

PureFlow WSX

**Unified Network Controller
NF7600 series**

**WebGUI Operation Manual
TCP Acceleration Edition**

Sixth Edition

- For safe and appropriate use of the equipment, please read this manual before using the equipment.
- Additional safety and warning information is provided within the Unified Network Controller Operation Manual (NF7600-W011E). Please also refer to this document before using the equipment.
- Keep the manual with the equipment.

ANRITSU CORPORATION

Safety Symbols

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Symbols used in this manual



DANGER

This indicates a very dangerous procedure that could result in serious injury or death if not performed properly.



WARNING

This indicates a hazardous procedure that could result in serious injury or death if not performed properly.



CAUTION

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Safety Symbols Used on Equipment and in Manual

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This indicates a prohibited operation. The prohibited operation is indicated symbolically in or near the barred circle.



This indicates an obligatory safety precaution. The obligatory operation is indicated symbolically in or near the circle.



This indicates a warning or caution. The contents are indicated symbolically in or near the triangle.



This indicates a note. The contents are described in the box.

PureFlow WSX
Unified Network Controller NF7600 series
WebGUI Operation Manual

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About This Manual

This manual describes in detail the operation method of WebGUI used in the PureFlow WSX Unified Network Controller (hereafter referred to as “this device”).

The applicable models of this equipment are described below.

- NF7601A
- NF7602A
- NF7605A

The manual of this device consists of the following four manuals. This document is <4>.

- <1> Operation Manual TCP Acceleration Edition (NF7600–W011E)
Describes in detail the installation and handling of this device.
- <2> Command Reference TCP Acceleration Edition (NF7600–W012E)
Describes in detail the commands used in this device.
- <3> Configuration Guide TCP Acceleration Edition (NF7600–W013E)
Describes the basic features of this device and provides specific examples of the settings required to build a network using these features.
- <4> WebGUI Operation Manual TCP Acceleration Edition (NF7600–W014E)
Describes the operation for setting and display of this device using a Web browser.

If the following documents related to this device or other documents related to the features of this device are issued, be sure to read them:

Release notes

(For details of the issuance of release notes, contact your dealer.)

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3

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This chapter describes overview of WebGUI.

This device is equipped with WebGUI (Graphical User Interface). WebGUI is an application to perform settings, display and maintenance of this device by using the Web browser of the network-connected terminal.

The WebGUI system sketch drawing is shown below:

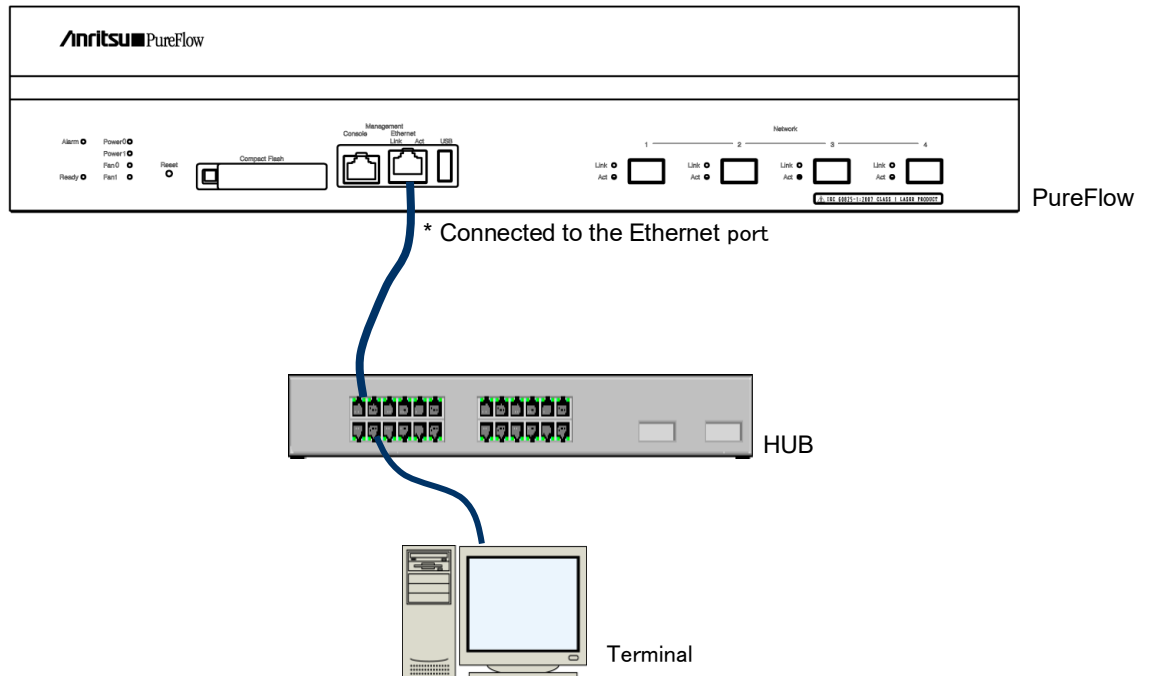


Figure 1.1 WebGUI system sketch drawing

WebGUI enables the partial settings, display and maintenance of this device.

The items that can be set, displayed and maintained by WebGUI are shown below:

- Items related to network

WebGUI enables the following settings related to the traffic control.

- Channel setting
- Channel IP address setting
- Scenario configuration
- Application acceleration configuration
- Filter configuration
- Rule list setting

- Items related to management

WebGUI enables the following settings related to the device built-in time.

- Time zone setting
- Daylight-saving time setting
- SNTP setting
- Manual time setting

- Items related to display

WebGUI enables the following settings.

- Scenario traffic graph
- Network port traffic graph
- WAN accel sessions graph
- Configuration
- Syslog
- Module information

- Items related to maintenance

WebGUI enables the following maintenance.

- Uploading software
- Restarting the device

Chapter 2 Operating Environment

This chapter describes the operating environment of WebGUI.

Use WebGUI under the recommended operating environment described below:

Using under environments other than the recommended operating environment cannot ensure the WebGUI is operated normally. Additionally, use the terminal that is not affected by the virus.

- OS
 - Windows® 7
 - Windows® 8.1
 - Windows® 10
- Web browser
 - Internet Explorer® 9.0
 - Internet Explorer® 10.0
 - Internet Explorer® 11.0
 - Microsoft Edge™ 20
 - Firefox® 4
- CPU
 - 2.6 GHz or more
- Memory
 - 4 GB or more

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Chapter 3 Operation Method

This chapter describes how to operate WebGUI.

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3.1 Marks Used in Text

The following marks are used in this chapter:

" " mark: Indicates the name displayed on the Web browser screen.

[] mark: Indicates the point to be clicked (selected) on the Web browser screen.

[] mark: Indicates the name of the reference destination.

" " mark: Indicates a proper name other than those described above.

* mark: Indicates the items to be noted.

Numbers, for example, <1>:

Used when a procedure for the operation on the Web browser screen is shown related to the operation described in this chapter.

3.2 Notes for Settings

After settings, be sure to save the setting contents by referring to “3.16.2 How to save configuration”.

The setting detail is reflected without saving it. However, the setting is deleted when restarting this device.

3.3 How to Log In / Log Out

To use WebGUI, the system interface (IP address) of this device must be configured.

For details of how to set the system interface, refer to [PureFlow WSX Unified Network Controller NF7600 series Command Reference TCP Acceleration Edition].

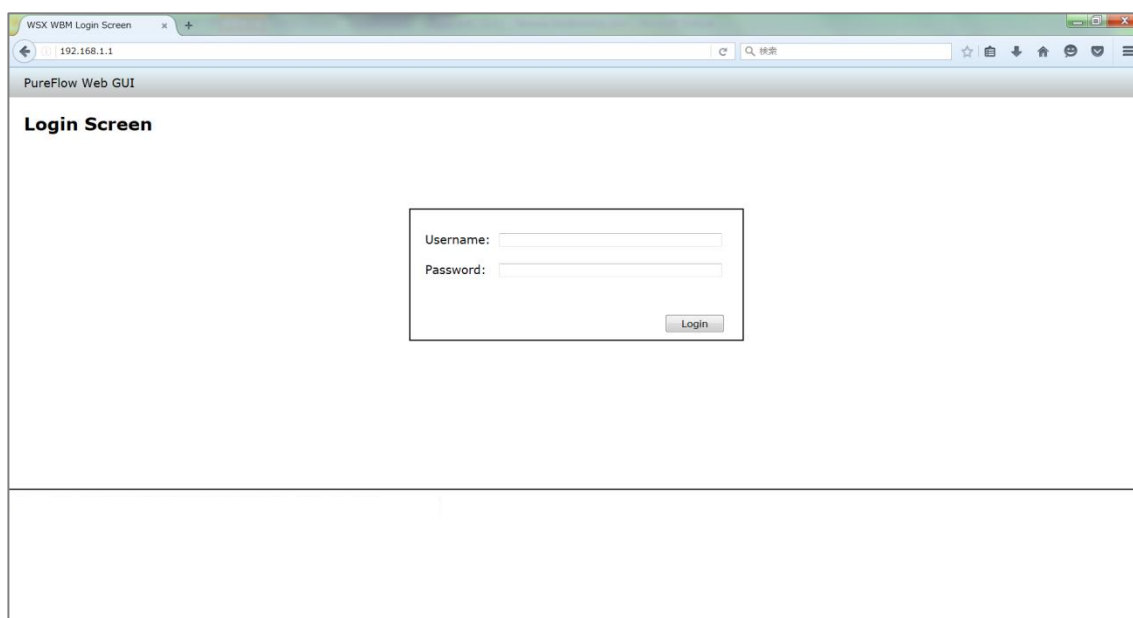
After the completion of system interface setting, start up the Web browser, and specify the IP address set in the system interface.

* The default value of the system interface is 192.168.1.1.

When the IP address is 192.168.1.1, specify as described below.

http://192.168.1.1

When the connection to this device is successfully established, the login screen is displayed as shown below.



Enter "admin" in the "Username" column. Enter the adminpassword which was set for this device in the "Password" column.

If the password was not set, do not fill the "Password" column.

Click the [Login] button for login.

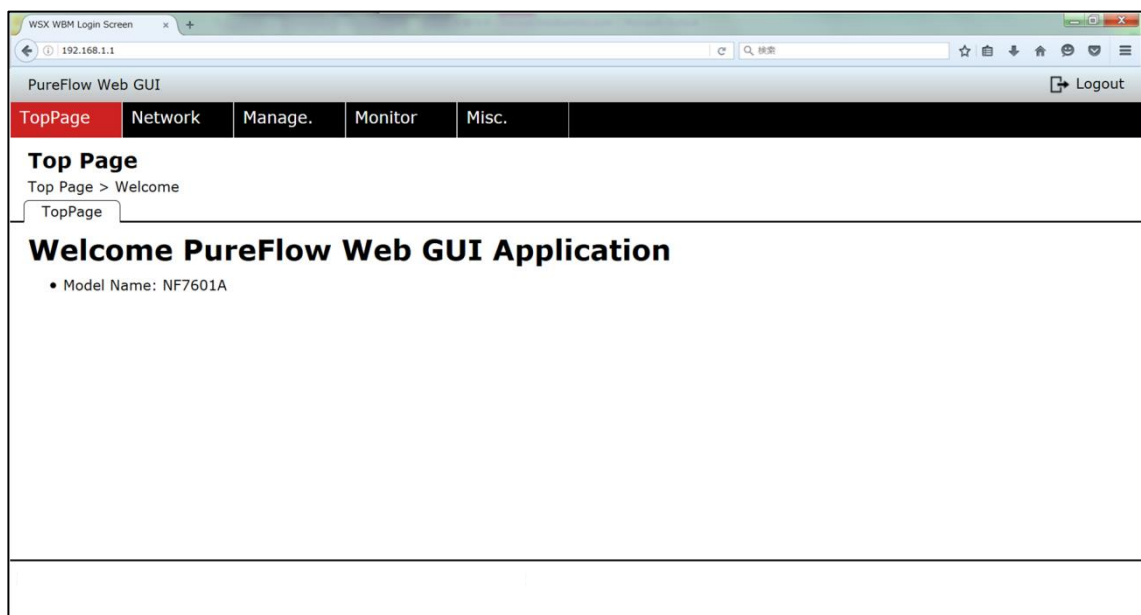
* For details of how to set the password, refer to [PureFlow WSX Unified Network Controller NF7600 series Command Reference TCP Acceleration Edition].

Be sure to set the adminpassword for security reasons.

For login by the RADIUS authentication server, enter the RADIUS server user name in the "UserName" column.

Enter the RADIUS server password in the "Password" column, and click the [Login] button for login.

When Top Page is displayed as shown below, login has been completed.



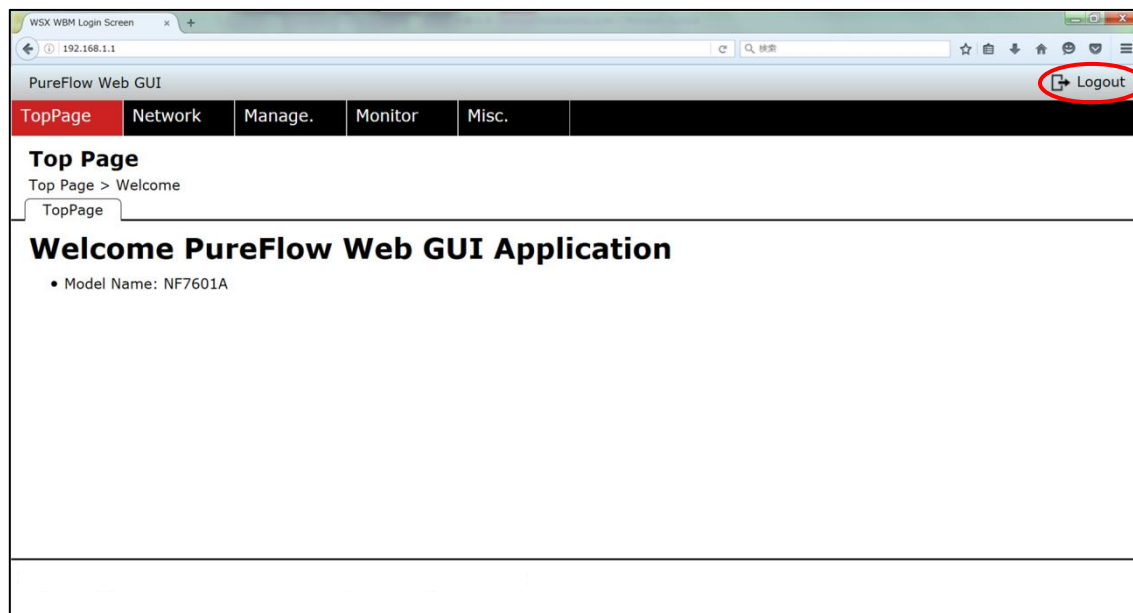
Note :

When a channel, a scenario and a filter register the biggest number with this device, it takes time for operation of login of WebGUI, setting and display.

When logging in to this device in WebGUI, please set each registration number of the channel, the scenario and the filter to less than 3000.

For logout, click the [Logout] button at upper right of the screen.
If this screen is not operated for 5 minutes, it automatically logs out.
Time taken until the automatic logout is 5 minutes.

* This time cannot be changed.



3.4 Screen Configuration

Selecting the tab on the WebGUI screen switches the screen.
The screens corresponding to the tabs selected are configured as shown below.

TopPage ...	This screen is the top page of WebGUI. This screen enables you to check the model name and model number of this device.
Network	<div><div>Channel.....</div><div>Scenario</div><div>Filter / Rulelist</div><div>Application</div></div> <div><div>This screen is used for setting channel and IP address of the channel.</div><div>This screen is used for the scenario setting.</div><div>This screen is used for setting the filter and rule list.</div><div>This screen is used for setting the application acceleration.</div></div>
Manage.	<div>Time</div> <div>This screen is used for the settings related to the time.</div>
Monitor	<div><div>Scenario Traffic.....</div><div>Network Port Traffic ·</div><div>WAN Accel Sesions ·</div></div> <div><div>This screen is shows traffic graph of specified scenario.</div><div>This screen is shows traffic graph of network port.</div><div>This screen is shows sessions graph that applied the traffic acceleration.</div></div>
Misc.	<div><div>Config</div><div>Syslog.....</div><div>About.....</div></div> <div><div>This screen shows the setting information of this device and is used for saving the settings.</div><div>This screen shows the system log information of this device.</div><div>This screen shows the module information of this device.</div></div>

3.5 Setting Flow

The respective setting flows are shown below.

The setting can be performed in orders other than the order shown below. However, please note that the IP address of the channel can be set only after setting the channel and that the filter can be set only after setting the scenario.

WebGUI works with CLI (Command Line Interface) of this device. Therefore, understanding the command specifications enables you to set the WebGUI smoothly.

For details of the command specifications, refer to [PureFlow WSX Unified Network Controller NF7600 series Command Reference TCP Acceleration Edition].

Set WebGUI.	Related CLI command	Descri
<div>STEP 1</div> <div>Set the channel.</div>	add channel delete channel show channel	Set the channel required for the bridge operation between desired 2 ports. Specify 1 port each on the LAN side and WAN side of 1 channel.
<div>STEP 2</div> <div>Set the IP address of the channel.</div>	set ip channel unset ip channel show ip channel	Set the IP address for the channel set in STEP 1.
<div>STEP 3</div> <div>Configure the scenario.</div>	add scenario update scenario delete scenario show scenario	Set the scenario required for the traffic control.
<div>STEP 4</div> <div>Configure the filter and rule list (as required).</div>	add filter delete filter show filter add rulelist group add rulelist entry delete rulelist group delete rulelist entry show rulelist	Set the filter criteria to classify the packet. Set the filter for the scenario set in STEP 3. Additionally, create the rule list with the packet classification grouped, as required, and set the list as a filter.

3.6 How to Set Channel

Set the channel.

Place the mouse cursor on the [Network] tab at upper left of the screen.

The pull-down menu of the Network menu appears. Click the [Channel] tab.

The Channel Setting screen appears as shown below.

Channel

PureFlow Web GUI

TopPage Network Manage. Monitor Misc. Logout

WAN Acceleration: Channel Setting

Networking > Channel

Channel Scenario Filter / Rulelist Application

Name	WAN	LAN	Type	VLAN ID	Inner VLAN ID	TPID	Inner TPID	MTU
1/1								
1/2								
1/3								
1/4								

Channel Name:

WAN:

LAN:

☐ Default ☒ Normal

VLAN ID:

TPID:

Inner VLAN ID:

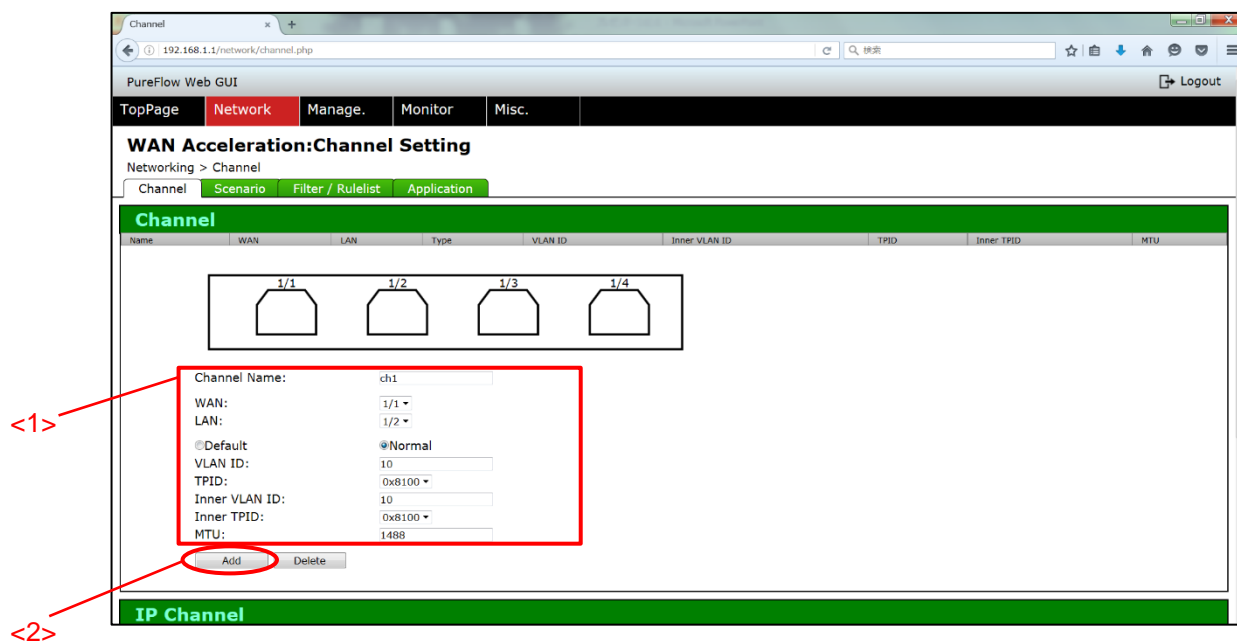
Inner TPID:

MTU:

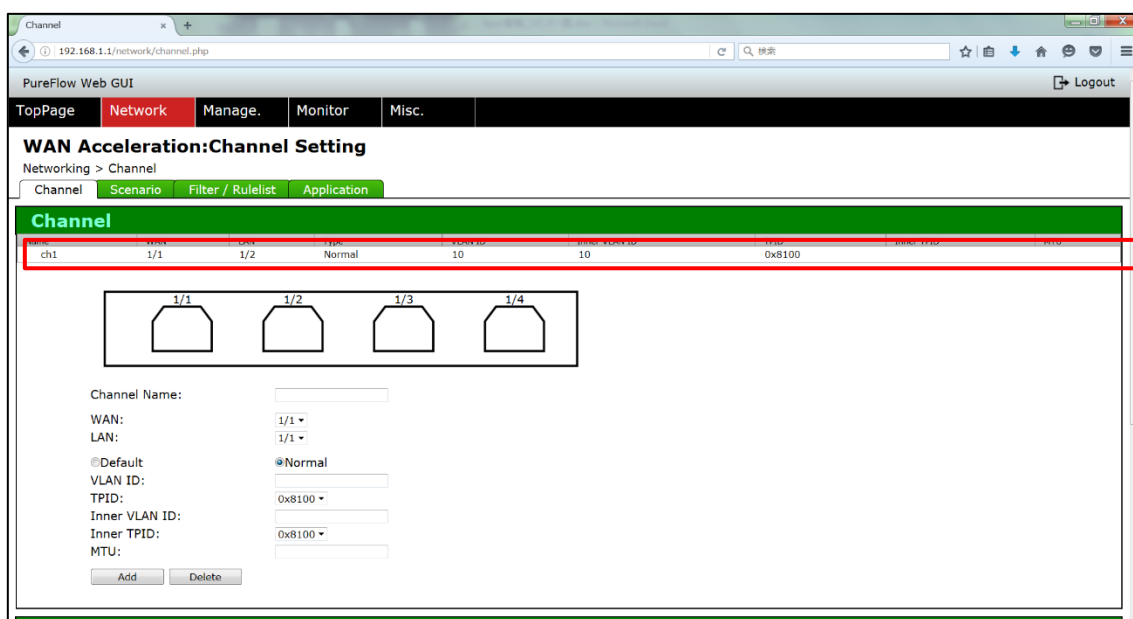
IP Channel

ChannelName	IpAddress(IPv4)	Netmask(IPv4)	IpAddress(IPv6)	PrefixLength(IPv6)
ChannelName:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
IPv4	<input checked="" type="radio"/> Set <input type="radio"/> UnSet	<input type="text"/>	<input type="text"/>	<input type="text"/>
NetMask:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
IPv6	<input checked="" type="radio"/> Set <input type="radio"/> UnSet	<input type="text"/>	<input type="text"/>	<input type="text"/>
IP Address:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
PrefixLength:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

<1> Enter and select the parameter in the column on the left side of the screen, and <2> click the [Add] button.

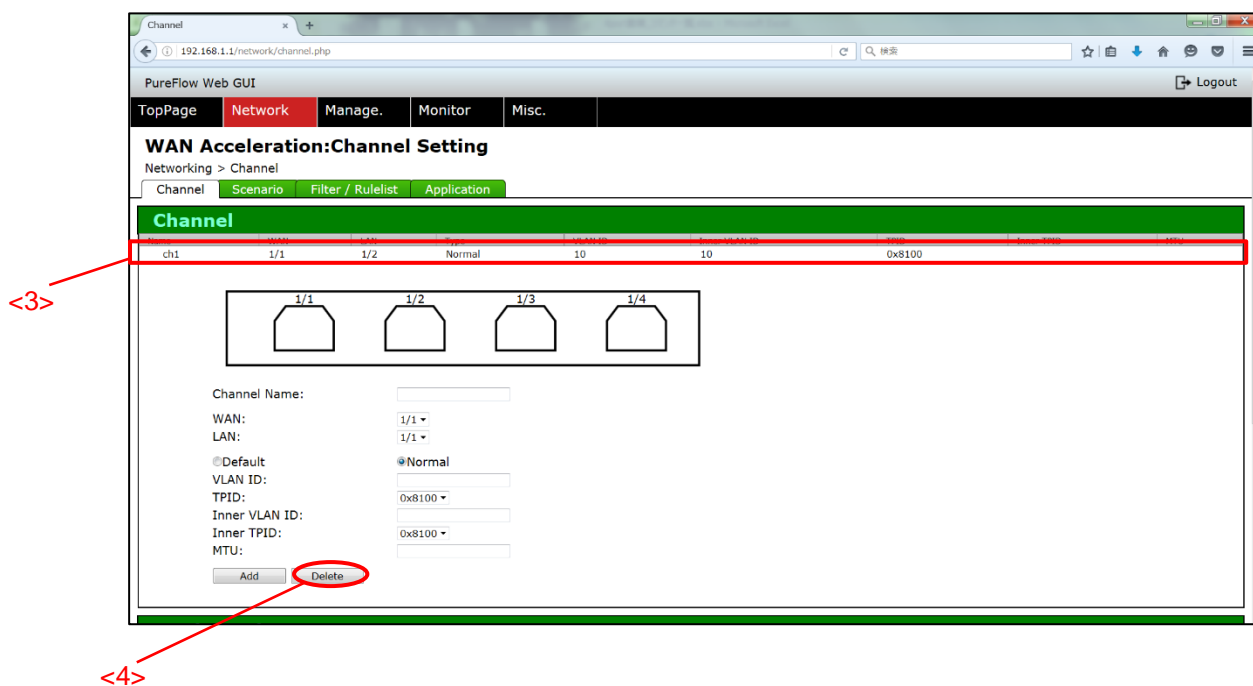


Check that the channel has been added as shown below.



To delete the channel , <3> select the relevant channel.

<4> Click the [Delete] button to delete the channel.



3

Operation Method

3.7 How to Set IP Address of Channel

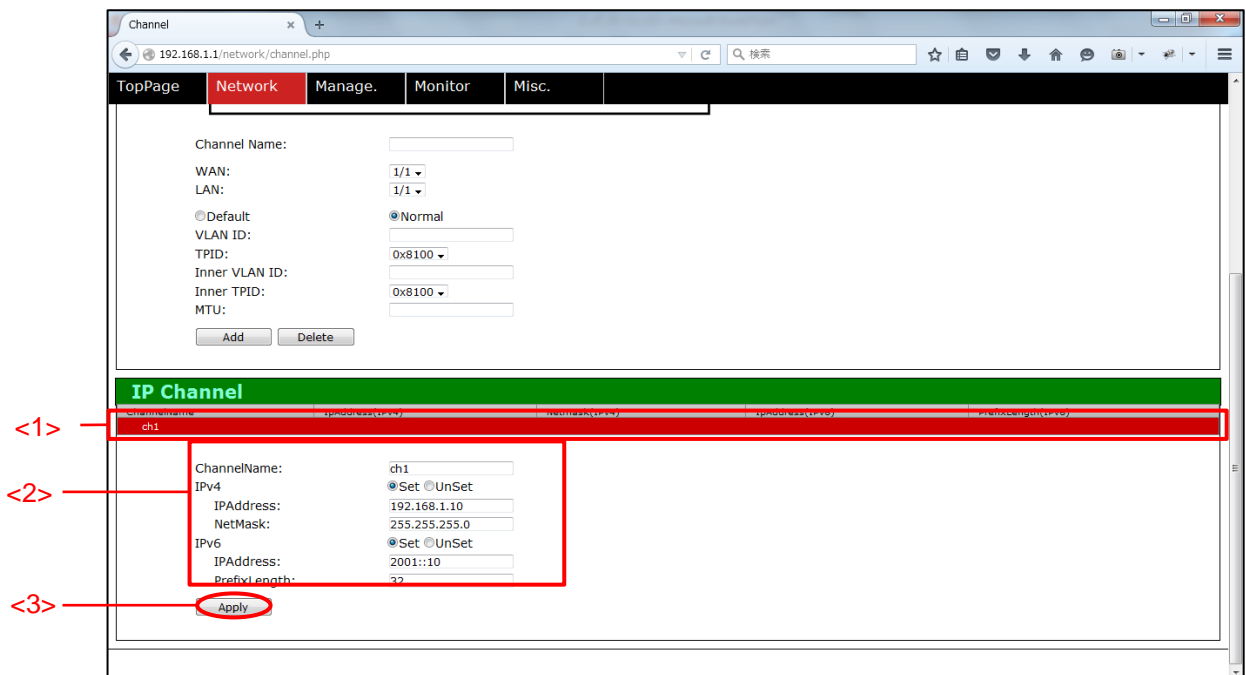
Set the IP address of the channel.

* To set the IP address of the channel, set the channel in advance.

<1> Select the relevant channel.

<2> IPv4 and IPv6 address can be set. Select radio button [set] or [unset]. Enter the IP address in the "IPAddress" column, and the net mask or prefix in the "NetMask" column respectively.

<3> Click the [Apply] button, the IP address will be set or unset.



3.8 How to Configure Scenario

Configure the scenario.

Place the mouse cursor on the [Network] tab at upper left of the screen.

The pull-down menu of the Network menu appears. Click the [Scenario] tab.

The Scenario Configuration screen appears as shown below.

Scenario

192.168.1.1/network/scenario.php

PureFlow Web GUI

Logout

TopPage Network Manage. Monitor Misc.

WAN Acceleration: Scenario Configuration

Networking > Scenario

Channel Scenario Filter / Rulelist Application

Scenario Tree

Name	Type	Config Summary
port1	Port	Bandwidth : Peak 1G , Class : 2(default)
port2	Port	Bandwidth : Peak 1G , Class : 2(default)
port3	Port	Bandwidth : Peak 1G , Class : 2(default)
port4	Port	Bandwidth : Peak 1G , Class : 2(default)

Scenario Edit

Scenario:

Type: Aggregate

ID:

CoS:

Inner CoS:

DSCP:

Min. Bandwidth:

Peak Bandwidth:

Class:

Bufsize:

Update Scenario

The scenario on the 1st layer is configured as the default scenario in each port. As an example, procedure for adding a scenario on the 2nd layer for port1 is described below.

<1> Select "port1" in the "Scenario Tree" window on the left side of the screen, and <2> click the [+] button in green.

<3> Enter each parameter in the "Scenario Edit" window on the right side of the screen, and <4> click the [Add Scenario] button.

The screenshot displays the 'PureFlow Web GUI' with the 'WAN Acceleration: Scenario Configuration' page. The 'Scenario Tree' on the left lists four ports: port1, port2, port3, and port4. Port1 is selected, and the green '+' button is circled. The 'Scenario Edit' form on the right contains various configuration fields. The 'Add Scenario' button at the bottom right is also circled.

Name	Type	Config Summary
port1	Port	Bandwidth : Peak 1G , Class : 2(default)
port2	Port	Bandwidth : Peak 1G , Class : 2(default)
port3	Port	Bandwidth : Peak 1G , Class : 2(default)
port4	Port	Bandwidth : Peak 1G , Class : 2(default)

Scenario Edit

Scenario: scenario1 /port1

Type: Wan Accel

ID:

Min. Bandwidth:

Peak Bandwidth:

Peer: 192.168.1.2

Second Peer:

DPORT:

VLAN ID:

Inner VLAN ID:

CoS:

Inner CoS:

DSCP:

Buffer Size:

Compress: ☒ Enable ☐ Disable

TCP mem:

CC Mode: Normal

Bypass Thresh:

Bypass KeepAlive: ☐ Enable ☒ Disable

FEC: ☐ Enable ☒ Disable

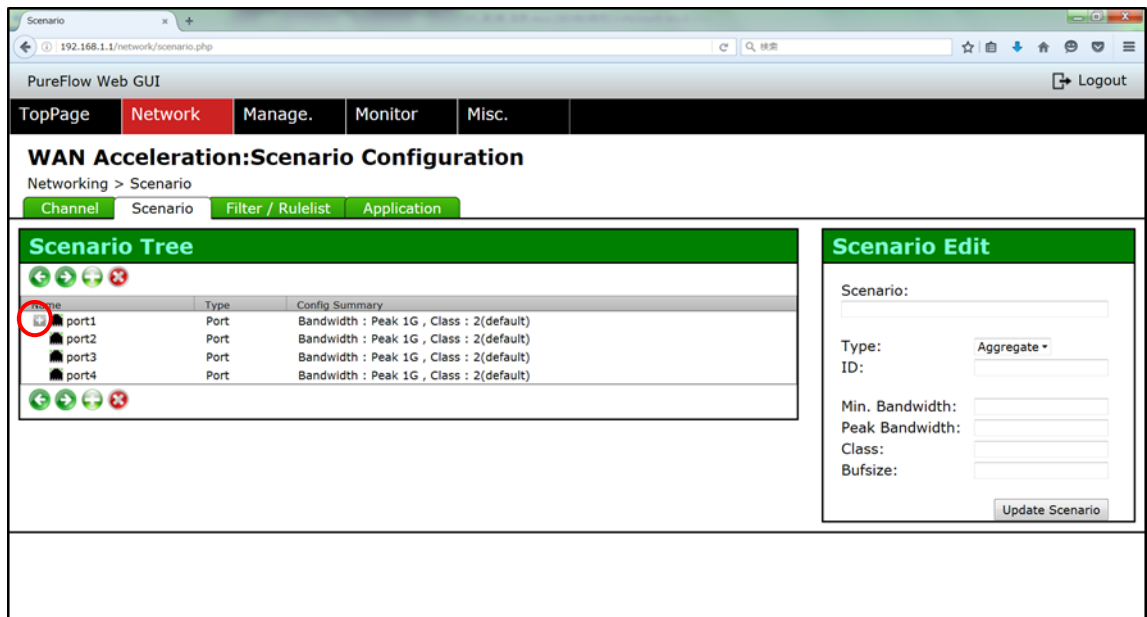
Block Size:

Data Block Size:

FEC Session:

Add Scenario

Check that the [+] button in gray appears at the scenario on the first layer in the "Scenario Tree" window as shown below. This button appears to indicate the existence of the scenarios on the lower layers.



Clicking the [+] button in gray displays the scenarios on the lower layers.
By selecting the relevant scenario, the parameter of the scenario can be checked in the "Scenario Edit" window.

To delete the scenario or change the parameter, <5> select the relevant scenario.

To delete the scenario, <6> click the [x] button in red.

After changing the relevant parameter, <7> click the [Update Scenario] button to change the scenario.

The screenshot displays the 'Scenario Configuration' page in the PureFlow Web GUI. The 'Scenario' tab is selected, showing a list of scenarios in the 'Scenario Tree' and a detailed 'Scenario Edit' form.

Scenario Tree:

Name	Type	Config Summary
port1	Port	Bandwidth : Peak 1G , Class : 2(default)
scenario1	WanAccel	Peer : 192.168.1.2 , Compress , FEC Disable
port2	Port	Bandwidth : Peak 1G , Class : 2(default)
port3	Port	Bandwidth : Peak 1G , Class : 2(default)
port4	Port	Bandwidth : Peak 1G , Class : 2(default)

Scenario Edit:

Scenario: scenario1
/port1

Type: Wan Accel
ID: 1

Min. Bandwidth:
Peak Bandwidth:
Peer: 192.168.1.2
Second Peer:
DPORT:
VLAN ID:
Inner VLAN ID:
CoS:
Inner CoS:
DSCP:
Buffer Size:
Compress: ☒ Enable ☐ Disable
TCP mem:
CC Mode: Normal
Bypass Thresh:
Bypass KeepAlive: ☐ Enable ☒ Disable
FEC: ☐ Enable ☒ Disable
Block Size:
Data Block Size:
FEC Session:

Update Scenario

3.9 Application Acceleration Settings

Register the application acceleration.

- * Configure the acceleration mode scenario prior to registration of the application acceleration setting.

Place the mouse cursor on the [Network] tab at the upper left of the screen.

The pull-down menu of the Network menu appears. Click the [Application] tab.

The Application Setting screen appears as shown below.

The screenshot displays the PureFlow Web GUI interface. At the top, there is a navigation bar with tabs: TopPage, Network (highlighted in red), Manage., Monitor, and Misc. Below the navigation bar, the main heading is "WAN Acceleration: Application Accel", followed by the breadcrumb "Networking > Application Accel". A sub-navigation bar contains "Channel", "Scenario", "Filter / Rulelist", and "Application" (highlighted). The main content area is titled "Application" in a green header. Below this, there is a table with columns "Scenario", "Protocol", and "Config Summary". The table lists four scenarios: port1, port2, port3, and port4. Below the table, there is a form for configuring the selected scenario. The form includes fields for Scenario, Application (set to SMB), TCP Port, and SMB Session. Below these are several options with radio buttons: Read Attribute (Enable/Disable), Read Operation (Enable/Disable), Read Cache Size, Write Attribute (Enable/Disable), Write Attribute 1st (Enable/Disable), Write Attribute 2nd (Enable/Disable), and Write Operation (Enable/Disable). An "Apply" button is located at the bottom right of the form.

Scenario	Protocol	Config Summary
port1		
port2		
port3		
port4		

Scenario:	<input type="text"/>
Application:	<input type="text" value="SMB"/>
TCP Port:	<input type="text"/>
SMB Session:	<input type="text"/>
Read Attribute:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Read Operation:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Read Cache Size:	<input type="text"/>
Write Attribute:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Write Attribute 1st:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Write Attribute 2nd:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Write Operation:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Apply

<1> Select the scenario to accelerate the application in the "Application" window, and <2> click the [+] button in green.

In the "Application" window, <3> select Application, and <4> enter each parameter. <5> Click the [Apply] button.

* If the above steps are performed for the scenario in which the application acceleration settings have already been registered, the existing parameter is overwritten with a new parameter.

PureFlow Web GUI

TopPage Network Manage. Monitor Misc. Logout

WAN Acceleration: Application Accel

Networking > Application Accel

Channel Scenario Filter / Rulelist Application

Application

<2> [Left Arrow] [Right Arrow] [+] [-]

Scenario	Protocol	Config Summary
port1		
scenario1		
port2		
port3		
port4		

<1>

Scenario: /port1/scenario1

Application: SMB <3>

TCP Port: 139,445

SMB Session: 100

Read Attribute: ☒ Enable ☐ Disable

Read Operation: ☒ Enable ☐ Disable

Read Cache Size: 12500k

Write Attribute: ☒ Enable ☐ Disable

Write Attribute 1st: ☐ Enable ☒ Disable

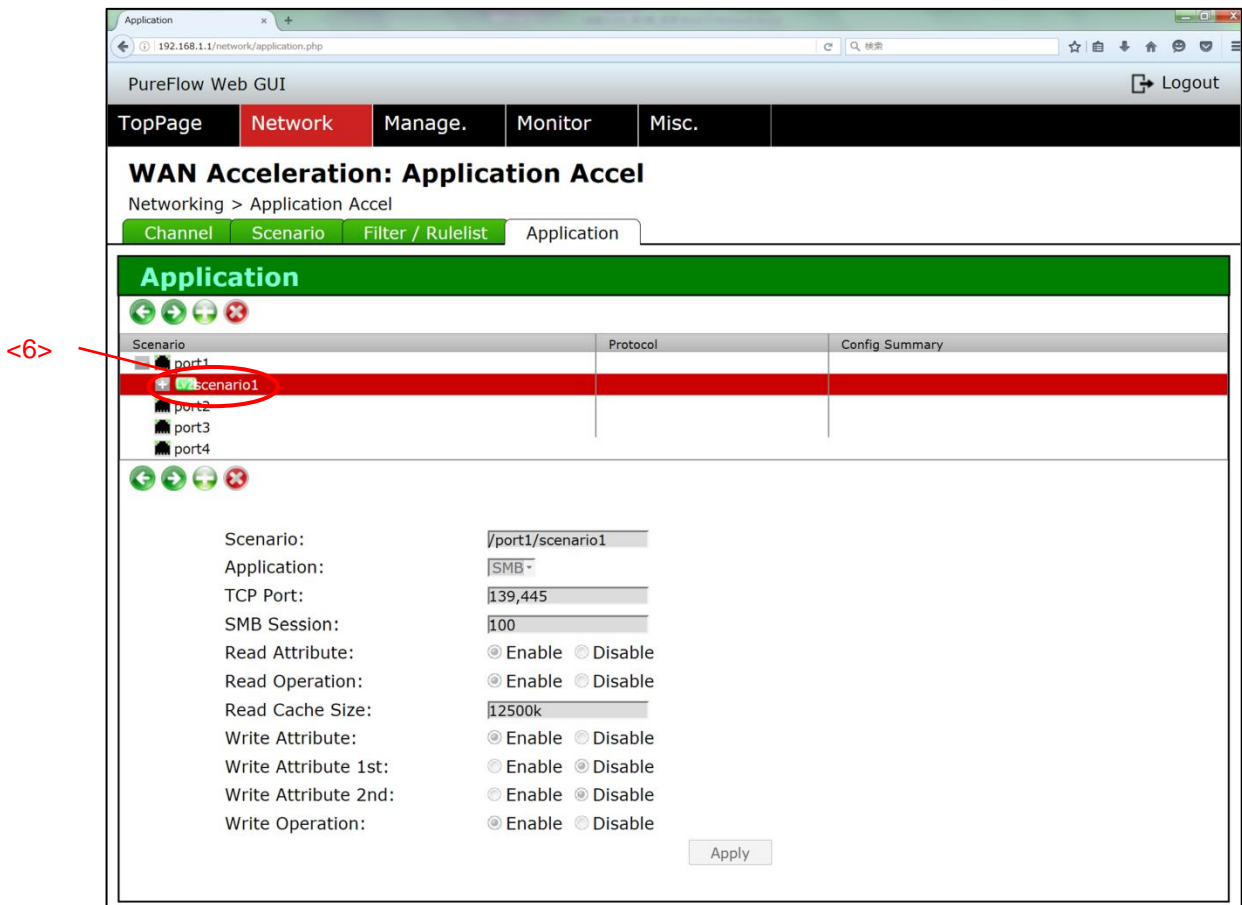
Write Attribute 2nd: ☐ Enable ☒ Disable

Write Operation: ☒ Enable ☐ Disable

<4>

Apply <5>

Check that the <6> [+] button in gray appears at the scenario in which the application acceleration setting was registered.



Clicking the [+] button in gray displays the application acceleration setting entry linked with the scenarios.

To delete the application acceleration setting, first, <7> select the scenario where the relevant application is set, then, <8> select the application to be deleted, and <9> click the [x] button in red.

PureFlow Web GUI

TopPage Network Manage. Monitor Misc. Logout

WAN Acceleration: Application Accel

Networking > Application Accel

Channel Scenario Filter / Rulelist Application

Application

Scenario	Protocol	Config Summary
port1		
scenario1	smb	TCP Port : 139,445, SMB Session : 100
port2		
port3		
port4		

Scenario: /port1/scenario1

Application: SMB

TCP Port: 139,445

SMB Session: 100

Read Attribute: ☒ Enable ☐ Disable

Read Operation: ☒ Enable ☐ Disable

Read Cache Size: 12500k

Write Attribute: ☒ Enable ☐ Disable

Write Attribute 1st: ☒ Enable ☐ Disable

Write Attribute 2nd: ☒ Enable ☐ Disable

Write Operation: ☒ Enable ☐ Disable

Apply

3.10 How to Configure Filter

Configure the filter.

* To configure the filter, configure the scenario in advance.

Place the mouse cursor on the [Network] tab at upper left of the screen.

The pull-down menu of the Network menu appears. Click the [Filter / Rulelist] tab.

The Filter / Rulelist configuration screen appears as shown below.

Filter and Rulelist

192.168.1.1/network/filterandrule.php

PureFlow Web GUI

Logout

TopPage Network Manage. Monitor Misc.

WAN Acceleration:Filter and Rulelist configuration

Networking > Filter / Rulelist

Channel Scenario Filter / Rulelist Application

Filter

Scenario	Filter Name	Type	Config Summary	Priority
port1				
port2				
port3				
port4				

Filter Name:

Scenario:

Type:

VLAN ID:

Inner VLAN ID:

Source IP:

Destination IP:

Protocol:

Source Port:

Destination Port:

Priority:

☐ Rulelist

☐ Rulelist

☐ Rulelist

☐ Rulelist

The Setting range is [TCP,UDP,ICMP] or [0-255].

Rulelist

ListName	Type	Entry

List Name:

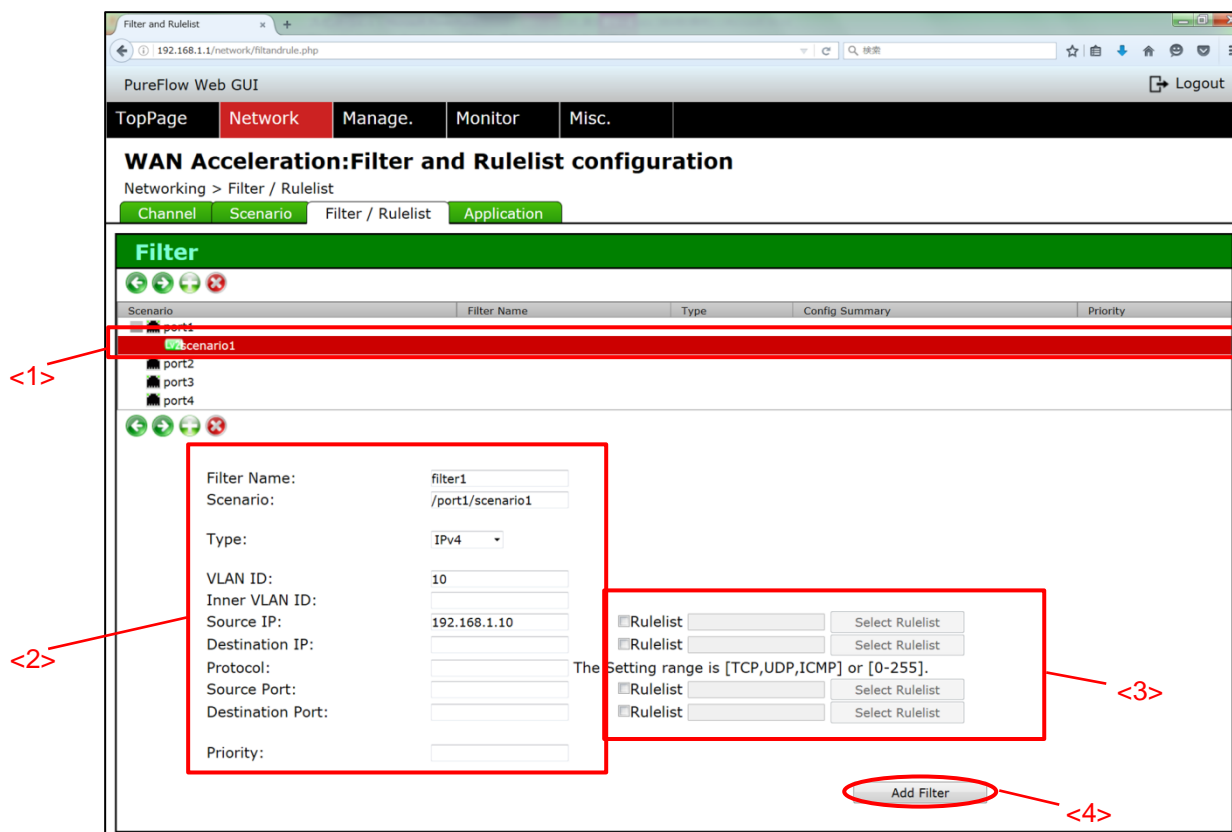
Type:

Entry:

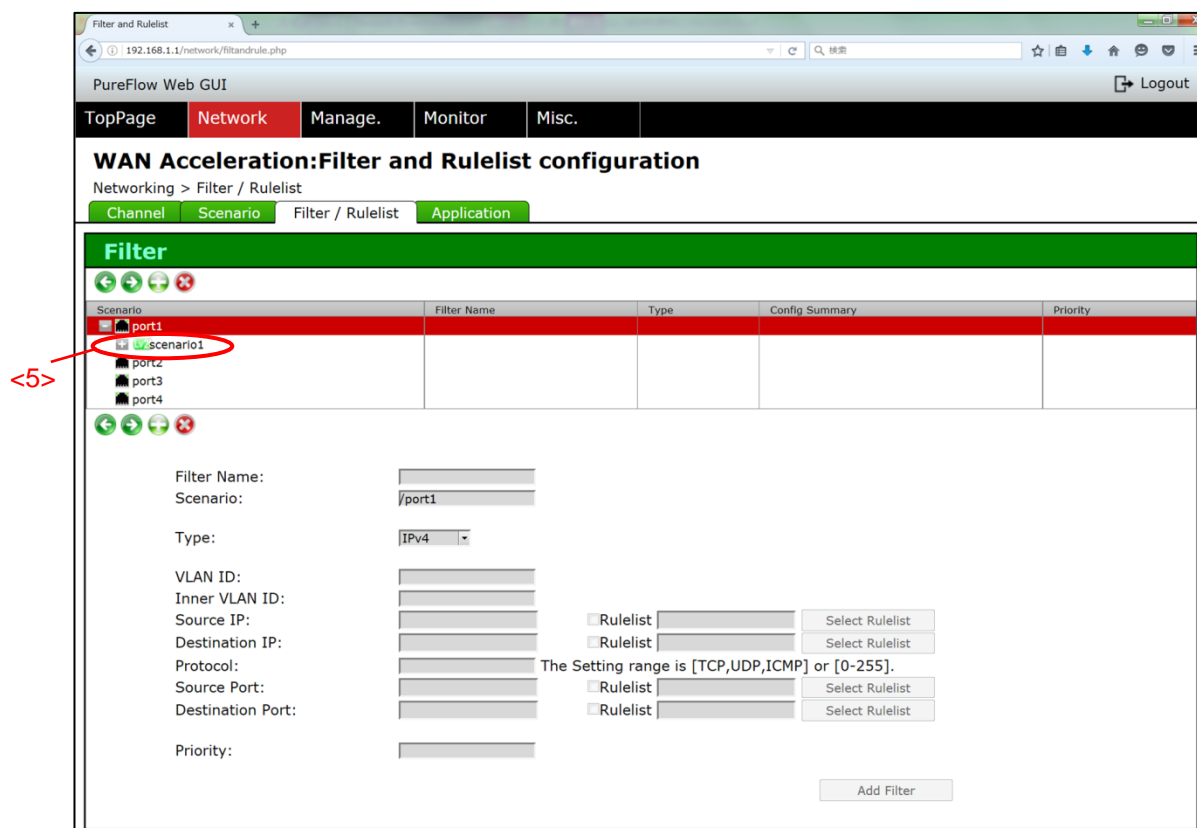
<1> Select the desired filter in the "Filter" window.

In the "Filter" window, <2> enter each parameter, and <4> click the [Add Filter] button. To use a rule list as a parameter, <3> select the rule list, and <4> click the [Add Filter] button.

For details of how to set the rule list, refer to "3.11 How to Set Rule List".



Check that the **<5> [+]** button in gray appears at the relevant scenario as shown below. This button appears to indicate the existence of the filters of the scenario.



Clicking the [+] button in gray displays the filters linked with the scenarios. By selecting the relevant filter, the parameter of the scenario can be checked.

To delete the filter, <6> select the relevant filter.

To delete the filter, <7> click the [x] button in red.

PureFlow Web GUI

TopPage Network Manage. Monitor Misc. Logout

WAN Acceleration:Filter and Rulelist configuration

Networking > Filter / Rulelist

Channel Scenario Filter / Rulelist Application

Filter

Scenario	Filter Name	Type	Config Summary	Priority
port1	filter1	IPv4	VLAN ID : 10 , SIP : 192.168.1.10-192.168.1.10	20000
scenario1				
port2				
port3				
port4				

Filter Name: filter1

Scenario: /port1/scenario1

Type: IPv4

VLAN ID: 10

Inner VLAN ID:

Source IP: 192.168.1.10-192.168.1.10

Destination IP:

Protocol:

Source Port:

Destination Port:

Priority: 20000

Rulelist [] Select Rulelist

Rulelist [] Select Rulelist

Rulelist [] Select Rulelist

Rulelist [] Select Rulelist

The Setting range is [TCP,UDP,ICMP] or [0-255].

Add Filter

3.11 How to Set Rule List

Set the rule list.

Divide the rule list into the rule list group and rule list entry, and set them.

3.11.1 How to set rule list group

Set the rule list group.

Place the mouse cursor on the [Network] tab at upper left of the screen.

The pull-down menu of the Network menu appears. Click the [Filter / Rulelist] tab.

The Filter / Rulelist configuration screen appears as shown below.

Filter and Rulelist

192.168.1.1/network/fitandrule.php

TopPage Network Manage. Monitor Misc.

Destination IP: [text box] ☐ Rulelist [text box] Select Rulelist

Protocol: [text box] The Setting range is [TCP,UDP,ICMP] or [0-255].

Source Port: [text box] ☐ Rulelist [text box] Select Rulelist

Destination Port: [text box] ☐ Rulelist [text box] Select Rulelist

Priority: 20000

Add Filter

Rulelist

ListName	Type	Entry
[text box]	IPv4	[text box]

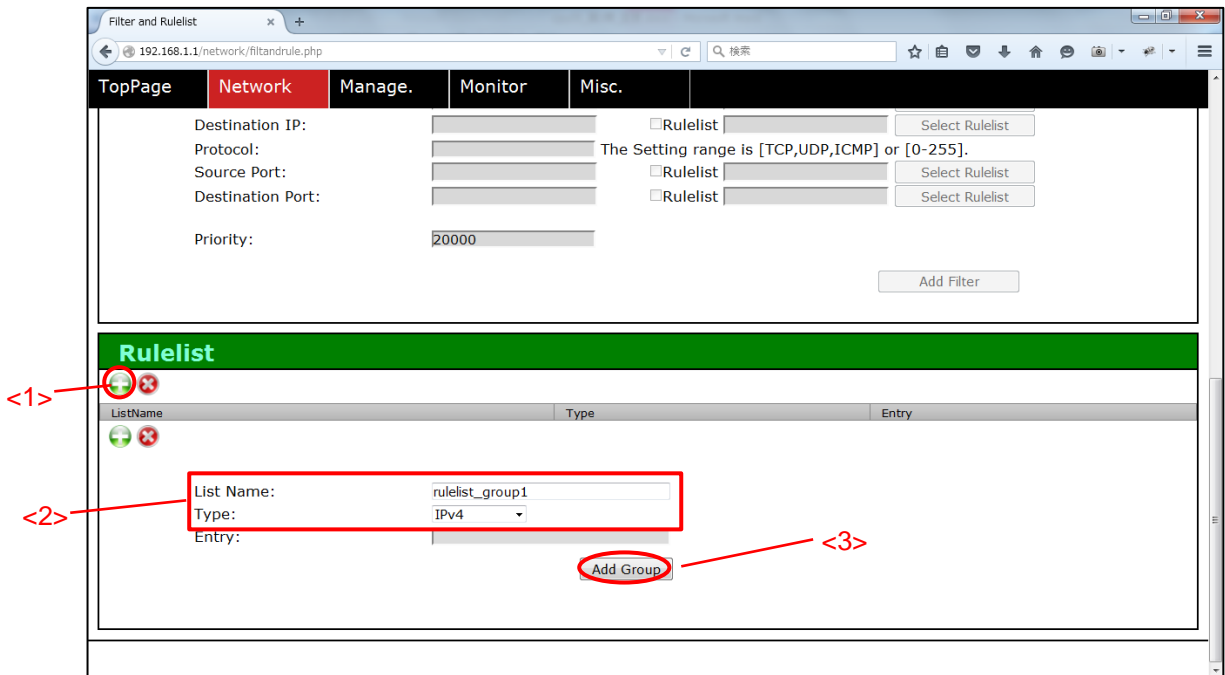
List Name: [text box]

Type: IPv4

Entry: [text box]

Add Group

- <1> Click the [+] button in green in the "Rulelist" window.
 <2> Enter the desire name in the "List Name" column, select "Type", and
 <3> click the [Add Group] button.

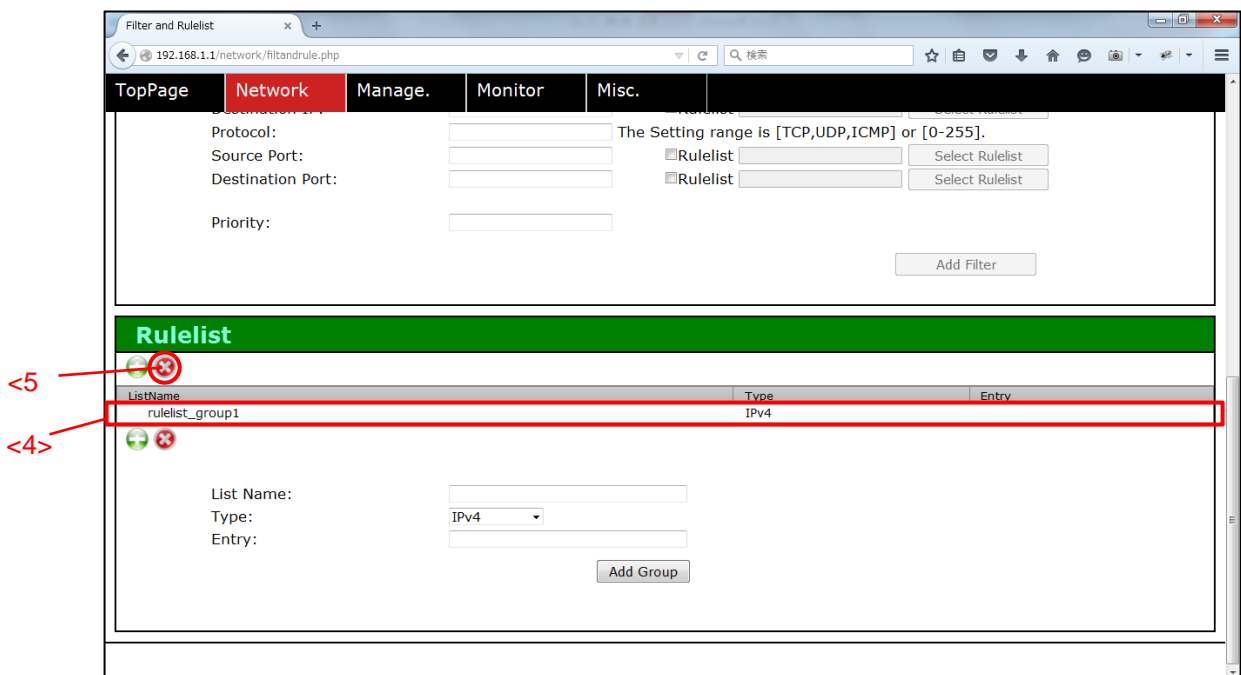


3

Operation Method

Check that the set rule list group as shown below.

To delete the list group, <4> select the relevant rule list group, and <5> click the [x] button in red.

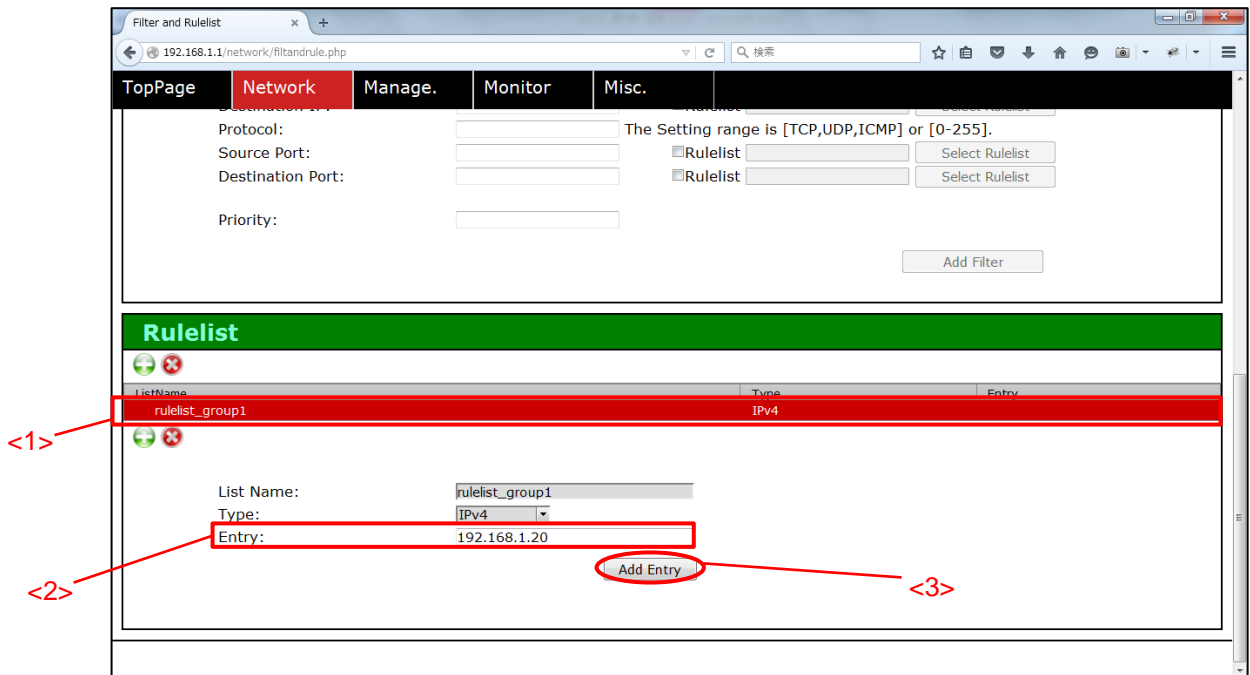


3.11.2 How to set rule list entry

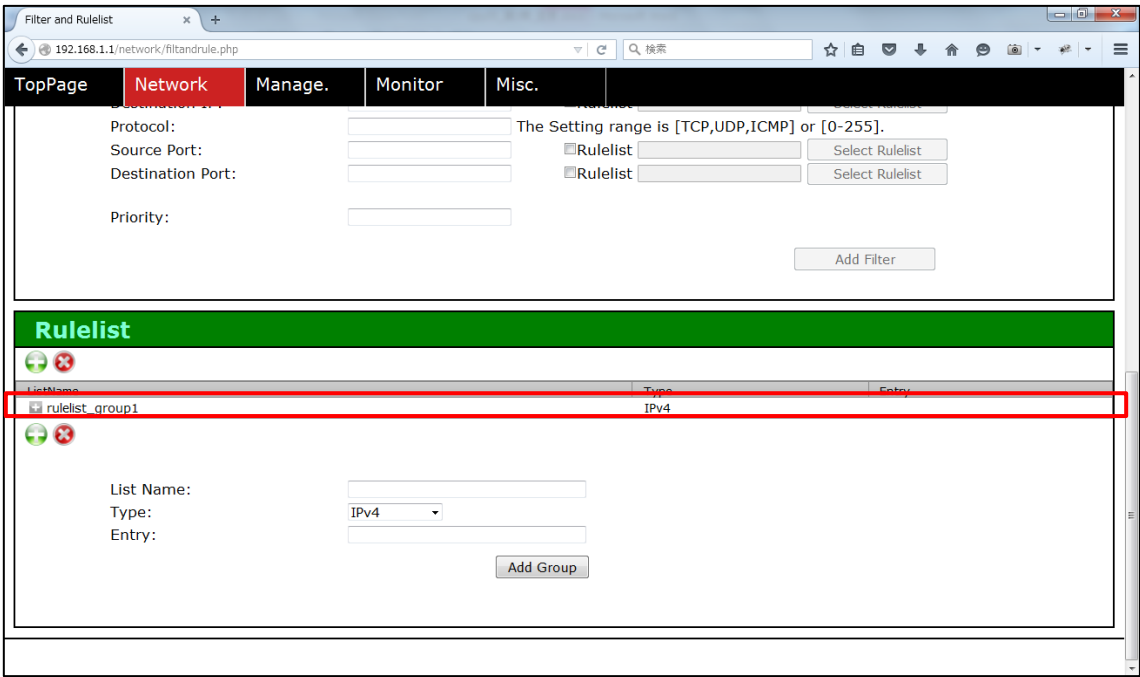
Set the rule list entry.

* To set the rule list entry, set the rule list group in advance.

<1> Select the relevant rule list group, <2> enter the IP address or port number in the [Entry] column, and <3> click the [Add Entry] button.



Check that the [+] button in gray appears at the relevant rule list group as shown below. This button appears to indicate the existence of the rule list entry of the scenario.



3
Operation Method

By clicking the [+] button in gray, the parameters of the rule list entry set in the rule list group can be checked.
To delete the rule list entry, select the relevant rule list entry, and click the [x] button in red according to the same procedure as the rule list group.

3.12 How to Perform Settings Related to Time

Perform the settings related to the current time.

Place the mouse cursor on the [Manage.] tab at upper left of the screen.

The pull-down menu of the Manage. menu appears. Click the [Time] tab.

The Time Config screen appears as shown below.

The screenshot shows the PureFlow Web GUI interface. At the top, there's a navigation bar with tabs: TopPage, Network, **Manage.**, Monitor, and Misc. The **Manage.** tab is selected, and a sub-menu is open showing 'Time' as the selected option. Below the navigation bar, the page title is 'Manage.:Time Setting'. Underneath, there's a breadcrumb 'Manage > Time' and a 'Time' tab. The main content area is divided into two sections: 'Current Time Configuration' and 'Time Config'. The 'Current Time Configuration' section displays the following information: Mode: Manual; TimeZone: UTC + 9:00; Daylight Saving Time: Begins At: ----, Ends At: ----; Page Load Time: 11 / 05 / 2015 11:09:45; and SNTP Client: Server: 0.0.0.0, Interval: 3600 (seconds), Sync: Not in use. The 'Time Config' section contains two main parts. The first part is 'Setting Time Configuration', which includes a 'Time Zone' dropdown set to 'UTC + 9:00', 'TimeMode' with radio buttons for 'Manual' (selected) and 'SNTP', 'SummerTime' with radio buttons for 'Set' and 'UnSet' (selected), 'Begin At' (March 2nd Sunday 2:00), 'End At' (November 1st Sunday 2:00), 'OffSet' (60), 'SNTP IP Address' (0.0.0.0), and 'SNTP Interval' (3600). There is an 'Apply' button. The second part is 'SNTP Sync', with an 'Execute Sync:' button labeled 'SNTP Sync Immediately'. The third part is 'Setting Manual Date and Time', with a 'SetTime:' field showing '11 / 05 / 2015 11:09:45' and a 'Set Time' button.

time

192.168.1.1/management/time.php

PureFlow Web GUI

Logout

TopPage Network **Manage.** Monitor Misc.

Manage.:Time Setting

Manage > Time

Time

Current Time Configuration

Mode: Manual

TimeZone: UTC + 9:00

Daylight Saving Time

Begins At: ----

Ends At: ----

Page Load Time: 11 / 05 / 2015 11:09:45

SNTP Client

Server: 0.0.0.0

Interval: 3600 (seconds)

Sync: Not in use

Time Config

Setting Time Configuration

Time Zone: UTC + 9:00

TimeMode: ☒ Manual ☐ SNTP

SummerTime: ☐ Set ☒ UnSet

Begin At: March 2nd Sunday 2:00

End At: November 1st Sunday 2:00

OffSet: 60

SNTP IP Address: 0.0.0.0

SNTP Interval: 3600

Apply

SNTP Sync

Execute Sync: SNTP Sync Immediately

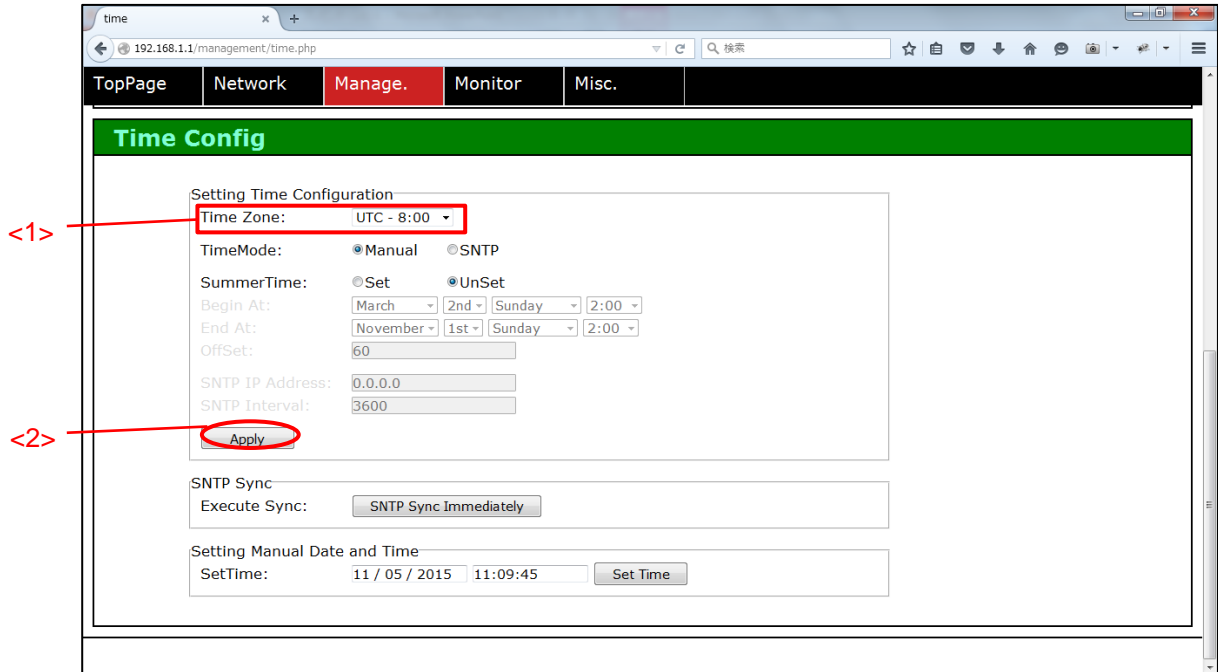
Setting Manual Date and Time

SetTime: 11 / 05 / 2015 11:09:45 Set Time

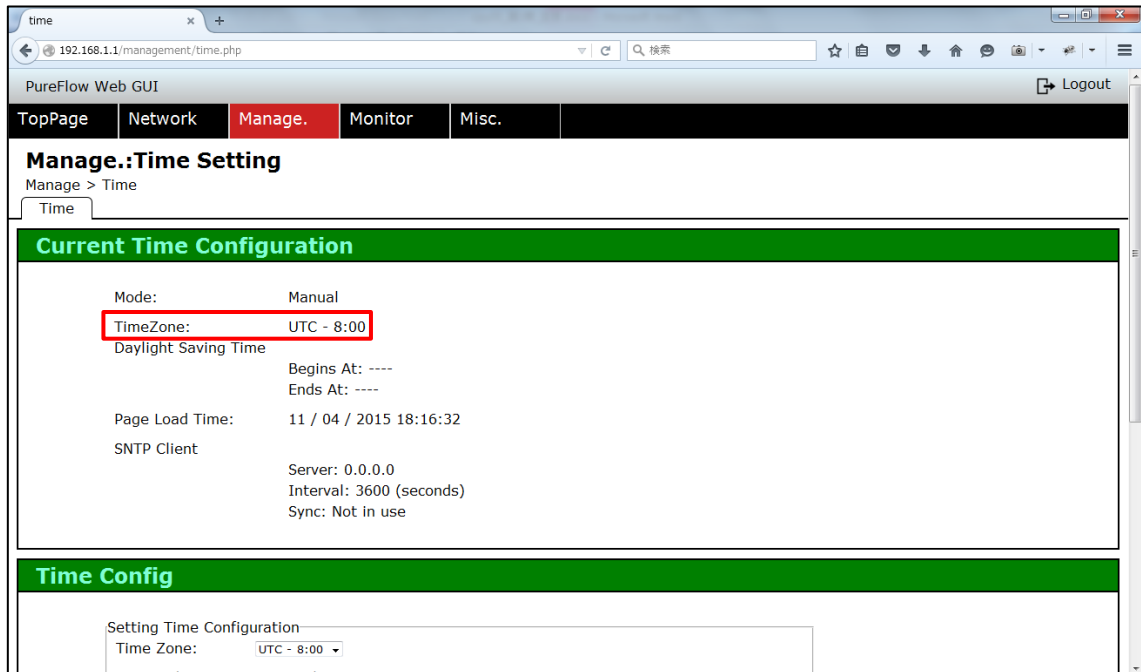
3.12.1 How to set time zone

Set the time zone.

<1> Select a time zone from "Time Zone" in the "Time Config" window,
and <2> click the [Apply] button.



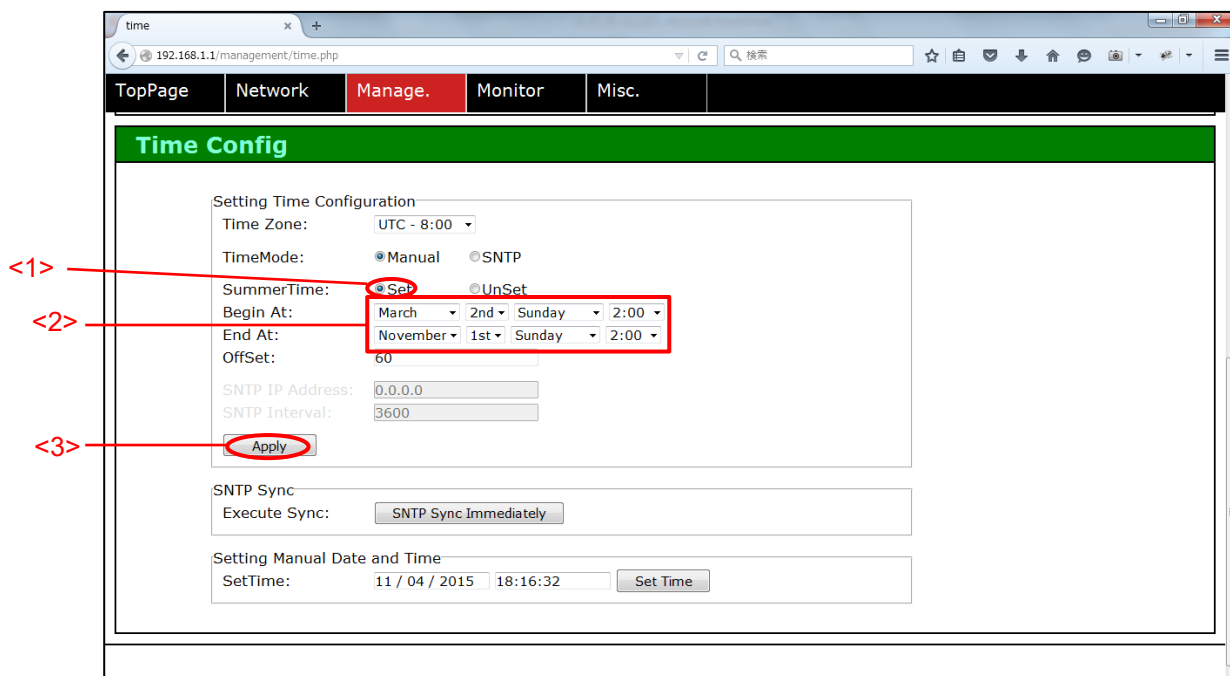
Check that "TimeZone" in the "Current time configuration" window has been changed as shown below.



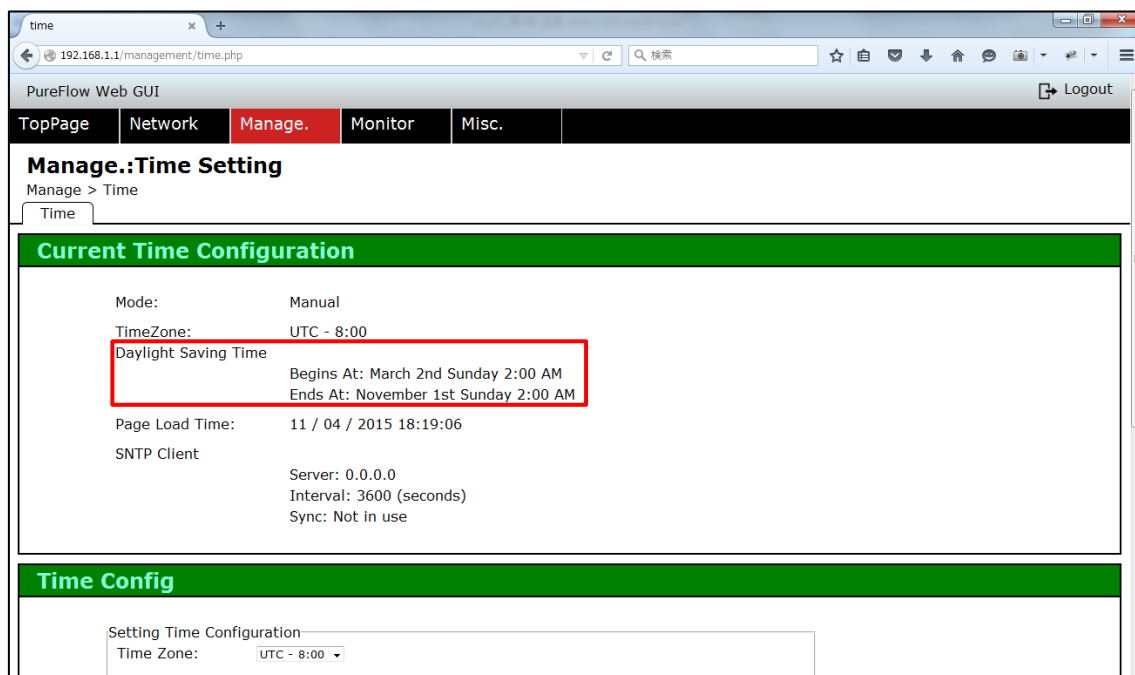
3.12.2 How to set daylight-saving time

Set the daylight-saving time.

In the "Time Config" window, <1> Select "Set" in "SummerTime", <2> enter/select parameters respectively, and <3> click the [Apply] button.



Check that "Daylight Saving Time" in the "Current Time Configuration" window has been changed as shown below.



3.12.3 How to set SNTP

Set SNTP.

<1> Select SNTP in "Time Mode" of the "Time Config" window.

<2> Enter parameters in "SNTP IP Address" and "SNTP Interval", respectively, and <3> click the [Apply] button.

time 192.168.1.1/management/time.php

TopPage Network **Manage.** Monitor Misc.

Sync: Not in use

Time Config

Setting Time Configuration

Time Zone: UTC - 8:00

TimeMode: ☐ Manual ☒ **SNTP**

SummerTime: ☐ Set ☒ UnSet

Begin At: March 2nd Sunday 2:00

End At: November 1st Sunday 2:00

Offset: 60

SNTP IP Address: 120.0.0.1

SNTP Interval: 3600

Apply

SNTP Sync

Execute Sync:

Setting Manual Date and Time

SetTime: 11 / 04 / 2015 18:19:06

Check that "Mode" in "Current Time Configuration" is "SNTP" and parameters of "SNTP Client" have been changed as shown below.

time 192.168.1.1/management/time.php

PureFlow Web GUI Logout

TopPage Network **Manage.** Monitor Misc.

Manage.:Time Setting

Manage > Time

Time

Current Time Configuration

Mode: **SNTP**

TimeZone: UTC - 8:00

Daylight Saving Time

Begins At: ----

Ends At: ----

Page Load Time: 11 / 04 / 2015 18:24:43

SNTP Client

Server: 120.0.0.1

Interval: 3600 (seconds)

Sync: Use SNTP / Sync lost

Time Config

Setting Time Configuration

Time Zone: UTC - 8:00

TimeMode: ☐ Manual ☒ SNTP

SNTP is synchronized with the SNTP server automatically at the interval of specified "SNTP Interval". In addition, synchronization with the SNTP server can be performed at the desired timing by clicking the [SNTP Sync Immediately] button of the "Execute Sync" column in the "Time Config" window.

The screenshot displays a web browser window with the address bar showing `192.168.1.1/management/time.php`. The page has a navigation bar with tabs: **TopPage**, **Network**, **Manage.** (active), **Monitor**, and **Misc.**. Below the navigation bar, a status bar indicates `Sync: Use SNTP / Sync lost`. The main content area is titled **Time Config** in a green header. Under this header, there is a section for **Setting Time Configuration** with the following fields:
Time Zone: `UTC - 8:00` (dropdown)
TimeMode: ☐ Manual ☒ SNTP
SummerTime: ☐ Set ☒ UnSet
Begin At: `March` (month), `2nd` (day), `Sunday` (day of week), `2:00` (time)
End At: `November` (month), `1st` (day), `Sunday` (day of week), `2:00` (time)
OffSet: `60` (text input)
SNTP IP Address: `120.0.0.1` (text input)
SNTP Interval: `3600` (text input)
An **Apply** button is located below these fields.
Below the configuration section, there is a section for **SNTP Sync** with the label **Execute Sync:** and a button labeled **SNTP Sync Immediately**. This button and its label are enclosed in a red rectangular box.
At the bottom of the page, there is a section for **Setting Manual Date and Time** with a **SetTime:** field showing `11 / 04 / 2015` and `18:24:43`, and a **Set Time** button.

3.12.4 How to set time manually

Set the time manually.

- <1> Select "Manual" in "Time Mode" of the "Time Config" window, and
- <2> click the [Apply] button.
- <3> Check that "Mode" in "Current Time Configuration" is "Manual".
- <4> Enter the current date(MM/DD/YYYY) and time(hh:mm:ss) in the "Set Time" column of the "Time Config" window, and <5> click the [Set Time] button.

The screenshot displays the PureFlow Web GUI interface for time configuration. The top navigation bar includes 'TopPage', 'Network', 'Manage.', 'Monitor', and 'Misc.'. The 'Manage.' tab is active, showing 'Manage.:Time Setting' and 'Manage > Time'.

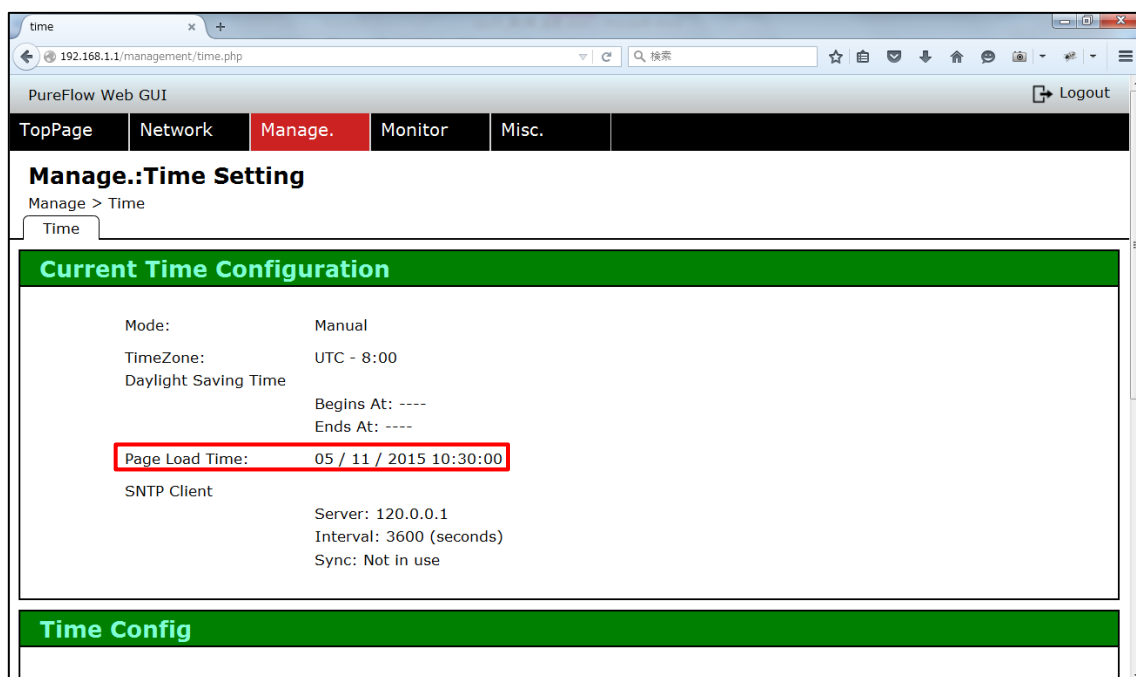
The 'Current Time Configuration' section shows the following details:

- Mode:** Manual (highlighted with a red box and labeled <3>)
- TimeZone:** UTC - 8:00
- Daylight Saving Time:** Begins At: ----, Ends At: ----
- Page Load Time:** 11 / 04 / 2015 18:30:02
- SNTP Client:** Server: 120.0.0.1, Interval: 3600 (seconds), Sync: Not in use

The 'Time Config' section contains the following configuration options:

- Setting Time Configuration:**
 - Time Zone:** UTC - 8:00
 - TimeMode:** *Manual (highlighted with a red circle and labeled <1>), *SNTP
 - SummerTime:** *Set, *UnSet
 - Begin At:** March, 2nd, Sunday, 2:00
 - End At:** November, 1st, Sunday, 2:00
 - Offset:** 60
 - SNTP IP Address:** 120.0.0.1
 - SNTP Interval:** 3600
- Apply:** (highlighted with a red circle and labeled <2>)
- SNTP Sync:** Execute Sync: SNTP Sync Immediately
- Setting Manual Date and Time:**
 - SetTime:** 05/ 11 / 2015 10:30:00 (highlighted with a red box and labeled <4>)
 - Set Time:** (highlighted with a red circle and labeled <5>)

Check that "Page Load Time" in "Current Time Configuration" indicates the specified time as shown below.



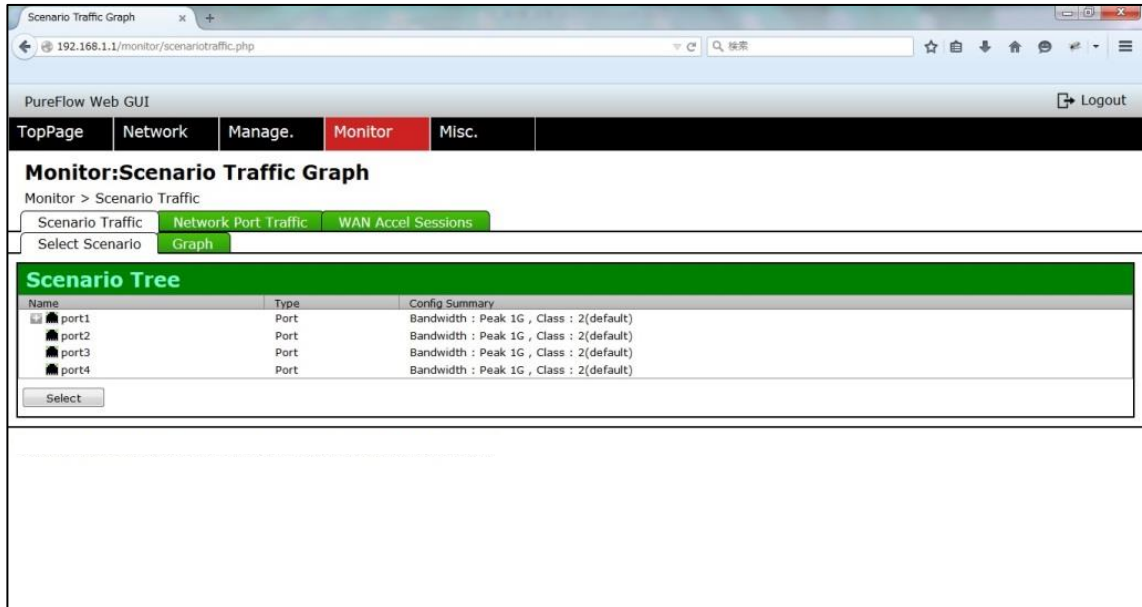
3.13 How to Display Traffic Graph of Scenario

Display the traffic graph of scenario.

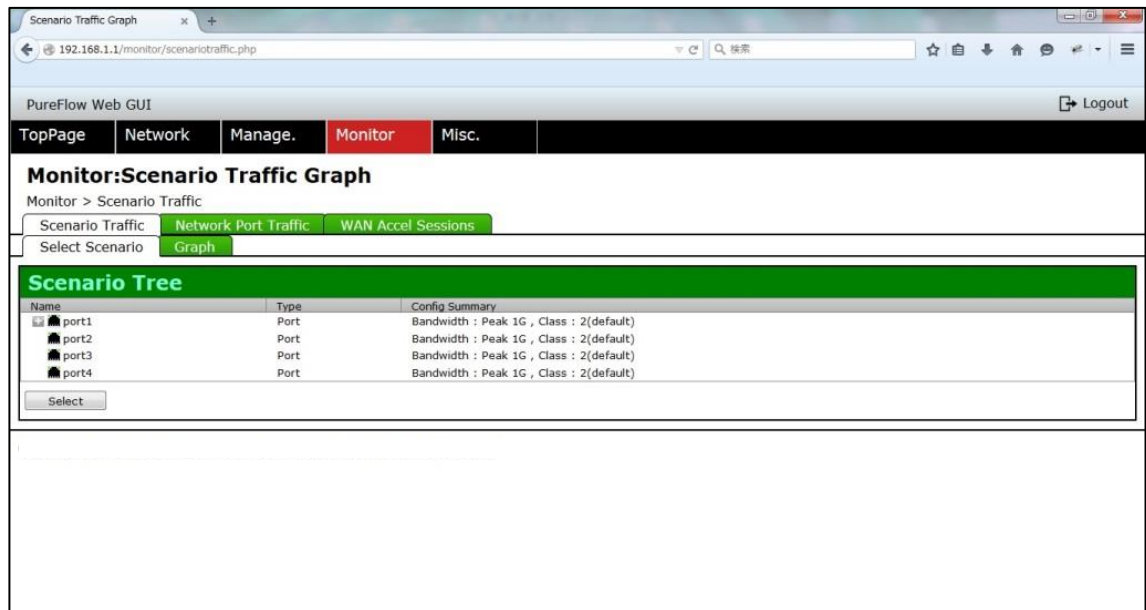
Place the mouse cursor on the [Monitor] tab at upper left of the screen.

The pull-down menu of the Monitor menu appears. Click the [Scenario Traffic] tab.

The Scenario Traffic graph screen appears as show below.

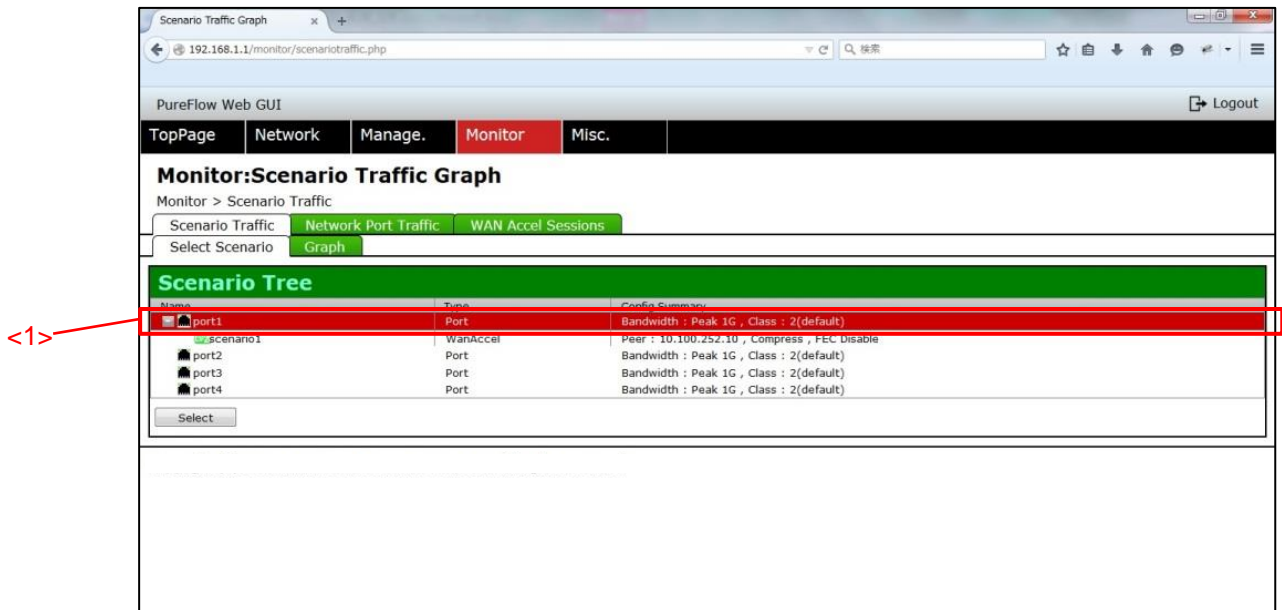


First, select the scenario to display the graph.
Click the [Select Scenario] tab of the "Scenario Traffic" window.
The scenario selection screen appears as show below.



As an example, procedure for selecting a scenario on the 2nd layer for port1 is described below.

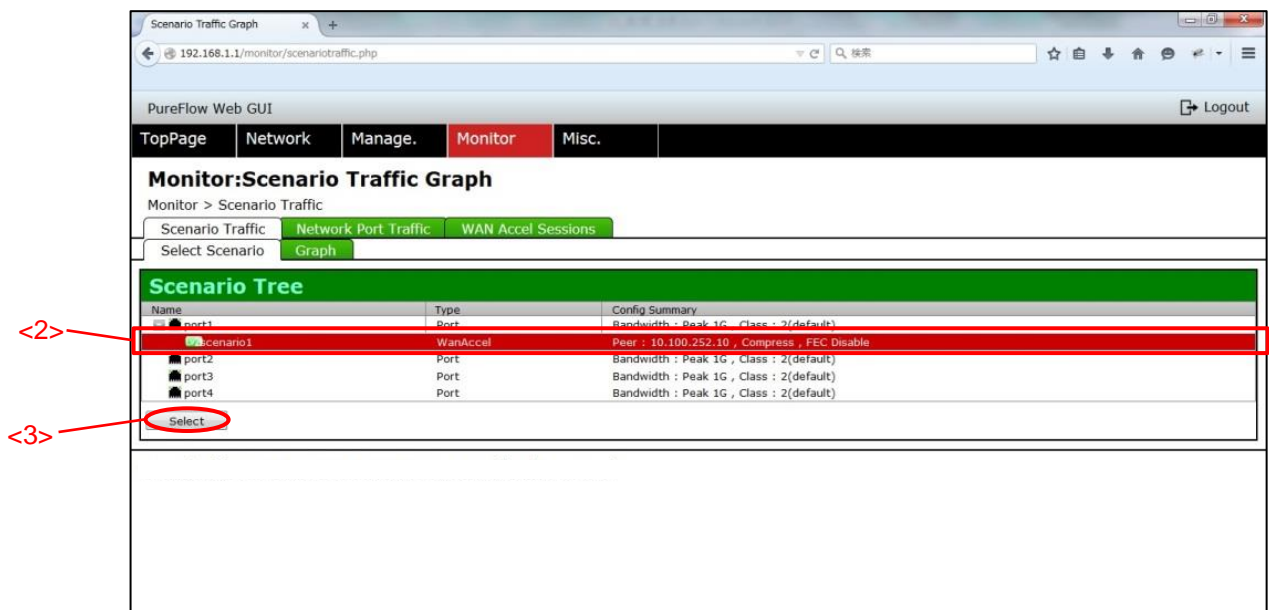
<1> Select "port1" in the "Scenario Tree" window, and click the [+] button in gray displays the scenarios on the 2nd layers.



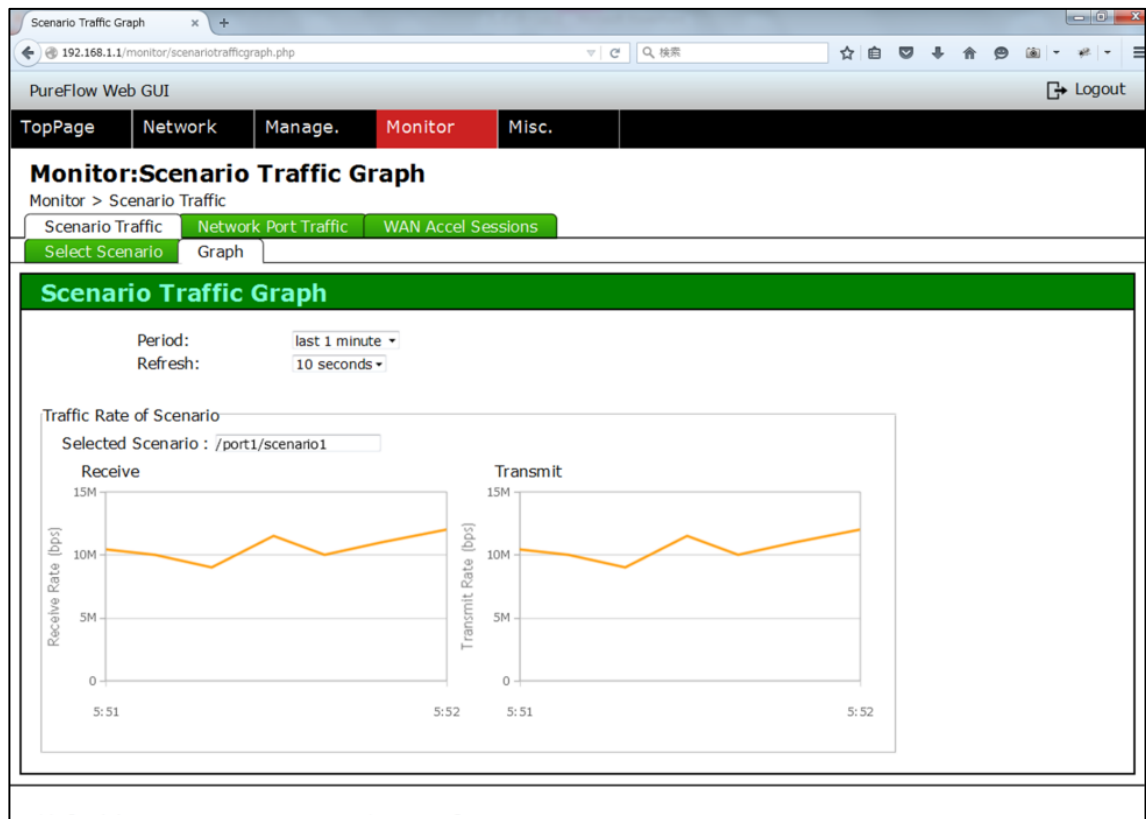
3

Operation Method

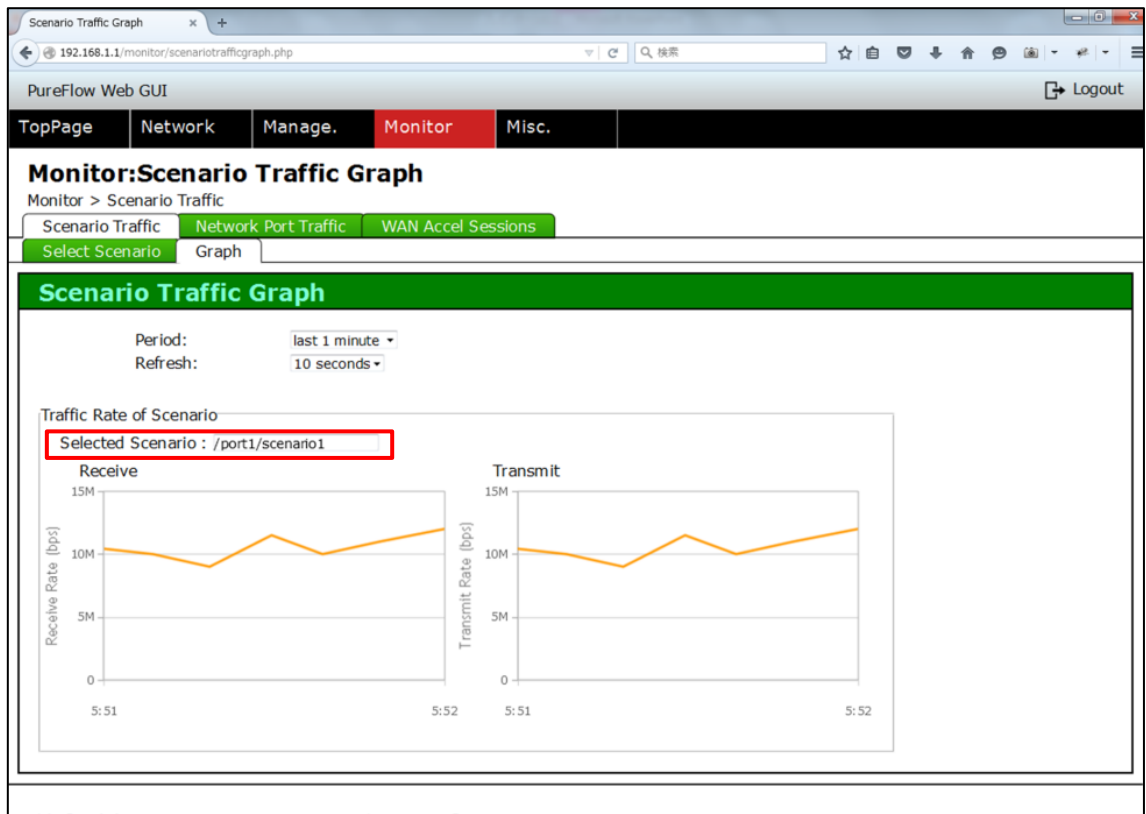
<2> select the relevant scenario, and <3> click the [Select] button.



Click the [Graph] tab of the "Scenario Traffic" window.
The transmit / receive traffic graph appears as shown below.

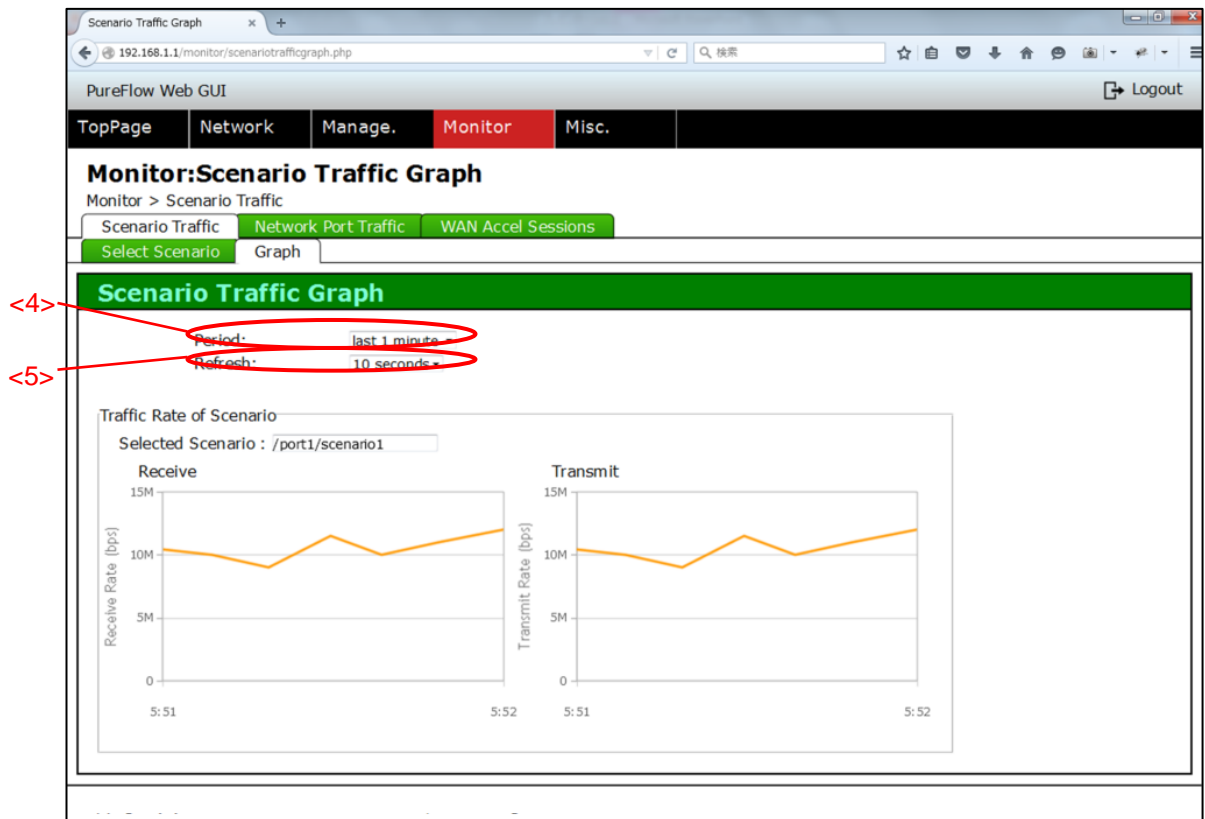


Check that the scenario has been changed as shown below.



<4> Range of the graph can be changed in “Period”.

<5> Period of the graph can be changed in “Refresh”.



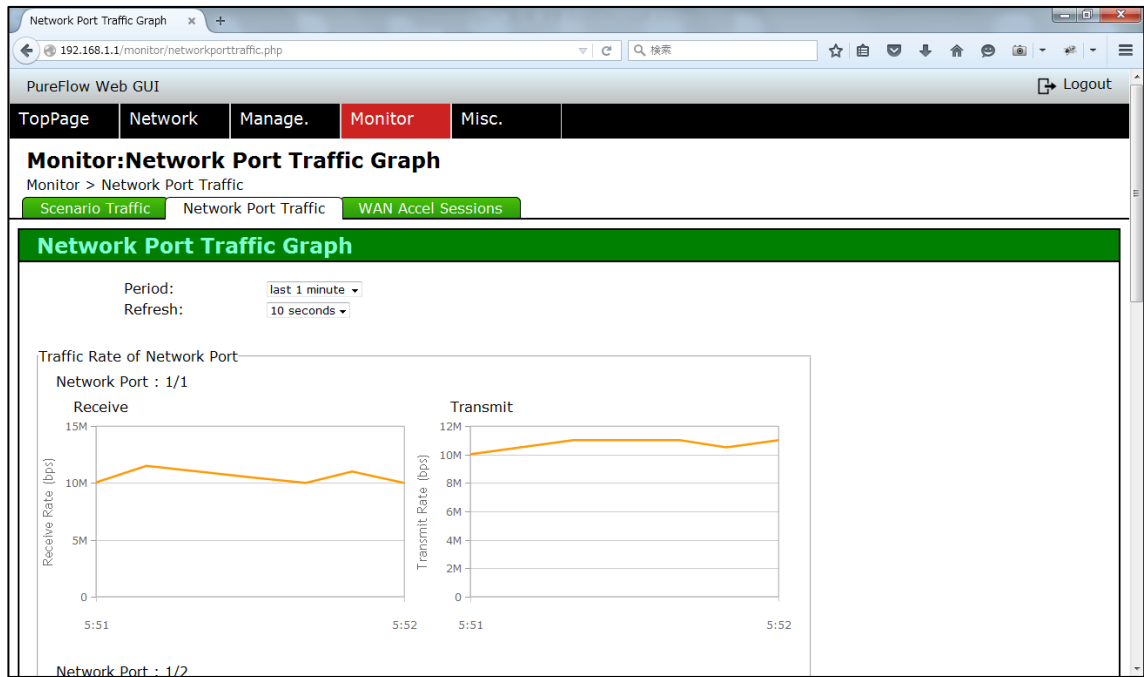
3.14 How to Display Traffic Graph of Network Port

Display the traffic graph of network port.

Place the mouse cursor on the [Monitor] tab at upper left of the screen.

The pull-down menu of the Monitor menu appears. Click the [Network Port Traffic] tab.

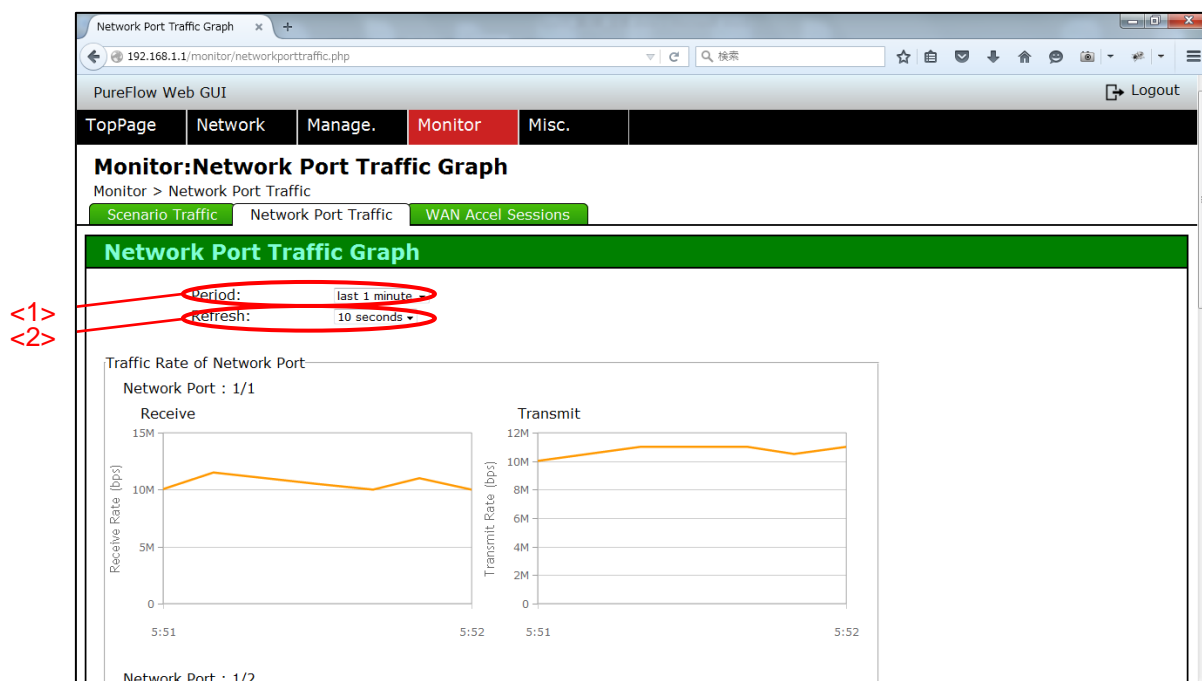
The Network Port Traffic graph screen appears as show below.



The transmit / receive traffic graph of network port in the "Network Port Traffic" window.



- <1> Range of the graph can be changed in “Period”.
- <2> Period of the graph can be changed in “Refresh”.



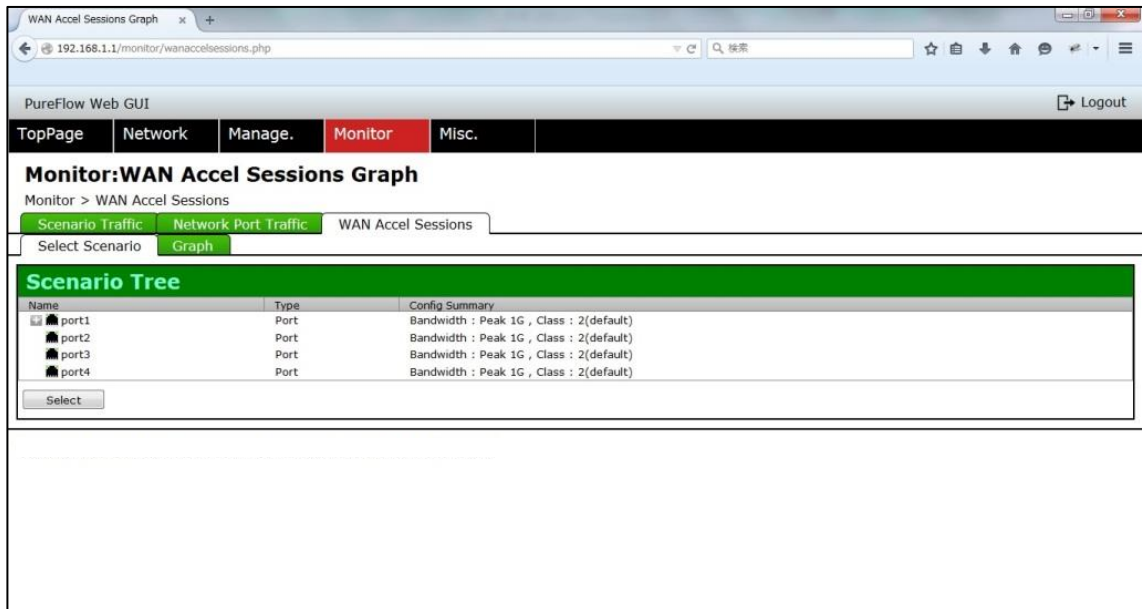
3.15 How to Display WAN-accel Sessions Graph

Display the WAN-accel sessions graph.

Place the mouse cursor on the [Monitor] tab at upper left of the screen.

The pull-down menu of the Monitor menu appears. Click the [WAN Accel Sessions] tab.

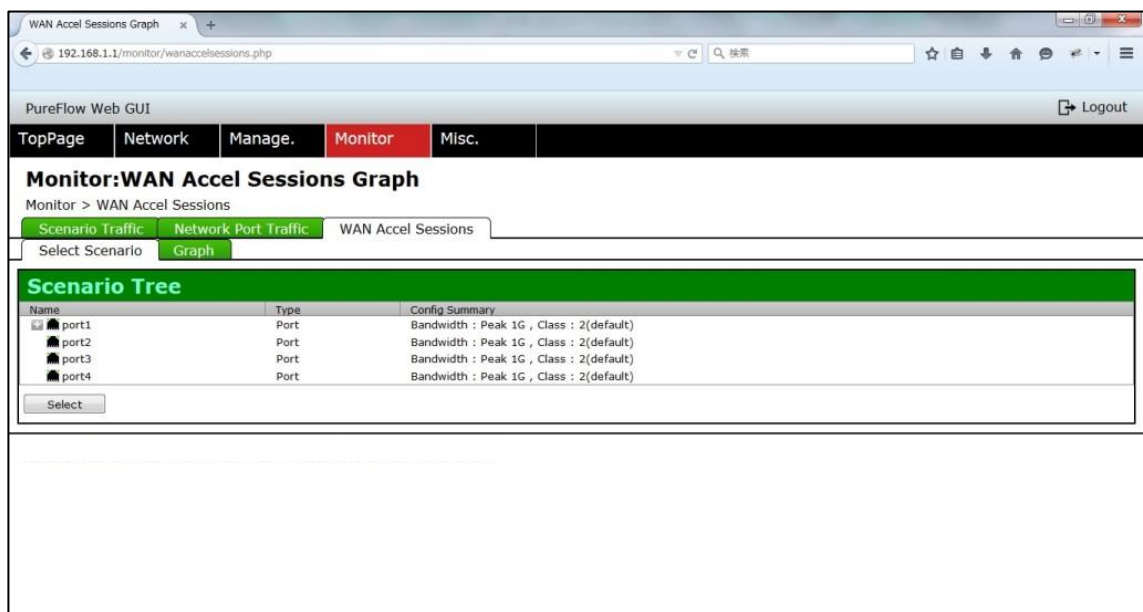
The WAN accel sessions graph screen appears as show below.



First, select the scenario to display the graph.

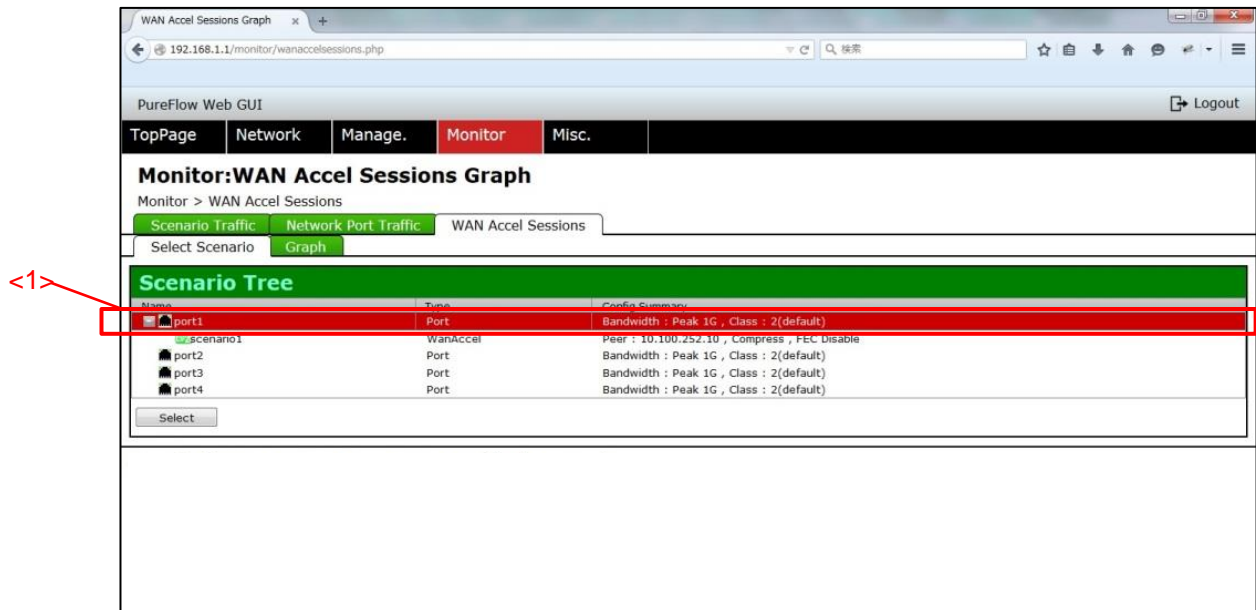
Click the [Select Scenario] tab of the "WAN Accel Sessions" window.

The scenario selection screen appears as show below.

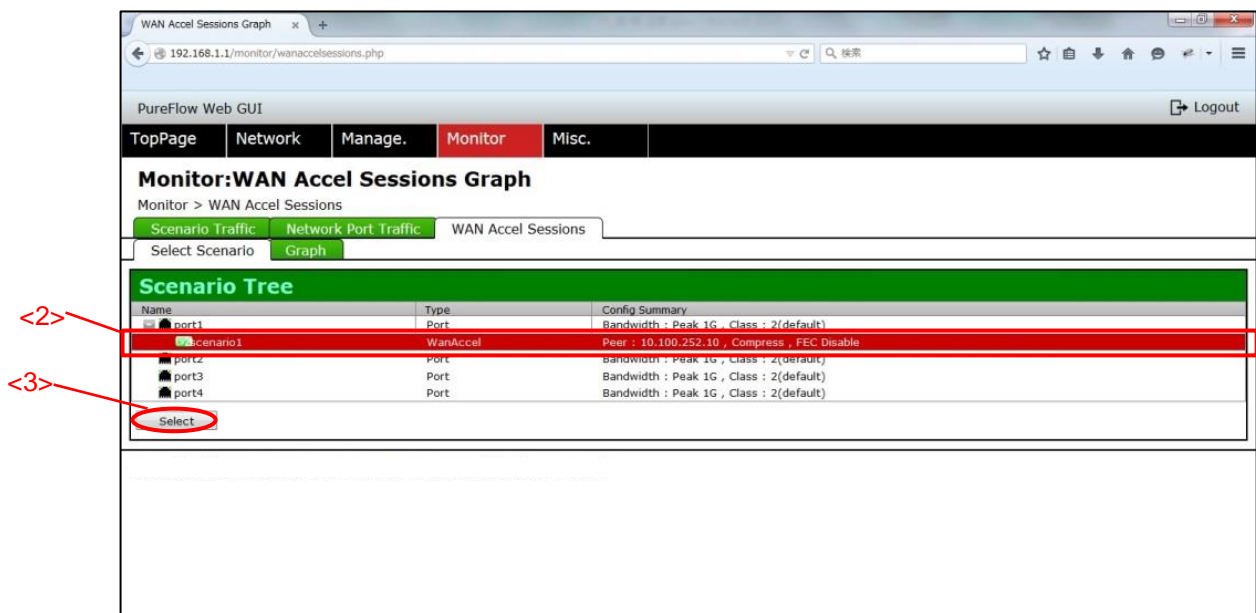


As an example, procedure for selecting a scenario on the 2nd layer for port1 is described below.

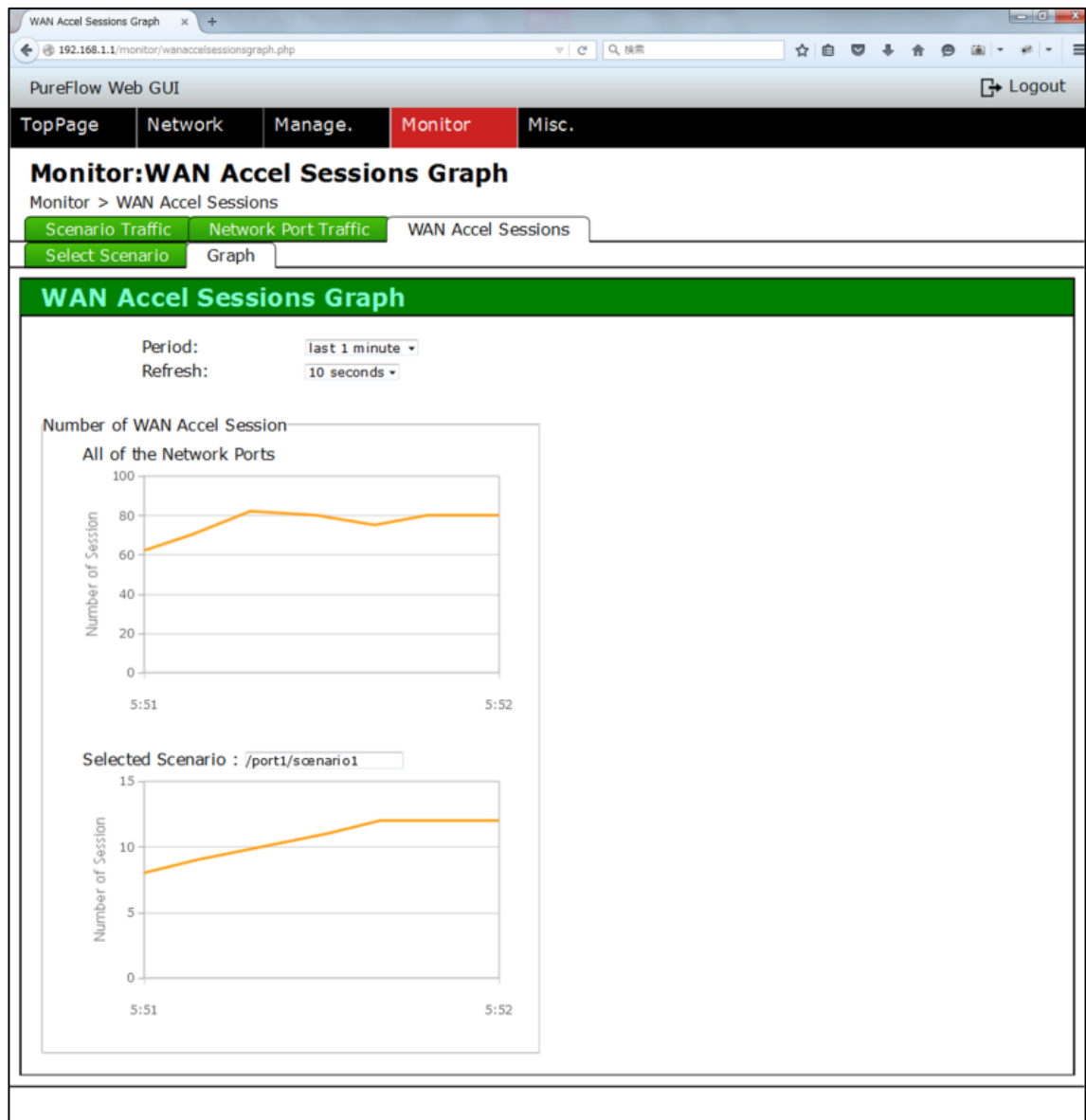
<1> Select "port1" in the "Scenario Tree" window, and click the [+] button in gray displays the scenarios on the 2nd layers.



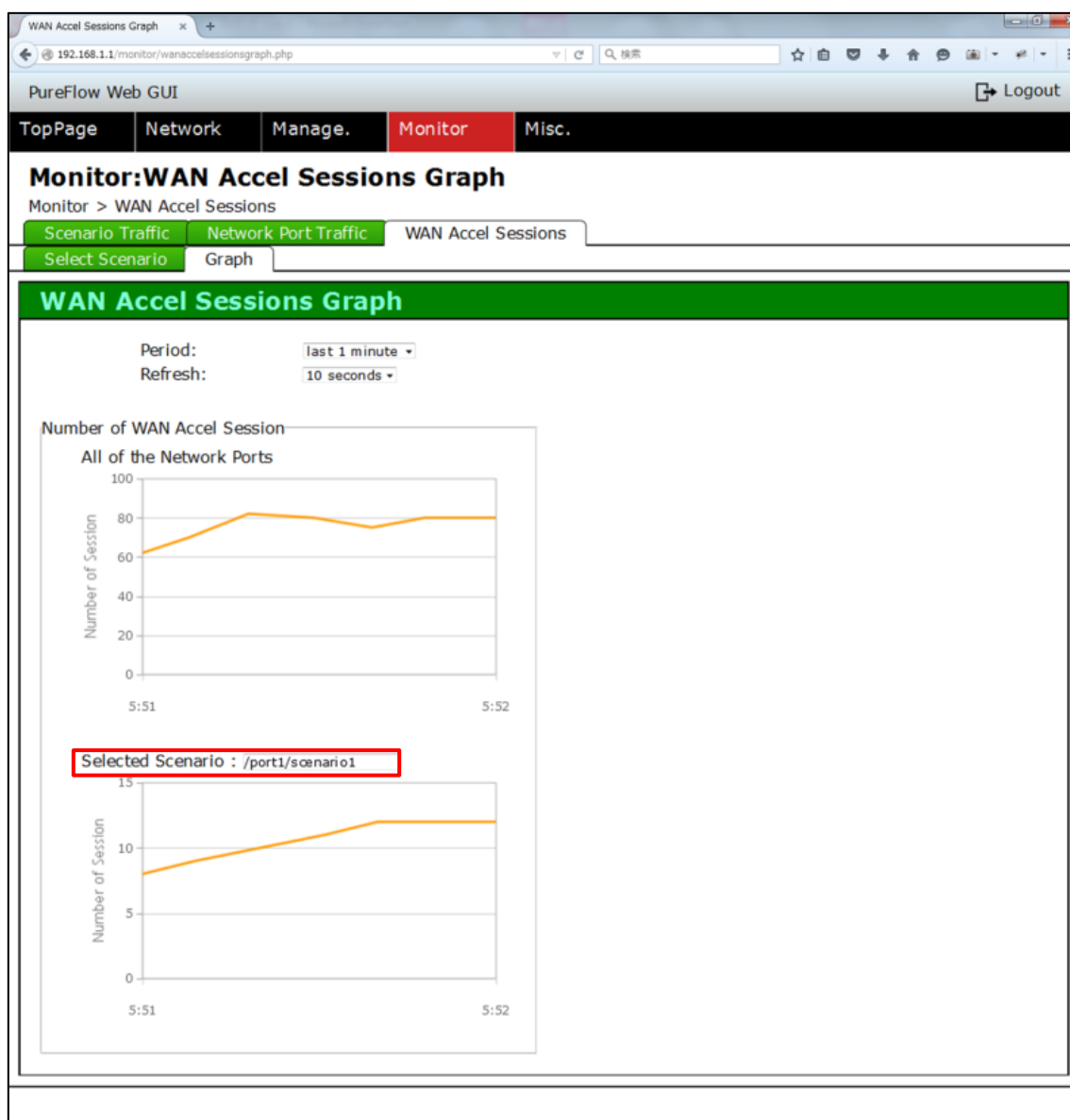
<2> select the relevant scenario, and <3> click the [Select] button.



Click the [Graph] tab of the "WAN Accel Sessions" window.
The WAN-accel sessions graph appears as shown below.

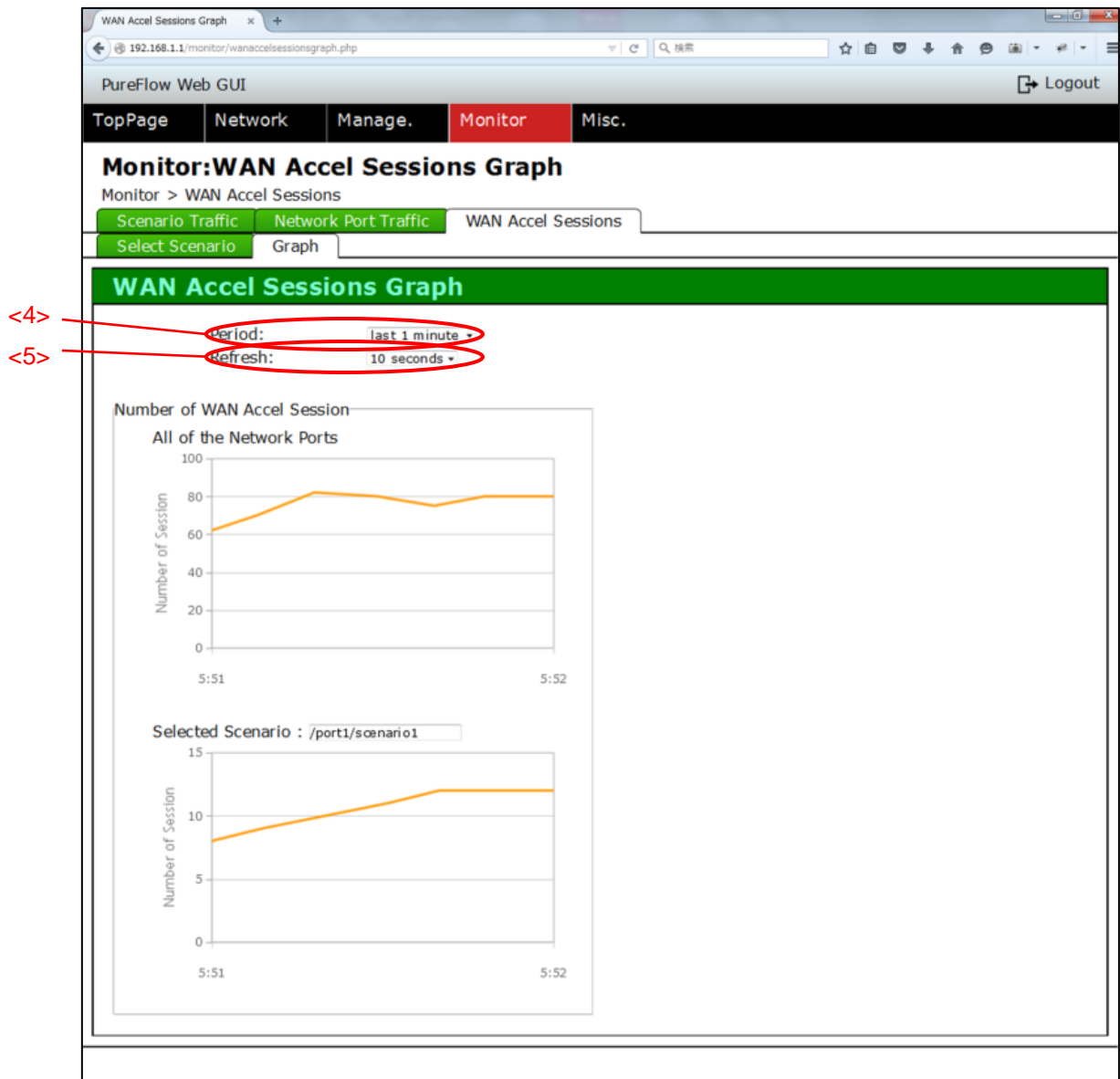


Check that the scenario has been changed as shown below.



<4> Range of the graph can be changed in “Period”.

<5> Period of the graph can be changed in “Refresh”.



3.16 How to Check and Save Configuration

3.16.1 How to check configuration

Display the non-default configuration information.

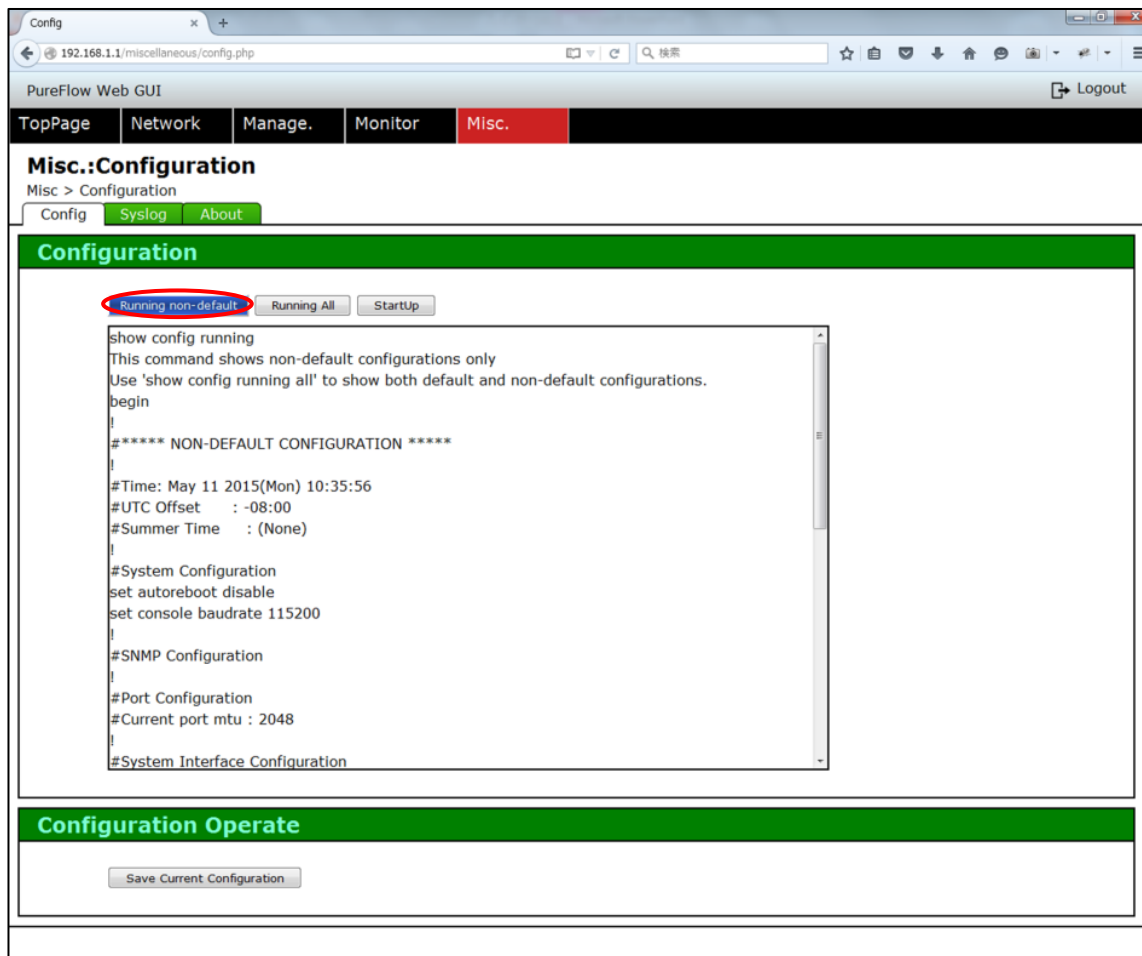
Place the mouse cursor on the [Misc] tab at upper left of the screen.

The pull-down menu of the Misc menu appears. Click the [Config] tab.

The Configuration screen appears.

Click the [Running non-default] button.

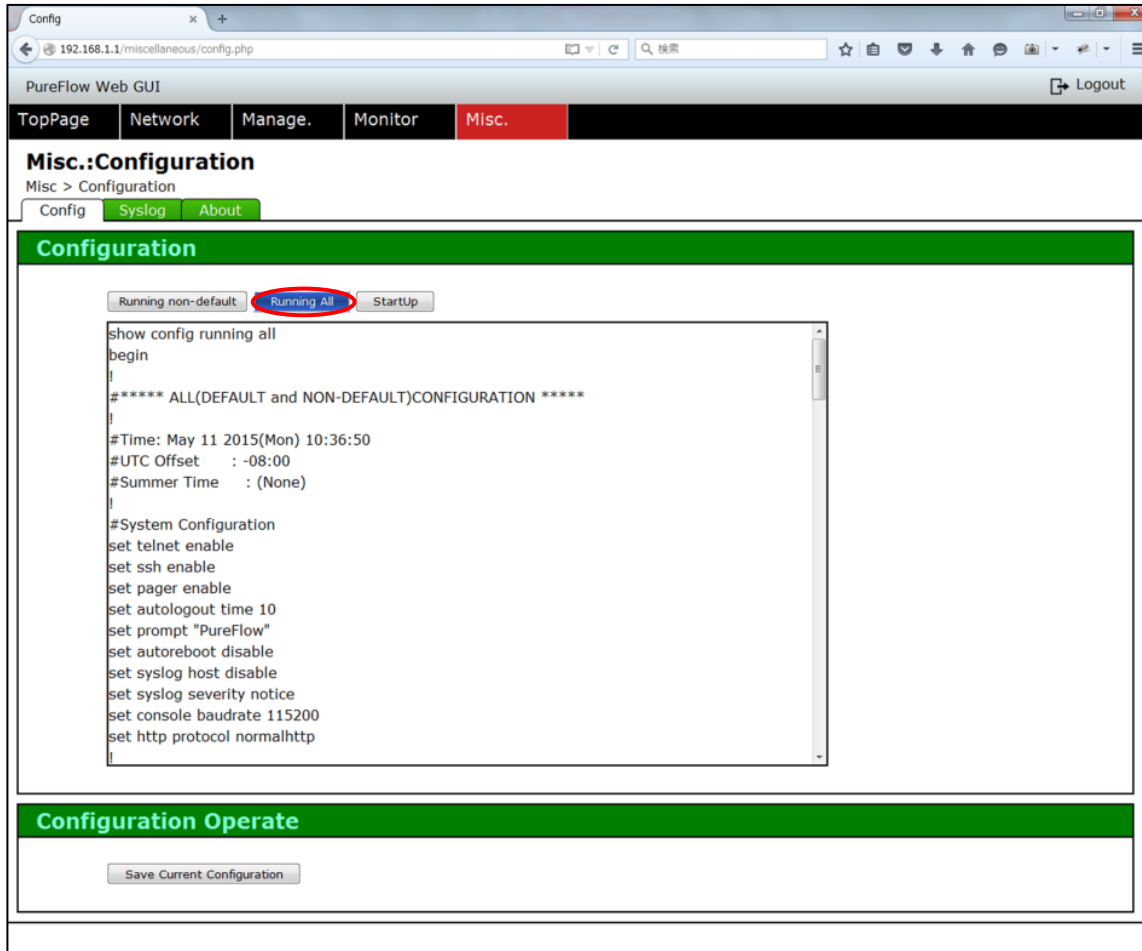
The non-default configuration information appears as show below.



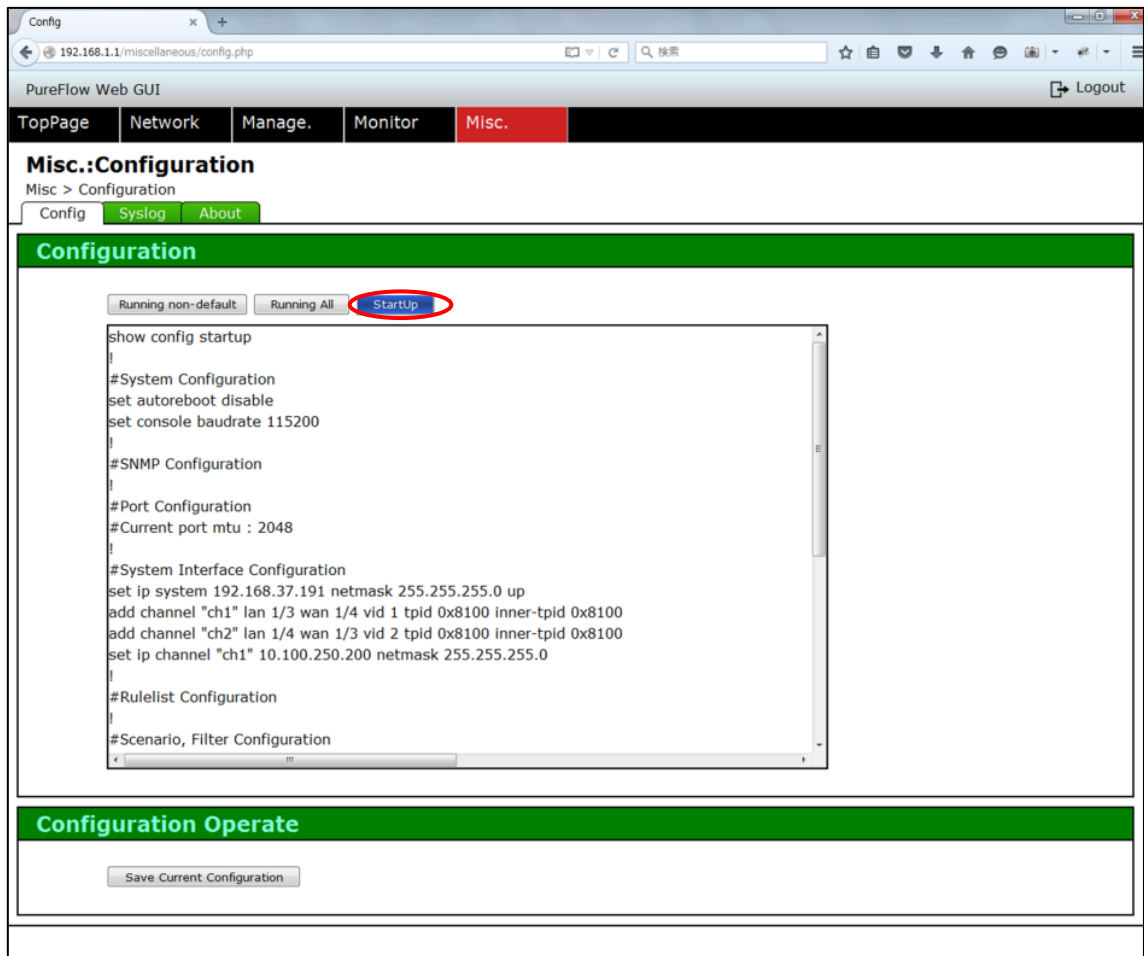
Display the default configuration information and non-default configuration information.

Click the [Running All] button on the Configuration screen.

The default configuration information and non-default configuration information appear as show below.



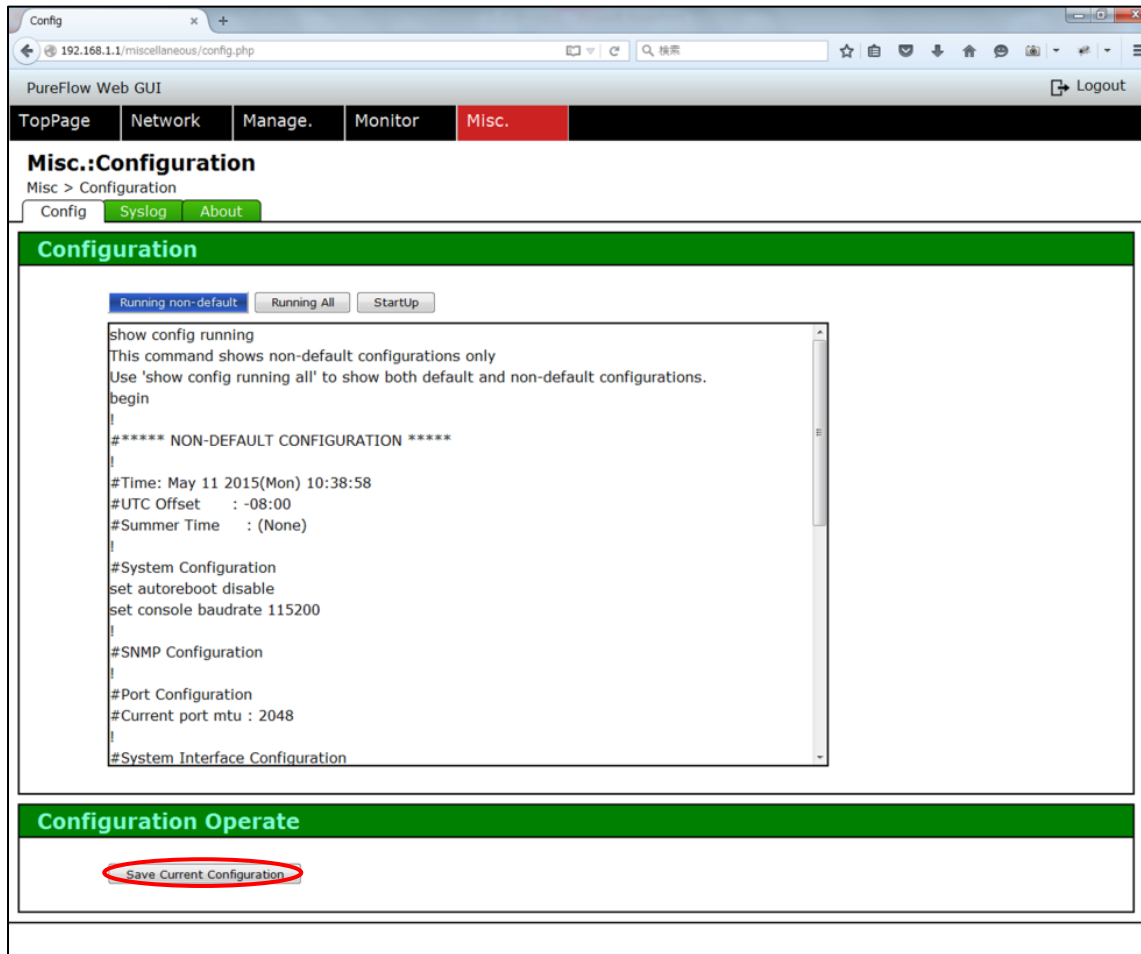
Display the configuration information at startup of the device.
Click the [StartUp] button on the Configuration screen.
The configuration information at startup of the device appears.



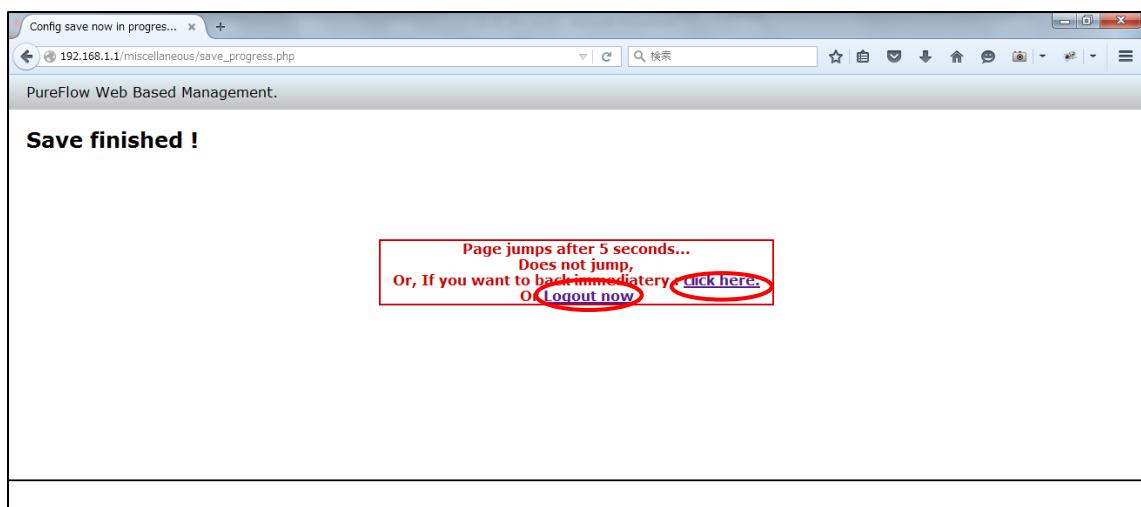
3.16.2 How to save configuration

Save the current configuration information in the internal memory.

Click the [Save Current Configuration] button at the bottom of the Configuration screen.



Check that the screen that shows the completion of saving appears as shown below.



When 5 seconds have elapsed or when clicking [click here], the Configuration screen appears again.

Clicking [Logout now] displays the login screen again.

3.17 How to Check System Log

Display the system log information at the current device operation.

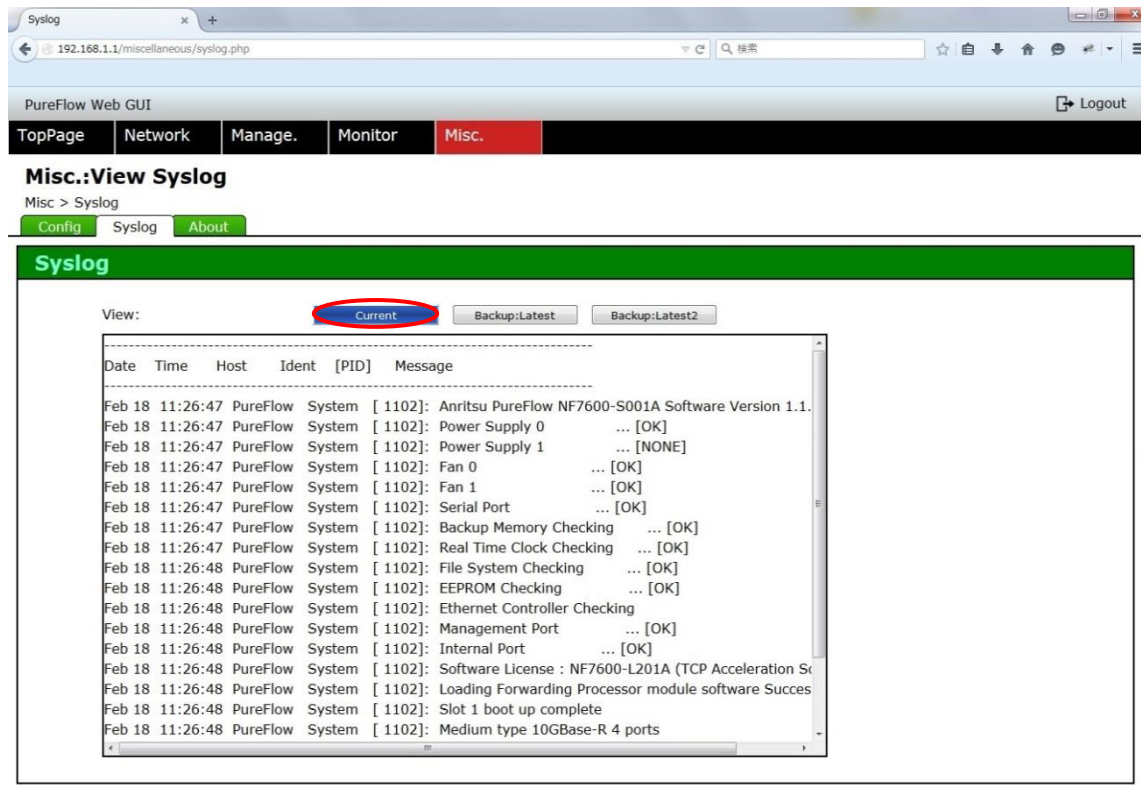
Place the mouse cursor on the [Misc.] tab at upper left of the screen.

The pull-down menu of the Misc. menu appears. Click the [Syslog] tab.

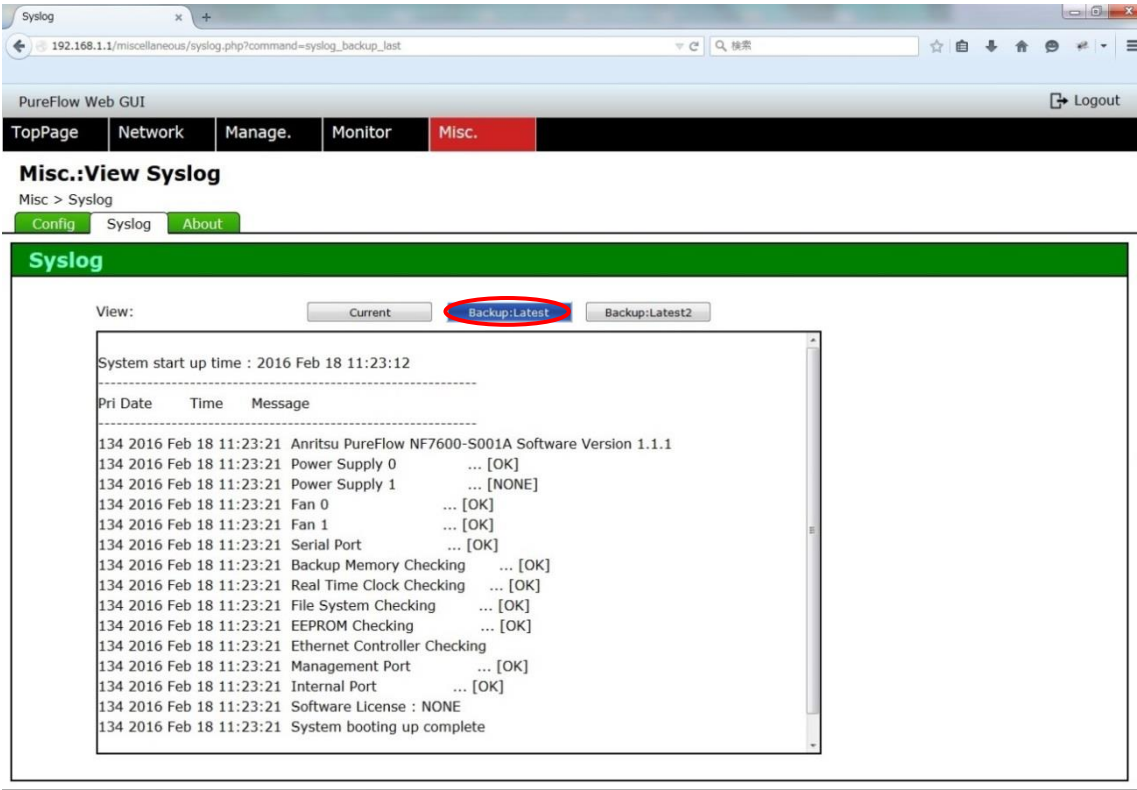
The View Syslog screen appears.

Click the [Current] button.

The system log information at the current device operation appears as shown below.



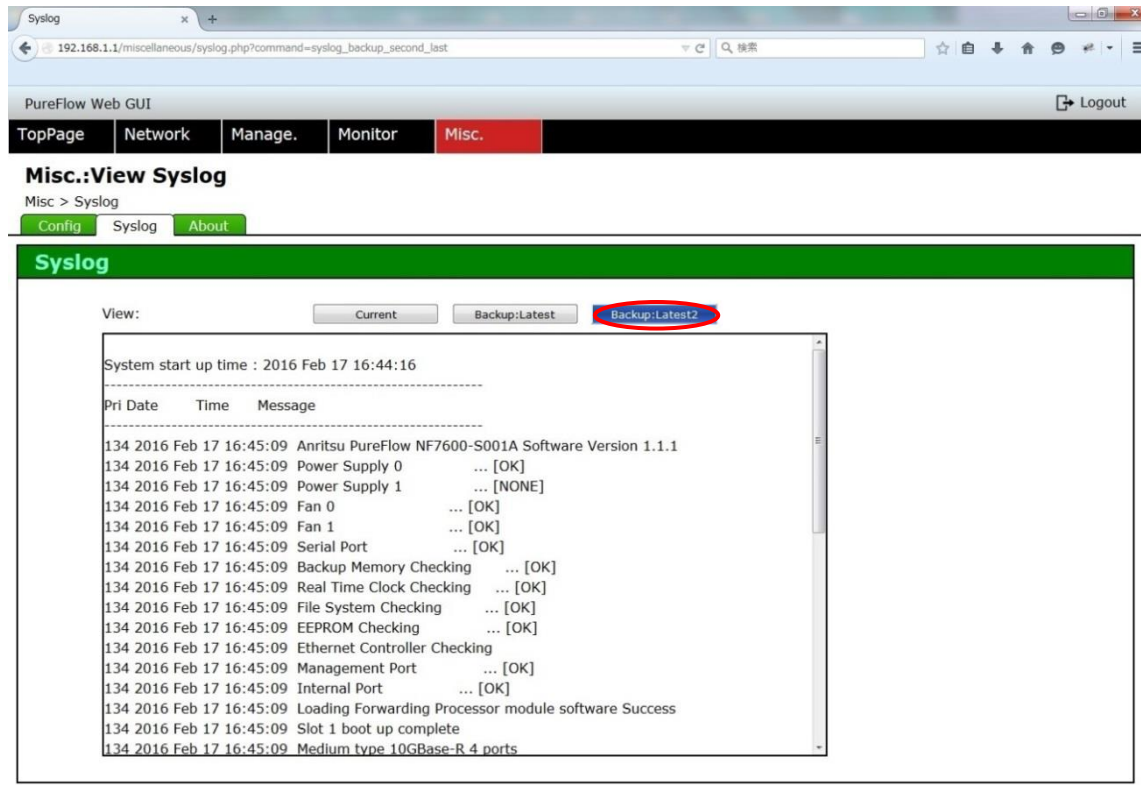
Display the system log information at the latest device operation.
Click the [Backup:Latest] button.
The system log information at the latest device operation appears as shown below.



Display the system log information at the last-but-one device operation.

Click the [Backup:Latest2] button.

The system log information at the last-but-one device operation appears as shown below.



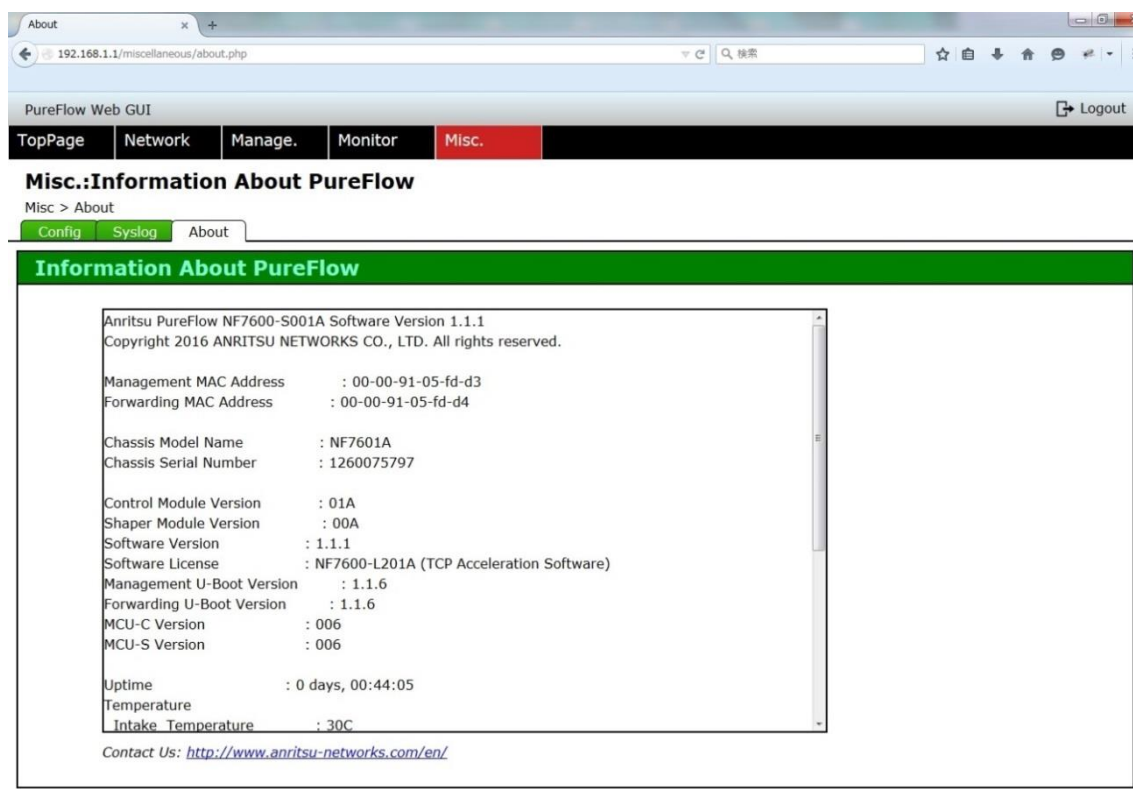
3.18 How to Check Module Information

Check the module information of this device.

Place the mouse cursor on the [Misc.] tab at upper left of the screen.

The pull-down menu of the Misc. menu appears. Click the [About] tab.

The module information appears as shown below.



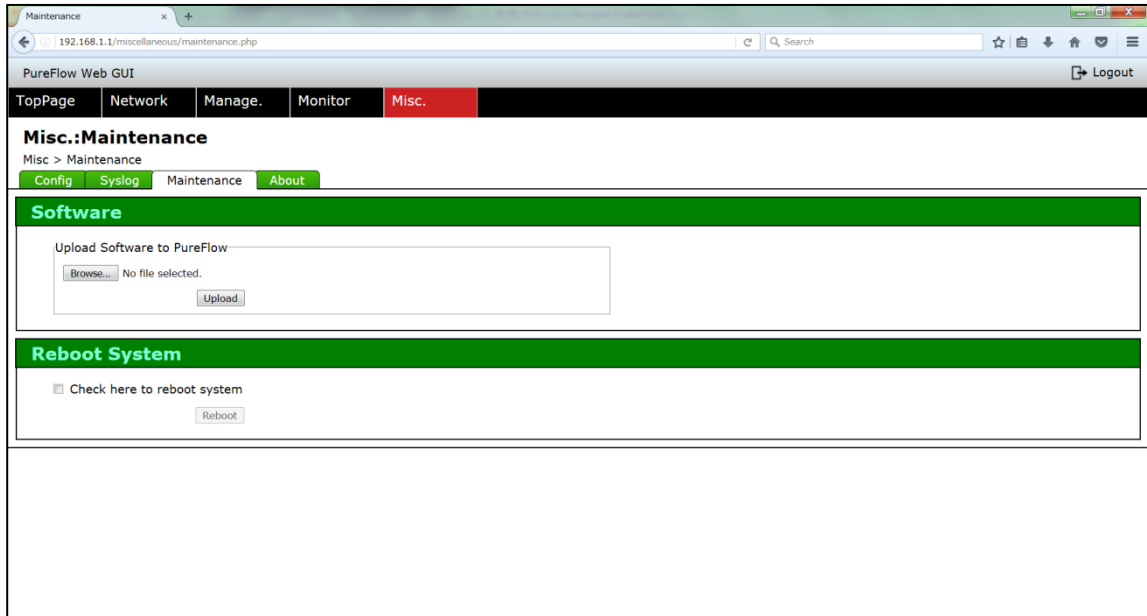
3.19 How to Perform Maintenance Operations

Perform maintenance operations on this device.

Place the mouse cursor on the [Misc.] tab on the upper left of the screen.

The pull-down menu of the Misc. menu appears. Click the [Maintenance] tab.

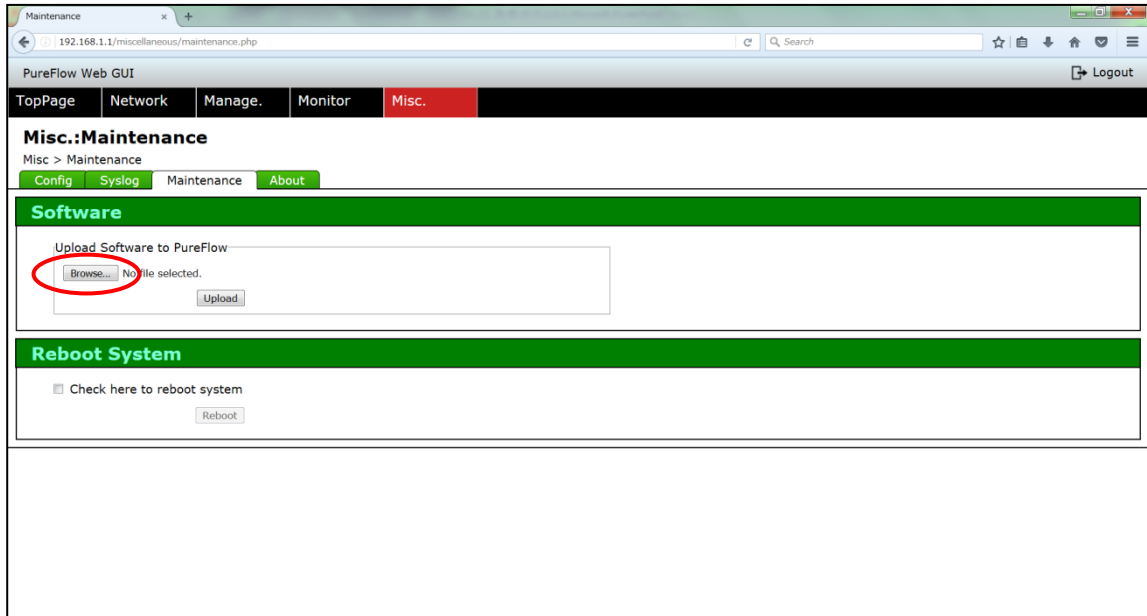
The Maintenance screen appears as shown below.



3.19.1 How to upload software

Upload new software (file name: nf7600.bin) to the device.

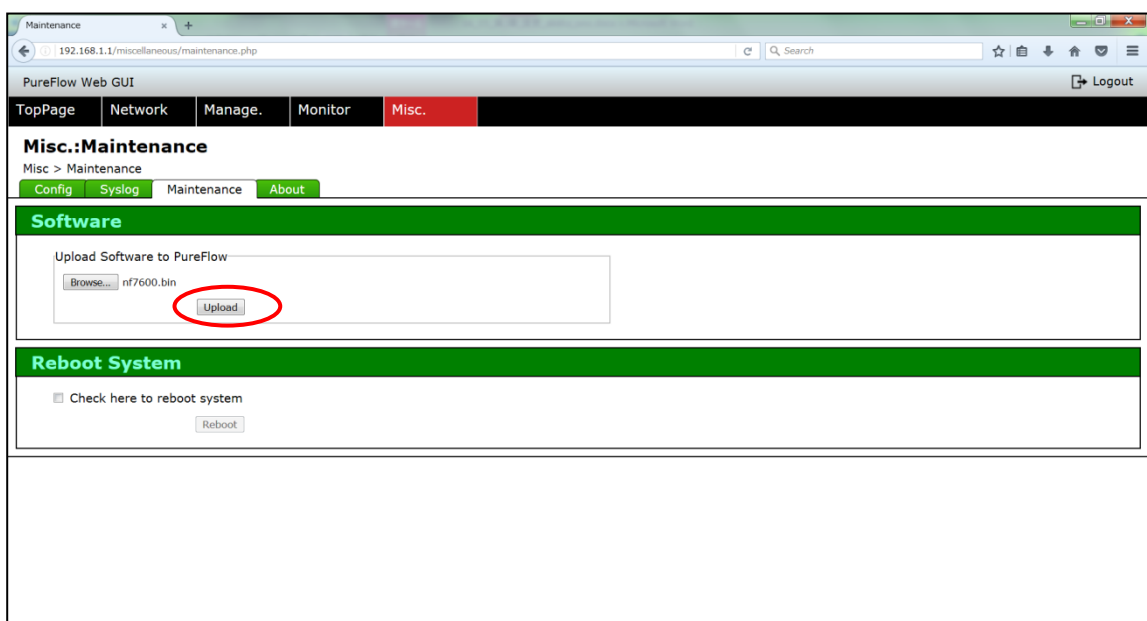
Click the [Browse] button in the [Software] window. A file selection window will open.



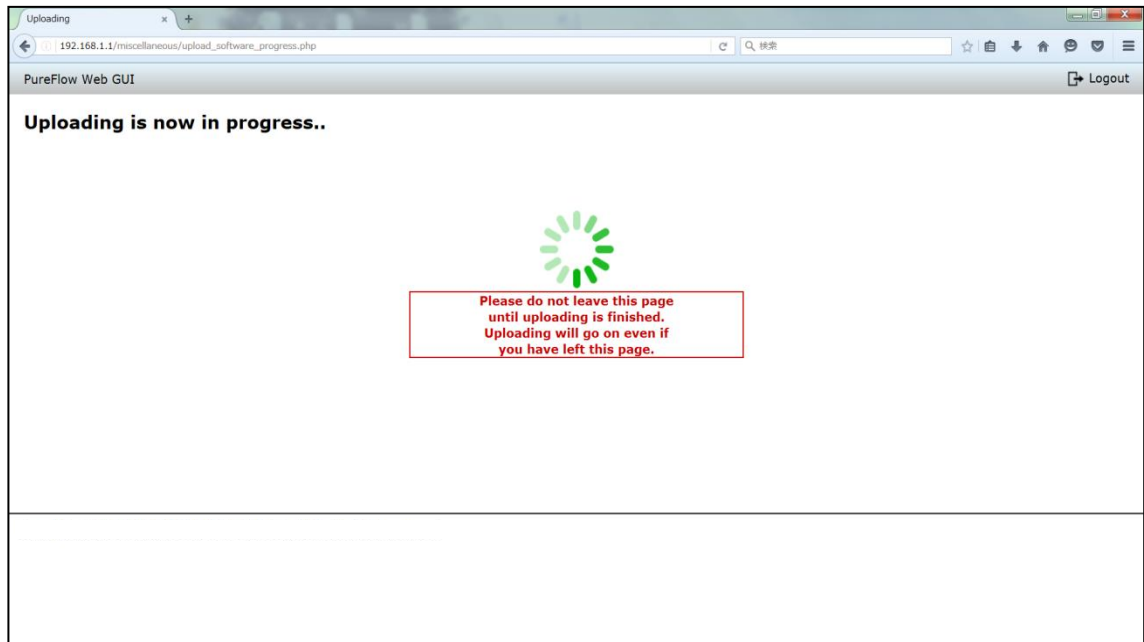
When a file is selected, the file name appears on the right of the [Browse] button.

Click the [Upload] button. The software will start being transferred to the device.

- * Do not perform an operation that moves you to another page while the software is being transferred. If you move to another page, you will need to upload the software again.



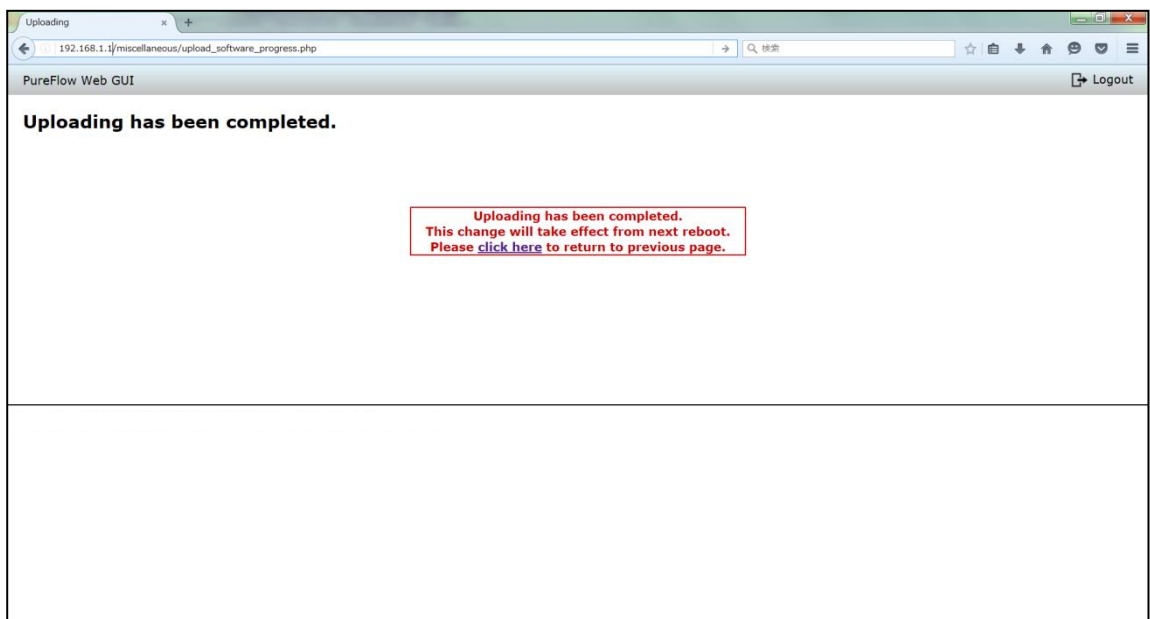
When transfer is complete, the following screen appears showing that the software is being uploaded.



Do not allow the power to the device to be turned off while upgrading is in progress.

If the power to the device is inadvertently turned off during the upgrade process, the previous software version saved in a separate area will be reloaded. In this case, reboot the device and upload the new software again.

When uploading is complete, the following message appears.



Click [\[click here\]](#) to return to the Maintenance screen.

Even after uploading is complete, the new software will not be immediately applied. Reboot the device to apply the uploaded software.

- * The device will not work if you upload software other than the genuine object file specified by Anritsu (file name: nf7600.bin). Before clicking the [Upload] button in the above procedure, make sure that the file is the genuine object file. If you have uploaded an incorrect file by accident, insert a CF card or USB drive containing the genuine object file, start the device, and download the genuine object file onto the device again.

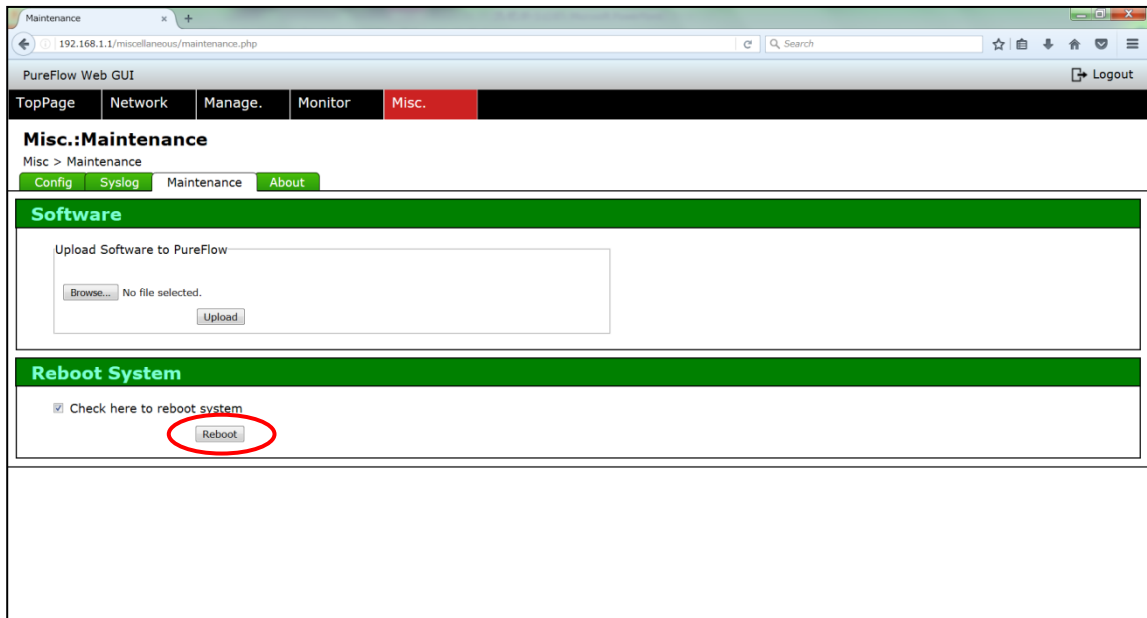
To obtain the genuine object file, contact the distributor where you purchased your device.

3.19.2 How to reboot the device

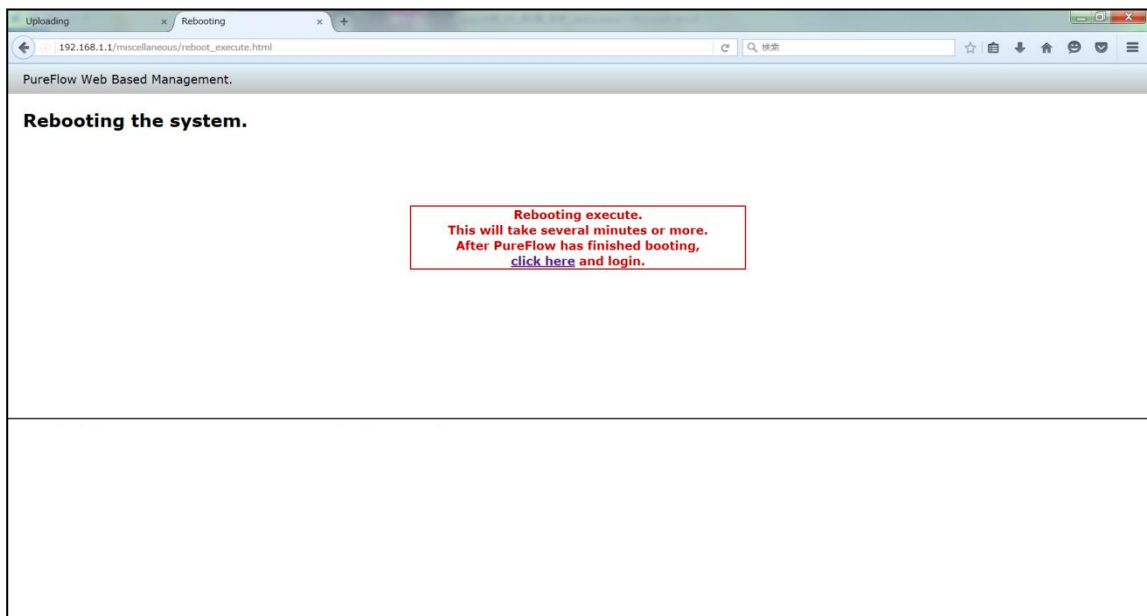
Reboot the device.

Selecting the check box in the Reboot System window enables the [Reboot] button.

Click the [Reboot] button to reboot the device.



The following screen appears showing that the device is being rebooted.



After the device is rebooted, open the Web browser and specify the IP address configured for the system interface. Once communication with the system is established, the login screen will open.

(Blank page)



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