

## Data Flow Controller DX-series Web UI

## Operation Manual

**DX100-0010**

**CPU Unit**



**V242-E1-03**

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# Data Flow Controller DX Series Web UI Operation Manual

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**None**

OMRON Corporation

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# 1. Introduction

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This manual describes how to operate Data Flow Controller DX Series Web UI. By utilizing Data Flow Controller, it is possible to collect data from equipment on the manufacturing floor and integrate it with other systems.

## 1.1 Intended Audience

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This manual is intended for the following users.

- Those who manage this Controller
- Those who actually configure and operate this Controller

## 1.2 Safety Precautions

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The following functions allow changes to this Controller's network settings and system information. As a result, these changes may affect the behavior of installed applications and connected equipment.

Before using these functions, ensure that you thoroughly consider and verify any equipment impact.

## 2. Initial Setup Procedure

---

This section describes the initial setup procedure for introducing Data Flow Controller.

### 2.1 First Login

---

DFCadmin is the user registered by default in Data Flow Controller. The default set values for the DFCadmin user are as follows.

Item	Description
Login ID	DFCadmin
Permissions	Administrator
Password	omron

1. On the login screen, enter DFCadmin for id and omron for password, and press Login.

### 2.2 Initial Setup

---

After the first login, configure the settings on the initial setup screen.

The initial setup items are as follows.

Item	Description
Activate	Enter the activation code. for activating the product.
Change Initial Password	Change the password of the default user.
System Time Settings	Set the system time of the Controller.

**Data Flow Controller Initial Setup** Global - English ▾

**Activate**

Activation Code \*

**Update Initial Password**

New Password \*

New Password (Re-enter) \*

**System Time Settings**

Apply time zone settings to data collection

Time Zone \*

Get Current Time

Date & Time \*

[Terms of Use](#) : Agree to the Terms of Use and start using

## 2.2.1 Activate

Activate the product.

1. In the Serial No field under Activate, enter the serial No.

**Activate**

Activation Code \*

## 2.2.2 Change Initial Password

Change the DFCadmin user's password from the default set value.

1. In the New Password and New Password (re-enter) fields under Update Initial Password, enter a desired password different from the one used during the first login.

**Update Initial Password**

New Password \*

New Password (Re-enter) \*

## 2.2.3 System Time Settings

Set the system time.

### Select Time Zone

1. Select the desired time zone from Time Zone in the System Time Settings field.

By turning on the Apply time zone settings to data collection check box, you can apply the same time zone to the data collection time.  
a) If the check box is turned off, UTC will be applied to the data collection time zone.

### Set Time Manually

1. Enter the system time in Date & Time.

By turning on the Get Current Time checkbox, you can set the current date and time in Date & Time.

- a) The browser time will be set in Date & Time and will be updated automatically.
- b) The system time of the Controller will be set to the browser time at the time of pressing the Save button.

**System Time Settings**

Apply time zone settings to data collection

Time Zone +  
Tokyo·Osaka·Sapporo (UTC+09:00) ▾

Get Current Time

Date & Time +  
yyyy/mm/dd --:--:-- 📅

## 2.2.4 Save Initial Setup

1. After reviewing the Terms of Use, check the Agree to the terms of use and start using box.
2. Press the Save button.

**Data Flow Controller Initial Setup** 🌐 Global - English ▾

**Activate**

Activation Code +  
001o

**Update Initial Password**

New Password +  
●●●●●● 👁

New Password (Re-enter) +  
●●●●●● 👁

**System Time Settings**

Apply time zone settings to data collection

Time Zone +  
Tokyo·Osaka·Sapporo (UTC+09:00) ▾

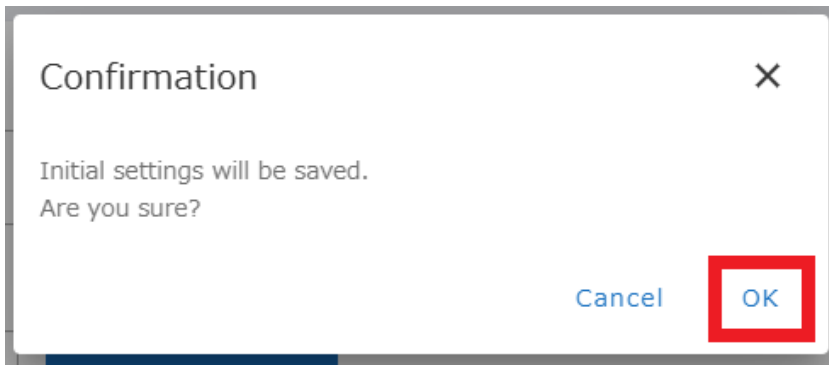
Get Current Time

Date & Time +  
2026/04/15 14:10:31 📅

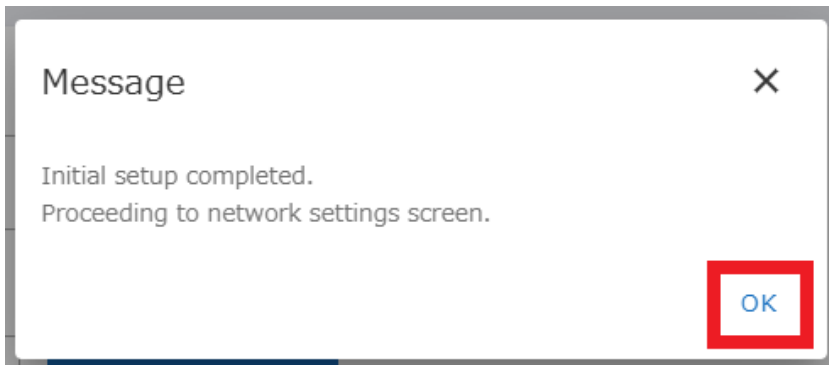
[Terms of Use](#) : Agree to the Terms of Use and start using

**Save**

3. In the confirmation dialog, press the OK button.



4. In the message dialog, press the OK button.



5. You will be navigated to the Network Settings screen. Refer to [Network Settings](#) and configure the network settings for this Controller.

The screenshot shows the "Data Flow" management interface. The left sidebar contains a menu with "Network Settings" selected. The main content area is titled "Interface List" and shows a table with the following data:

Interface Name	Status	IP Address	Actions
eth0	up	192.168.1.100	<a href="#">Update</a>

At the top of the interface, there are tabs for "Interface List", "TCP/IP Settings", "DNS Settings", "mDNS Settings", and "Proxy Settings". The "Interface List" tab is active. The top right of the interface shows the user "DFCAdmin Administrator" and the language "Global - English".

 **Note**

After completing the initial setup, the Controller operates in setup mode. setup is the mode for changing the settings of the Controller. It is not the mode for running applications.

To run applications, you need to change the operating mode to operating mode. To change to operating mode, refer to [Mode Settings](#) and change the operating mode.

Alternatively, by restarting, it will start in operating mode from the next time onward. To restart, refer to [Restart](#) and perform the restart.

## 3. Description of Various Functions

---

### 3.1 Description of Various Functions

---

This section describes various functions.

The contents are as follows.

1. [Overview of Web UI Functions](#)
2. [Mode Settings](#)
3. [Monitoring](#)
4. [Application Management](#)
5. [Utility Management](#)
6. [Account Management](#)
7. [System Settings](#)
8. [System Information](#)
9. [Shutdown Management](#)
10. [REST API](#)

## 3.2 Overview of Web UI Functions

---

This section describes the overview of the Web UI.

### 3.2.1 Web UI Functions List

---

The Web UI provides the screen of Data Flow Controller that the user operates.

The Web UI provides the following functions.

Item	Description
Mode Settings	<p>Provides the following functions to set the operating mode of Data Flow Controller.</p> <ul style="list-style-type: none"> <li>• Displaying the operating mode</li> <li>• Setting the operating mode</li> </ul> <p>Refer to <a href="#">Mode Settings</a> for details.</p>
Monitoring	<p>You can monitor the load status of Data Flow Controller.</p> <p>Provides the following functions for reviewing the SpeedBee Synapse/Grafana/dashboard generator settings and determining the USB memory replacement timing.</p> <ul style="list-style-type: none"> <li>• Viewing the CPU, memory, and network usage</li> <li>• Viewing the storage usage status</li> </ul> <p>Refer to <a href="#">Monitoring</a> for details.</p>
Application Management	<p>Provides the following functions for managing applications.</p> <ul style="list-style-type: none"> <li>• Viewing the application information</li> <li>• Viewing the application logs</li> </ul> <p>Refer to <a href="#">Application Management</a> for details.</p>
Utility Management	<p>Provides the following functions necessary for system operation.</p> <ul style="list-style-type: none"> <li>• Viewing the logs</li> <li>• Managing the USB memory for application data storage</li> <li>• Managing the certificates and keys for enhanced security, and configuring TLS for reverse proxy using them</li> </ul> <p>Refer to <a href="#">Utility Management</a> for details.</p>
Account Management	<p>Provides the following functions for managing user accounts.</p> <ul style="list-style-type: none"> <li>• Adding/Deleting user accounts</li> <li>• Changing user account roles</li> <li>• Resetting user account passwords</li> </ul> <p>Refer to <a href="#">Account Management</a> for details.</p>
System Settings	<p>System Settings provides the following functions.</p> <ul style="list-style-type: none"> <li>• Configuring the network settings</li> <li>• Setting the time</li> <li>• Updating the firmware</li> </ul> <p>Refer to <a href="#">System Settings</a> for details.</p>
System Information	<p>Provides the following information related to Data Flow Controller.</p> <ul style="list-style-type: none"> <li>• Production Information</li> <li>• System Information</li> <li>• License Information</li> </ul> <p>Refer to <a href="#">System Information</a> for details.</p>
Shutdown Management	<p>Shutdown Management provides the following functions.</p> <ul style="list-style-type: none"> <li>• System shutdown</li> <li>• Restart</li> </ul> <p>Refer to <a href="#">Shutdown Management</a> for details.</p>
REST API	<p>Provides the following functions for operating Data Flow Controller from an external system.</p> <ul style="list-style-type: none"> <li>• REST API</li> </ul> <p>Refer to <a href="#">REST API</a> for details.</p>

**Data Flow**

**Monitoring** setup DFCadmin Administrator Global - English

- Monitoring
- Applications
- Application Management
- Utility
- Log Management
- Certificate & Key Management
- USB Port Management
- Reverse Proxy Settings
- Account Settings
- User Management
- System Settings
- Network Settings
- Date & Time
- Firmware
- System Information

**CPU Usage**

CPU Usage **9.56%**

**Memory Usage**

Total: 3.73GB  
Used: 0.52GB  
Free: 2.27GB  
Cache: 0.89GB

Memory Usage **14.06%**

**Storage**

/dev/mmcblk0 normal

/dev/sda unsupported

/dev/sda1  
Capacity **0.00GB / 0.00GB**  
Read: 0.00MB Write: 0.00MB

Change Password  
Shutdown  
Restart  
Logout

## 3.3 Mode Settings

---

This section describes the mode settings.  
The displayed items are as follows.

Item	Description
Mode Display	Displays the current operating mode.
Mode Setting	Sets the operating mode.




### 3.3.1 Mode Display

---

Displays the operating mode of the controller.  
The displayed items are as follows.

Item	Description
setup	The setup state.
operating	The operating state. Indicates that the application is running.




### 3.3.2 Mode Setting

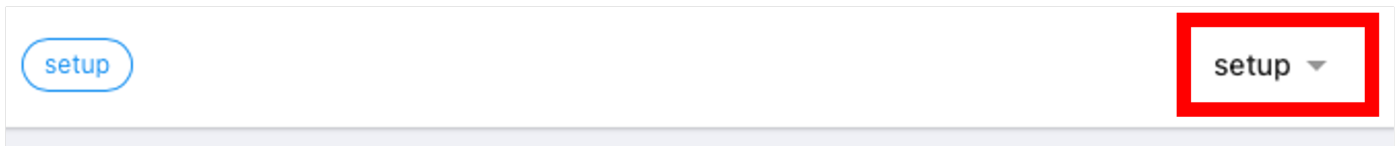
---

Sets the operating mode of the controller.

### Mode Setting Method

Follow these steps to set the operating mode.

1. Press the Mode Setting button displayed on the right side of the header.



2. From the list of displayed items, select the mode you want to set.

\*In this example, the mode is being changed from setup to operating.



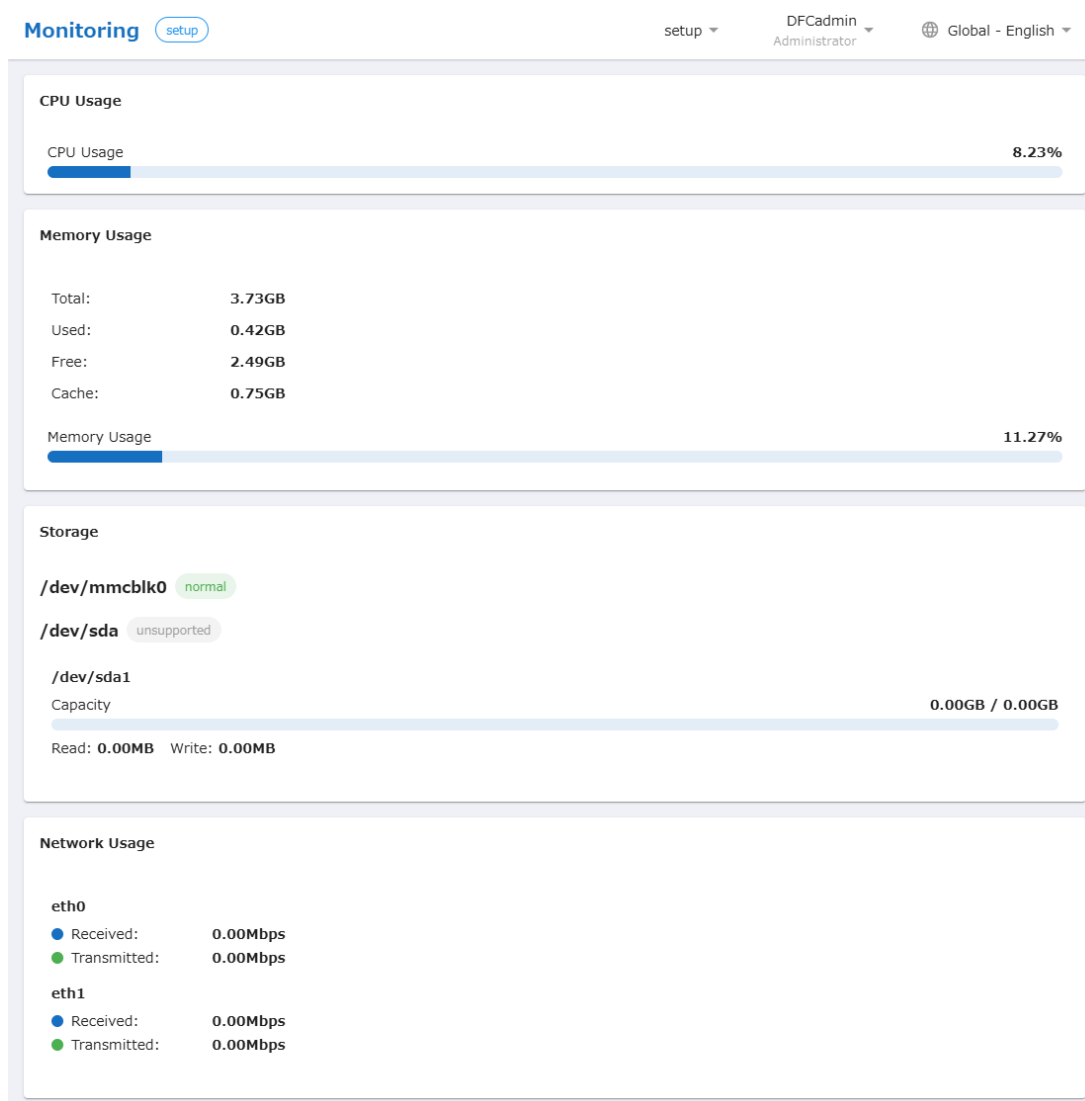
## 3.4 Monitoring

This section describes the monitoring.

Monitoring items are retrieved every 5 seconds and displayed on the screen.

The monitoring items are as follows.

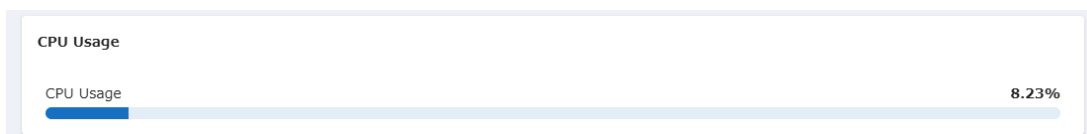
Item	Description
CPU Usage	Displays the CPU usage status of the Controller.
Memory Usage	Displays the memory usage status of the Controller.
Storage	Displays the storage usage status of the Controller.
Network Usage	Displays the network usage status of the Controller.



### 3.4.1 CPU Usage

The following items can be monitored in the CPU usage display area.

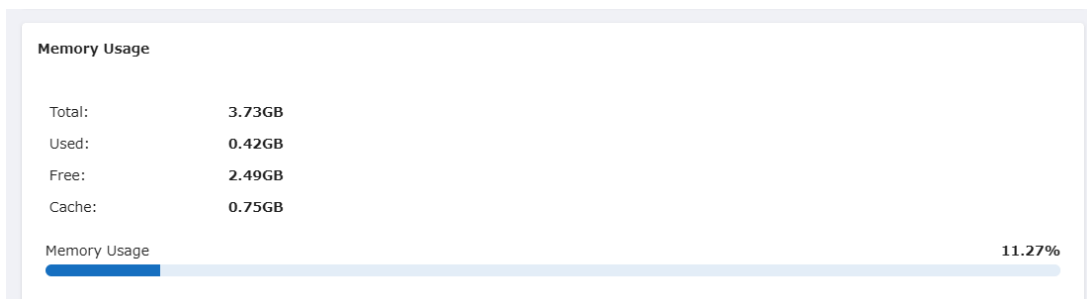
Item	Description
CPU Usage	Displays the CPU usage as a percentage and as a bar graph.



### 3.4.2 Memory Usage

The following items can be monitored in the memory usage display area.

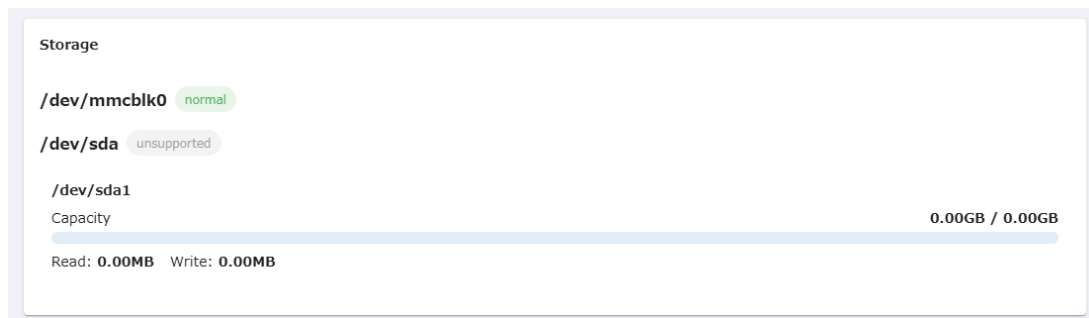
Item	Description
Total	Displays the total memory capacity.
Used	Displays the used memory capacity.
Free	Displays the free memory capacity.
Cache	Displays the memory cache usage.
Memory Usage	Displays the memory usage as a percentage and as a bar graph.



### 3.4.3 Storage

The following items can be monitored per disk or partition in the storage display area.

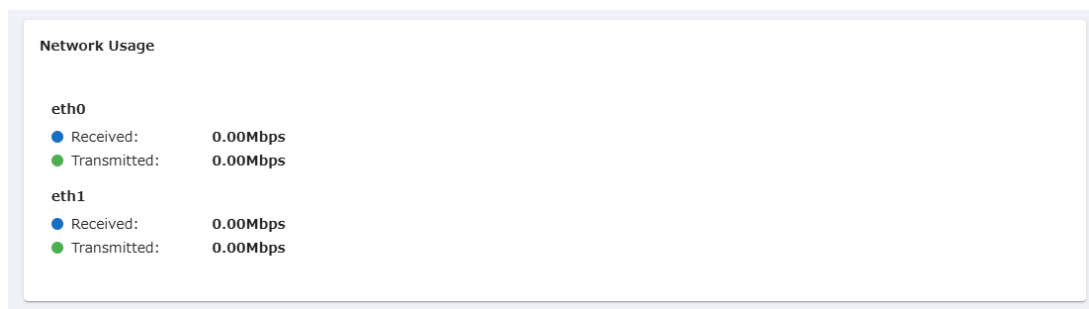
Item	Description
Health Status	Displays the Health status of the embedded ROM.
Capacity	Displays the usage and capacity of the target partition, and shows the capacity as a bar graph.
Read	Displays the read speed of the target partition.
Write	Displays the write speed of the target partition.



### 3.4.4 Network Usage

The following items can be monitored per physical interface in the network usage display area.

Item	Description
Received	Displays the receive speed of the target interface.
Transmitted	Displays the transmit speed of the target interface.



## 3.5 Application Management

This section describes the application management.  
The displayed items are as follows.

Item	Description
Application List	Displays a list of applications provided on the Controller.
Log Management	Display and download application logs.

Application Management operating operating DFCadmin Administrator Global - English

**Application List** Refresh

Status	Application Name	Version Info	Service	Action
running	/dashgen	dashboard-generator:release-20250822	Connect <a href="#">↗</a>	<span>View Logs</span> <span>Download Logs</span>
running	/grafana	grafana-oss:11.6.2r2s	Connect <a href="#">↗</a>	<span>View Logs</span> <span>Download Logs</span>
running	/synapse	speedbeesynapse:4.9.4-r0r2s	Connect <a href="#">↗</a>	<span>View Logs</span> <span>Download Logs</span>

**Log**

```

2025-09-10T06:57:59.972836840Z INFO: Started server process [1]
2025-09-10T06:57:59.977550760Z INFO: Waiting for application startup.
2025-09-10T06:57:59.989067080Z resources sub directory created
2025-09-10T06:57:59.992192280Z INFO: Application startup complete.
2025-09-10T06:58:00.003455240Z INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)

```

### 3.5.1 Application List

Displays a list of applications provided on this Controller.  
The displayed items are as follows.

Item	Description
Refresh button	Operation button to refresh and re-display the application list
Status	Displays the operating status.
Application Name	Displays the application name.
Version Information	Displays the version information.
Service	Connect link
Action	View Logs button, Download Logs button

Pressing the Connect link button opens a new browser tab for accessing the corresponding application.  
Pressing the View Logs button displays the target application log in the log display area. Pressing the Download Logs button downloads the target application log file.

Application Management operating operating DFCadmin Administrator Global - English

**Application List** Refresh

Status	Application Name	Version Info	Service	Action
running	/dashgen	dashboard-generator:release-20250822	<a href="#">Connect</a>	<a href="#">View Logs</a> <a href="#">Download Logs</a>
running	/grafana	grafana-oss:11.6.2r2s	<a href="#">Connect</a>	<a href="#">View Logs</a> <a href="#">Download Logs</a>
running	/synapse	speedbeesynapse:4.9.4-r0r2s	<a href="#">Connect</a>	<a href="#">View Logs</a> <a href="#">Download Logs</a>

**Log**

```

2025-09-10T06:57:59.972836840Z INFO: Started server process [1]
2025-09-10T06:57:59.977550760Z INFO: Waiting for application startup.
2025-09-10T06:57:59.989067080Z resources sub directory created
2025-09-10T06:57:59.992192280Z INFO: Application startup complete.
2025-09-10T06:58:00.003455240Z INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
    
```

### 3.5.2 Log Management

Displays the logs of the application selected from the Application List.

Item	Description
Log display area	Displays the contents of application logs.

Application Management operating operating DFCadmin Administrator Global - English

**Application List** Refresh

Status	Application Name	Version Info	Service	Action
running	/dashgen	dashboard-generator:release-20250822	<a href="#">Connect</a>	<a href="#">View Logs</a> <a href="#">Download Logs</a>
running	/grafana	grafana-oss:11.6.2r2s	<a href="#">Connect</a>	<a href="#">View Logs</a> <a href="#">Download Logs</a>
running	/synapse	speedbeesynapse:4.9.4-r0r2s	<a href="#">Connect</a>	<a href="#">View Logs</a> <a href="#">Download Logs</a>

**Log**

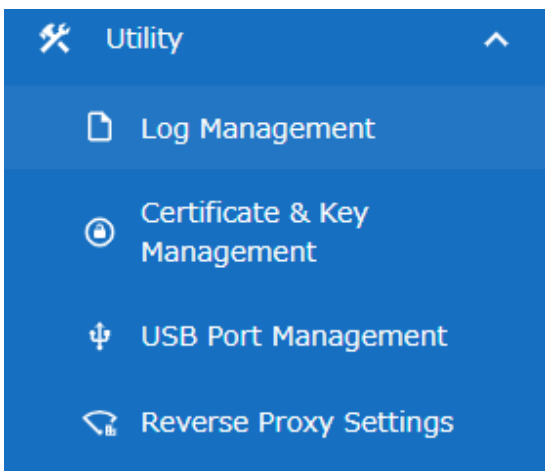
```

2025-09-10T06:57:59.972836840Z INFO: Started server process [1]
2025-09-10T06:57:59.977550760Z INFO: Waiting for application startup.
2025-09-10T06:57:59.989067080Z resources sub directory created
2025-09-10T06:57:59.992192280Z INFO: Application startup complete.
2025-09-10T06:58:00.003455240Z INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
    
```

## 3.6 Utility Management

This section describes the utility management.  
The configurable items are as follows.

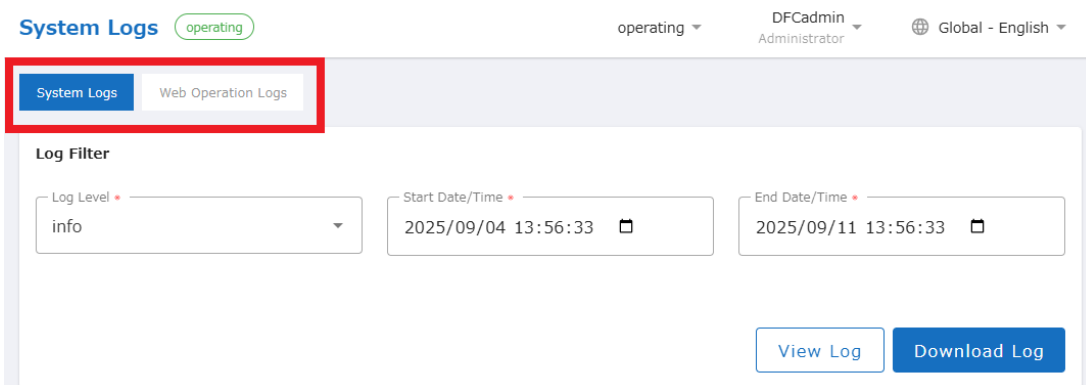
Item	Description
Log Management	Manage the logs of this Controller.
Certificate & Key Management	Manage certificates and private keys for reverse proxy.
USB Port Settings	Manage the USB ports of this Controller.
Reverse Proxy Settings	Configure the TLS settings of the reverse proxy of this Controller.



### 3.6.1 Log Management

Manage the logs of this Controller. The target management logs are as follows.

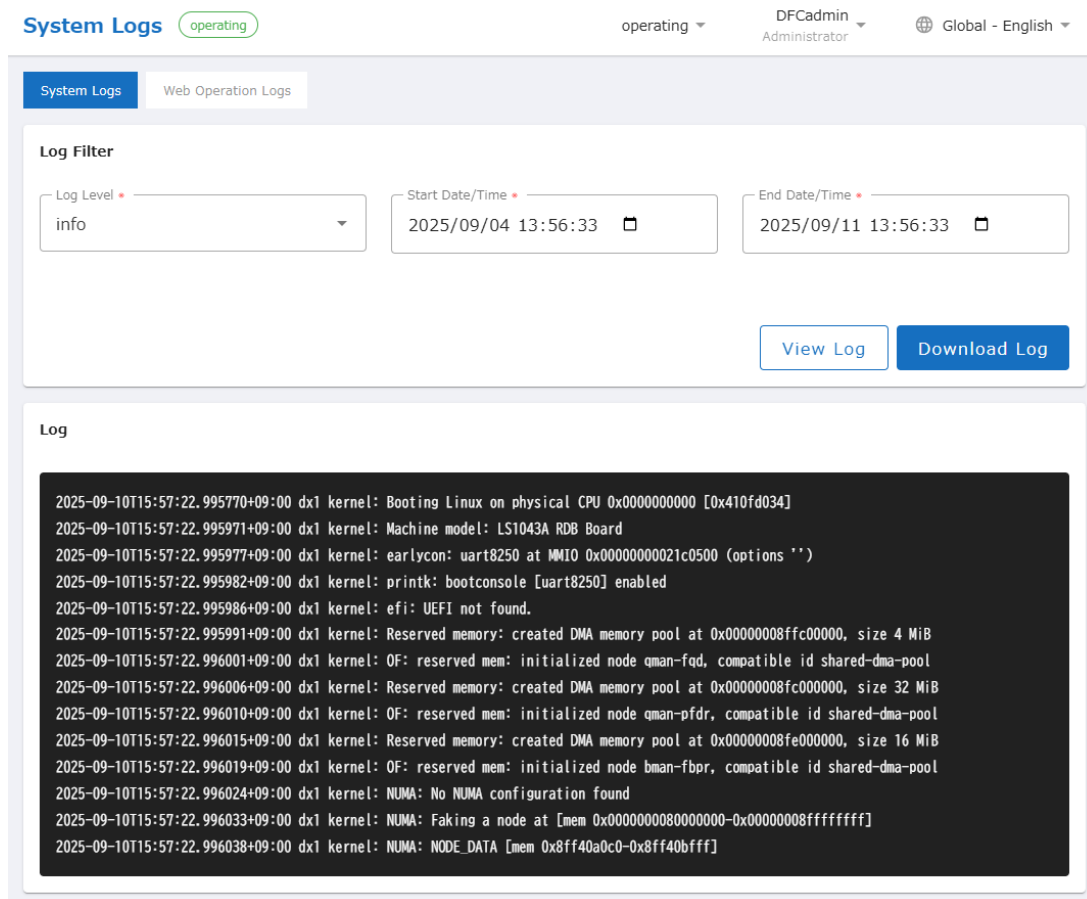
Item	Description
System Logs	Configure system log rotation settings and acquires logs.
Operation Logs	Acquires operation logs.



### System Logs

Manage the system logs. The log setting items are as follows.

Item	Description
Log Filter	Performs filtering for acquiring system logs. View and download the acquired logs.
Log display area	This is a display area for viewing system logs.



#### LOG FILTER

Performs filtering for acquiring system logs. The setting items are as follows.

Item	Description
Log Level	Pulldown for selecting the log level of logs to acquire
Start Date/Time	From date of the log file to acquire
End Date/Time	To date of the log file to acquire
View Log button	Operation button to display the target log in the log display area
Download Log button	Operation button to download the log file

**Log Filter**

Log Level \*

Start Date/Time \*

End Date/Time \*

**VIEW LOG**

You can view system logs by the following procedure.

1. Enter all values for log level, start date/time, and end date/time.

After entering them, press the View Log button.

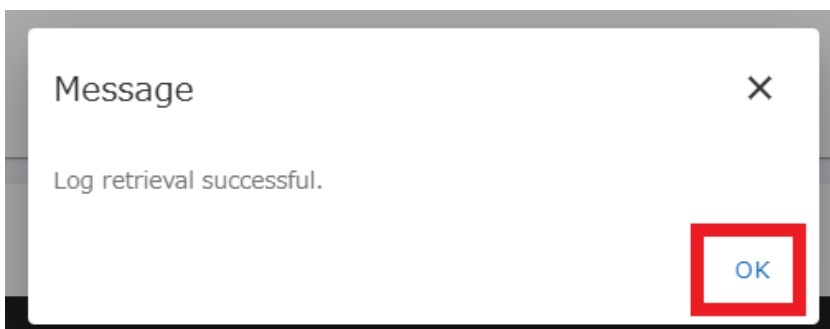
**Log Filter**

Log Level \*

Start Date/Time \*

End Date/Time \*

2. In the message dialog, press the OK button.



3. Check the contents of the log file in the Log display area.

**Log**

```

2025-09-10T15:57:22.995770+09:00 dx1 kernel: Booting Linux on physical CPU 0x0000000000 [0x410fd034]
2025-09-10T15:57:22.995971+09:00 dx1 kernel: Machine model: LS1043A RDB Board
2025-09-10T15:57:22.995977+09:00 dx1 kernel: earlycon: uart8250 at MMIO 0x00000000021c0500 (options '')
2025-09-10T15:57:22.995982+09:00 dx1 kernel: printk: bootconsole [uart8250] enabled
2025-09-10T15:57:22.995986+09:00 dx1 kernel: efi: UEFI not found.
2025-09-10T15:57:22.995991+09:00 dx1 kernel: Reserved memory: created DMA memory pool at 0x00000008ffc00000, size 4 MiB
2025-09-10T15:57:22.996001+09:00 dx1 kernel: OF: reserved mem: initialized node qman-fqd, compatible id shared-dma-pool
2025-09-10T15:57:22.996006+09:00 dx1 kernel: Reserved memory: created DMA memory pool at 0x00000008fc000000, size 32 MiB
2025-09-10T15:57:22.996010+09:00 dx1 kernel: OF: reserved mem: initialized node qman-pfdr, compatible id shared-dma-pool
2025-09-10T15:57:22.996015+09:00 dx1 kernel: Reserved memory: created DMA memory pool at 0x00000008fe000000, size 16 MiB
2025-09-10T15:57:22.996019+09:00 dx1 kernel: OF: reserved mem: initialized node bman-fbpr, compatible id shared-dma-pool
2025-09-10T15:57:22.996024+09:00 dx1 kernel: NUMA: No NUMA configuration found
2025-09-10T15:57:22.996033+09:00 dx1 kernel: NUMA: Faking a node at [mem 0x0000000080000000-0x00000008ffffff]
2025-09-10T15:57:22.996038+09:00 dx1 kernel: NUMA: NODE_DATA [mem 0x8ff40a0c0-0x8ff40bfff]

```

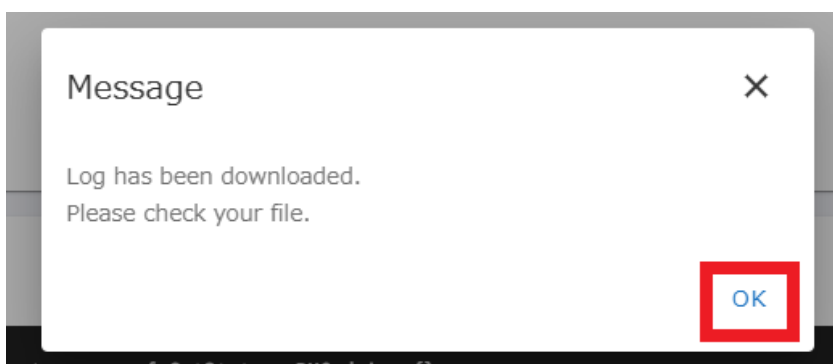
**DOWNLOAD LOG**

You can download system logs by the following procedure.

1. Enter all values for log level, start date/time, and end date/time.  
After entering them, press the Download Log button.

The screenshot shows a 'Log Filter' section with three input fields: 'Log Level' (set to 'info'), 'Start Date/Time' (2025/09/04 13:56:33), and 'End Date/Time' (2025/09/11 13:56:33). Below these fields are two buttons: 'View Log' and 'Download Log'. The 'Download Log' button is highlighted with a red box.

2. In the message dialog, press the OK button.



3. Confirm that the target log file has been downloaded.

**Operation Logs**

Manage the operation logs.

The log setting items are as follows.

Item	Description
Log Filter	Performs filtering for acquiring operation logs. View and download the acquired logs.
Log display area	This is a display area for viewing operation logs.

Web Operation Logs setup setup DFCadmin Administrator Global - English

System Logs **Web Operation Logs**

**Log Filter**

Start Date/Time  End Date/Time

[View](#) [Download](#)

**Log**

```

2025-08-30T03:10:54.056320+09:00 Start Method:fwLicensesActivate Params:{"serial":"0100"}
2025-08-30T03:10:54.061256+09:00 End Method:fwLicensesActivate Result:{"result":"failure","errorCode":100,"params":{}}
2025-08-30T03:11:34.423938+09:00 2025-08-29 18:11:34.411 [INFO] POST /api/v1/system/initialize - 401 - 3ms - User: unknown -
{"userId":"unknown","method":"POST","path":"/api/v1/system/initialize","statusCode":401,"duration":3,"ip":"192.168.1.6","userAgent":"Mozilla
/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36","requestBody":
{"serial":"0010","system_datetime":{"manualDateTime":"2025-08-29 18:10:53","timeZone":"Asia/Tokyo","ntp":{"enabled":false}},"password":"
[REDACTED]"},"responseBody":{"success":false,"message":"not found user id in session"}}
2025-08-30T03:11:41.187943+09:00 2025-08-29 18:11:41.173 [INFO] POST /api/v1/login - 200 - 691ms - User: DFCadmin -
{"userId":"DFCadmin","method":"POST","path":"/api/v1/login","statusCode":200,"duration":691,"ip":"192.168.1.6","userAgent":"Mozilla/5.0
(Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36","requestBody":{"id":
{"version":"hybrid-
vi#","encryptedKey":"#BceKL8n7vF/eUTLw90uNBkfqA1Fs+teIpMd57IX4mjLTmMrzUuap6RRtFdmS/EHM2vB7A+7QeamlzEU0omG5dRWBv64D1wBMtDNSuM+07DohJskR5+IG
NmQlOV4kTKBtgr27PwEmJoo+C2f3rgPcVnYfLORcIDz9pL00qLxsMJUkEu8JJjOmOziINId7AcZqHjisy2Ye3Hz61YYObmVEdCeb2SdzNiFW26Wpc4CtItwcardujkLmhjsrIoDaV4A
xmWrlYf/jnmZw7ezXlBwIv3F9mbn2HwoxxWmGysSvStaxQmZZvltn8j5/Qm4QJQ9z98g90QZv7BLw8b+n1Zhrq==#","iv":"3j8JDU0rKvC89P9Y#","data":"ia/z01CLFH
MovlHXcNhpCh3iucnNSw#"},"password":"[REDACTED]"},"responseBody":{"success":true,"data":{"user":
{"id":"upjmrC0P0J1fYp8ChDuzg0cd/IZts9dd20QjNln1PUFnf01","binded_roles":
["Administrator"],"enabled":true,"first_user":true,"force_change_password":true,"fixed_user":false,"latest":"2025-08-
29T09:10:39.413Z"},"initialized":false}}}
2025-08-30T03:11:56.293634+09:00 Start Method:hostOsSetTimeParams Params:{"manualDateTime":"2025-08-29
18:12:07","timeZone":"Asia/Tokyo","ntp":{"enabled":false}}
    
```

**LOG FILTER**

Performs filtering for acquiring operation log files. The setting items are as follows.

Item	Description
Start Date/Time	From date of the log file to acquire
End Date/Time	To date of the log file to acquire
View Log button	Operation button to display the target log in the log display area
Download Log button	Operation button to download the log file

**Log Filter**

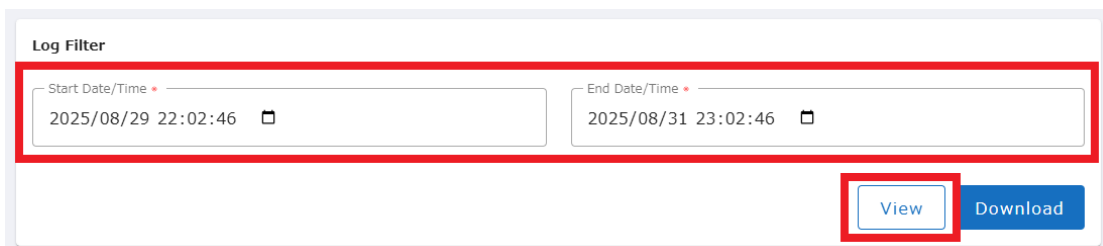
Start Date/Time  End Date/Time

[View](#) [Download](#)

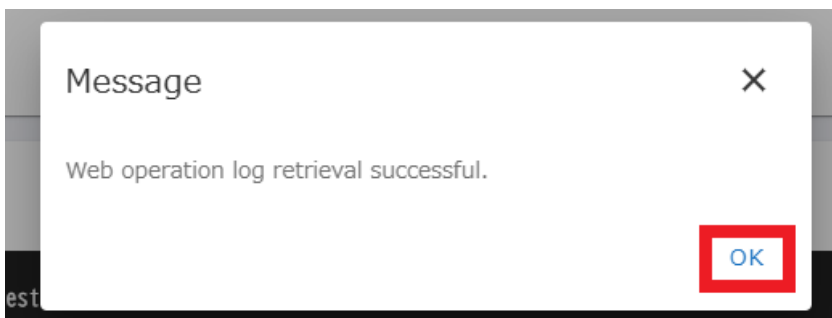
**VIEW LOG**

You can view operation logs by the following procedure.

1. Enter all values for start date/time, and end date/time.  
After entering them, press the View Log button.



2. In the message dialog, press the OK button.



3. Check the contents of the log file in the Log display area.



**DOWNLOAD LOG**

You can download operation logs by the following procedure.

1. Enter all values for start date/time, and end date/time.  
After entering them, press the Download Log button.

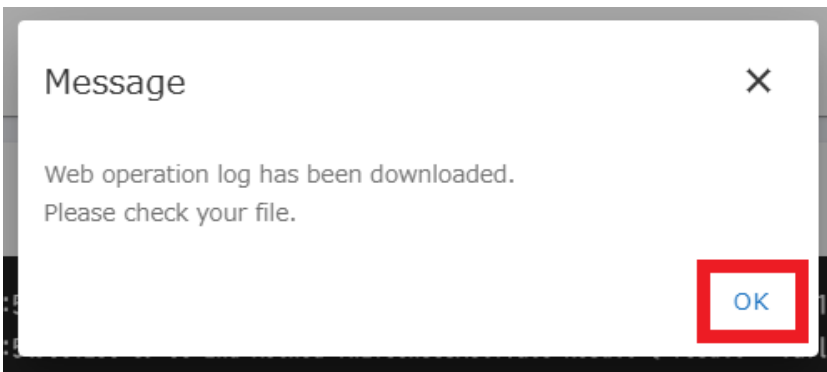
Log Filter

Start Date/Time \* 2025/08/29 22:02:46

End Date/Time \* 2025/08/31 23:02:46

View Download

2. In the message dialog, press the OK button.



3. Confirm that the target log file has been downloaded.

## 3.6.2 Certificate & Key Management

Manage certificates and private keys for reverse proxy.

Certificate & Key Management setup DFCadmin Administrator Global - English

Reverse Proxy [Reverse Proxy Settings](#) Register Certificate

Certificate Key

Certificate Name	Enabled/Disabled	Creation Method	Type ↑	Algorithm	Certificate Key Length	Status	Action
dx1-dx1.crt	Disabled	Imported	Public	sha512WithRSAEncryption	2057	Available	...
SSLCertificate	Enabled	Imported	unknown	unknown	381	active	...

### Certificate Management

Displays the registered certificates in list form.  
The displayed items are as follows.

Item	Description
Register Certificate button	Operation button to register a certificate
Certificate Name	Certificate Name
Enabled/Disabled	Displays whether the certificate is enabled/disabled.
Creation Method	Displays the creation type of the certificate.
Type	Displays the type of the certificate.
Algorithm	Displays the algorithm of the certificate.
Key Length	Displays the length of the certificate key.
Status	Displays the status of the certificate.
Action	Displays operation categories using the three-dot leader. Refer to the table below for each operation category.

There are four operation categories.  
Press to perform each operation.

Operation category	Description
Enable	Enable the selected certificate.
Update	Update the certificate.
Download	Downloads the certificate file.
Delete	Delete the certificate.

**Certificate & Key Management** setup
setup ▾
DFCadmin Administrator ▾
Global - English ▾

**Reverse Proxy** [Reverse Proxy Settings](#)
Register Certificate

Certificate		Key					
Certificate Name	Enabled/Disabled	Creation Method	Type	Algorithm	Certificate Key Length	Status	Action
dxc-dx1.crt	Disabled	Imported	Public	sha512WithRSAEncryption	2057	Available	⋮
SSLCertificate	Enabled	Imported	unknown	unknown	381	active	<div style="background-color: white; border: 1px solid #ccc; padding: 5px; width: 100px; margin: 0 auto;">                     Enable Update Download Delete                 </div>

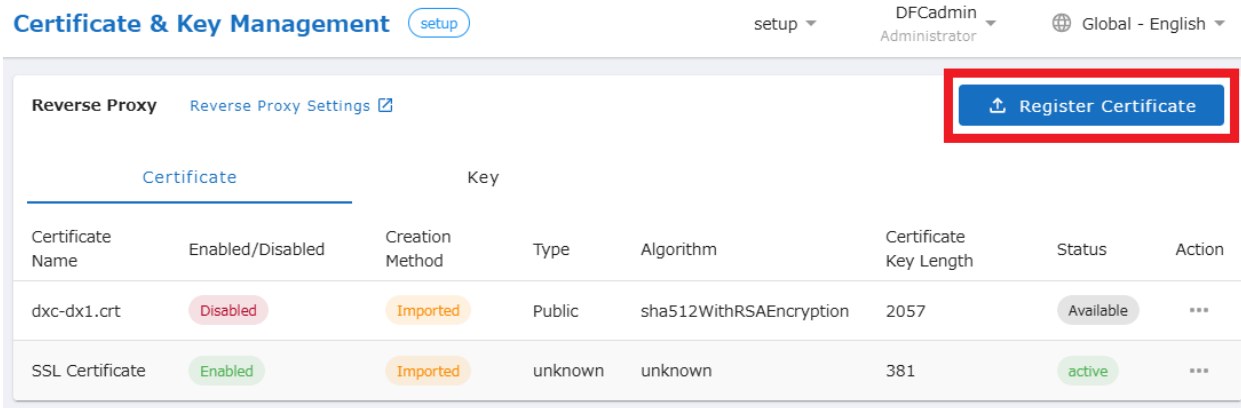
#### REGISTER CERTIFICATE

You can register a certificate by the following procedure.

 **WARNINGS**

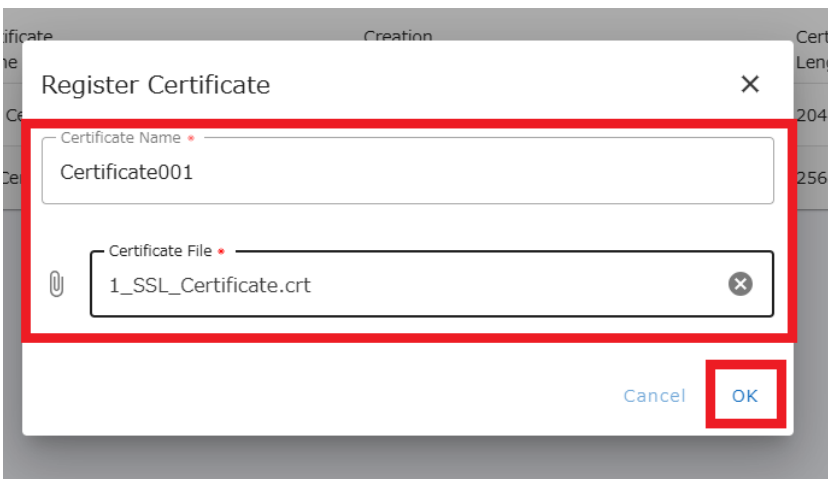
- a) Duplicate certificates cannot be registered.
- b) The maximum number of certificates that can be registered is 10.

1. Press the Register Certificate button on the certificate management screen.

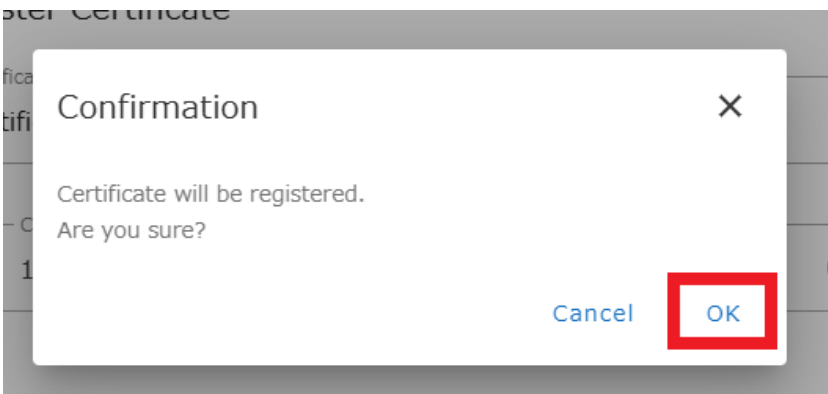


2. In the displayed Register Certificate dialog, enter all of the following items. After entering them, press the OK button.

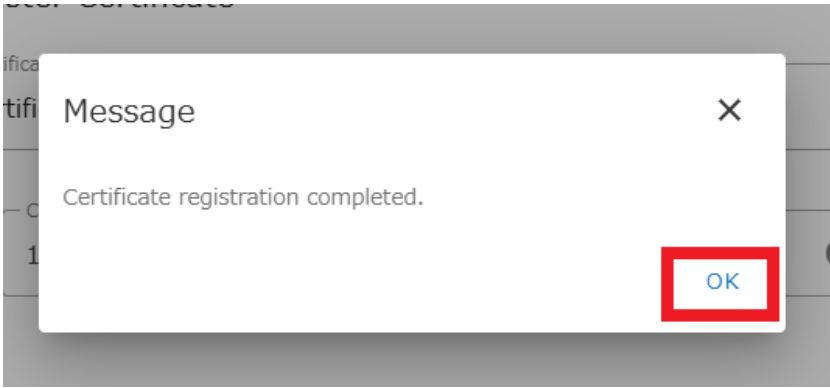
Item	Description
Certificate Name	Field to enter the certificate name
Certificate File	Select the certificate file to register from the file dialog.



3. In the confirmation dialog, press the OK button.



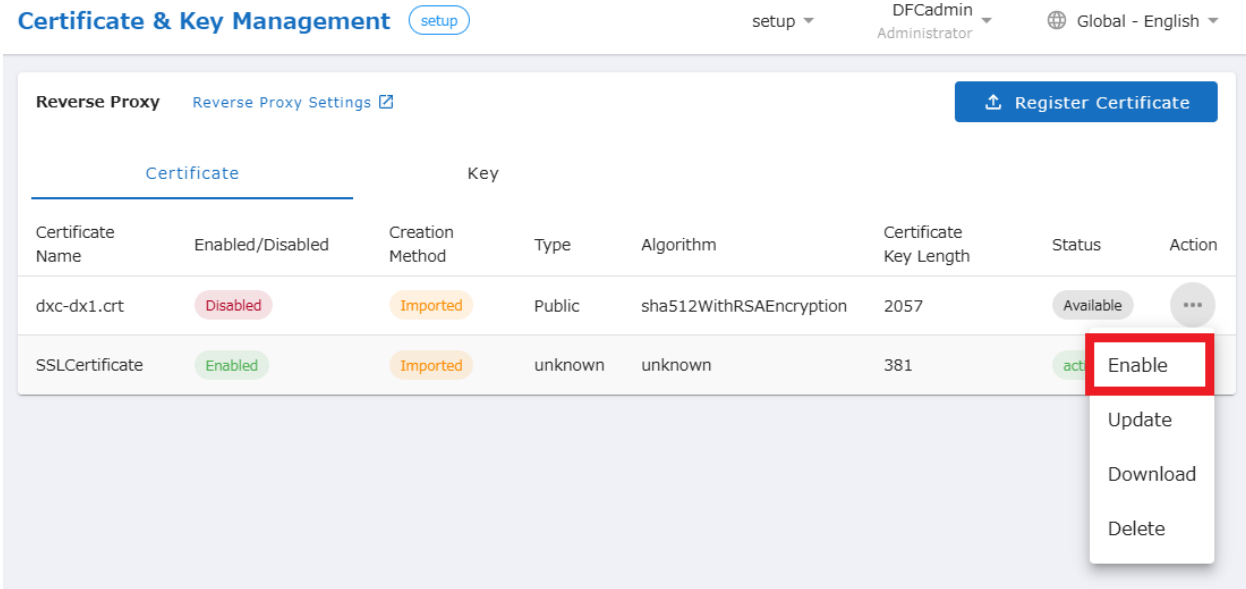
4. In the message dialog, press the OK button.



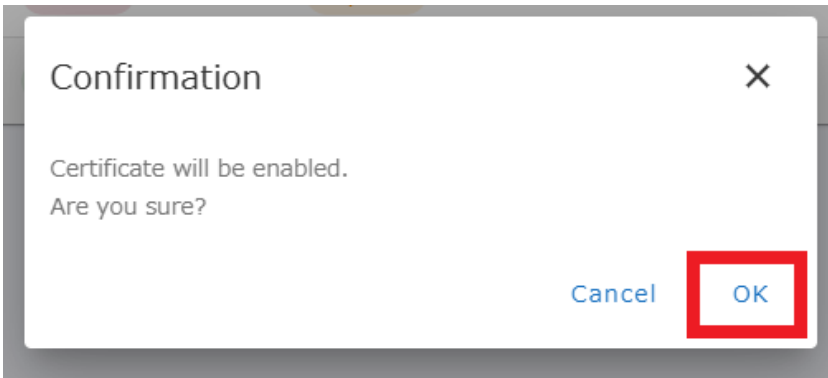
**CHANGING CERTIFICATE'S ENABLED/DISABLED STATUS**

You can enable/disable a certificate by the following procedure.

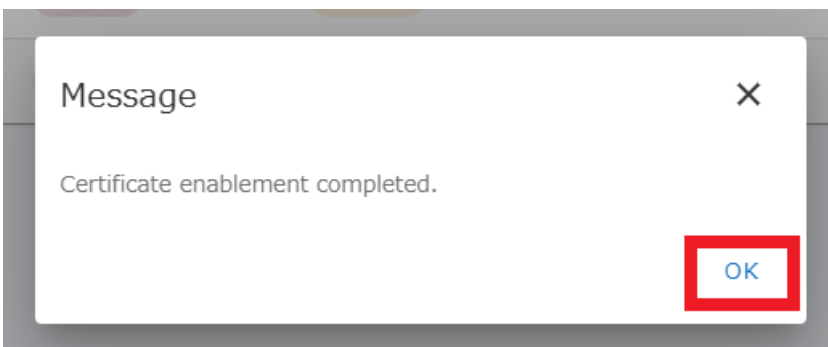
1. Click the three-dot leader in the Actions Column of the certificate displayed in the certificate list and press Disable.  
\*In this example, the status is changed from Enabled to Disabled.



2. In the confirmation dialog, press the OK button.



3. In the message dialog, press the OK button.



**UPDATE CERTIFICATE**

You can update a certificate by the following procedure.

1. Click the three-dot leader in the Actions Column of the certificate displayed in the certificate list and press Update.

**Certificate & Key Management** setup setup DFCAdmin Administrator Global - English

Reverse Proxy [Reverse Proxy Settings](#) Register Certificate

Certificate		Key					
Certificate Name	Enabled/Disabled	Creation Method	Type	Algorithm	Certificate Key Length	Status	Action
dxc-dx1.crt	Disabled	Imported	Public	sha512WithRSAEncryption	2057	Available	⋮
SSLCertificate	Enabled	Imported	unknown	unknown	381	active	<ul style="list-style-type: none"> <li>Enable</li> <li><b>Update</b></li> <li>Download</li> <li>Delete</li> </ul>

2. In the displayed Update Certificate dialog, enter the following item.  
After entering them, press the OK button.

Item	Description
Certificate File	Select the certificate file to register from the file dialog.

Update Certificate

Certificate Name  
SSLCertificate

**Certificate File**

Cancel **OK**

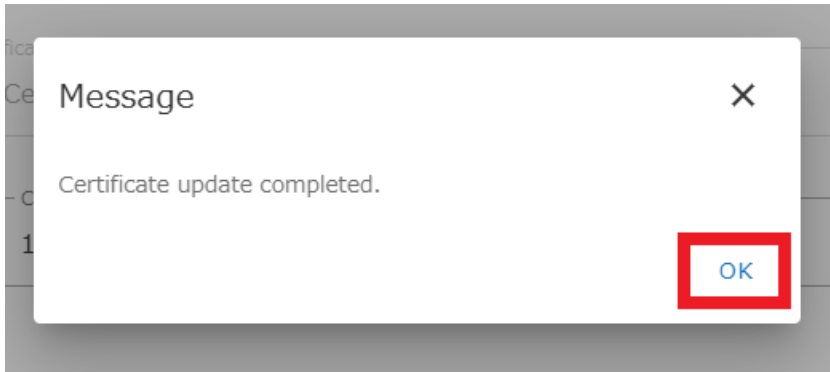
3. In the confirmation dialog, press the OK button.

Confirmation

Certificate will be updated.  
Are you sure?

Cancel **OK**

4. In the message dialog, press the OK button.



#### DOWNLOAD CERTIFICATE

You can download a certificate file by the following procedure.

1. Click the three-dot leader in the Actions Column of the certificate displayed in the certificate list and press Download.

**Certificate & Key Management** setup setup DFCadmin Administrator Global - English

**Reverse Proxy** [Reverse Proxy Settings](#) Register Certificate

Certificate		Key					
Certificate Name	Enabled/Disabled	Creation Method	Type	Algorithm	Certificate Key Length	Status	Action
dx1-dx1.crt	Disabled	Imported	Public	sha512WithRSAEncryption	2057	Available	...
SSLCertificate	Enabled	Imported	unknown	unknown	381	active	<ul style="list-style-type: none"> <li>Enable</li> <li>Update</li> <li><b>Download</b></li> <li>Delete</li> </ul>

**DELETE CERTIFICATE**

You can delete a certificate by the following procedure.

1. Click the three-dot leader in the Actions Column of the certificate displayed in the certificate list and press Delete.

**Certificate & Key Management** setup setup DFCadmin Administrator Global - English

**Reverse Proxy** [Reverse Proxy Settings](#) Register Certificate

Certificate		Key					
Certificate Name	Enabled/Disabled	Creation Method	Type	Algorithm	Certificate Key Length	Status	Action
dxc-dx1.crt	Disabled	Imported	Public	sha512WithRSAEncryption	2057	Available	...
SSLCertificate	Enabled	Imported	unknown	unknown	381	active	<ul style="list-style-type: none"> <li>Enable</li> <li>Update</li> <li>Download</li> <li><b>Delete</b></li> </ul>

2. In the confirmation dialog, press the OK button.

**Confirmation** ×

Certificate will be deleted.  
Are you sure?

Cancel **OK**

3. In the message dialog, press the OK button.

**Message** ×

Certificate deletion completed.

**OK**

### Key Management

Displays the registered private keys in list form.  
The displayed items are as follows.

Item	Description
Issue Key button	Operation button to issue a private key
Register Key button	Operation button to register a private key
Key Name	Name of the private key
Enabled/Disabled	Displays whether the private key is enabled/disabled.
Creation Method	Displays the creation type of the private key.
Type	Displays the type of the private key.
Algorithm	Displays the algorithm of the private key.
Key Length	Displays the length of the private key.
Status	Displays the status of the private key.
Action	Displays operation categories using the three-dot leader. Refer to the table below for each operation category.

There are four operation categories.  
Press to perform each operation.

Operation category	Description
Enable	Enable the selected private key.
Update	Update the private key.
Download	Download the private key file.
Delete	Delete the key.

**Certificate & Key Management** setup
setup ▾
DFCadmin Administrator ▾
Global - English ▾

**Reverse Proxy** [Reverse Proxy Settings](#)
+ Issue Key
↑ Register Key

Certificate
Key

Key Name	Enabled/Disabled	Creation Method	Type	Algorithm	Length	Status	Action
dxc-dx1.key	Disabled	Imported	Public	RSA	3272	Available	⋮
Privatekey001	Enabled	Self-created	private key	RSA	1704	active	<div style="background-color: white; border: 1px solid #ccc; padding: 5px; width: 100px; margin: 0 auto;">                     Enable Update Download Delete                 </div>

**ISSUE KEY**

You can register a private key by the following procedure.

1. Press the Issue Key button on the certificate management screen.

The screenshot shows the 'Certificate & Key Management' interface. At the top, there are navigation elements: 'Certificate & Key Management' with a 'setup' button, 'setup' dropdown, 'DFCAdmin Administrator' dropdown, and 'Global - English' dropdown. Below this, there are two main buttons: '+ Issue Key' (highlighted with a red box) and 'Register Key'. The main content area is divided into 'Certificate' and 'Key' tabs. The 'Key' tab is active, showing a table with columns: Key Name, Enabled/Disabled, Creation Method, Type, Algorithm, Length, Status, and Action.

Key Name	Enabled/Disabled	Creation Method	Type	Algorithm	Length	Status	Action
dxc-dx1.key	Disabled	Imported	Public	RSA	3272	Available	...
Privatekey001	Enabled	Self-created	private key	RSA	1704	active	...

2. In the displayed Issue Key dialog, enter the following item.  
After entering them, press the OK button.

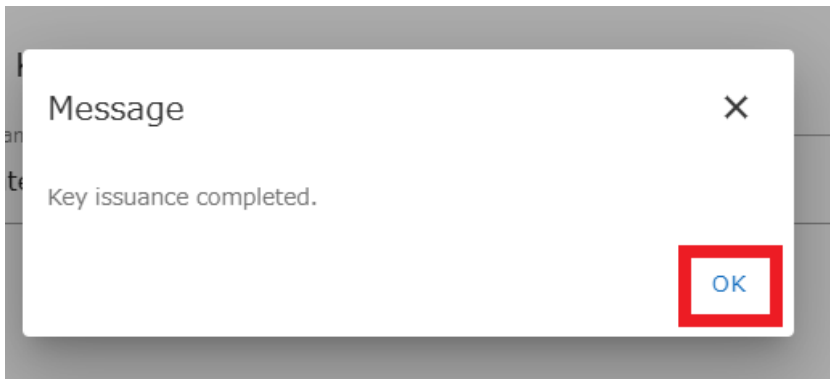
Item	Description
Key Name	Field to enter the private key name

The screenshot shows the 'Issue Key' dialog box. It has a title bar with 'Issue Key' and a close button (X). Below the title bar, there is a text input field labeled 'Key Name' with a red asterisk. The field contains the text 'PrivateKey001'. At the bottom right of the dialog, there are two buttons: 'Cancel' and 'OK'. The 'OK' button is highlighted with a red box.

3. In the confirmation dialog, press the OK button.

The screenshot shows the 'Confirmation' dialog box. It has a title bar with 'Confirmation' and a close button (X). Below the title bar, there is a message: 'Key will be issued. Are you sure?'. At the bottom right of the dialog, there are two buttons: 'Cancel' and 'OK'. The 'OK' button is highlighted with a red box.

4. In the message dialog, press the OK button.



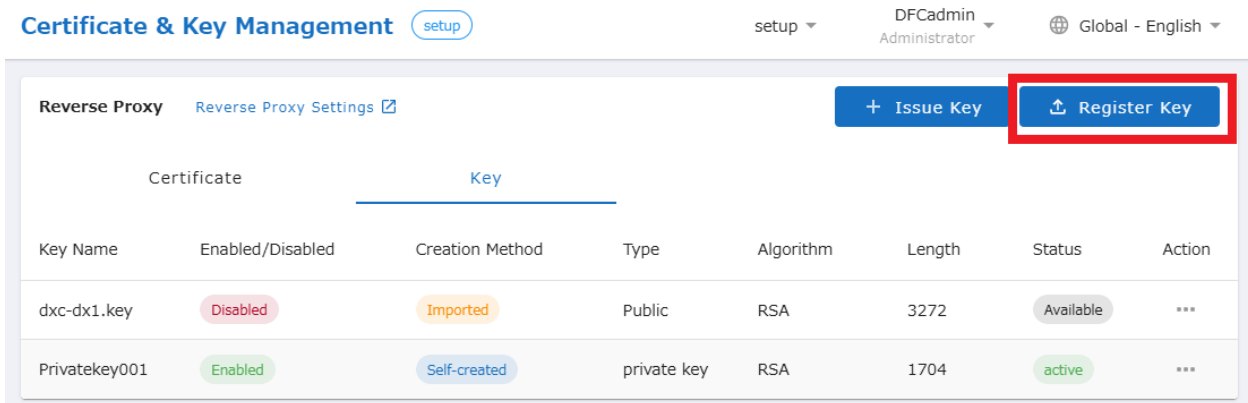
**REGISTER KEY**

You can register a private key by the following procedure.

 **WARNING**

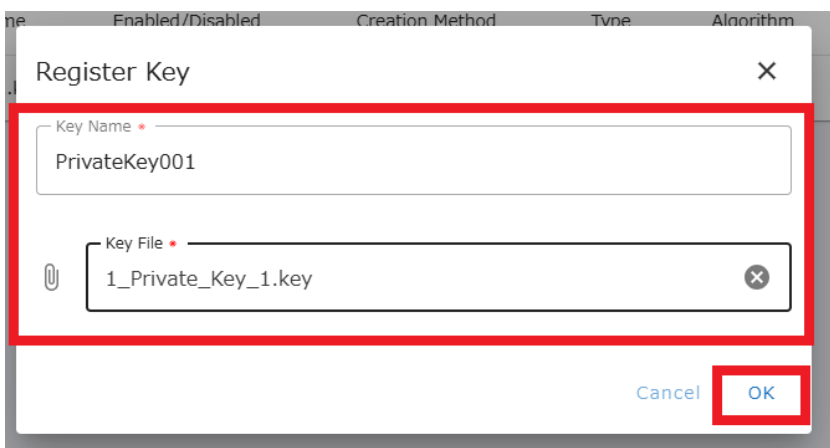
- a) Duplicate keys cannot be registered.
- b) The maximum number of keys that can be registered is 10.

1. Press the Register Key button on the key management screen.

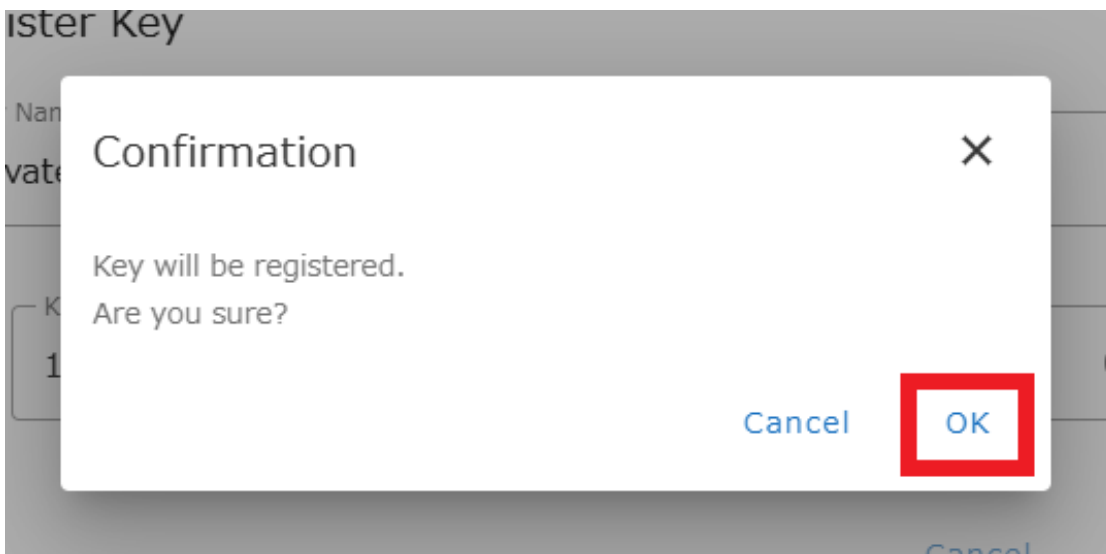


2. In the displayed Register Key dialog, enter all of the following items. After entering them, press the OK button.

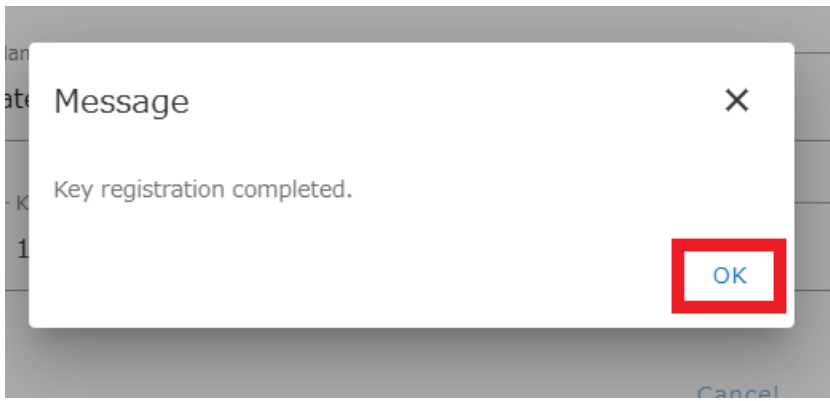
Item	Description
Key Name	Field to enter the private key name
Key File	Select the private key file to register from the file dialog.



3. In the confirmation dialog, press the OK button.



4. In the message dialog, press the OK button.



### CHANGING KEY'S ENABLED/DISABLED STATUS

You can enable/disable a private key by the following procedure.

1. Click the three-dot leader in the Actions Column of the private key displayed in the key list and press Disable.

\*In this example, the status is changed from Disabled to Enabled.

Certificate & Key Management setup setup DFCAdmin Administrator Global - English

Reverse Proxy Reverse Proxy Settings + Issue Key Register Key

Certificate Key

Key Name	Enabled/Disabled	Creation Method	Type	Algorithm	Length	Status	Action
dxc-dx1.key	Disabled	Imported	Public	RSA	3272	Available	...
Privatekey001	Enabled	Self-created	private key	RSA	1704	active	<div style="border: 1px solid red; padding: 2px;">Enable</div> Update Download Delete

2. In the confirmation dialog, press the OK button.

Disabled Imported Public RS

**Confirmation** ×

Key will be enabled.  
Are you sure?

Cancel OK

3. In the message dialog, press the OK button.

Message ×

Key enablement completed.

OK

**UPDATE KEY**

You can update a private key by the following procedure.

1. Click the three-dot leader in the Actions Column of the private key displayed in the key list and press Update.

**Certificate & Key Management** setup setup DFCadmin Administrator Global - English

Reverse Proxy [Reverse Proxy Settings](#) + Issue Key Register Key

Certificate Key

Key Name	Enabled/Disabled	Creation Method	Type	Algorithm	Length	Status	Action
dx1-dx1.key	Disabled	Imported	Public	RSA	3272	Available	...
Privatekey001	Enabled	Self-created	private key	RSA	1704	active	<ul style="list-style-type: none"> <li>Enable</li> <li><b>Update</b></li> <li>Download</li> <li>Delete</li> </ul>

2. In the displayed Update Private Key dialog, enter the following item.  
After entering them, press the OK button.

Item	Description
Key File	Select the private key file to register from the file dialog.

Update Key

Key Name  
PrivateKey001

Key File \*

Cancel **OK**

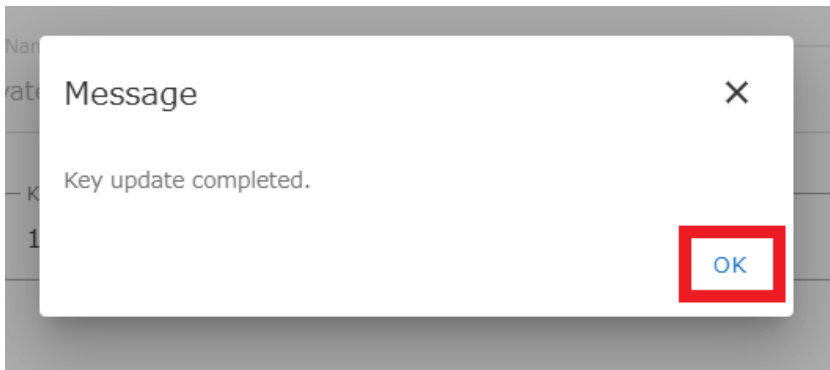
3. In the confirmation dialog, press the OK button.

Confirmation

Key will be updated.  
Are you sure?

Cancel **OK**

4. In the message dialog, press the OK button.



#### DOWNLOAD KEY

You can download a private key file by the following procedure.

1. Click the three-dot leader in the Actions Column of the private key displayed in the key list and press Download.

**Certificate & Key Management** setup setup DFCadmin Administrator Global - English

**Reverse Proxy** [Reverse Proxy Settings](#) + Issue Key Register Key

**Certificate** **Key**

Key Name	Enabled/Disabled	Creation Method	Type	Algorithm	Length	Status	Action
dx1-dxc.key	Disabled	Imported	Public	RSA	3272	Available	...
Privatekey001	Enabled	Self-created	private key	RSA	1704	active	<ul style="list-style-type: none"> <li>Enable</li> <li>Update</li> <li><b>Download</b></li> <li>Delete</li> </ul>

**DELETE KEY**

You can delete a private key by the following procedure.

1. Click the three-dot leader in the Actions Column of the private key displayed in the key list and press Delete.

The screenshot shows the 'Certificate & Key Management' interface. At the top, there are tabs for 'Certificate' and 'Key'. Below the tabs is a table with the following columns: Key Name, Enabled/Disabled, Creation Method, Type, Algorithm, Length, Status, and Action. The table contains two rows:

Key Name	Enabled/Disabled	Creation Method	Type	Algorithm	Length	Status	Action
dxc-dx1.key	Disabled	Imported	Public	RSA	3272	Available	...
Privatekey001	Enabled	Self-created	private key	RSA	1704	active	<ul style="list-style-type: none"> <li>Enable</li> <li>Update</li> <li>Download</li> <li><b>Delete</b></li> </ul>

2. In the confirmation dialog, press the OK button.

The screenshot shows a 'Confirmation' dialog box with the following text: 'Key will be deleted. Are you sure?'. At the bottom right, there are two buttons: 'Cancel' and 'OK'. The 'OK' button is highlighted with a red box.

3. In the message dialog, press the OK button.

The screenshot shows a 'Message' dialog box with the following text: 'Key deletion completed.'. At the bottom right, there is an 'OK' button, which is highlighted with a red box.

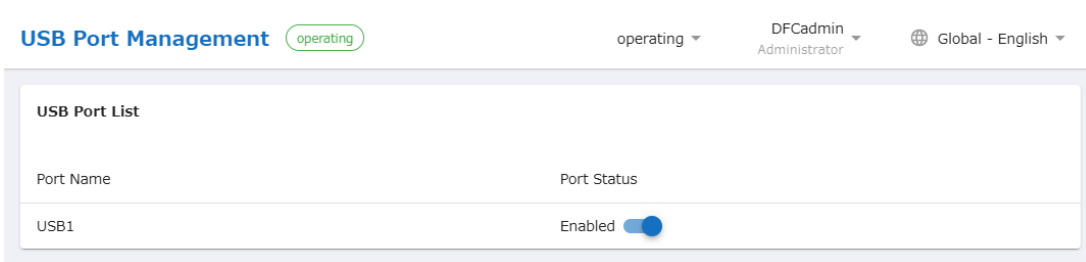
### 3.6.3 USB Port Management

Manage the USB ports of this Controller.

### USB Port List

Displays the USB ports of this Controller in list form.  
The displayed items are as follows.

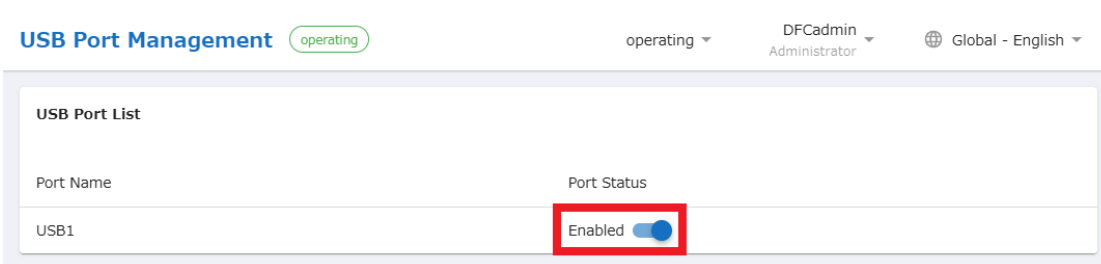
Item	Description
Port Name	USB port name
Port Status	Toggle switch for enable/disable control of the target USB port



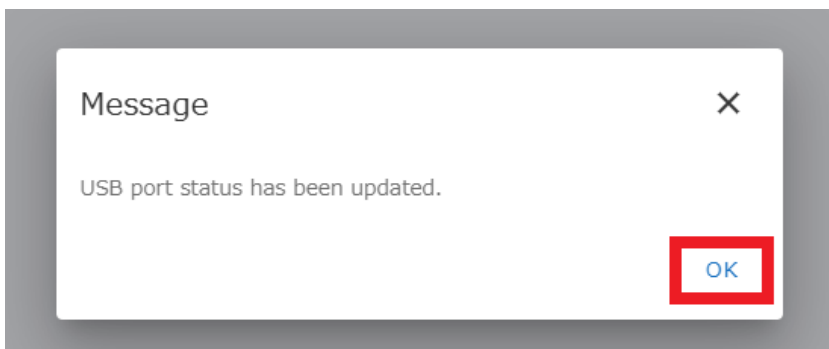
### Changing USB Port Status

You can change the Port Status (Enabled/Disabled) by the following procedure.

1. Press the Port Status toggle switch for the port displayed in the USB Port List.  
\*In this example, the status is changed from Enabled to Disabled.



2. In the message dialog, press the OK button.



3. Confirm that the Port Status has been changed.

## 3.6.4 Reverse Proxy Settings

Configure the reverse proxy settings of this Controller.

## Reverse Proxy Settings setup

setup ▾

DFCadmin  
Administrator ▾

🌐 Global - English ▾

**Enable TLS Settings** [Certificate & Key Management](#)

Enable TLS  Disable TLS

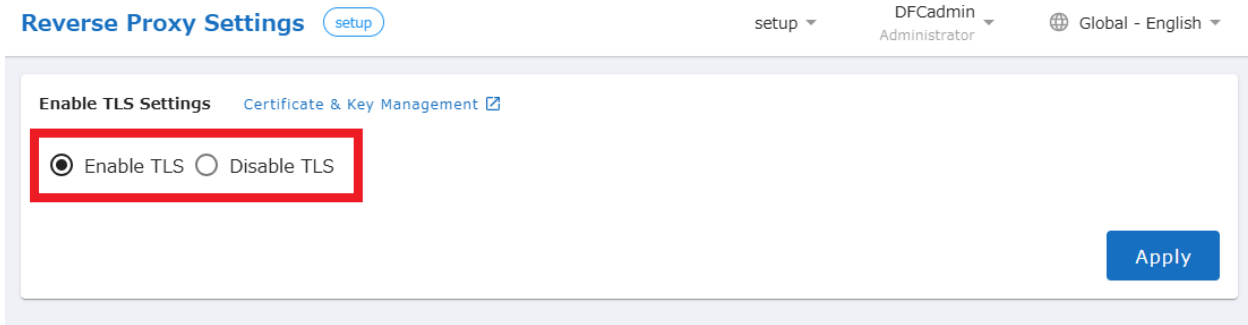
Apply

**TLS Setting Method**

You can configure the enable/disable setting for TLS by the following procedure.

1. Select either Enable TLS or Disable TLS using the TLS Enable radio button.

\*In this example, Enable TLS is set.



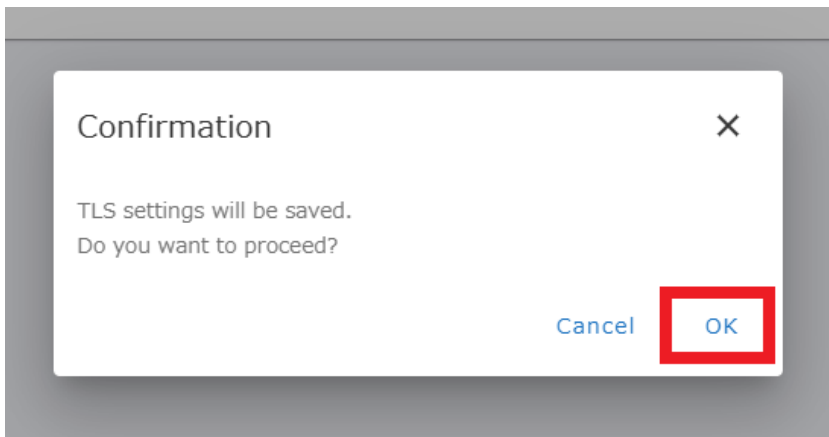
The screenshot shows the 'Reverse Proxy Settings' page. At the top, there is a 'setup' button and user information: 'DFCadmin Administrator' and 'Global - English'. Below this, the 'Enable TLS Settings' section is visible, with a link for 'Certificate & Key Management'. The 'Enable TLS' radio button is selected and highlighted with a red box. An 'Apply' button is located at the bottom right of the settings area.

2. Press Apply.



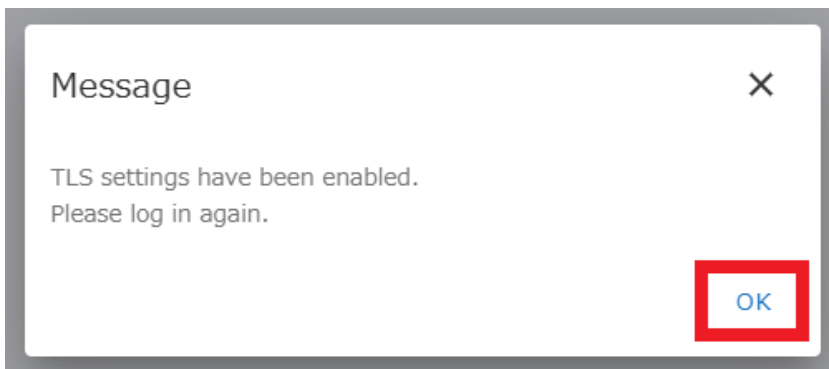
This screenshot is identical to the previous one, but the 'Apply' button at the bottom right is now highlighted with a red box, indicating it should be pressed.

3. In the confirmation dialog, press the OK button.



The screenshot shows a 'Confirmation' dialog box with a close button (X) in the top right corner. The text inside reads: 'TLS settings will be saved. Do you want to proceed?'. At the bottom, there are two buttons: 'Cancel' and 'OK'. The 'OK' button is highlighted with a red box.

4. In the message dialog, press the OK button.



The screenshot shows a 'Message' dialog box with a close button (X) in the top right corner. The text inside reads: 'TLS settings have been enabled. Please log in again.'. At the bottom, there is an 'OK' button highlighted with a red box.

5. Confirm that the TLS settings have been changed.

## Reverse Proxy Settings setup

setup ▾

DFCadmin  
Administrator ▾

Global - English ▾

Enable TLS Settings [Certificate & Key Management](#)

Enable TLS  Disable TLS

Apply

## 3.7 Account Management

This section describes the account management.

### 3.7.1 Viewing User List

Displays a list of Web UI users. The displayed items are as follows.

Item	Description
User ID	User ID
Permissions	Permissions
Status	Toggle switch for enabling/disabling a user
Access Token	Access token for external integration, display control switch, copy button
Action	Edit button, Delete button

**User Management** operating operating DFCadmin Administrator Global - English

**User List** ⓘ Current Number of Users: 4users (Limit100users) + Create User

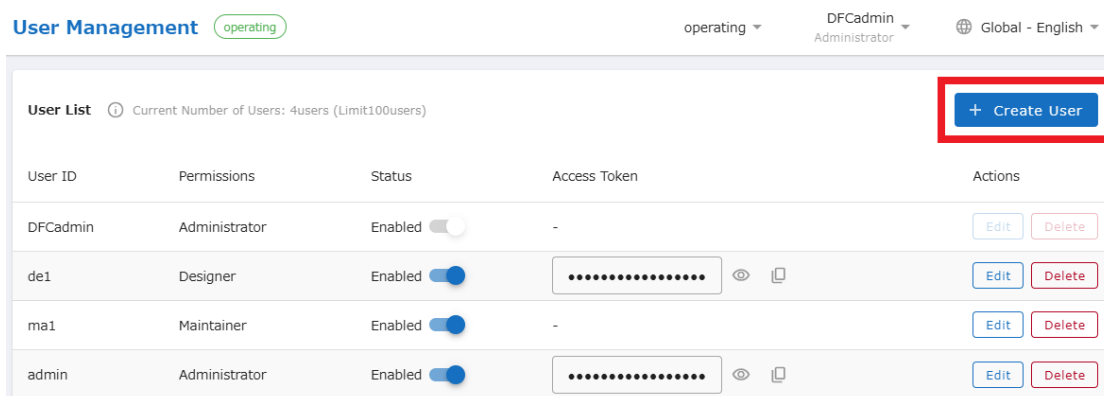
User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>

### 3.7.2 Adding User

---

You can add a user by the following procedure.

1. Press the Create User button on the User Management screen.



2. In the displayed Create New User dialog, enter all of the following items.  
After entering them, press the OK button.

Item	Description
User ID	This is an ID entered on login.
New Password	This is a password entered on login.
Confirm Password	This is an input item for confirming the password entered on login.
Permissions	Refer to the table below.
Access Token	Select whether to create an access token.
Force password change on next login	This is an input item to force a password change on the next login.

There are three types of user permissions.

Permission	Description
Administrator	All operations are available. It is assigned to the initial user "DFCadmin" and at least one person is required.
Designer	Operations other than user management and firmware management are available.
Maintainer	Monitoring, application management, and some utility management are available.

### Create New User ✕

User ID \*

New Password \*  👁

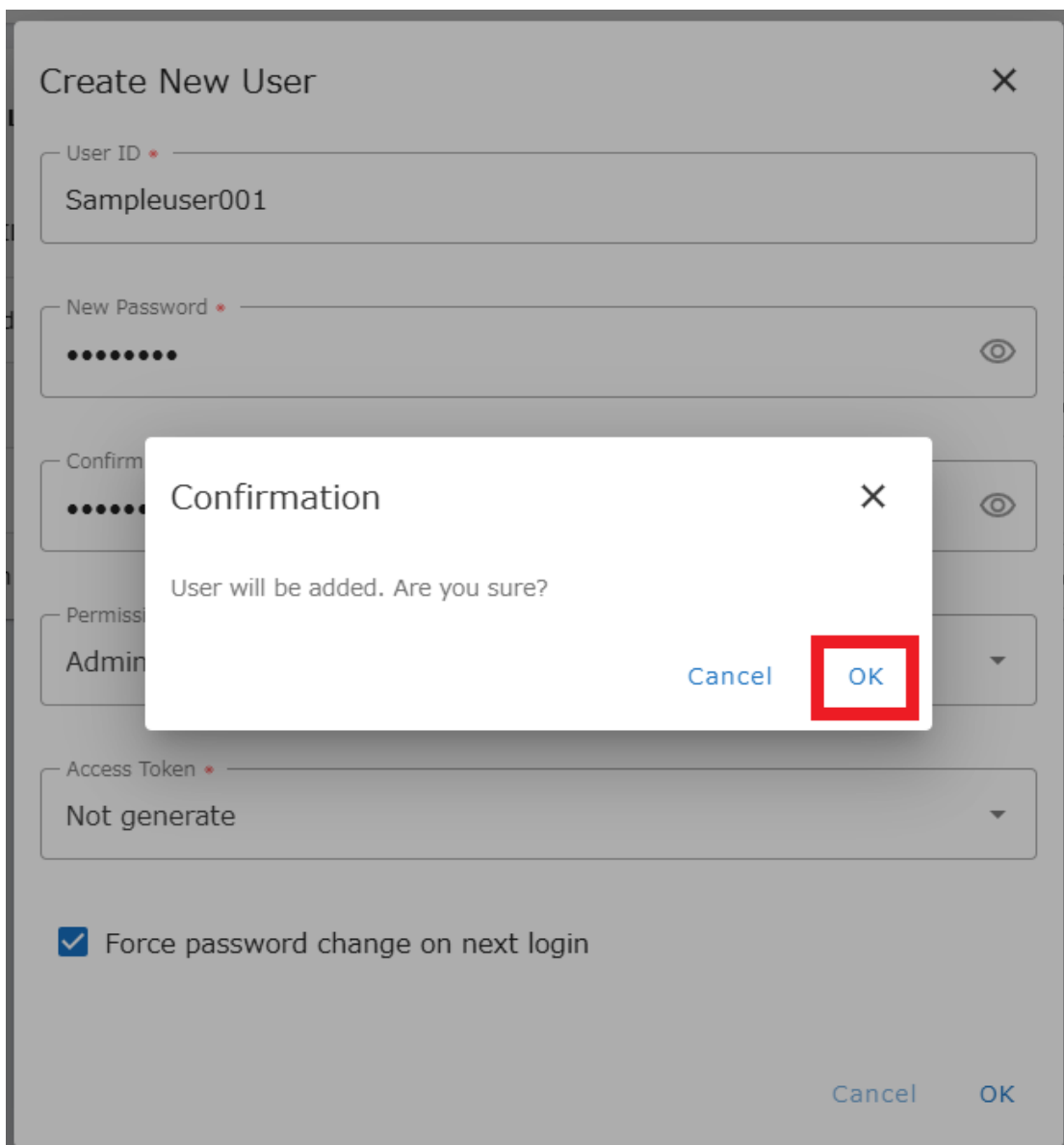
Confirm Password \*  👁

Permissions \*  ▾

Access Token \*  ▾

Force password change on next login

3. In the confirmation dialog, press the OK button.

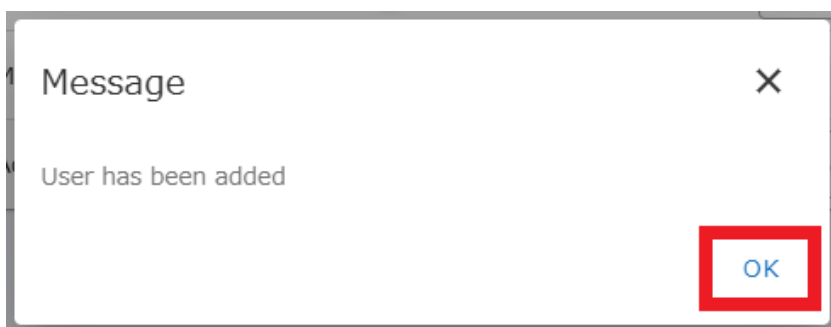


The screenshot shows a 'Create New User' dialog box with the following fields and options:

- User ID: Sampleuser001
- New Password: [Redacted]
- Confirm: [Redacted]
- Permissions: Admin
- Access Token: Not generate
- Force password change on next login

A confirmation message dialog is overlaid on top of the 'Create New User' dialog. The confirmation message reads: "Confirmation" followed by "User will be added. Are you sure?". There are two buttons: "Cancel" and "OK". The "OK" button is highlighted with a red square.

4. In the message dialog, press the OK button.



The screenshot shows a 'Message' dialog box with the following content:

- Message: User has been added

There is one button: "OK". The "OK" button is highlighted with a red square.

5. Confirm that the user has been added.

User Management operating operating DFCadmin Administrator Global - English

**User List** ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <span>👁</span> <span>📄</span>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <span>👁</span> <span>📄</span>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Administrator	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

### 3.7.3 Changing User Information

---

You can change a user by the following procedure.

1. Press the Edit button for the user you want to edit in the User List.

**User Management** operating operating DFCadmin Administrator Global - English

**User List** ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Administrator	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

2. In the displayed Edit User dialog, enter the following items you want to change.

\*In this example, the permission is changed from Administrator to Designer.

After entering them, press the OK button.

Item	Description
New Password	This is a password entered on login.
Confirm Password	This is an input item for confirming the password entered on login.
Permissions	Refer to the table below.
Access Token	Choose to create, update, or delete the access token.
Force password change on next login	This is an input item to force a password change on the next login.

There are three types of user permissions.

Permission	Description
Administrator	All operations are available. It is assigned to the initial user "DFCadmin" and at least one person is required.
Designer	Operations other than user management and firmware management are available.
Maintainer	Monitoring, application management, and some utility management are available.

### Edit User ✕

User ID \*

New Password \*  👁

Confirm Password \*  👁

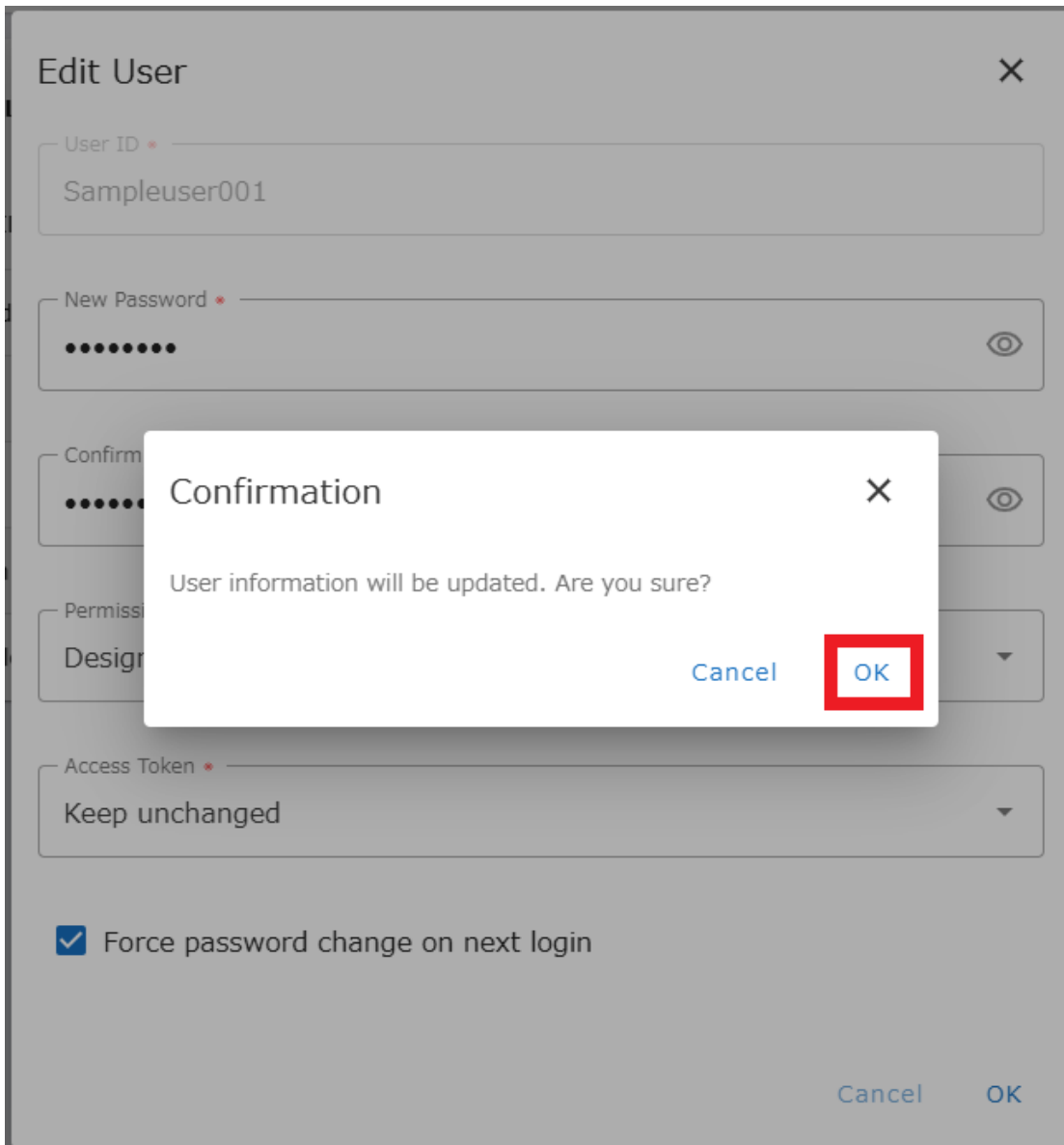
Permissions \*  ▼

Access Token \*  ▼

Force password change on next login

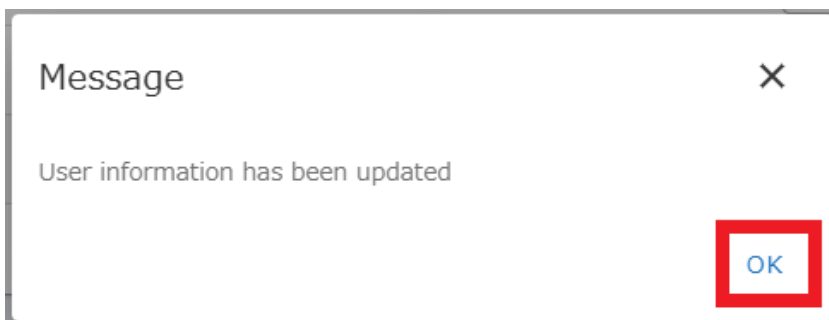
Cancel **OK**

3. In the confirmation dialog, press the OK button.



The screenshot shows the 'Edit User' form with a confirmation dialog box overlaid. The form fields include: User ID (Sampleuser001), New Password (masked with dots), Confirm (masked with dots), Permissions (Design), and Access Token (Keep unchanged). A checkbox for 'Force password change on next login' is checked. The confirmation dialog box contains the text 'Confirmation' and 'User information will be updated. Are you sure?' with 'Cancel' and 'OK' buttons. The 'OK' button is highlighted with a red square.

4. In the message dialog, press the OK button.



The screenshot shows a 'Message' dialog box with the text 'User information has been updated' and an 'OK' button. The 'OK' button is highlighted with a red square.

5. Confirm that the user information has been changed.

User Management operating operating DFCadmin Administrator Global - English

**User List** ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Designer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

### 3.7.4 Deleting User Information

---

You can delete a user by the following procedure.

1. Press the Delete button for the user displayed in the User List.  
\*In this example, SampleUser001 is deleted.

User Management operating operating DFCadmin Administrator Global - English

User List ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Administrator	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

2. In the confirmation dialog, press the OK button.

Confirmation ×

User will be deleted. Are you sure?

Cancel OK

3. In the message dialog, press the OK button.

Message ×

User has been deleted

OK

4. Confirm that the user has been deleted.

User Management operating operating DFCadmin Administrator Global - English

User List ⓘ Current Number of Users: 4users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <input type="checkbox"/> <input type="checkbox"/>	<span>Edit</span> <span>Delete</span>

### 3.7.5 Changing User Status

You can change the user status (Enabled/Disabled) by the following procedure.

1. Press the Status toggle switch for the user displayed in the User List.

\*In this example, the status is changed from Enabled to Disabled.

User Management operating operating DFCadmin Administrator Global - English

User List ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <span>👁</span> <span>📄</span>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <span>👁</span> <span>📄</span>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Administrator	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

2. In the message dialog, press the OK button.

Message ×

User has been disabled

OK

3. Confirm that the user status has been changed.

User Management operating operating DFCadmin Administrator Global - English

User List ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	..... <span>👁</span> <span>📄</span>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	..... <span>👁</span> <span>📄</span>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Administrator	Disabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

### 3.7.6 About Access Token

If you choose to Create an access token in the Create New User dialog or the Edit User dialog, the access token will also be issued simultaneously with user creation or change.

## Create New User ✕

User ID \*

New Password \*

Confirm Password \*

Permissions \* ▼

Administrator

Access Token \* ▲

Generate

---

Not generate

Generate

Cancel
OK

The issued access token can be used with the [REST API](#).

User Management operating
operating ▼
DFCadmin Administrator ▼
Global - English ▼

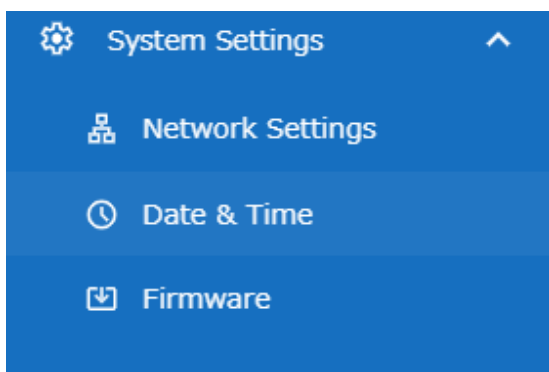
**User List** ⓘ Current Number of Users: 5users (Limit100users) + Create User

User ID	Permissions	Status	Access Token	Actions
DFCadmin	Administrator	Enabled <input type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
de1	Designer	Enabled <input checked="" type="checkbox"/>	<div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;"> <span style="font-family: monospace; font-size: 0.8em;">.....</span> <span style="margin-left: 10px;">👁</span> <span style="margin-left: 10px;">📄</span> </div>	<span>Edit</span> <span>Delete</span>
ma1	Maintainer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>
admin	Administrator	Enabled <input checked="" type="checkbox"/>	<div style="border: 1px solid #ccc; padding: 2px; display: flex; align-items: center;"> <span style="font-family: monospace; font-size: 0.8em;">.....</span> <span style="margin-left: 10px;">👁</span> <span style="margin-left: 10px;">📄</span> </div>	<span>Edit</span> <span>Delete</span>
Sampleuser001	Designer	Enabled <input checked="" type="checkbox"/>	-	<span>Edit</span> <span>Delete</span>

## 3.8 System Settings

This section describes the system settings.  
The configurable items are as follows.

Item	Description
Networks	Configure the network-related settings of this Controller.
Date & Time	Set the system time of this Controller.
Firmware	Update the firmware.



### 3.8.1 Network Settings

Configure the network-related settings of this Controller.  
The network setting items are as follows.

Item	Description
Interface List	Displays the set values of network interfaces in list form.
TCP/IP Address Settings	Set the IP addresses per network interface.
DNS Settings	Configure the DNS settings of this Controller.
mDNS Settings	Configure the mDNS settings of this Controller.
Proxy Settings	Configure the proxy settings of this Controller.

Interface List setup setup DFCadmin Administrator Global - English

Interface List TCP/IP Settings DNS Settings mDNS Settings Proxy Settings

Interface Name	Status	IP Address	Actions
eth0	up	192.168.1.100	Update

## Interface List

Displays the set values of network interfaces of this Controller in list form.  
The displayed items are as follows.

Item	Description
Interface Name	Physical interface name
Status	Displays the operating status.
IPv4 Address	IP address set for the corresponding interface
Action	Edit button: Pressing this navigates you to the TCP/IP Settings tab of the corresponding interface.

## TCP/IP Address Settings

Set the IP addresses for network interfaces.

When the IP address is automatically set by DHCP, the setting items are displayed as follows.

Item	Input method	Description
Interface	Pulldown	List of physical interface names
IP setting method	Radio button	Select whether to set the IP address by DHCP or manually.
IP Address	Label	IP address set for the corresponding interface
Subnet Mask	Label	Subnet mask set for the corresponding interface
Default Gateway	Label	Default gateway set for the corresponding interface

**TCP/IP Settings** setup setup DFCadmin Administrator Global - English

Interface List **TCP/IP Settings** DNS Settings mDNS Settings Proxy Settings

**Interface Selection**

Select Interface  
eth0 - 192.168.1.100

**TCP/IP Settings**

Use DHCP (Automatic)  Set Static IP

**Current Settings**

IP Address **192.168.1.100 (Obtained from DHCP)**

Subnet Mask **255.255.255.0 (Obtained from DHCP)**

Default Gateway **192.168.1.1 (Obtained from DHCP)**

**Apply**

When the IP address is manually set, the setting items are displayed as follows.

Item	Input method	Description
Interface	Pulldown	List of physical interface names
IP setting method	Radio button	Select whether to set the IP address by DHCP or manually.
IP Address	Text	IP address set for the corresponding interface
Subnet Mask	Text	Subnet mask set for the corresponding interface
Default Gateway	Text	Default gateway set for the corresponding interface

**TCP/IP Settings** setup setup DFCadmin Administrator Global - English

Interface List **TCP/IP Settings** DNS Settings mDNS Settings Proxy Settings

**Interface Selection**

Select Interface  
eth0 - 192.168.1.100

**TCP/IP Settings**

Use DHCP (Automatic)  Set Static IP

**Static IP Settings**

IP Address \*  
192.168.1.100

Subnet Mask \*  
255.255.255.0

Default Gateway  
192.168.1.1

**Apply**

#### IP ADDRESS SETTING METHOD

You can use the following procedure to set the IP address for the target interface.

 **WARNING**

If you change the IP address or hostname, communication with the Controller may become impossible and an error screen may be displayed. Please access it again with the new address.

1. Select the target interface from the pulldown list.

**Interface Selection**

Select Interface  
eth0 - 192.168.1.100

2. Select the IP address setting method.

**TCP/IP Settings**

Use DHCP (Automatic)  Set Static IP

**Static IP Settings**

IP Address  
192.168.1.100

Subnet Mask  
255.255.255.0

Default Gateway  
192.168.1.1

Apply

3. If Set Static IP is selected, enter the following items.

Item	Input method	Description
IP Address	Text	IP address to be set for the corresponding interface
Subnet Mask	Text	Subnet mask to be set for the corresponding interface
Default Gateway	Text	Default gateway to be set for the corresponding interface

**TCP/IP Settings**

Use DHCP (Automatic)  Set Static IP

**Static IP Settings**

IP Address  
192.168.1.100

Subnet Mask  
255.255.255.0

Default Gateway  
192.168.1.1

Apply

4. Press the Apply button.

**TCP/IP Settings**

Use DHCP (Automatic)  Set Static IP

**Static IP Settings**

IP Address \*  
192.168.1.100

Subnet Mask \*  
255.255.255.0

Default Gateway  
192.168.1.1

Apply

5. In the confirmation dialog, press the OK button.

**Confirmation** ×

TCP/IP settings will be applied. Are you sure?

Cancel OK

6. In the message dialog, press the OK button.

**Message** ×

TCP/IP settings completed.

OK

## DNS Settings

Configure the DNS settings of this Controller.

**DNS Settings** setup

setup ▾

DFCadmin  
Administrator ▾

Global - English ▾

Interface List   TCP/IP Settings   **DNS Settings**   mDNS Settings   Proxy Settings

**DNS Settings**

Primary DNS \*  
Primary DNS

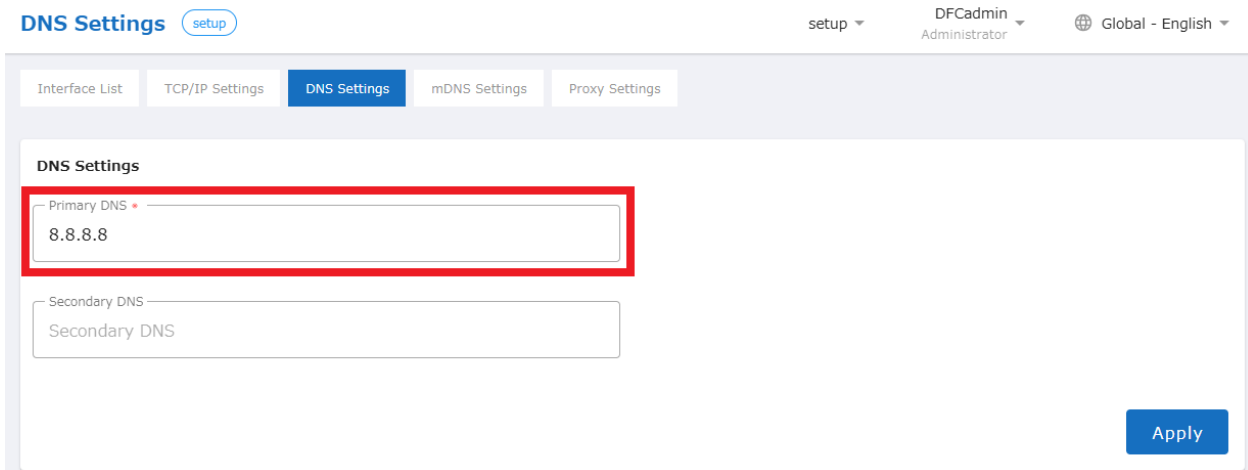
Secondary DNS  
Secondary DNS

Apply

**DNS SETTING METHOD**

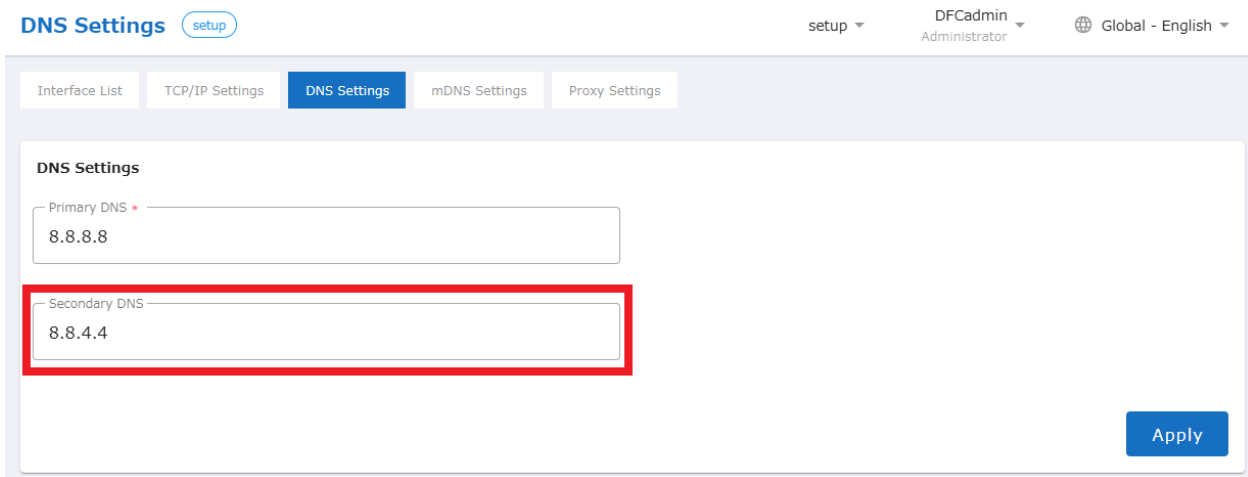
You can set the DNS information by the following procedure.

1. Enter the address in Primary DNS.



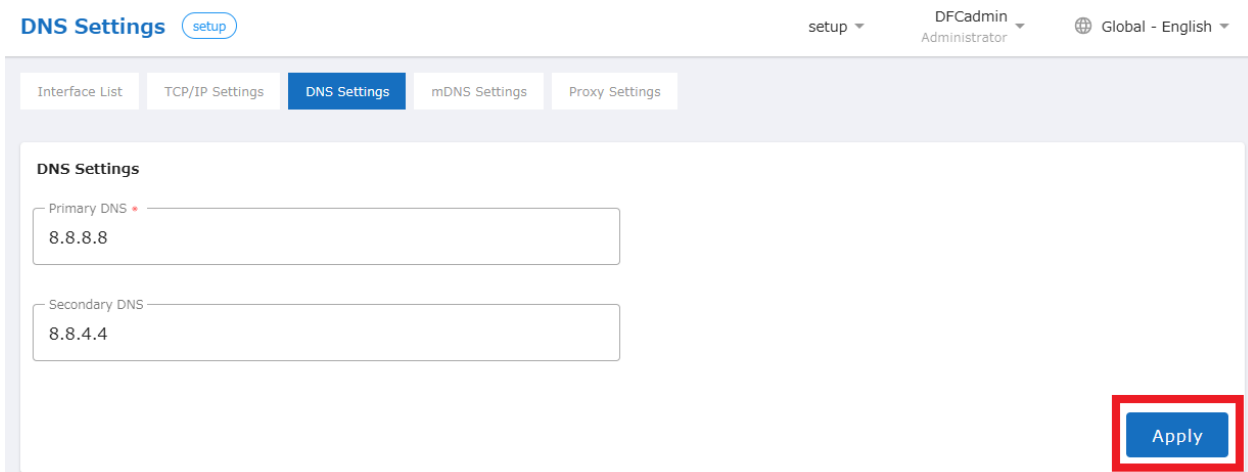
The screenshot shows the 'DNS Settings' page in a web interface. At the top, there are navigation elements: 'DNS Settings' with a 'setup' button, 'setup' dropdown, 'DFCadmin Administrator', and 'Global - English' dropdown. Below this is a tabbed interface with 'Interface List', 'TCP/IP Settings', 'DNS Settings' (selected), 'mDNS Settings', and 'Proxy Settings'. The main content area is titled 'DNS Settings' and contains two input fields: 'Primary DNS' with the value '8.8.8.8' and 'Secondary DNS' with the placeholder 'Secondary DNS'. A blue 'Apply' button is located at the bottom right. A red rectangular box highlights the 'Primary DNS' input field.

2. Enter the address in Secondary DNS.



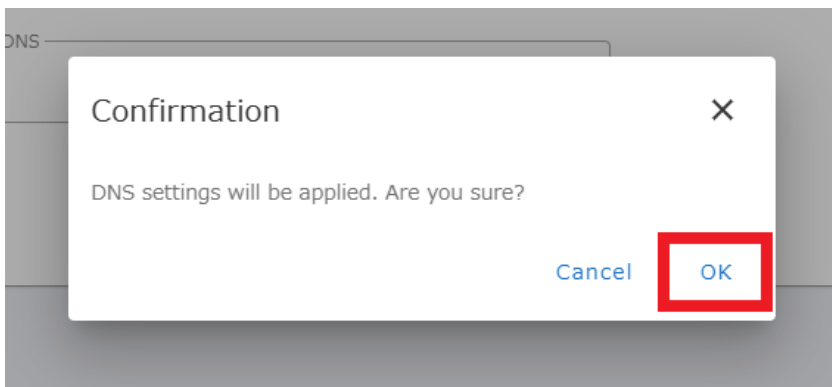
The screenshot shows the 'DNS Settings' page. The 'Primary DNS' field now contains '8.8.8.8'. The 'Secondary DNS' field now contains '8.8.4.4' and is highlighted with a red rectangular box. The 'Apply' button remains at the bottom right.

3. Press Apply.

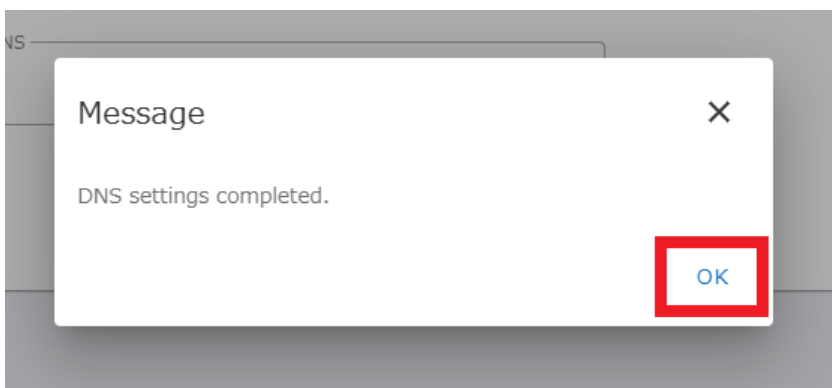


The screenshot shows the 'DNS Settings' page with both the 'Primary DNS' (8.8.8.8) and 'Secondary DNS' (8.8.4.4) fields filled. A red rectangular box highlights the blue 'Apply' button at the bottom right.

4. In the confirmation dialog, press the OK button.

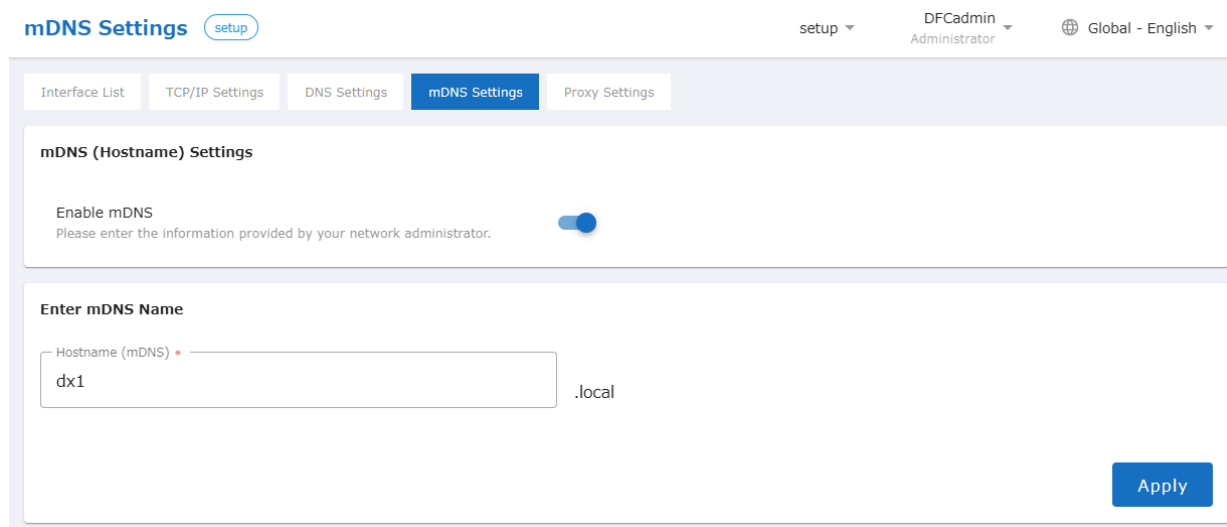


5. In the message dialog, press the OK button.



### mDNS Settings

Configure the mDNS settings of this Controller.



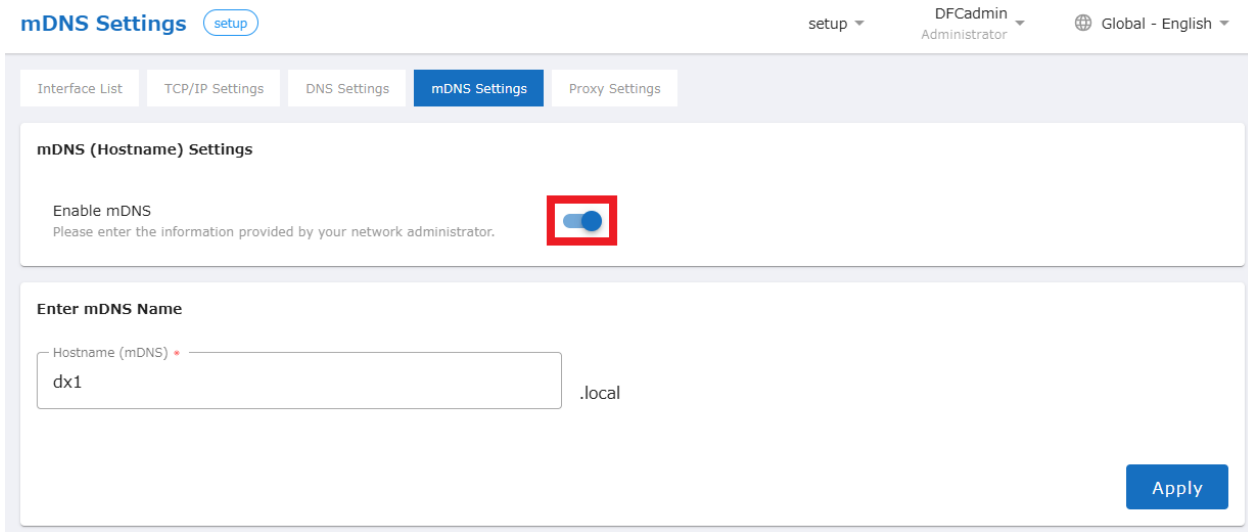
### MDNS SETTING METHOD

You can set the mDNS information by the following procedure.

 **WARNING**

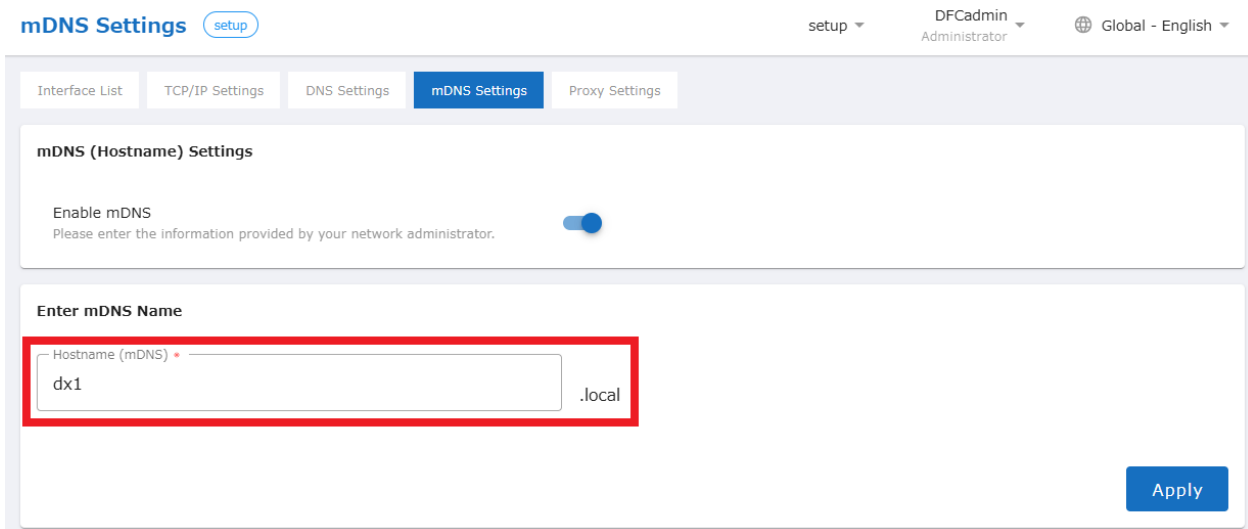
If you change the IP address or hostname, communication with the Controller may become impossible and an error screen may be displayed. Please access it again with the new address.

1. Turn the Set mDNS toggle switch to ON.



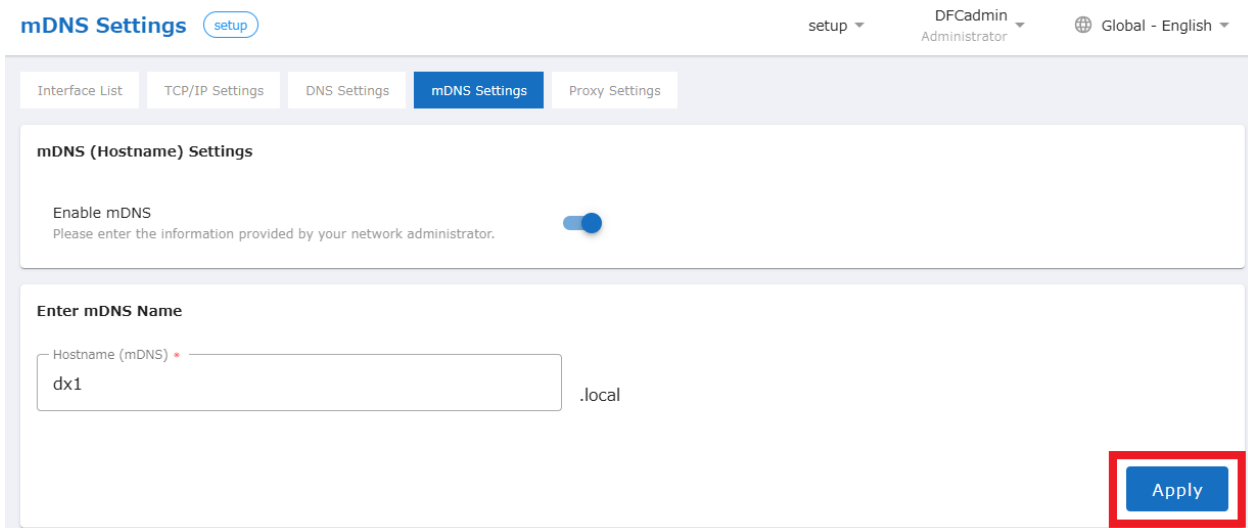
The screenshot shows the 'mDNS Settings' page. At the top, there are navigation tabs: 'Interface List', 'TCP/IP Settings', 'DNS Settings', 'mDNS Settings' (selected), and 'Proxy Settings'. Below the tabs, the 'mDNS (Hostname) Settings' section contains the 'Enable mDNS' toggle switch, which is turned ON and highlighted with a red box. Below this, the 'Enter mDNS Name' section has a text input field containing 'dx1' and '.local'. An 'Apply' button is located at the bottom right.

2. Enter the mDNS name in Hostname (mDNS).



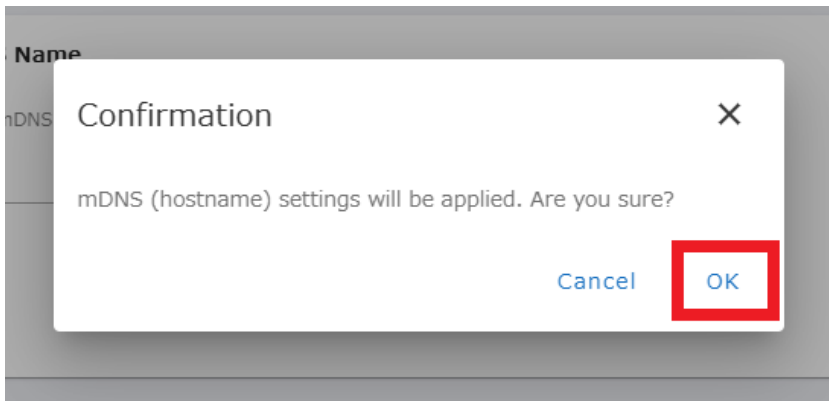
The screenshot shows the 'mDNS Settings' page. The 'Enable mDNS' toggle switch is now turned OFF. The 'Enter mDNS Name' section has a text input field containing 'dx1' and '.local', which is highlighted with a red box. An 'Apply' button is located at the bottom right.

3. Press Apply.

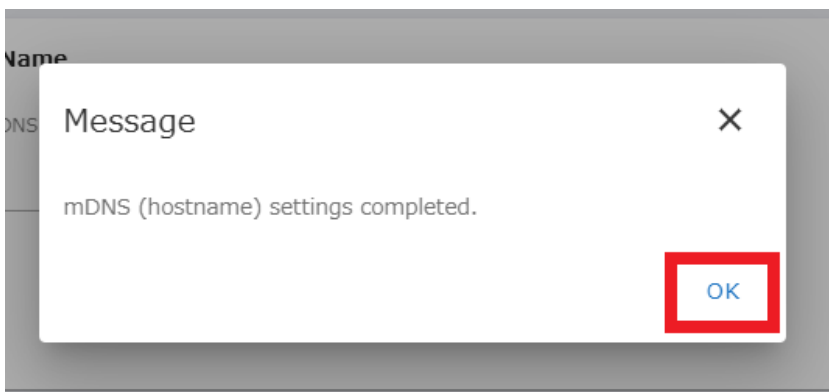


The screenshot shows the 'mDNS Settings' page. The 'Enable mDNS' toggle switch is turned OFF. The 'Enter mDNS Name' section has a text input field containing 'dx1' and '.local'. The 'Apply' button at the bottom right is highlighted with a red box.

4. In the confirmation dialog, press the OK button.



5. In the message dialog, press the OK button.



### Proxy Settings

Configure the proxy settings of this Controller.

Proxy Settings Setup

setup ▾

DFCAdmin  
Administrator ▾

Global - English ▾

- Interface List
- TCP/IP Settings
- DNS Settings
- mDNS Settings
- Proxy Settings**

**Use Proxy**

Use proxy server  
Please enter the information provided by your network administrator.



**Enter Proxy Server Settings**

Script URL  
http://proxy.example.com/config.pac

http  
http://proxy.example.com:8080

https  
https://proxy.example.com:8443

ftp  
ftp://proxy.example.com:2121

**Enter No Proxy Settings**

Addresses not to use proxy  
localhost,127.0.0.1

**Authentication Settings**

No authentication  Use authentication

Apply


**PROXY SETTING METHOD**

You can set the proxy information by the following procedure.

1. Turn the Use proxy server toggle switch to ON.

**Use Proxy**

Use proxy server  
Please enter the information provided by your network administrator.



2. Enter the following items for proxy server settings.

Item	Input method	Description
Proxy Auto-Configuration (PAC) URL	Text	URL for auto-configuration script
http Proxy	Text	Address for http connection
https Proxy	Text	Address for https connection
ftp Proxy	Text	Address for ftp connection

**Enter Proxy Server Settings**

Script URL  
Script URL

http  
http

https  
https

ftp  
ftp

3. To configure No Proxy settings, enter the address in Proxy exclusion hosts.

**Enter No Proxy Settings**

Addresses not to use proxy  
Addresses not to use proxy

4. Select whether to use proxy authentication.

**Authentication Settings**

No authentication  Use authentication

To set authentication information, click "Enter Authentication Information".

Enter Authentication Information

**User Information**

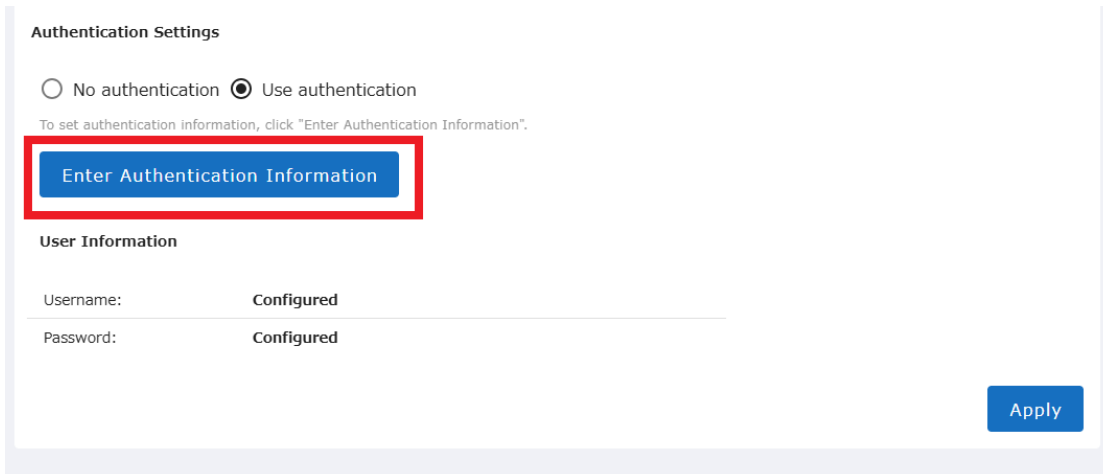
Username: Configured

---

Password: Configured

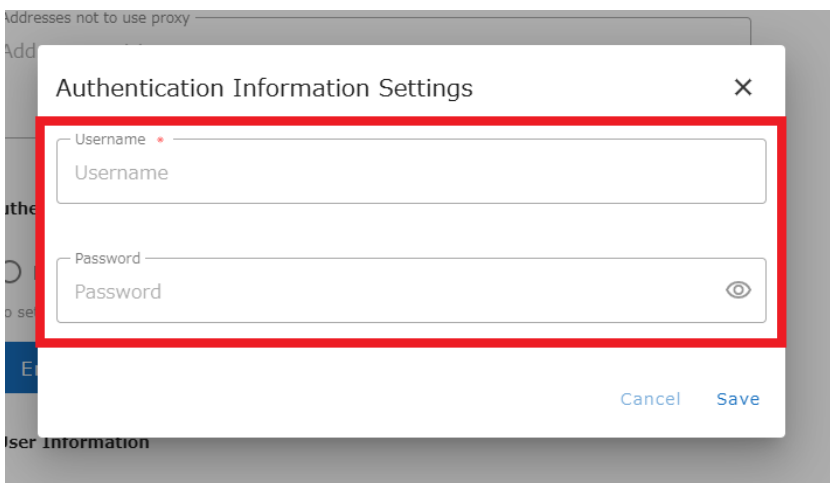
Apply

5. If Use authentication is selected, press the Enter Authentication Information button.

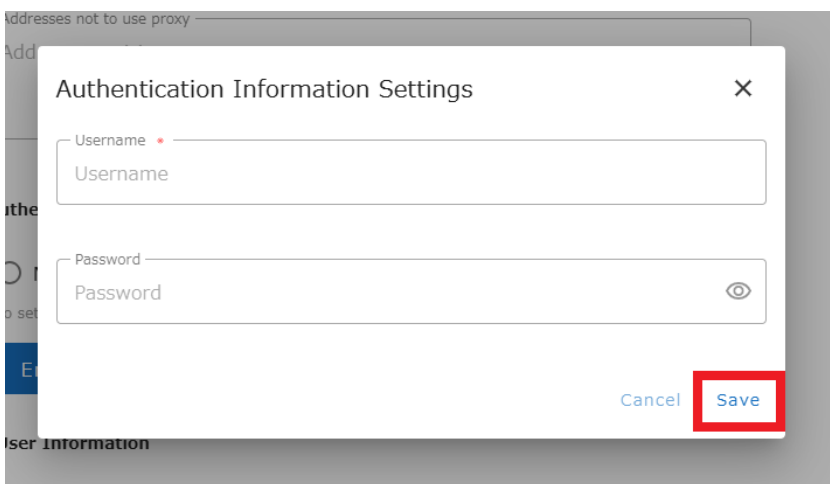


6. In the displayed Enter Authentication Information dialog, enter the following items.

Item	Input method	Description
Proxy Authentication User	Text	User ID for proxy server connection
Proxy Authentication Password	Text	Password for proxy server connection



7. Press the Save button in the dialog.



8. Press Apply.

Proxy Settings Setup

Interface List TCP/IP Settings DNS Settings mDNS Settings **Proxy Settings**

**Use Proxy**

Use proxy server    
 Please enter the information provided by your network administrator.

**Enter Proxy Server Settings**

Script URL   
 http://proxy.example.com/config.pac

http   
 http://proxy.example.com:8080

https   
 https://proxy.example.com:8443

ftp   
 ftp://proxy.example.com:2121

**Enter No Proxy Settings**

Addresses not to use proxy   
 localhost,127.0.0.1

**Authentication Settings**

No authentication  Use authentication   
 To set authentication information, click "Enter Authentication Information".

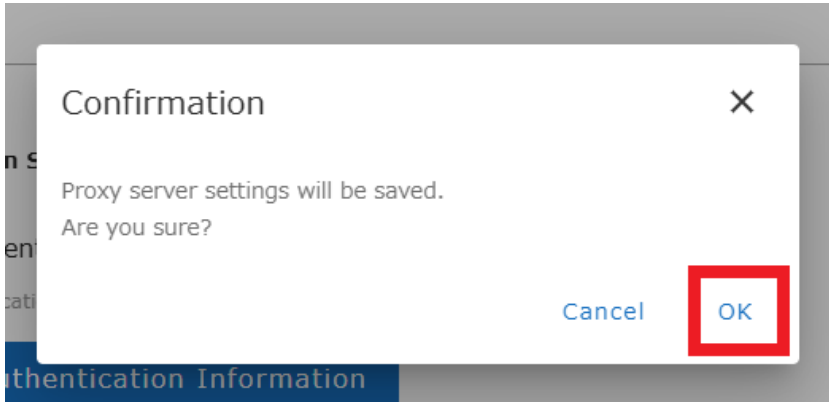
[Enter Authentication Information](#)

**User Information**

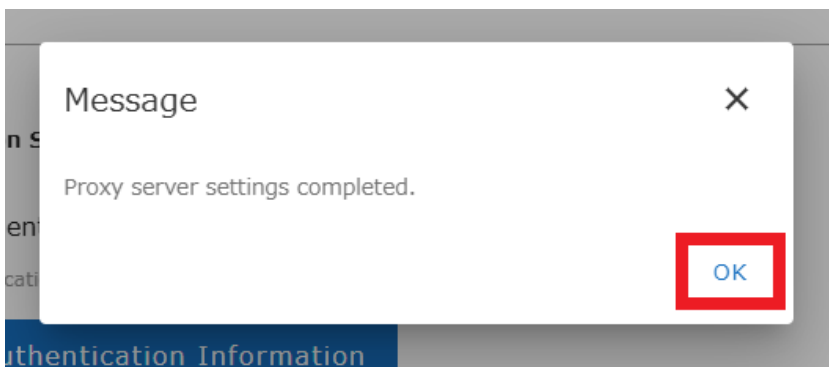
Username: Configured   
 Password: Configured

[Apply](#)

9. In the confirmation dialog, press the OK button.



10. In the message dialog, press the OK button.



## 3.8.2 Time Settings

Set the system time of this Controller.

The system time setting items are as follows.

Item	Input method	Description
Time Zone	Pulldown	Displays a list of selectable time zones.
Time zone setting for data collection	Check box	Select this to apply the time zone setting to data collection.
NTP usage setting	Radio button	Select whether to set the time by NTP synchronization or manually.
Get Current Time	Check box	Select this to automatically set the current date and time.
Date & Time	Text box	When performing manual setting, enter the date and time to be set.
NTP Server 1	Text	When using NTP, directly enter the NTP server information to be used.
NTP Server 2	Text	When using NTP, directly enter the NTP server information to be used. (Optional)

Date & Time setup
setup ▾
DFCadmin Administrator ▾
Global - English ▾

**System Time Settings**

Apply time zone settings to data collection

Time Zone ▾  
Tokyo-Osaka-Sapporo (UTC+09:00)

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time ▾  
2025/06/05 15:10:58

NTP Server Address (Primary) ▾  
ntp.example.com

NTP Server Address (Secondary) ▾  
ntp2.example.com

Apply

### Time Setting Method

You can set the system time by the following procedure.

When using NTP, the time is synchronized at the following timings:

- a) When the setting to use the NTP server is applied
- b) When Data Flow Controller is started or restarted while the setting to use the NTP server is applied

1. Select the desired time zone from Time Zone in the System Time Settings field.

By turning on the Apply time zone settings to data collection check box, you can apply the same time zone to the data collection time.

- a) If the check box is turned off, UTC will be applied to the data collection time zone.

**Date & Time** setup setup DFCadmin Administrator Global - English

**System Time Settings**

Apply time zone settings to data collection

Time Zone \*   
Tokyo·Osaka·Sapporo (UTC+09:00) ▼

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time \*   
2025/06/05 15:10:58

NTP Server Address (Primary) \*   
ntp.example.com

NTP Server Address (Secondary)   
ntp2.example.com

**Apply**

2. Select either Sync with NTP Server or Set Time Manually using the radio button.

**Date & Time** setup setup DFCadmin Administrator Global - English

**System Time Settings**

Apply time zone settings to data collection

Time Zone \*   
Tokyo·Osaka·Sapporo (UTC+09:00) ▼

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time \*   
2025/06/05 15:10:58

NTP Server Address (Primary) \*   
ntp.example.com

NTP Server Address (Secondary)   
ntp2.example.com

**Apply**

3. If Sync with NTP Server is selected using the radio button, enter one or more NTP server URLs in NTP Server.

**Date & Time** setup setup DFCadmin Administrator Global - English

**System Time Settings**

Apply time zone settings to data collection

Time Zone •   
Tokyo·Osaka·Sapporo (UTC+09:00) ▾

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time •   
2025/06/05 15:10:58

NTP Server Address (Primary) •   
ntp.example.com

NTP Server Address (Secondary)   
ntp2.example.com

**Apply**

4. If Set Time Manually is selected using the radio button, enter the system time in Date & Time.

By turning on the Get Current Time checkbox, you can set the current date and time in Date & Time.

- The browser time will be set in Date & Time and will be updated automatically.
- The system time of the Controller will be set to the browser time at the time of pressing the Apply button.

**Date & Time** setup setup DFCadmin Administrator Global - English

**System Time Settings**

Apply time zone settings to data collection

Time Zone •   
Tokyo·Osaka·Sapporo (UTC+09:00) ▾

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time •   
2025/06/05 15:10:58 🗓

NTP Server Address (Primary) •   
ntp.example.com

NTP Server Address (Secondary)   
ntp2.example.com

**Apply**

5. Press the Apply button.

**Date & Time** setup setup DFCadmin Administrator Global - English

**System Time Settings**

Apply time zone settings to data collection

Time Zone: Tokyo·Osaka·Sapporo (UTC+09:00)

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time: 2025/06/05 15:10:58

NTP Server Address (Primary): ntp.example.com

NTP Server Address (Secondary): ntp2.example.com

**Apply**

6. In the confirmation dialog, press the OK button.

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time: 2026/01/27 18:09:59

NTP Server Address (Primary): ntp.example.com

NTP Server Address (Secondary): ntp2.example.com

**Confirmation** ✕

Date and time settings will be saved.  
Are you sure?

Cancel **OK**

7. In the message dialog, press the OK button.

Sync with NTP Server  Set Time Manually  Get Current Time

Date & Time: 2026/01/27 18:09:59

NTP Server Address (Primary): ntp.example.com

NTP Server Address (Secondary): ntp2.example.com

**Message** ✕

Date and time settings completed.

OK

### 3.8.3 Firmware Management

Manage the firmware update of this Controller.

**Update** setup setup DFCadmin Administrator Global - English

**Update File List**

Current Version	Target Version	Action
1.0.0	0.4.2	<b>Start Update</b>

### **How to Update the Firmware**

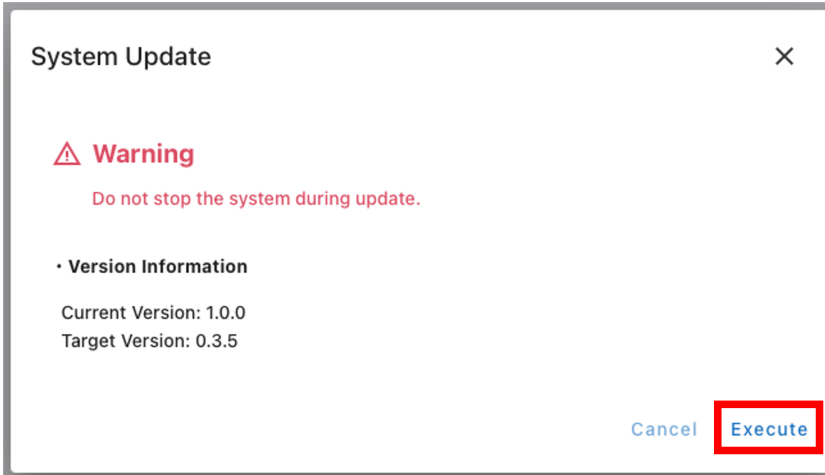
You can update the firmware by the following procedure.

1. Press the Start Update button for the target bundle version.

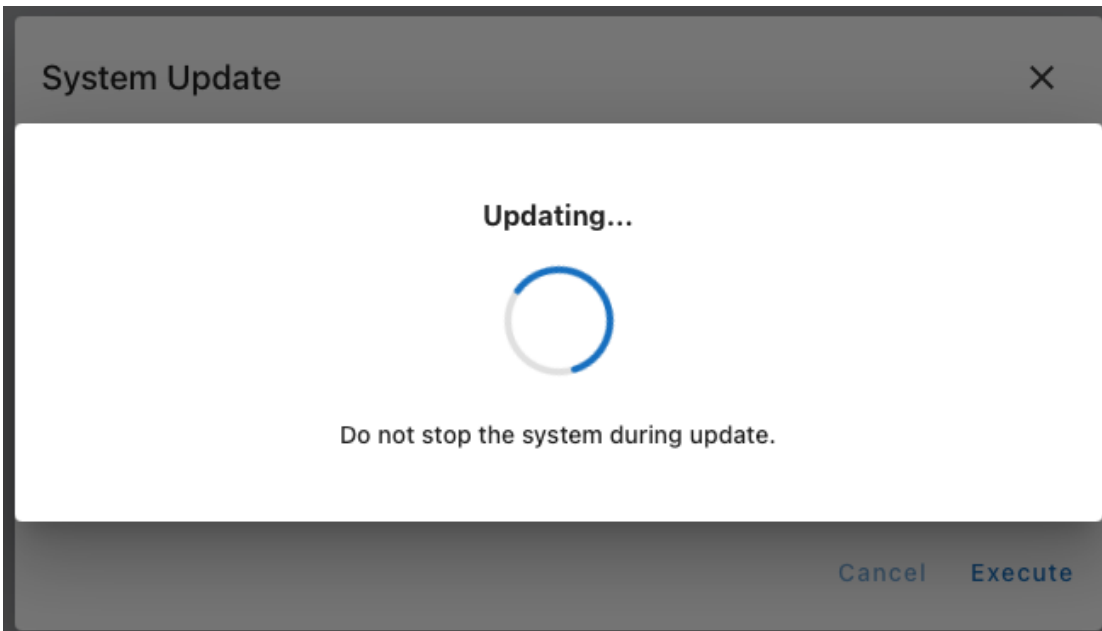
\*In this example, the version is updated to v0.3.5 .

Update File List		
Current Version	Target Version	Action
1.0.0	0.3.5	<input type="button" value="Start Update"/>

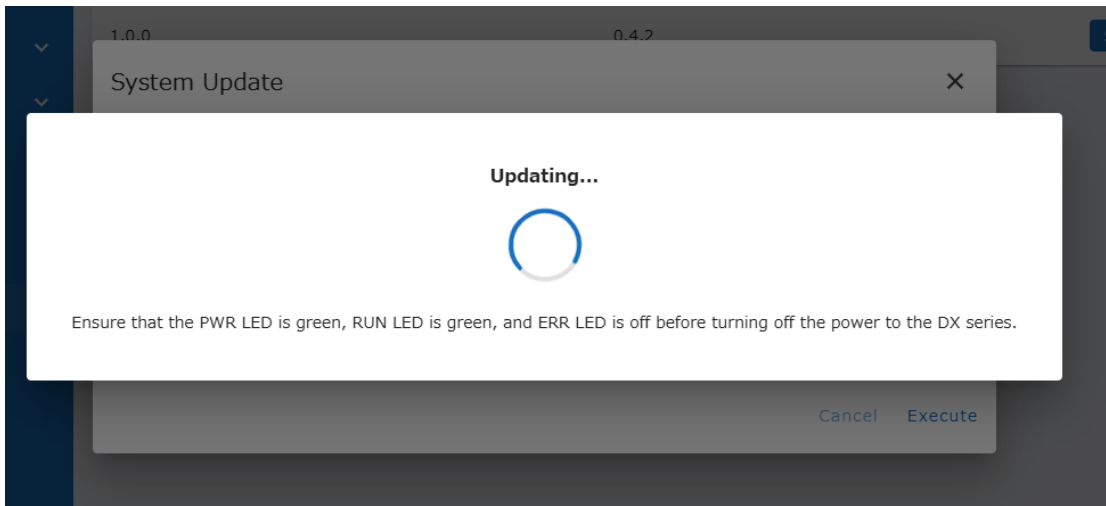
2. In the displayed system update dialog, press the Execute button.



3. The update process is executed. Wait until the update is complete.



4. Check the message displayed in the dialog, power off the controller.



## 3.9 System Information

This section describes the system information.  
The displayed items are as follows.

Item	Description
Product Manual	Displays a link to the operation manual of the Controller.
Production Information	Displays the production information of the Controller.
System Information	Displays the system information of the Controller.
License	Displays the OSS information used by the Controller.

System Information operating
operating ▾ DFCAdmin Administrator ▾ Global - English ▾

**Product Manual**

[View Manual](#) [View Tutorial Video](#)

**Production Information**

Model Type	DX100-0010
Production Factory	K01
Lot No.	14725
Serial No.	0010
Hardware Version	/A

**System Information**

Unit Version	1.0.0
Cumulative Operation Time	3820minutes
Continuous Operation Time	69minutes
Hostname	dx1
Architecture	ARM64
Network Interface	eth0 (00-00-0A-B1-9E-4E) eth1 (00-00-0A-B1-9E-4F)

**License**

[@babel/helper-string-parser@7.25.9 - The Babel Team \(MIT\)](#)  
<https://github.com/babel/babel>

[@babel/helper-validator-identifier@7.25.9 - The Babel Team \(MIT\)](#)  
<https://github.com/babel/babel>

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<https://github.com/babel/babel>

[@babel/types@7.27.0 - The Babel Team \(MIT\)](#)  
<https://github.com/babel/babel>

[@esbuild/linux-arm64@0.25.2 \(MIT\)](#)  
<https://github.com/evaneos/esbuild>

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<https://github.com/eslint-community/eslint-utils>

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<https://github.com/eslint-community/eslint-utils>

[@eslint-community/regexpp@4.12.1 - Toru Nagashima \(MIT\)](#)  
<https://github.com/eslint-community/regexpp>

**RAUC - RAUC (LGPL-2.1)**  
<https://github.com/rauc/rauc>

### 3.9.1 Product Manual

Displays a link to the operation manual of the Web UI.  
Clicking the link will display the manual in a separate tab.

**Product Manual**

[View Manual](#) [View Tutorial Video](#)

### 3.9.2 Production Information

The following items are displayed in the production information display area.

Item
Model Type
Production Factory
Lot No.
Serial No.
Hardware Version

Production Information	
Model Type	DX100-0010
Production Factory	K01
Lot No.	14725
Serial No.	0010
Hardware Version	/A

### 3.9.3 System Information

The following items are displayed in the system information display area.

Item	Description
Unit Version	Displays the unit version of the Controller.
Cumulative Operation Time	Displays the cumulative operation time of the Controller.
Continuous Operation Time	Displays the continuous operation time of the Controller.
Hostname	Displays the hostname of the Controller.
Architecture	Displays the CPU architecture provided on the Controller.
Network Interface	Displays the interface name of the Controller.

System Information	
Unit Version	1.0.0
Cumulative Operation Time	3820minutes
Continuous Operation Time	69minutes
Hostname	dx1
Architecture	ARM64
Network Interface	eth0 (00-00-0A-B1-9E-4E) eth1 (00-00-0A-B1-9E-4F)

### 3.9.4 License

The OSS information used by the Controller is displayed in the license display area.

## License

**@babel/helper-string-parser@7.25.9 - The Babel Team (MIT)**  
<https://github.com/babel/babel>

**@babel/helper-validator-identifier@7.25.9 - The Babel Team (MIT)**  
<https://github.com/babel/babel>

**@babel/parser@7.27.0 - The Babel Team (MIT)**  
<https://github.com/babel/babel>

**@babel/types@7.27.0 - The Babel Team (MIT)**  
<https://github.com/babel/babel>

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**RAUC - RAUC (LGPL-2.1)**  
<https://github.com/rauc/rauc>

## 3.10 Shutdown Management

This section describes the shutdown management.

### 3.10.1 Shutdown

Shuts down the system of this Controller.

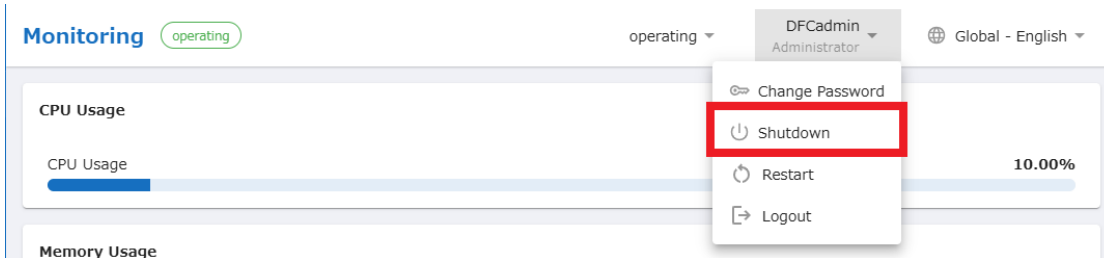
#### Shutdown Procedure

Use the following procedure to shut down the Controller.

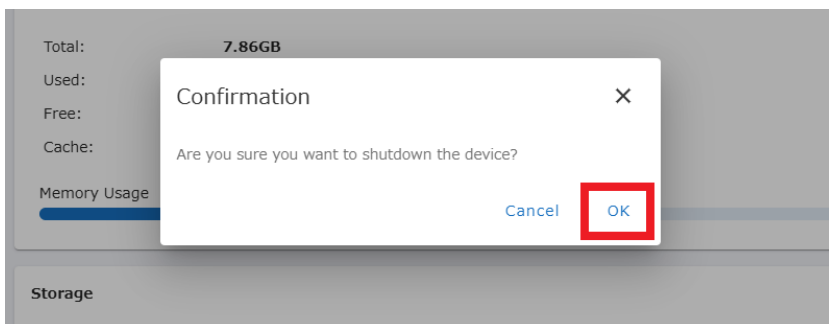
1. Press the username displayed at the right part of the header.



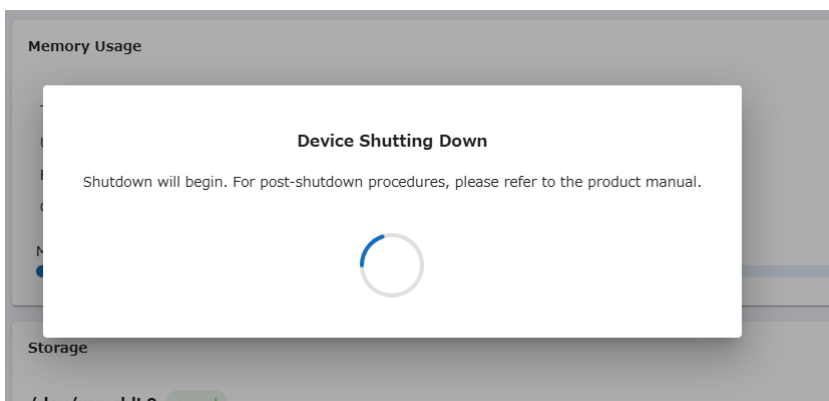
2. From the displayed list, press Shutdown.



3. In the confirmation dialog, press the OK button.



4. Wait until the shutdown is complete.



### 3.10.2 Restart

Restarts the system of this Controller.

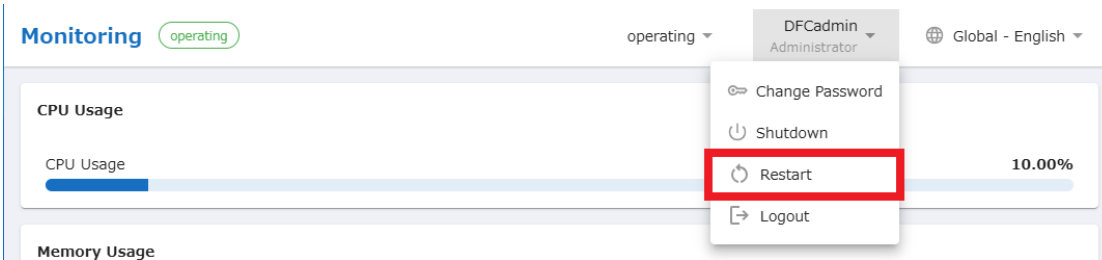
#### Restart Procedure

Use the following procedure to restart the Controller.

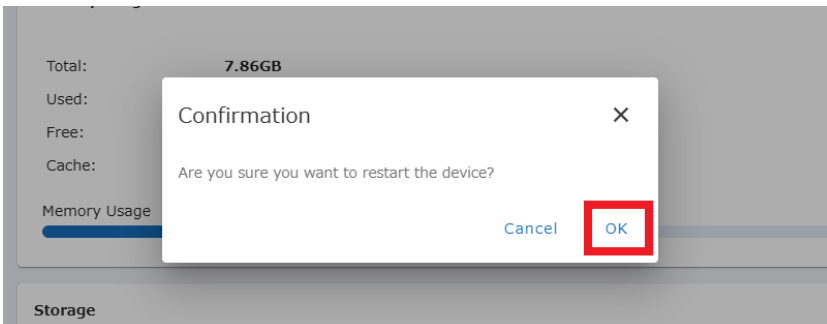
1. Press the username displayed at the right part of the header.



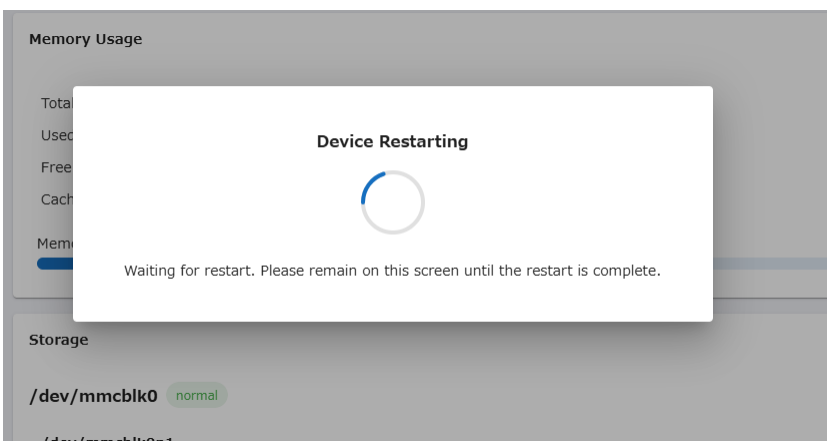
2. From the displayed list, press Restart.



3. In the confirmation dialog, press the OK button.



4. Wait until the restart is complete.



## 3.11 REST API

### 3.11.1 Introduction to the API

Some operations of Data Flow Controller can be performed externally using the API.

### 3.11.2 How to Execute the API

Here, we describe how to execute the API using the curl command as an example.

If curl is not installed, download it from the official curl website and install it on your machine.

1. Open an environment to execute the curl command. On Linux, open the terminal; on Windows, open the command prompt.
2. Copy the Request using the curl command of each API in [API Specifications](#) and paste it into the environment to execute the curl command.  
\*Some parts of the Request using the curl command need to be replaced. Refer to [Common Items](#) for details.
3. Pressing the Enter key will execute the API, and the response will be displayed.  
Refer to the Response of each API in [API Specifications](#) for details of the response.

The Request using the curl command of each API in [API Specifications](#) specifies the following items.  
When executing the API using a method other than the curl command, the same items need be specified.

Item	Description
HTTP method	Specified in the form of -X "~~~".
Request URL	This is a URL starting with "http://".
HTTP header	Specified in the form of -H "~~~".
Data transmitted with PUT method or POST method	Specified in the form of -d "~~~".

### 3.11.3 API Specifications

Provides a list of operations that can be performed using the API, along with their request methods and responses. By understanding the API specifications and transmitting identical requests from various programs, usage across various programming languages and integration with control programs are enabled.

Refer to [API Interface](#) for the document of detailed API specifications.

#### Common Items

The following list contains common items for the contents provided in the subsequent request examples.

- should be replaced with the host and port where Data Flow Controller is running.
- should be replaced with the access token issued in [About Access Token](#).
- If a reverse proxy is configured, access via https.

#### Retrieving Main Unit Information

- Introduction

Retrieves the main unit status of Data Flow Controller.

- Request URL

```
http://<Data Flow Controller host:port>/api/v1/fwGetStatus
```

- Request using the curl command

**Linux**                      **Windows**

```
$ curl -X "GET" "http://<Data Flow Controller host:port>/api/v1/fwGetStatus" -H "accept: application/json" -H "X-API-Token: <Access Token>"
```

```
$ curl.exe -X "GET" "http://<Data Flow Controller host:port>/api/v1/fwGetStatus" -H "accept: application/json" -H "X-API-Token: <Access Token>"
```

- Response

Code	Description
200	Normal (OK)
400	Request error (Bad Request)
401	Authentication error (Unauthorized)
403	Authentication error (Forbidden)
404	Nonexistence error (Not Found)
409	Request conflict (Conflict)
429	Request limit exceeded (Too Many Requests)
500	Server error (Internal Server Error)
503	Service unavailable (Service Unavailable)

The normal response is in the following format.

```
{
  "success": "Completion flag (boolean value)",
  "data": {
    "state": "Main unit status of Data Flow Controller",
    "abnormalState": "Main unit abnormal status of Data Flow Controller",
    "activated": "Status of activation (boolean value)",
    "restartRequired": "Restart required flag (boolean value)",
    "usbError": "USB error status (boolean value)",
  }
}
```

## Updating Main Unit Information

- Introduction

Update the main unit status of Data Flow Controller.

- Request URL

```
http://<Data Flow Controller host:port>/api/v1/fwSetStatus
```

- Request using the curl command

**Linux**                      **Windows**

```
$ curl -X "POST" "http://<Data Flow Controller host:port>/api/v1/fwSetStatus" -H "accept: application/json" -H "X-API-Token: <Access Token>" -d '{"state": "\<Main unit status code>"}'
```

```
$ curl.exe -X "POST" "http://<Data Flow Controller host:port>/api/v1/fwSetStatus" -H "accept: application/json" -H "X-API-Token: <Access Token>" -d '{"state": "\<Main unit status code>"}'
```

- Response

Code	Description
200	Normal (OK)
400	Request error (Bad Request)
401	Authentication error (Unauthorized)
403	Authentication error (Forbidden)
404	Nonexistence error (Not Found)
409	Request conflict (Conflict)
429	Request limit exceeded (Too Many Requests)
500	Server error (Internal Server Error)
503	Service unavailable (Service Unavailable)

The normal response is in the following format.

```
{
  "success": "Completion flag (boolean value)",
  "data": {}
}
```

## Shutdown

- Introduction

Transmits the shutdown request of Data Flow Controller.

- Request URL

```
http://<Data Flow Controller host:port>/<subpath>/api/v1/shutdownStart
```

- Request using the curl command

### Linux

### Windows

```
$ curl -X "POST" "http://<Data Flow Controller host:port>/api/v1/shutdownStart" -H "accept: application/json" -H "X-API-Token: <Access Token>"
```

```
$ curl.exe -X "POST" "http://<Data Flow Controller host:port>/api/v1/shutdownStart" -H "accept: application/json" -H "X-API-Token: <Access Token>"
```

- Response

Code	Description
200	Normal (OK)
400	Request error (Bad Request)
401	Authentication error (Unauthorized)
403	Authentication error (Forbidden)
404	Nonexistence error (Not Found)
409	Request conflict (Conflict)
429	Request limit exceeded (Too Many Requests)
500	Server error (Internal Server Error)
503	Service unavailable (Service Unavailable)

The normal response is in the following format.

```
{
  "success": "Completion flag (boolean value)",
  "data": {}
}
```

## Restart

- Introduction

Transmits the restart request of Data Flow Controller.

- Request URL

```
http://<Data Flow Controller host:port>/<subpath>/api/v1/rebootStart
```

- Request using the curl command

### Linux

### Windows

```
$ curl -X "POST" "http://<Data Flow Controller host:port>/api/v1/rebootStart" -H "accept: application/json" -H "X-API-Token: <Access Token>"
```

```
$ curl.exe -X "POST" "http://<Data Flow Controller host:port>/api/v1/rebootStart" -H "accept: application/json" -H "X-API-Token: <Access Token>"
```

## • Response

Code	Description
200	Normal (OK)
400	Request error (Bad Request)
401	Authentication error (Unauthorized)
403	Authentication error (Forbidden)
404	Nonexistence error (Not Found)
409	Request conflict (Conflict)
429	Request limit exceeded (Too Many Requests)
500	Server error (Internal Server Error)
503	Service unavailable (Service Unavailable)

The normal response is in the following format.

```
{  
  "success": "Completion flag (boolean value)",  
  "data": {}  
}
```

## 4. Secure Usage Guide

---

This section describes how to use Data Flow Controller securely.

### 4.1 Managing Users

---

This section describes how to manage users in order to enhance the security level.

#### **Disabling the DFCAadmin user**

The DFCAadmin user is a default user registered in Data Flow Controller. This user is granted all permissions. To prevent abuse through unauthorized access, it is recommended to disable it unless necessary. Before disabling it, ensure that another user with system administrator permissions has been added.

For how to disable users, refer to [Account Management](#).

#### **Strong password policy**

It is desirable that the passwords registered for users be strong. Examples of the strong password policy are shown below. When using a tool to generate passwords automatically, you are recommended to generate a password that meets the following criteria.

- Contains at least 8 characters in length
- Contains at least one uppercase letter, one lowercase letter, one number, and one symbol
- Different from passwords used for other accounts
- Cannot be guessed from personal information such as names
- Does not use English words as they are
- Does not use easily guessable patterns or simple combinations of them

### 4.2 Strict Management of Tokens

---

[Access tokens](#) represent access permission to access resources when connecting to Data Flow Controller from external sources.

If a malicious attacker abuses any access token, there is a risk of unauthorized access to the resources of Data Flow Controller. It is recommended to manage access tokens strictly to prevent them from falling into the hands of third parties.

## 5. Appendix

---

- API Interface

# Data Flow Controller API Specification (1.0.0)

## System

### Returns the firmware status

This operation can be executed with any roles.

#### HEADER PARAMETERS

---

→ X-API-Token <b>required</b>	string Example: <code>your-token-here</code> API authentication token
----------------------------------	---

---

## Responses

✓ 200 OK

RESPONSE SCHEMA: application/json

---

└ success	boolean
└ data >	object

---

— 400 Bad Request

— 401 Unauthorized

— 403 Forbidden

— 404 Not Found

— 409 Conflict

— 429 Too Many Requests

— 500 Internal Server Error

— 503 Service Unavailable

GET /fwGetStatus

## Response samples

200

Content type

application/json

Copy Expand all Collapse all

```
{
  "success": true,
  "data": {
    "state": "string",
    "abnormalState": "string",
    "activated": true,
    "restartRequired": true
  }
}
```

## Updates the firmware status

This operation can be executed with any roles.

### HEADER PARAMETERS

→ X-API-Token **required** string  
Example: `your-token-here`  
API authentication token

REQUEST BODY SCHEMA: application/json  
required

→ state string  
required Enum: "operating" "setup"  
The firmware mode to set

## Responses

✓ 200 OK

RESPONSE SCHEMA: application/json

┌ success boolean  
└ data object

— 400 Bad Request

— 401 Unauthorized

— 403 Forbidden

— 404 Not Found

— 409 Conflict

— 429 Too Many Requests

— 500 Internal Server Error

— 503 Service Unavailable

POST /fwSetStatus

## Request samples

Payload

**Content type**

application/json

Copy

```
{  
  "state": "operating"  
}
```

**Response samples**

200

**Content type**

application/json

Copy Expand all Collapse all

```
{  
  "success": true,  
  "data": { }  
}
```

## Shuts down the Controller

This operation can be executed with any roles.

**HEADER PARAMETERS**

→ X-API-Token required string  
Example: `your-token-here`  
API authentication token

## Responses

✓ 200 OK

**RESPONSE SCHEMA:** application/json

└ success boolean

data

object

— 400 Bad Request

— 401 Unauthorized

— 403 Forbidden

— 404 Not Found

— 409 Conflict

— 429 Too Many Requests

— 500 Internal Server Error

— 503 Service Unavailable

POST /shutdownStart



## Response samples

200

Content type  
application/json

Copy Expand all Collapse all

```
{
  "success": true,
  "data": { }
}
```

## Restarts the Controller

This operation can be executed with any roles.

HEADER PARAMETERS

---

X-API-Token  
required

string

Example: `your-token-here`

API authentication token

---

## Responses

✓ 200 OK

RESPONSE SCHEMA: application/json

---

success	boolean
data	object

---

— 400 Bad Request

— 401 Unauthorized

— 403 Forbidden

— 404 Not Found

— 409 Conflict

— 429 Too Many Requests

— 500 Internal Server Error

— 503 Service Unavailable

POST /rebootStart

### Response samples

200

Content type  
application/json

Copy Expand all Collapse all

```
{  
  "success": true,  
  "data": { }  
}
```





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---



**Tutorial Video**

<https://www.fa.omron.co.jp/dx1/video-manual/en/>



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