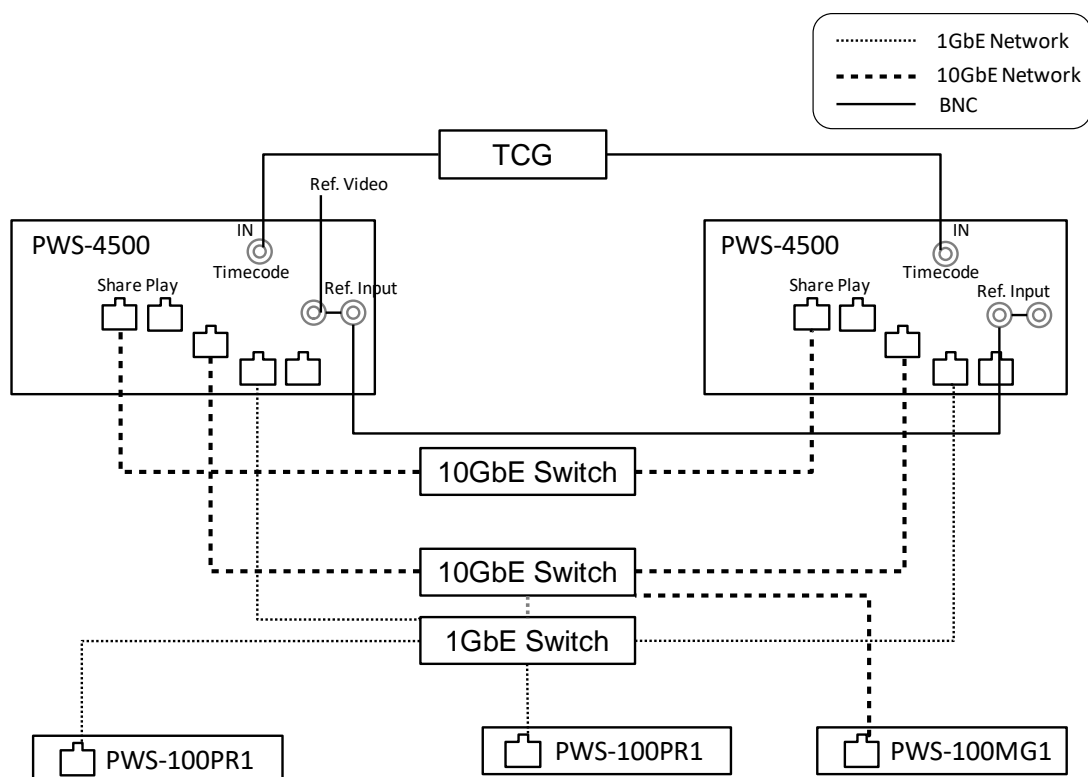


PWA-PRC1 settings

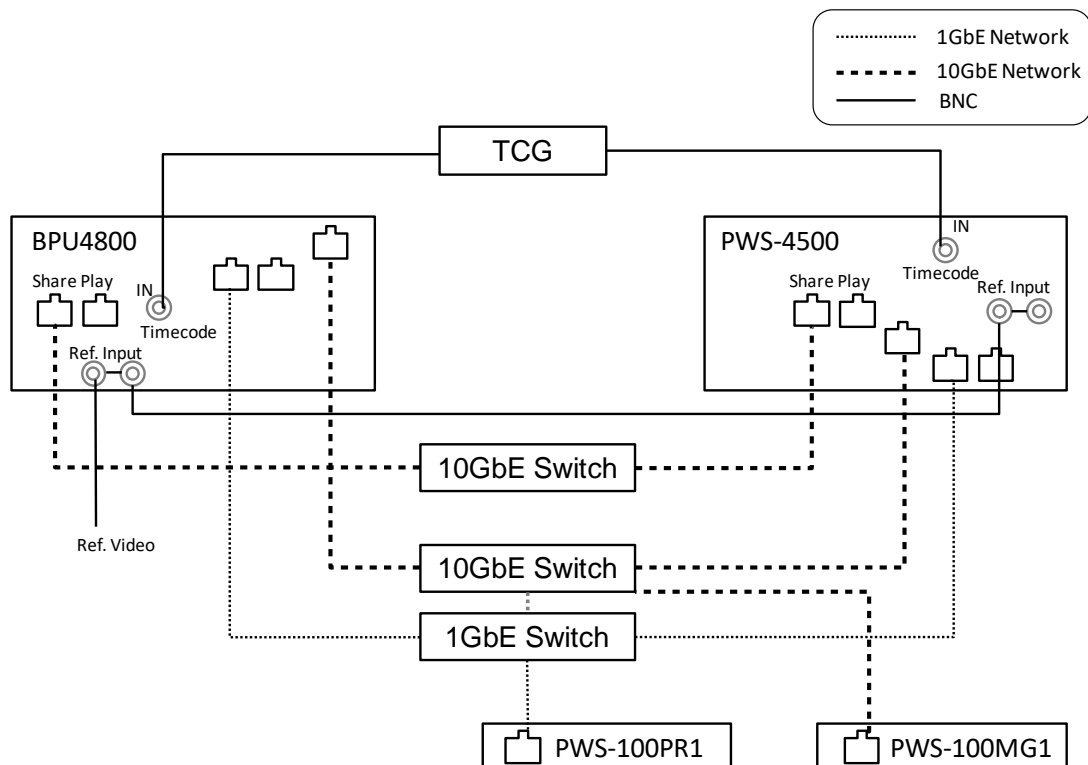
[System Config]	Item	Setting
PRC manager	Primary PRC manager IP/Port	PRC manager IP Address
4K server(s)	Transfer IP	Server 10GbE NIC IP Address
Media Gateway	IP Address	MGW 10GbE NIC IP Address

Connection for using Share Play Function

Configuration with PWS-4500



Configuration with BPU4800 and PWS-4500



Notes

- When using a Share Play connection, the reference signal for all PWS-4500/BPU4800 units must be synchronized. Connect an external reference signal input to all PWS-4500/BPU4800 units.
- When using a Share Play connection, one PWS-4500/BPU4800 unit managed by PRC Manager is assigned as the master to which the other units are synced. Share Play will terminate if the PWS-4500/BPU4800 master unit is turned off during Share Play. Accordingly, during Share Play use, do not turn off any of the PWS-4500/BPU4800 units managed by PRC Manager.
- For Share Play redundancy, configure as follows.
 - Connect both connectors 1 and 2.
 - Separate Share Play 1 and Share Play 2 on different network segments.

Example:

Share Play 1: 192.168.11.xx, Share Play 2: 192.168.12.xx

- If connecting to a single network switch, separate the segments using VLANs.

Recommended network switches

Manufacturer	Model	
Juniper	J-1) EX4550-32T	—
	J-2) EX4550-32F	
	J-3) QFX5100	
CISCO	C-1) CISCO Nexus 9332PQ	QSFP+ 32 port
	C-2) CISCO Nexus 9372PX	QSFP+ 6port, SFP+ 48 port
	C-3) CISCO Nexus 9372TX	QSFP+ 6port, 10G Copper 48 port

Network Cable

Connect an Ethernet cable between PWS-4500/BPU4800 Network Port 1 and the Network terminal on the PC on which this application software is installed.

Installation

This section describes the PWA-MGW1 installation procedure.

Refer to the PWA-MGW1 user's guide for the operation. The user's guide is available from Media Gateway application Web Help.

Notes

- Run the installer with administrator privileges.
- When upgrading, uninstall the previous version before installing the new version.

Installing Media Gateway

1. Uninstall PWA-MGW1 installed.
See "Preparations before upgrading" (below) for the uninstall procedure. Do not perform the procedure of "Uninstall completely".
2. Copy the installer MediaGateway_(version).exe downloaded from the eCSite to an arbitrary folder on the PC. When installing PWA-MGW1, an install key is required for authentication, which is obtained from the eCSite.
3. Double-click the installer. Follow instructions that appear on the screen to complete installation.
A shortcut icon appears on the desktop.
Perform installation using an Administrator account.
4. Set virtual memory of the PC.
Make settings to increase the virtual memory of the PC where Media Gateway is installed.
5. PWA-MGW1 is web application software.
Use Google Chrome as the web browser.

About Media Gateway Authentication

When installing PWA-MGW1, an install key is required for authentication, which is obtained from the eCSite.

Executing Authentication

The following are necessary for authentication.

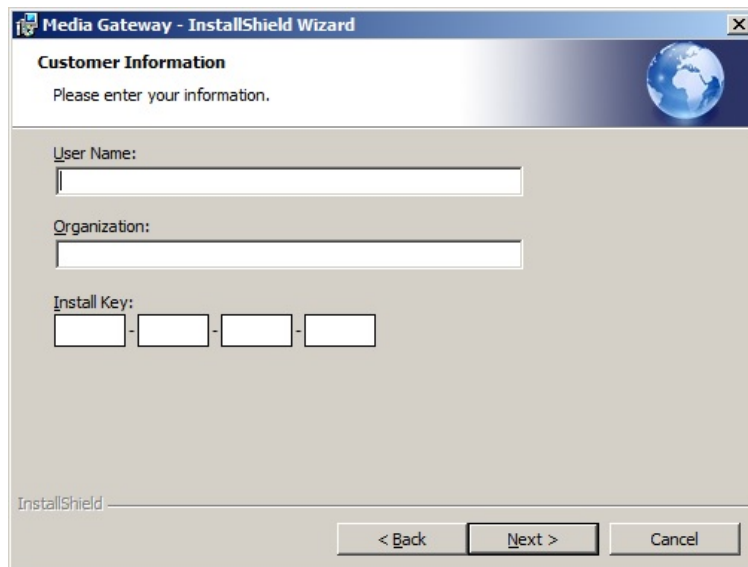
- MAC address of one of the network interfaces within the PC
- A software install key for PWA- MGW1 (Ask your sales contact for details.)

Notes

- A software install key is valid for one PC. If you use PWA- MGW1 on another PC, another software install key is required.
- Whenever a network card is changed, authentication is required. This is because authentication uses the MAC address of the network card.
- For the PWS-100MG1, the install key is saved with file name "Installkey.txt" in the C:\ProgramData\Sony\Media Gateway folder.

1. Start the PWA-MGW1 installer.

An authentication screen appears.

The screenshot shows a Windows-style dialog box titled "Media Gateway - InstallShield Wizard". The main heading is "Customer Information" with a subtext "Please enter your information." and a small globe icon. There are three input fields: "User Name:" (a single-line text box), "Organization:" (a single-line text box), and "Install Key:" (four separate single-character text boxes separated by hyphens). At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a black border. The "InstallShield" logo is visible in the bottom left corner of the dialog area.

2. Enter a software install key.

Preparations before upgrading

Uninstalling Media Gateway

1. Open [Programs and Features] in the Windows Control Panel.
2. Select [Media Gateway], and then click Uninstall.
3. Select [Apache Tomcat 7.0 Tomcat7 (remove only)] or [Apache Tomcat 9.0 Tomcat9 (remove only)], and then click Uninstall.

4. Note

Do not uninstall completely when upgrading. The Media Gateway installer may require a driver that is not provided, and the application will not start.

Uninstall completely

Uninstalling Media Gateway up to v1.4

5. Open [Programs and Features] in the Windows Control Panel.
6. Select [Media Gateway], and then click Uninstall.
7. Select [Apache Tomcat 7.0 Tomcat7 (remove only)], and then click Uninstall.
8. Select [Java7 Update 75 (64-bit)], and then click Uninstall.
9. Select [MySQL Server 5.6], and then click Uninstall. ※1
10. Select [Intel(R) SDK for OpenCL - CPU Only Runtime Package], and then click Uninstall. ※1

After uninstalling the program, delete the settings listed below, as necessary. ※1

- C:\ProgramData\MySQL folder ※2
- C:\ProgramData\Sony\Media Gateway folder ※2,3
- C:\Program Files\MySQL folder
- C:\Program Files\Sony\Media Gateway folder

Uninstalling Media Gateway from v2.0 to v2.4

1. Open [Programs and Features] in the Windows Control Panel.
2. Select [Media Gateway], and then click Uninstall.
3. Select [Apache Tomcat 7.0 Tomcat7 (remove only)], and then click Uninstall.
4. Select [MySQL Server 5.6], and then click Uninstall. ※1
5. Select [Intel(R) SDK for OpenCL - CPU Only Runtime Package], and then click Uninstall. ※1

After uninstalling the program, delete the settings listed below, as necessary. ※1

- C:\ProgramData\MySQL folder ※2
- C:\ProgramData\Sony\Media Gateway folder ※2,3
- C:\Program Files\MySQL folder
- C:\Program Files\Sony\Media Gateway folder
- C:\Program Files\Java\jre8 folder

Uninstalling Media Gateway v2.5 or later

1. Open [Programs and Features] in the Windows Control Panel.
2. Select [Media Gateway], and then click Uninstall.
3. Select [Apache Tomcat 7.0 Tomcat7 (remove only)] or [Apache Tomcat 9.0 Tomcat9 (remove only)], and then click Uninstall.
4. Select [MariaDB 10.2(x64)], and then click Uninstall. ※1

5. Select [Intel(R) SDK for OpenCL - CPU Only Runtime Package], and then click Uninstall.
※1

After uninstalling the program, delete the settings listed below, as necessary. ※1

- C:\ProgramData\MariaDB folder ※2
- C:\ProgramData\Sony\Media Gateway folder ※2,3
- C:\Program Files\MariaDB 10.2 folder
- C:\Program Files\Sony\Media Gateway folder
- C:\Program Files\Java\jre8 folder

Note

The destination folder may be changed depending on user settings.

There are different versions of these software.

There are the same correspondences that described different versions of software.

※1 When upgrading from v1.2 or later, it is not necessary to delete MySQL ,MariaDB,Intel(R) SDK and delete the settings information.In that case, please ignore the step and the setting information.

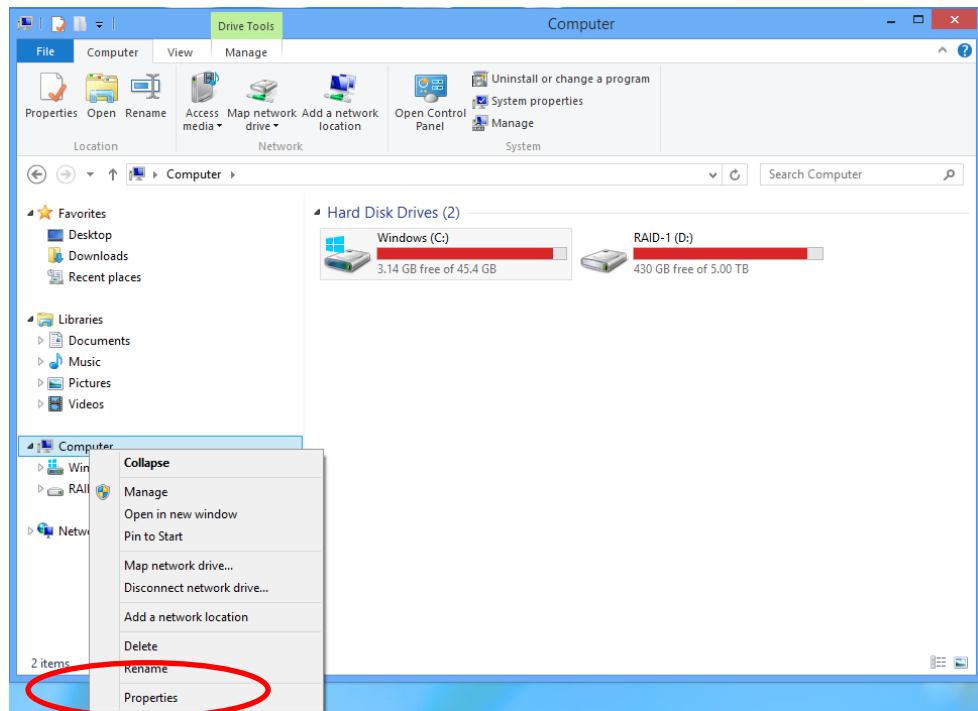
※2 The "C:\ProgramData" folder is hidden by default.

※3 The "C:\ProgramData\Sony\Media Gateway" folder is included the Optionkeys and Certificate information.

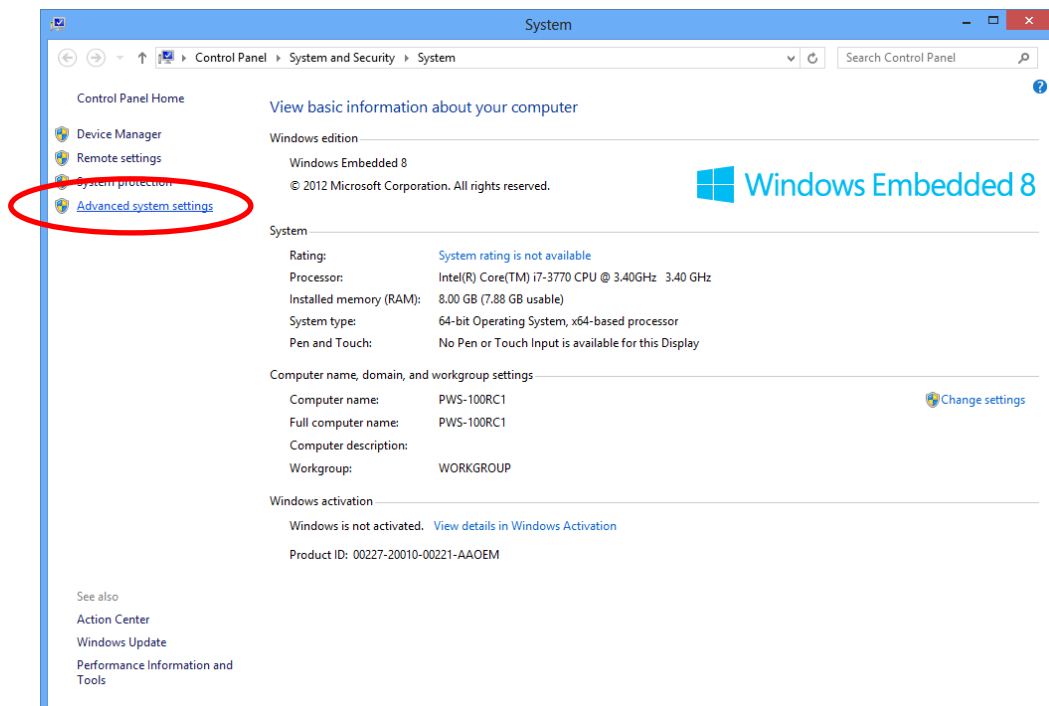
About setting of virtual memory

PWA-MGW1 may consume a large amount of memory during Transcode processing. Change the PC settings to increase virtual memory in advance.

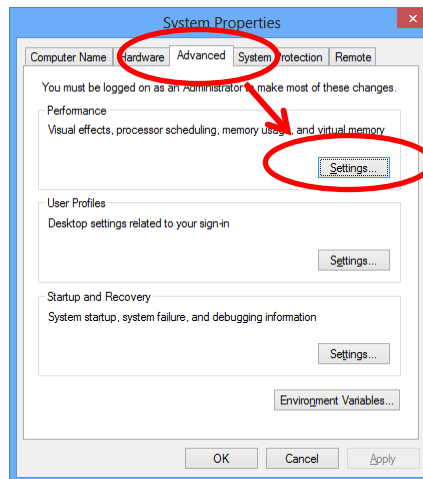
1. Launch Explorer, right-click Computer in the left pane, and select Properties.



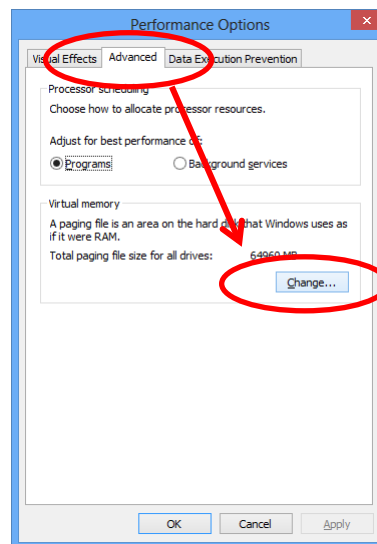
2. In the System dialog that came up, select "Advanced system settings" .



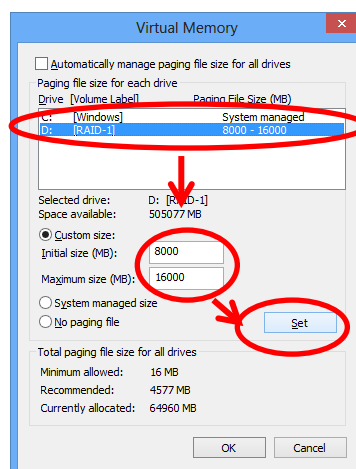
3. In the System Properties dialog that appears, click the "Settings ..." button in the Performance item in the Advanced tab.



4. In the Performance Options dialog that appears, click the "Change ..." button in the Virtual memory item in the Advanced tab.



5. In the Virtual Memory dialog that came up, select the D drive in the Drive list, and click the radio button next to "Custom size". Since Initial size and Maximum size can be input, input 8000/16000 respectively and press the "Set" button.



6. Press the OK button to close all open dialogs.
7. When prompted to restart, execute restart.

Installing Catalyst Browse

1. Copy the installer CatalystBrowse_(version).exe downloaded from the eCSite to an arbitrary folder on the PC.
2. Double-click the installer, and follow the on-screen instructions to install the software. A shortcut icon is created on the desktop.
Perform installation using an Administrator account.

About Catalyst Browse Authentication

After installing Catalyst Browse, authentication is required the first time the software is started. Authenticate the software using the following procedure.

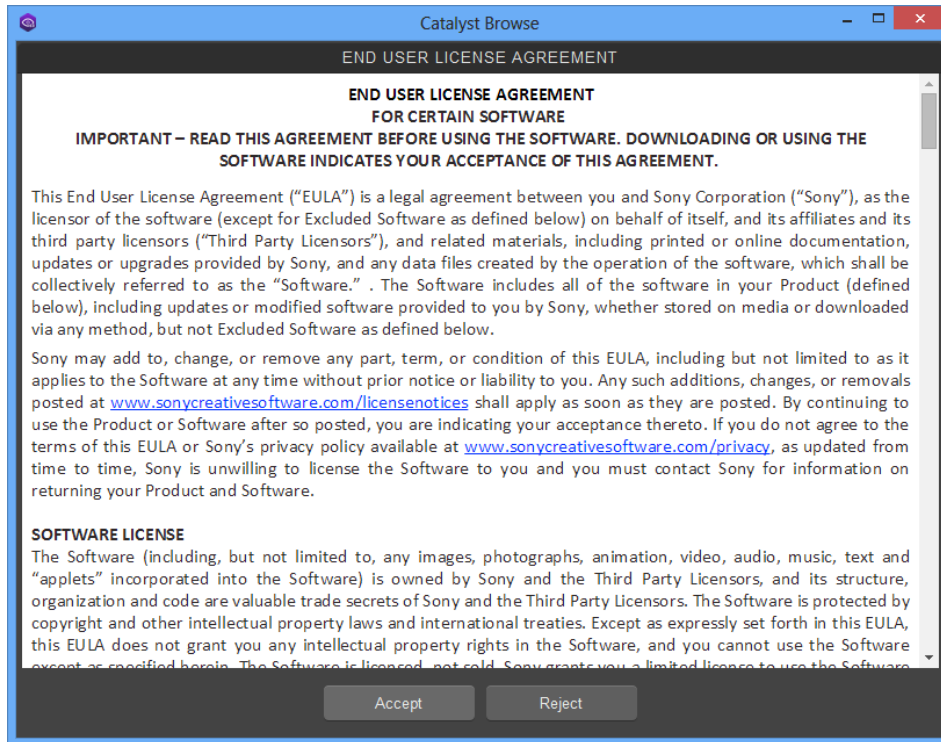
Executing Authentication

The following information is required for authentication. Prepare the following before proceeding.

- Another PC that can connect to the network
- Mail address used for authentication (support mail address)
- USB Memory

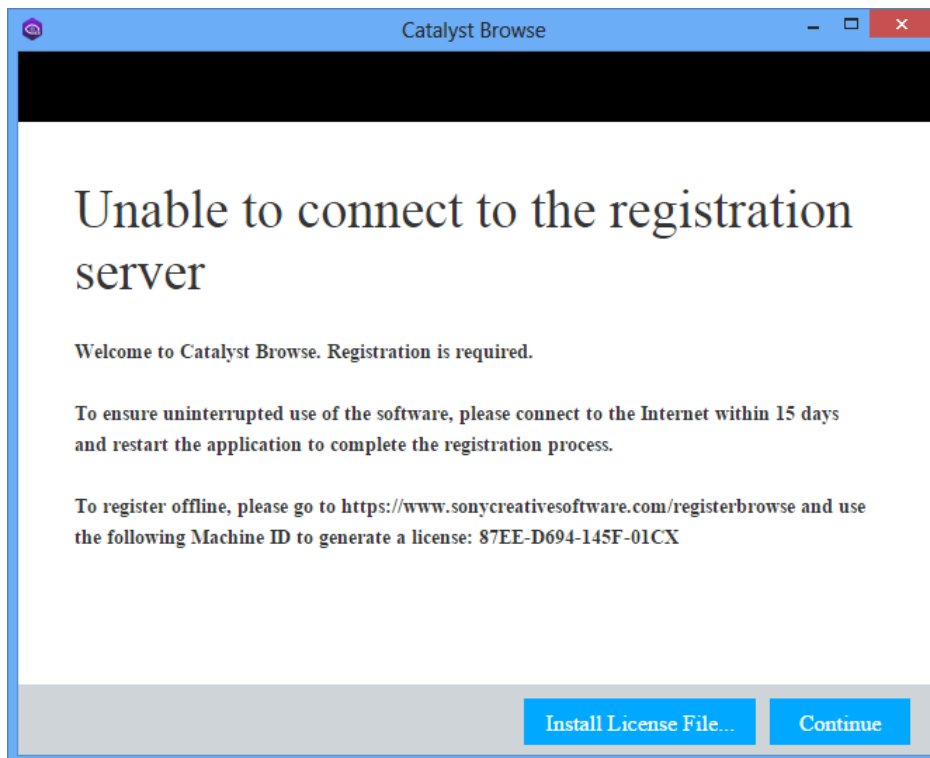
1. Start Catalyst Browse.

A confirmation dialog appears when launching for the first time. Click the [Accept] button to continue.



2. Make a memo of the machine ID.

The machine ID appears in the registration dialog.



3. Access the URL from a PC with access to the network.

Copy/click the following URL into a web browser.

<https://www.sonycreativesoftware.com/registerbrowse>

4. Run the activation.

If you already completed the activation. Enter Email Address and Password. Click the [LOGIN] button to continue. (goto step 7)

If you not yet completed the activation. Enter First name, Last name, Email Address and Password. Click the [SUBMIT] button to continue. (goto step 5)

Activation

A My Account is required to activate Catalyst Browse.

Complete Activation

Please login to your My Account to complete activation of Catalyst Browse.

Email Address:

Password:

[LOGIN](#)

[Forgot Password](#)

Don't have a My Account?

Fill out the form below to create a new Sony Creative Software My Account

First name:

Last name:

Email Address:

Password:

Confirm Password:

By clicking the "Submit" button below, you acknowledge that your use of this site is subject to the Web site's [Terms & Conditions](#) and [Privacy Policy](#).

[SUBMIT](#)

5. Confirm the Email. If you enter the New Account.

Make sure because mail is delivered to the entered Email address.

Activation

Thank you for your information.

Please follow the instructions in the email sent to XXXXXXXXXX to finish confirming your account.

6. Access the URL of the received mail body. If you enter the new Account.

Access the URL of those who need the registration process that is described in the mail body.

A Sony Creative Software registration request was received for this email address. To complete the registration process, click the link below.

<https://www.sonycreativesoftware.com/?s=7LSSM-0S8LNB63SVZQ3HQ326W7ZK4Q9E9NVVR9PNB9N3PY8GR8>

If this request was not made by you, you can cancel by clicking the link below.

<https://www.sonycreativesoftware.com/?c=1&s=7LSSM-0S8LNB63SVZQ3HQ326W7ZK4Q9E9NVVR9PNB9N3PY8GR8>

7. Enter the machine ID.

Enter the machine ID obtained in step 3.

Activation

You are logged in and ready to activate Catalyst Browse.

To complete your activation, simply log in when prompted on your next launch of the application.

If you are activating the application offline, please enter the Machine ID displayed on the application's "Offline Registration" window into the field below. The Machine ID will have a format similar to 1234-1234-1234-1234.

Machine ID:

You are logged in as XXXXXXXXXX. If that is not you, or to logout before continuing, [click here](#).

SUBMIT

8. Receive the authentication code.

Save "Catalyst Browse-License.txt" to the external media such as USB memory.

Activation

To complete your registration using a license file, download the following:

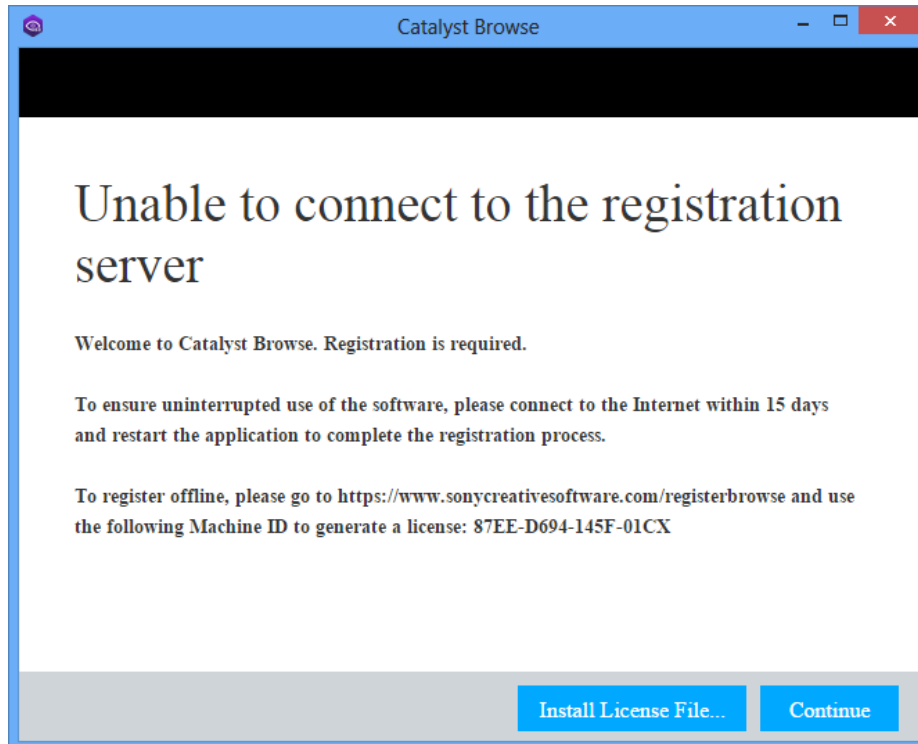
Save the text file below to a flash drive or other removable media device, and then select "Browse for file" in the registration wizard dialog, and select the location you saved the file to.

[Catalyst Browse-License.txt](#)

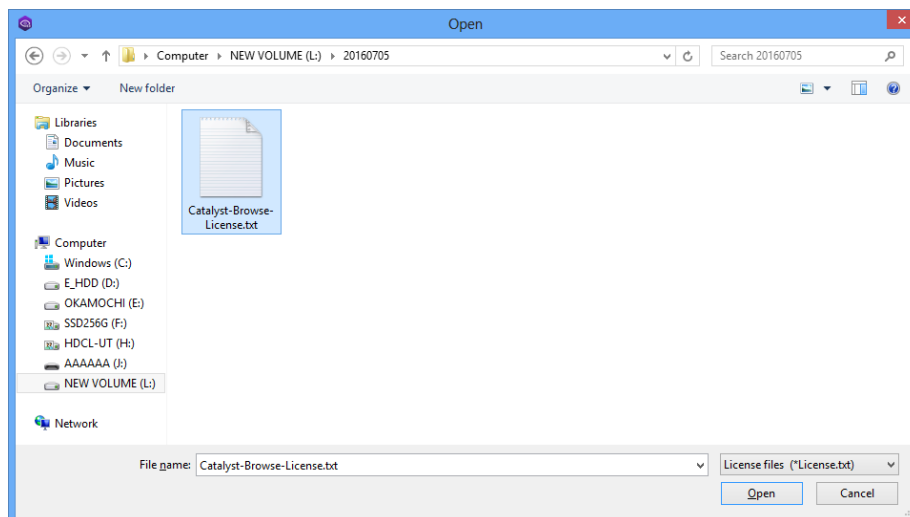
9. Enter the received authentication code.

Connect the media that has "Catalyst Browse-License.txt" to the PC installed Catalyst Browse.

Select the "Install License File .." button in the dialog, which is displayed in step 3.



Select the license file in the recording media when launches the file select dialog.



If the license is recognized, Catalyst Browse will start automatically.

Uninstalling

1. Open [Programs and Features] in the Windows control panel.
2. Select [Catalyst Browse x.x] and click Uninstall.

Starting and Exiting the Program

Performing Initialization using the Config Tool

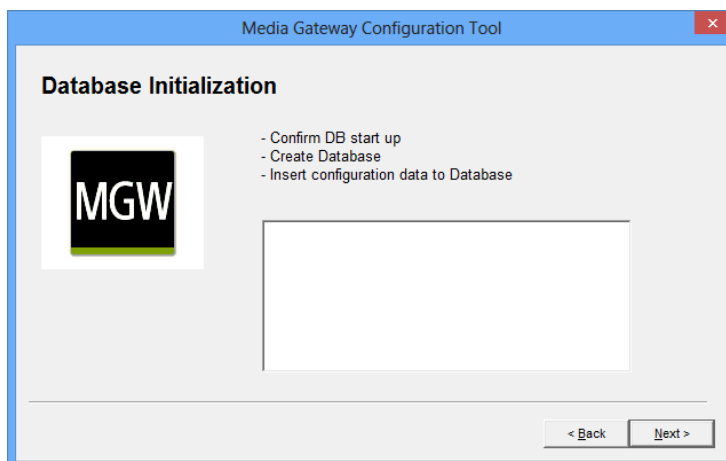
1. Turn on the PC on which PWA-MGW1 is installed.
2. Click [Config Tool] on the start screen.



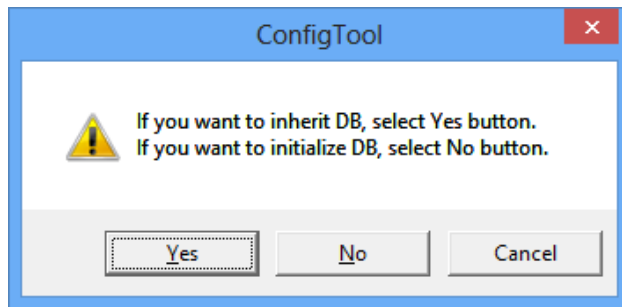
3. Config Tool opens.



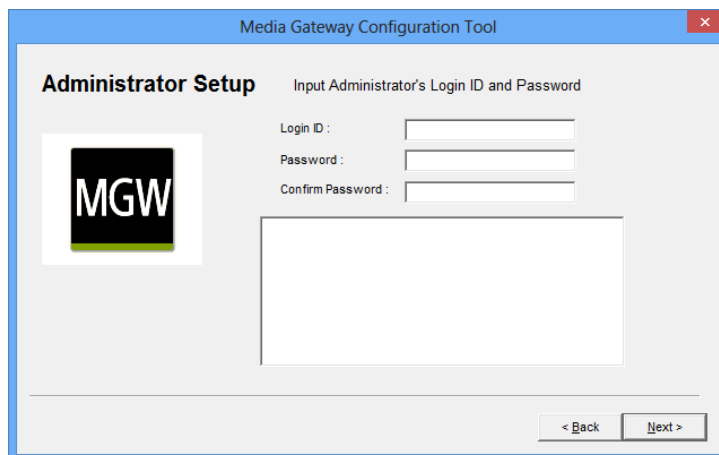
4. Click [Next].



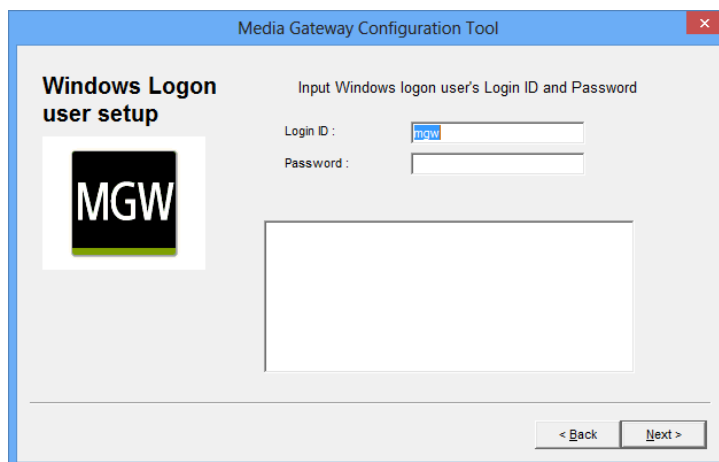
5. When upgrading, a dialog prompting you whether to inherit the Database appears.



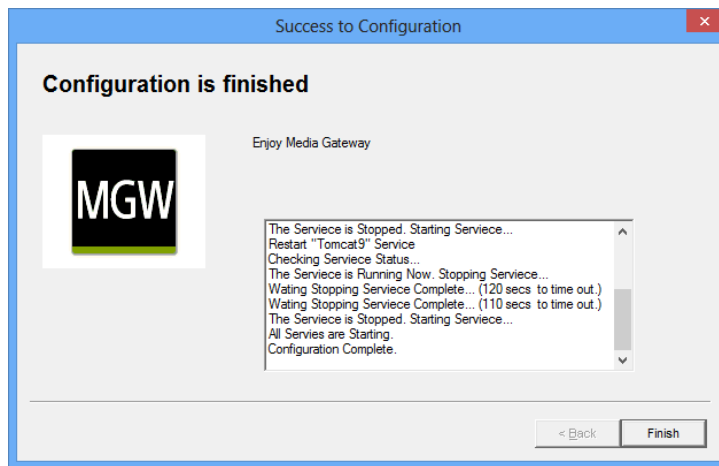
6. To inherit the Database, click [Yes]. To continue without inheriting, click [No].



7. Enter Media Gateway Login ID and Password. Click [Next].



8. Enter Windows logon user's Login ID and Password. Click [Next].



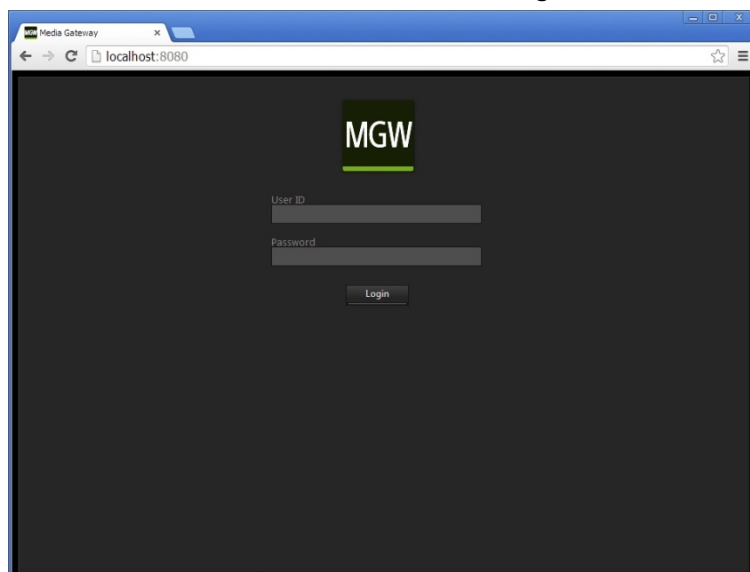
9. Click [Finish].

Notes

- To inherit Database succession is only an upgrade and execution in time from v2.0 or later.
- If the Database is inherited during upgrading, the following information is inherited:
PRC Manager settings, Server settings, Media settings, User settings, Maintenance settings, and Misc. settings
- If you want to inherit other data, such as job list information, run Backup DB using Media Gateway before running Config Tool, and then retrieve the information from the database after startup.

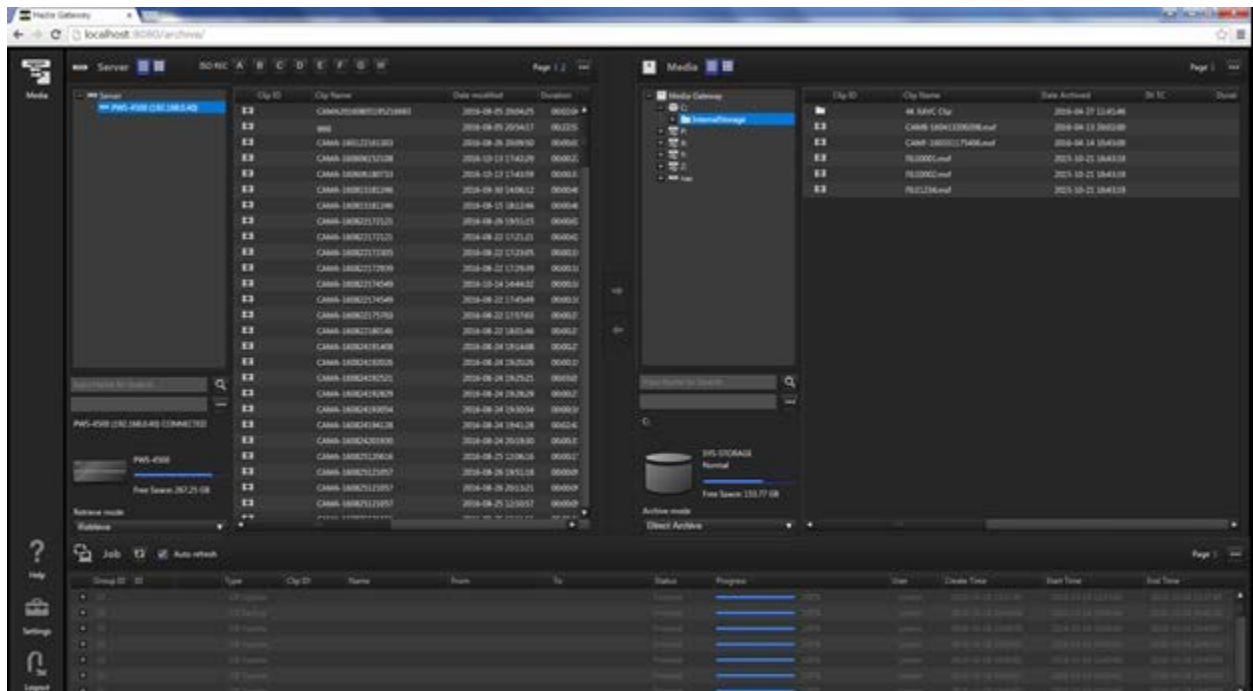
Starting PWA-MGW1

1. Turn on the PC on which PWA-MGW1 is installed.
2. Start Google Chrome.
3. Enter localhost:8080 in the URL bar to gain access.



If the login screen does not appear, go to Settings - Show Advanced Settings - Reset Browse Settings.

4. Enter Media Gateway User ID and Password to Login.



Notes

- Media Gateway does not support sleep mode of PCs. Do not let the PC go to sleep while operating Media Gateway.
- To switch language between English and Japanese, make changes in the Chrome settings.
Settings - Show Advanced Settings - Languages - Language and input settings
Give a higher priority to your preferred language (by Drag & Drop operation).

Exiting PWA-MGW1

1. Exit Chrome.

Be aware Media Gateway does not stop when exiting Chrome.

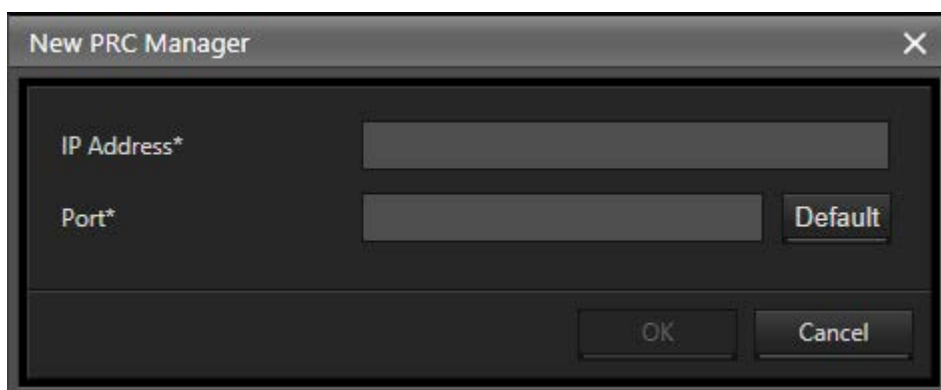
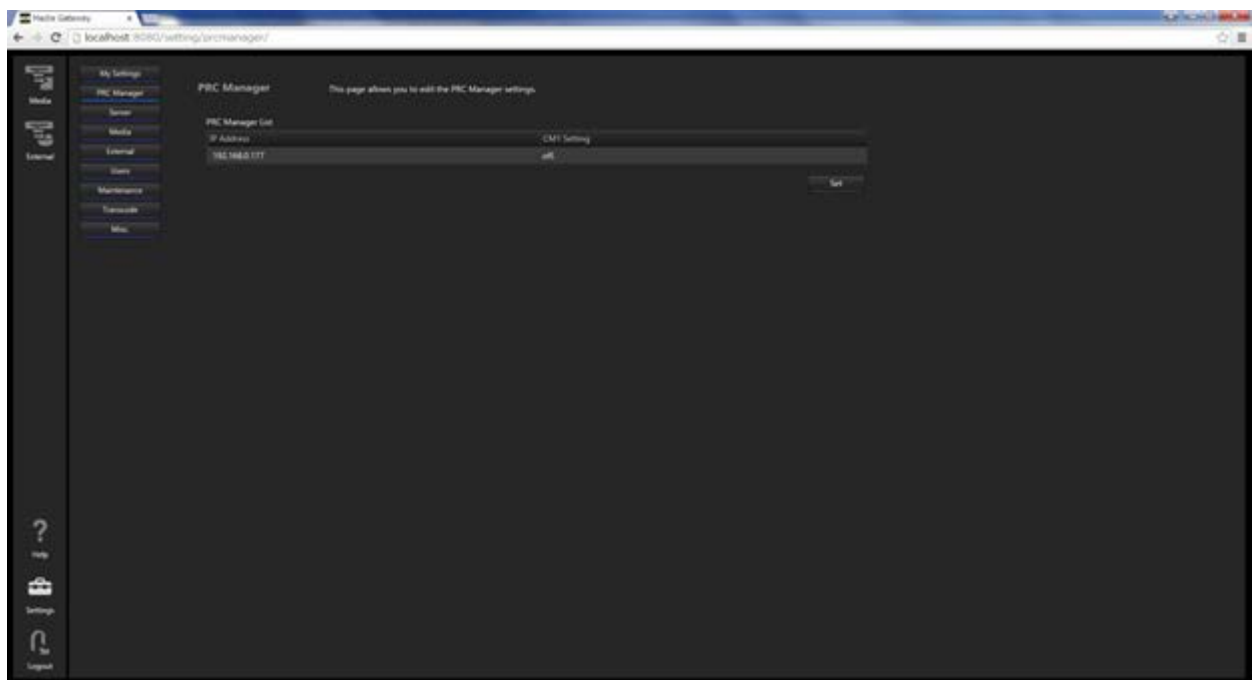
To stop Media Gateway, go to Setting - Maintenance - Terminate.

Settings

Start PWA-MGW1, and make the necessary settings.

Displaying the Settings Screen

1. Start PWA-MGW1.
2. Go to Settings - Maintenance – PRC Manager - Add to register the connected PRC Manager.



See the Help for details.

HTTPS Setting

If you want to encrypt the display of the Media Gateway and securely exchange Web information, set it up.

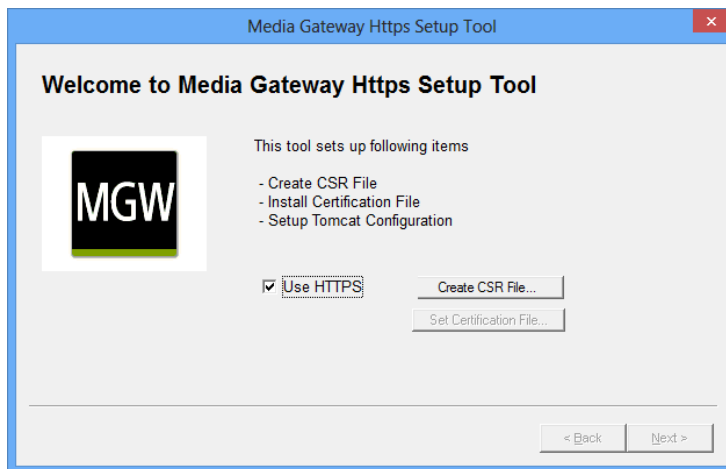
For Https setting, a certificate of PKCS12 type is required. Certificates must be prepared by the customer.

New or updated Https Setting

1. Turn on the PC on which PWA-MGW1 is installed.
2. Click [HttpsSetupTool] on the start screen.



3. Https Setup Tool opens.



4. Check "Use HTTPS" and Click [Create CSR File...].
5. Create Certificate Signing Request File(CSR) Dialog opens.

Common Name*: PWS-100

Organization:

Department:

City:

State / Province:

Country: (2words [Ex.US])

Subject Alternative Name: [Ex.dns:localhost]

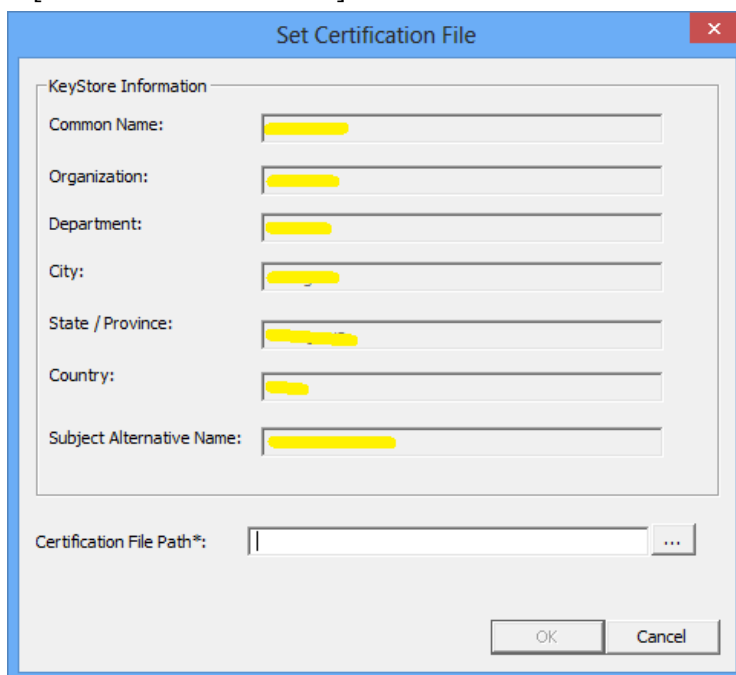
CSR Output Path*: ...

OK Cancel

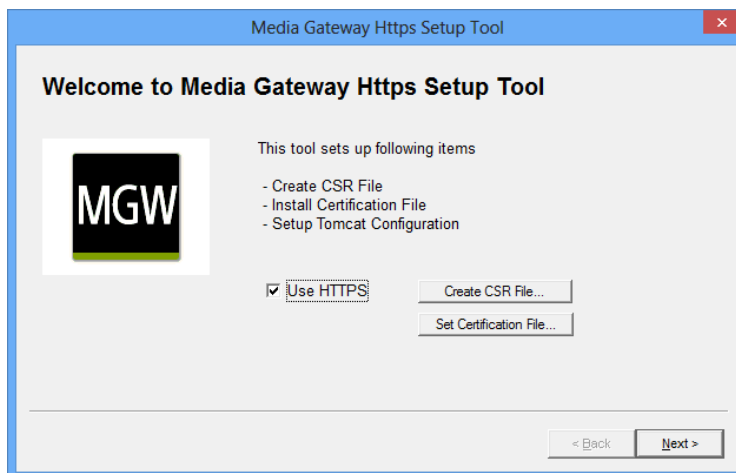
6. Enter the information for creating the CSR file and Click [OK].
 - A) Common Name: Web domain name
 - B) Organization: Organization name or Company name
 - C) Department: Department name
 - D) City: City or region name
 - E) State/Province: State name or Province name
 - F) Country: Country name(ex US)
 - G) Subject Alternative Name: Various values to be associated with a certificate.
(DNS,URIs,IP Address,Email Address,etc)
 - H) CSR Output Path: File name including Path to output CSR file
7. Get the certificate file.
Since a CSR file is created, it is provided to the certificate issuing authority and the certificate file is acquired.
8. Click [X] to exit HttpsSetupTool.
Terminate the tool until obtaining the certificate file.
Media Geteway is available in Http until you obtain the certificate file.
9. You have obtained the certificate file, start HttpsSetupTool again.
When HttpSetupTool creates a CSR file, the [Set Certification File...]button becomes Enable.



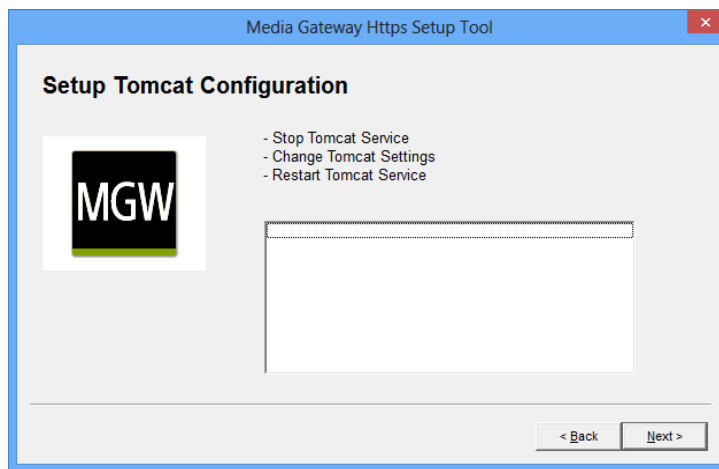
10. Click [Set Certification File...] and Set Certification File Dialog opens.



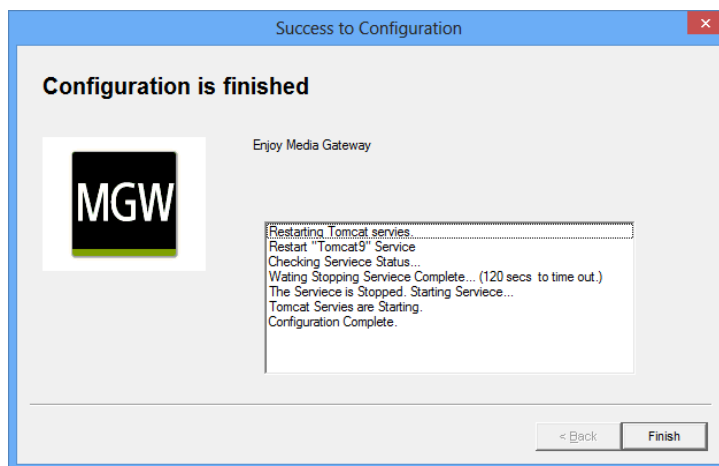
11. Specify the location of the certificate file and Click [OK].



12. Tomcat Configuration Dialog opens.



13. Click [Next].



14. Click [Finish].

Change the setting from Https to Http.

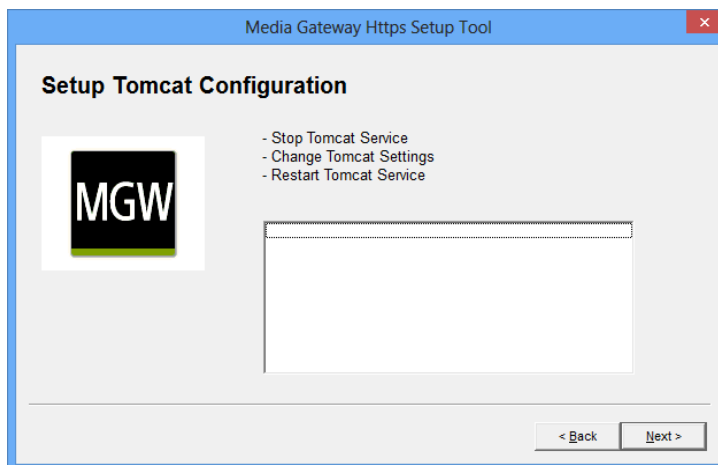
1. Click [HttpsSetupTool] on the start screen.



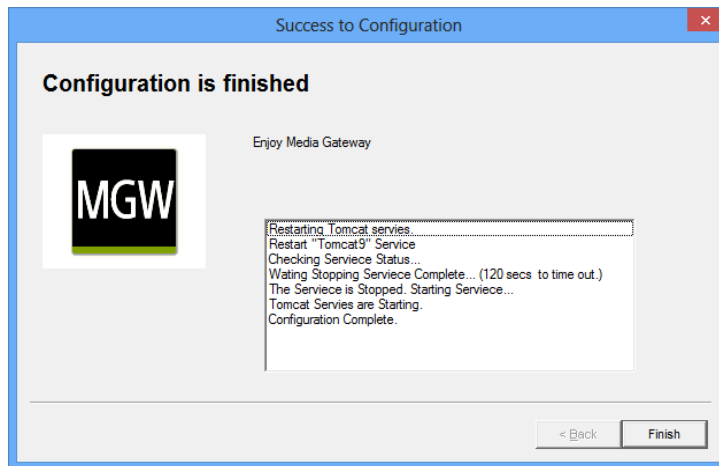
2. Https Setup Tool opens.



3. Uncheck "Use HTTPS" and click [Next].



4. Tomcat Configuration Dialog appears, so click [Next].



5. Click [Finish].

ご注意

- The certificate file is saved in the following Path. If the certificate file is deleted, it will not be able to operate at Https. Please be careful not to delete the certificate file when Https setting is done.
"C:¥ProgramData¥Sony¥Media Gateway¥tomcat"
- If you have deleted the certificate file, use HttpsSetupTool to set up HTTP.

Usage Notes

- Precautions when using media as a network drive

- Grant full access permission to the network driver folder used from Media Gateway.
- When using as a Watched Folder

Windows PCs do not support stream chasing. Set [Enable Stream Chase] to "off" in Settings - Server - Watched Folder Setting.

Linux PCs (Samba3) support stream chasing, but the following setting should be added to the Samba configuration file (smb.conf).

"Share modes = no"

- About setting virtual memory.

Depending on the application, virtual memory may be changed automatically at the time of installation. Make sure that virtual memory is set before using Media Gateway.

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- Depending on the operating environment, unauthorized third parties on the network may be able to access the unit. When connecting the unit to the network, be sure to confirm that the network is protected securely.

- About discard

- Uninstall Media Gateway completely. Refer to the uninstallation procedure of Media Gateway described in the installation chapter.
- Uninstall Catalyst Browse completely. Refer to the uninstallation procedure of Catalyst Browse described in the installation chapter.

Appendix

Important Notice

- Installation should be performed by Sony Service or a qualified Sler.

Usage Precautions

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- Depending on the operating environment, unauthorized third parties on the network may be able to access the unit. When connecting the unit to the network, be sure to confirm that the network is protected securely.

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