



DMS2.5
(Data Management Server2.5)

MIM-D01AN

MIM-D01AUN

BACnet Gateway

MIM-B17BN

MIM-B17BUN

LonWorks Gateway

MIM-B18BN

MIM-B18BUN

Air Conditioner user manual

imagine the possibilities

Thank you for purchasing this Samsung product.

SAMSUNG

Safety Precautions **English**

- *Before using the DMS2.5, BACnet Gateway, LonWorks Gateway, read carefully these instructions.*
- *After reading the instructions, keep this user's manual in a handy and safe place. If a user is changed, you must hand over the manuals.*
- *Never attempt to install the air conditioning system or to move the product by yourself.*

WARNING

- ◆ Do not attempt to install or repair the product by yourself.
- ◆ The product contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- ◆ When moving, consult authorized service personnel for disconnection and installation of the product.
- ◆ Ensure that the wall is strong enough to support the weight of the product.
- ◆ Must install the product with rated power supply.
- ◆ In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.

CAUTION

- ◆ Do not use inflammable gases near the product.
- ◆ Do not spill water into the product.
- ◆ Do not operate the product with wet hands.
- ◆ Do not install the product in a location where it will come into contact with the combustible gases, machine oil, sulphide gas, etc.
- ◆ Do not press buttons with a pointed thing.
- ◆ Do not pull or bend the product cable excessively.
- ◆ Do not use the product for other purpose.
- ◆ Do not spray an insecticide or other combustible things on the product.
- ◆ Do not clean the product with benzene, solvents or other chemicals.
- ◆ Do not give a shock to the product or disassemble it by yourself.

Consignes de sécurité **Français**

- *Avant d'utiliser le DMS2.5, BACnet Gateway, LonWorks Gateway, lisez attentivement ces consignes.*
- *Après en avoir pris connaissance, conservez ce manuel d'utilisation dans un lieu sûr et à portée de main. En cas de changement d'utilisateur, vous devez remettre les manuels.*
- *Ne tentez jamais d'installer le climatiseur ou de déplacer le produit par vous-même.*

AVERTISSEMENT

- ◆ Ne tentez pas d'installer ou de réparer vous-même le produit.
- ◆ Le produit ne contient aucun composant interne susceptible d'être réparé par l'utilisateur. Consultez toujours le personnel d'entretien agréé pour toute réparation.
- ◆ En cas de déplacement, consultez le personnel d'entretien agréé pour tout débranchement et toute installation du produit.
- ◆ Assurez-vous que le mur est suffisamment résistant pour supporter le poids du produit.
- ◆ Vous devez raccorder le produit à une installation supportant sa puissance nominale.
- ◆ En cas de dysfonctionnement (odeur de brûlé, etc.), arrêtez immédiatement le fonctionnement, coupez le disjoncteur électrique et consultez le personnel d'entretien qualifié.

ATTENTION

- ◆ N'utilisez pas de gaz inflammable à proximité du produit.
- ◆ Ne renversez pas d'eau dans le produit.
- ◆ Ne manipulez pas le produit si vous avez les mains mouillées.
- ◆ N'installez pas le produit dans un lieu où il sera en contact avec des gaz combustibles, de l'huile de machine, de l'hydrogène sulfuré, etc.
- ◆ N'appuyez pas sur les boutons avec un objet pointu.
- ◆ Ne tirez pas sur le cordon d'alimentation du produit et ne le pliez pas excessivement.
- ◆ N'utilisez pas le produit dans un autre but que celui auquel il est destiné.
- ◆ Ne vaporisez pas d'insecticide ou autre produit combustible sur le produit.
- ◆ Ne nettoyez pas le produit en utilisant du benzène, des solvants ou autres produits chimiques.
- ◆ N'appliquez pas de choc sur le produit et ne le désassemblez pas non plus vous-même.

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Note ◆ The contents and pictures used in this user manual may be changed without advance notice for the functional reinforcement and improvement of a product.



***This System is strictly restricted to authorized user.
Any illegal access shall be punished with a related-law.***

General Description

Introduction of DMS2.5 (Data Management Server2.5)

The DMS2.5 is an Ethernet based device for central management of Samsung system air-conditioners. It operates 24 hours without a separate management (PC).

Advantages of DMS2.5 System

The DMS2.5 provides the following advantages:

- ◆ Everyday Device—The DMS2.5 is operational all year long 24 hours.
- ◆ Independent Operation—The DMS2.5 can operate schedule control and power distribution without a PC.
Note In order to run power distribution, relevant controllers need to be installed.
- ◆ Remote Control
 - ✓ Web – The DMS2.5 has a built-in web server function and can be accessed from a remote location to operate status monitoring, control, trouble history, and schedule setting of the system air-conditioners.
 - ✓ Using an Upper Level Controller—When a separate upper level controller (S-NET series) is used, a number of DMS2.5 can be controlled with one central management system.
- ◆ Data Storage—The DMS2.5 has its own database built-in, therefore, trouble history, indoor unit installation information, and power distribution data can be saved and retrieved.
- ◆ Large Scale Management—At most 256 indoor units can be connected to one DMS2.5 and therefore, only one DMS2.5 can manage small and medium size buildings.
- ◆ Automatic "e-mail" sending—When an error is occurred, inform the error details to an e-mail saved on DMS2.5.

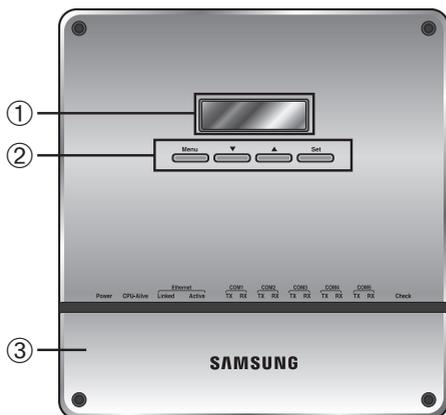
Note ◆ Please be advised that once you are permitted access to the system, you will be deemed to have consented to having software relating this system automatically updated or modified on a periodic basis. You will be deemed to have consented to having software relating this system automatically updated or modified on a periodic basis.

Terms

- ◆ DMS2.5: The abbreviation of Data Management Server2.5.
- ◆ Upper Controller: S-NET 3, RMS and DMS2.5 which allows controlling by accessing to a web page.
- ◆ OnOff Controller: A device that controls 16 groups of the DVM air conditioner.
A central control device of a DVM system which is located between a DMS2.5 and an outdoor unit.
- ◆ AHU(Air Handling Unit): Executes heat exchange between air and cooling unit using central air conditioning duct method.
- ◆ ERV(Energy Recovery Ventilator): Ventilating system using heat recovery function.

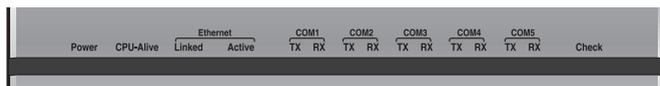
Viewing the Parts

Front View



| No. | Name | Description |
|-----|--------------|--|
| ① | LCD Display | Display current time/ Check menu |
| ② | Menu button | Access to main menu |
| | ▼/▲ button | Select the function you want and set detailed functions in main menu |
| | Set button | Check the function you want from main menu and select it |
| ③ | Bottom cover | Unfasten 2 screws on the bottom and separate the bottom cover from DMS2.5. Then check cable connection part. |

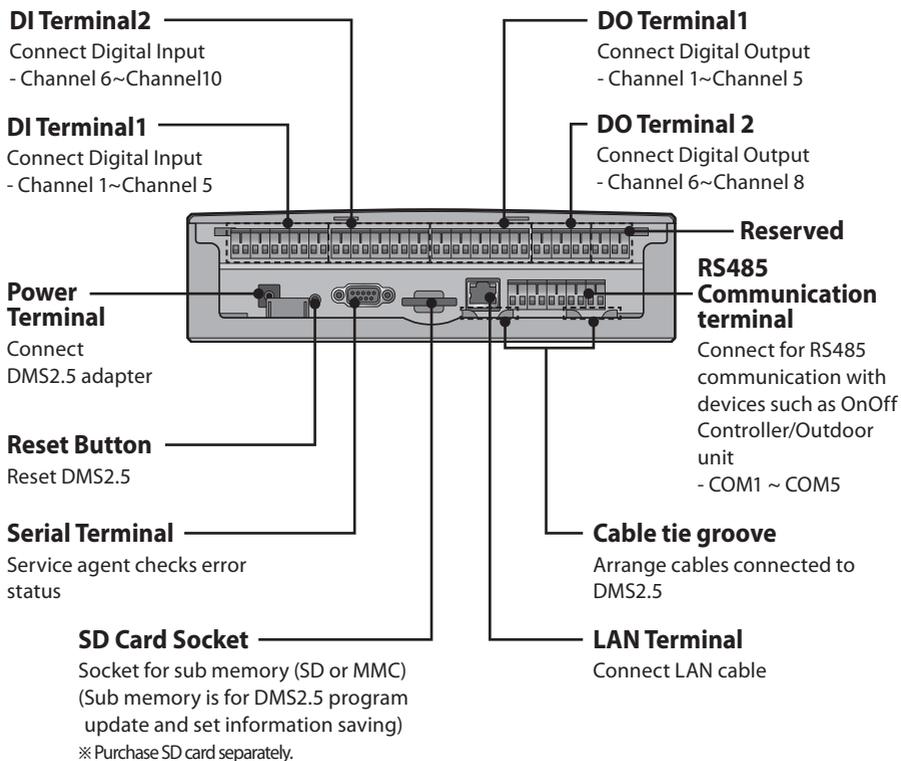
Indicator



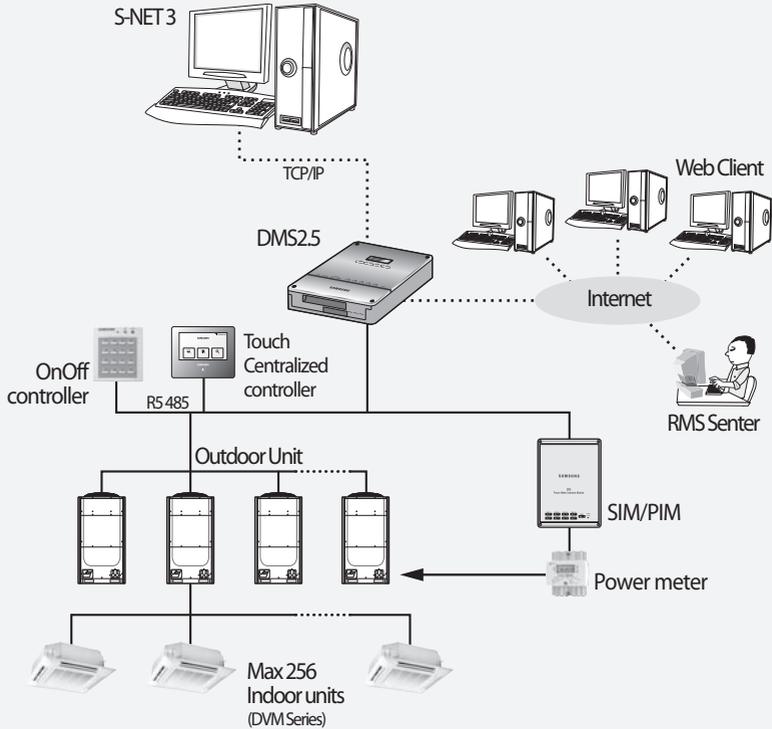
| Name | Description |
|-----------------|---|
| Power | Turns blue when the power is supplied. |
| CPU Alive | Blinks in orange with 1 second intervals during normal operation. |
| Ethernet-Linked | Turns green during normal connection. |
| Ethernet-Active | Blinks in orange during normal transmission/reception. |
| COM1~5 - TX | Blinks in green during normal transmission. |
| COM1~5 - RX | Blinks in green during normal reception. |
| Check | Turns green when notice occurs. |

Bottom View

- ◆ Separate bottom cover by unfastening 2 screws on the bottom.



System Configuration



- ◆ Connecting outdoor unit and DMS2.5
 - You can control up to 80 outdoor units and 256 indoor units by using DMS2.5.
 - ※ You can connect up to 16 (outdoor) units per each communication channel of the DMS2.5.
 - If the number of connected outdoor unit increases, it may take long time for tracking. (Max. 30 minutes)



CAUTION

- ◆ **For devices that support new communication, you must set the communication mode of the channel to 'NEW' from [System settings → Tracking] menu. Set of Indoor/outdoor units, with conventional communication type, cannot be connected to DMS2.5 with new communication.**
- ◆ **When 'NEW' is set as communication mode of the channel, virtual OnOff controller address will be assigned.
(Channel 0: Virtual OnOff controller 11, Channel 1: Virtual OnOff controller 12, Channel 2: Virtual OnOff controller 13, Channel 3: Virtual OnOff controller 14, Channel 4: Virtual OnOff controller 15)**
- ◆ **The maximum number of indoor units that can be connected to each communication channel of DMS2.5 RS485 is 128.**

Web Browser Specification

- ◆ Windows 7 or later version
- ◆ Install Internet Explorer 11 or later version
- ◆ Install Silverlight 2.0 or later version

- Note**
- ◆ Visit internet homepage (<http://www.microsoft.com/silverlight/>) to download Silverlight. Or you can download it through the download link which is noticed automatically when the PC is connected to the Internet and you access to DMS2.5 for the first time.
 - ◆ Silverlight operates normally with Windows 7 or later version. It may not operate normally with former version of Windows.

Computer Settings for DMS2.5 Connection

All settings of DMS2.5 will be arranged in web page which built in DMS2.5. You should access to DMS2.5 IP to use DMS2.5 web page. There are 2 ways to access DMS2.5 IP. (For about settings, refer to installation manual.)

- ◆ Static IP setting
- ◆ Dynamic IP(DHCP) setting
- ◆ Basically, only Private IP can be set to IP address. To use Public IP, you must set Enable public IP as 'Enable' from the menu [System Settings] → [System environment setting].
 - Private IP range: 10.0.0.0 ~ 10.255.255.255, 172.16.0.0 ~ 172.31.255.255, 192.168.0.0 ~ 192.168.255.255



CAUTION

- ◆ **Use this product only in a separate dedicated network. Samsung electronics is not liable for any problems caused by connecting it to the Internet or an intranet.**

Interface with Upper Level Controller

The DMS2.5 receives/manages setting and control data from the upper level controller and sends the received data to the lower level system.

- ◆ Upper controller: S-NET 3, RMS and DMS2.5 which allows controlling by accessing to a web page.
- ◆ S-NET 3: System air conditioner controlling and monitoring program that is used by installing on a PC.
- ◆ RMS: A device which supervises operation status and break down status by connecting to DMS2.5 for system air conditioner remote service. If break down is detected, it notifies service agent and makes fast service possible.

Save Trouble History

The DMS2.5 saves at most 1024 cases of trouble history. If the number of errors exceeds 1024, only the latest 1024 cases are stored by deleting the oldest trouble history.

- ◆ Device name, address, error occurrence time, error solvation time, trouble history will be saved. You can check it in web page or upper controller.
- ◆ When an error occurs, it sends trouble history to e-mail saved in DMS2.5.
- ◆ Some functions available on DMS2.5 web page may not be functional at BACnet Gateway and Lonworks Gateway. For detailed function, refer to the installation manual or contact Samsung Electronics.

| Device | Type |
|--|---|
| Indoor Unit | Indoor unit communication error Indoor unit sensor related error Other errors |
| Outdoor Unit | Outdoor unit communication error Pipe inspection error Outdoor unit sensor related error Outdoor unit related other errors |
| Communication error such as OnOff controller | Control device related communication error |

Set and Run Schedule

The schedule function of the DMS2.5 can be set through the Web or using the upper level controller. 1day/Everyday/Every week schedules can be set.

- ◆ Each schedule can be used selectively by using the run schedule/stop schedule order.
- ◆ At most 256 schedules can be set.
- ◆ Indoor unit control is possible at least 1 minute of interval by set schedule.

| Item | Content | Remark |
|-----------------------|---|---|
| Schedule Period | Starting and ending date of a schedule | |
| Exception Day Setup | Set an exception day within a schedule period to ignore the schedule control | |
| Devices to be applied | Select devices to receive schedule control | |
| Event | Set indoor unit operation modes - Device On time - Device Off time - Desired temperature - Operation mode: Auto/Cool/Dry/Fan/Heat/Off - Remote control usage Enable RC/ Disable RC/ Cond.RC - Fan speed: Auto/Low/Mid/High/Turbo - Air flow: None/Vertical/Horizontal/All - ERV operation mode: Auto/HeatEx/ByPass/Sleep - ERV Fan speed: Low/High/Turbo | Weekly Repeat: Maximum 10 events per day Daily Repeat: Maximum 70 events |

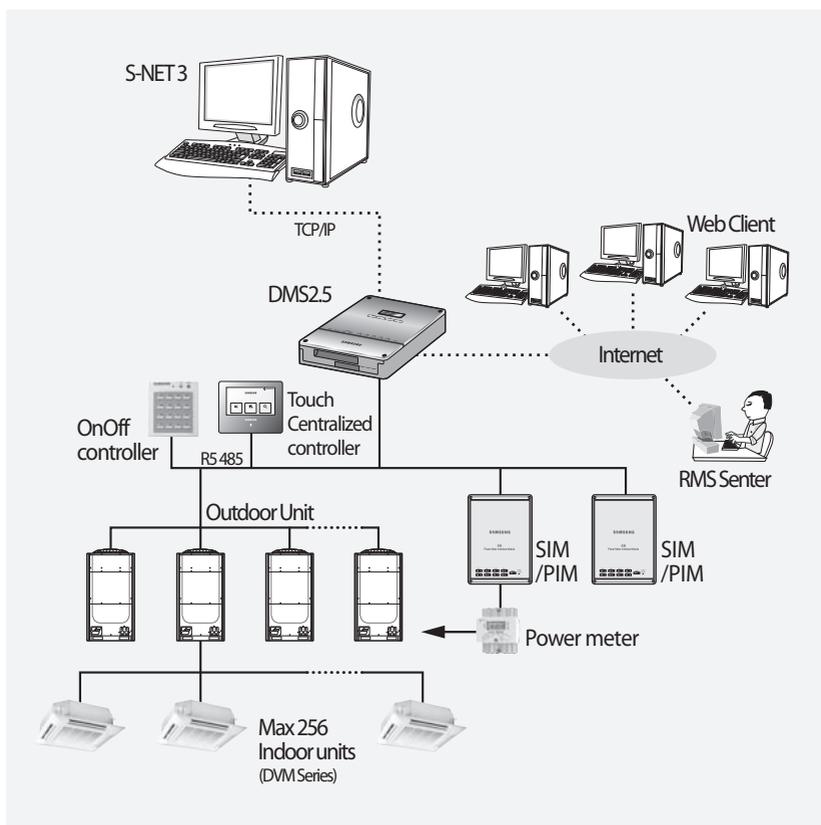
Main Function (Continued)

Save Integrated Power Distribution Data

The DMS2.5 calculates and distributes the power consumed by each indoor unit by receiving the total power usage from the watt-hour meter interface modules (SIM/PIM) and taking into account the operation status of the indoor units.

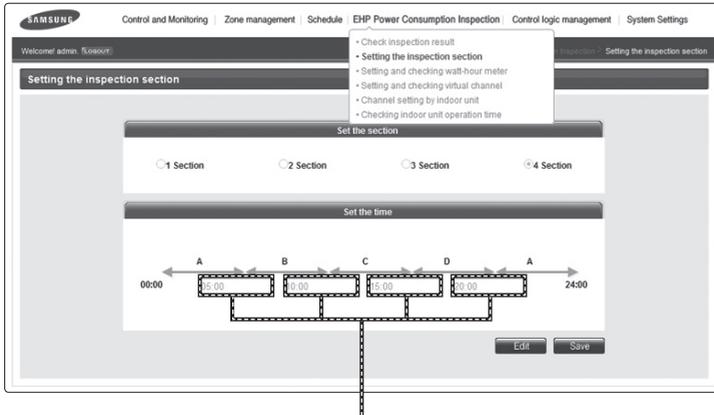
The DMS2.5 saves at most 1 year of data. After a year, the oldest data is deleted and the latest data is saved. This data can be checked through the built-in Web page of the DMS2.5 or by S-NET 3.

System Architecture



Time Segmentation

- ◆ Time segmentation is used to divide 24 hours into different sections and to distribute power according to each section.
- ◆ This function is used when the power consumption fee is different according to different time slots or when a building is charged differently depending on the consumption time.
- ◆ 1 section (A) is set as 24hours, and the factory default setting is set as 1 section. The time, 24hours, can also be divided into 2 sections (A,B,A), 3 sections (A,B,C,A) or 4 sections (A,B,C,D,A)
- ◆ DMS2.5 shows the result of the power distribution for each section you set.



Input manually (When setting 2 sections, 3 sections, and 4 sections)



If communication error occurs between DMS and the lower level controllers, actual power consumption and the result of power distribution value may not be same. Make sure to solve communication error status.

- Example of communication error : Communication error between DMS2.5 and SIM(PIM)/SIM(PIM) and watt hour meter/ DMS2.5 and outdoor unit/indoor and outdoor units.

Starting DMS2.5

Starting DMS2.5

Current time setting

Set the current time of DMS2.5 system.

- ◆ "2016/01/01 01:01:01" is factory setting. Set the current time as DMS2.5 system time. You can set DMS2.5 time in [System Settings] → [System environment setting] (Refer to page 129~130)



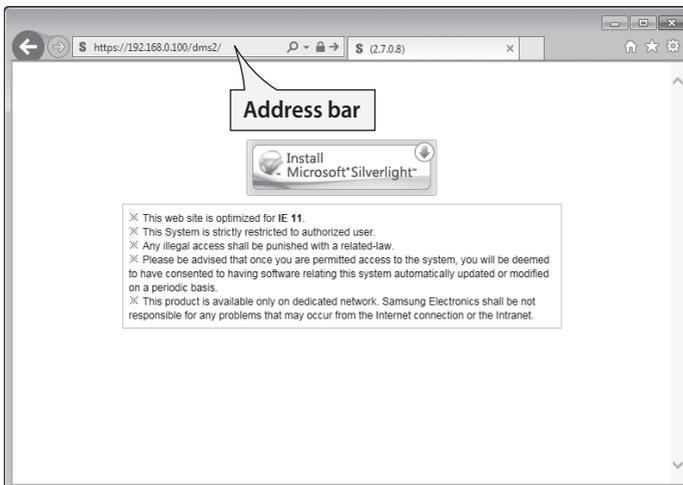
If DMS2.5 time does not set as the current time, DMS2.5 may cause malfunction when using Schedule or control logic management.

Connecting OnOff controller & outdoor unit

Connecting devices

- (1) Make sure the connection of communication cables(R1/R2) between DMS2.5 and other devices such as outdoor units, control devices.
- (2) Execute tracking.
 - ◆ DMS2.5 communicates with outdoor unit and brings information about installed indoor unit and outdoor unit.
 - ◆ After tracking, you can use indoor unit control and other menu.
 - ◆ For tracking, refer to [System Settings] → [Tracking] (Refer to page 148~152)

Access to DMS2.5 & Login

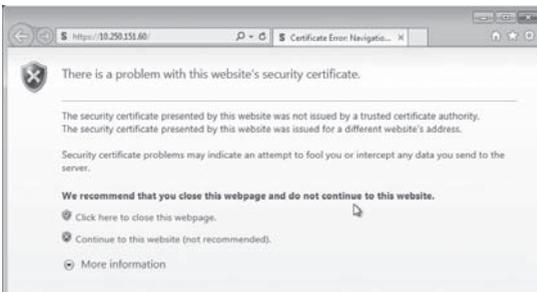


1 Run internet explorer on your computer.

2 Enter IP address (https://192.168.0.100) on the address bar, and then press [ENTER].

- ◆ If it is the first access to DMS2.5, "Install Microsoft Silverlight" message will be displayed.
 - The message will not appear if Microsoft Silverlight have already installed.
 - If the message window and login screen does not appear, check PC setting status.

1) At initial access, security certificate warning popup message will appear as shown. This message appears since DMS2.5 used the certificate of its own, so it will not appear if DMS2.5 certificate is registered on web browser. DMS2.5 certificate must be registered because the message will appear every time and it is not safe for security if it is not registered. Also, it should be registered to all PCs that are connecting to DMS2.5.



CAUTION

You must stop connecting due to security problem if the message appears even if you registered DMS2.5 certificate.

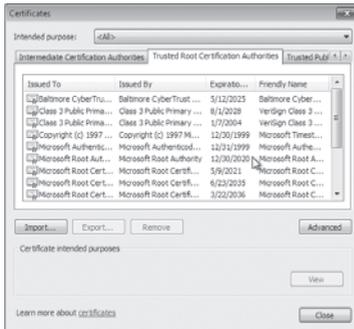
2) Registering DMS2.5 certificate on web browser

A. Select 'Content' tap in 'Tools' → 'Internet options', and click 'Certificates'.



Starting DMS2.5 (Continued)

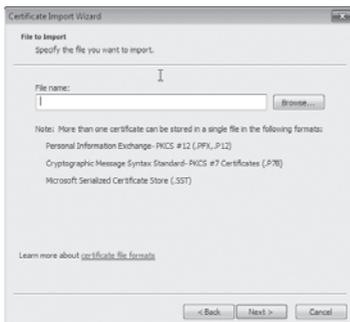
B. Select 'Trusted Root Certification Authorities' and click 'Import'.



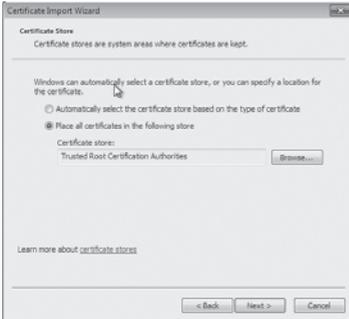
C. Click 'Next'.



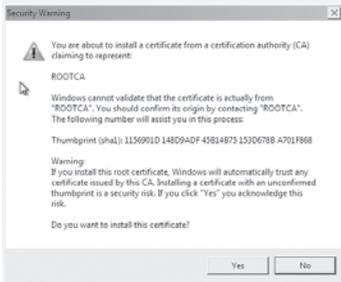
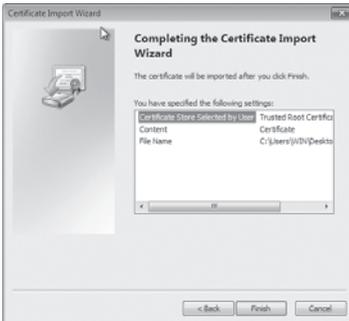
D. Select 'Browse' and find DMS2.5 certificate, and click 'Next'. DMS2.5 certificate can be downloaded from [System environment setting].



E. Select 'Place all certificates in following drive' and click 'Next'.



F. Click 'Finish', and click 'Yes' when security warning appears.



3 Click [Run] and continue installation.

◆ Access to DMS2.5 again after installation.

Starting DMS2.5 (Continued)

LOGIN 

Login via authentication

ID

PASSWORD

LOGIN

⌘ This web site is optimized for IE 11.
⌘ This System is strictly restricted to authorized user.
⌘ Any illegal access shall be punished with a related-law.
⌘ Please be advised that once you are permitted access to the system, you will be deemed to have consented to having software relating this system automatically updated or modified on a periodic basis.
⌘ This product is available only on dedicated network. Samsung Electronics shall be not responsible for any problems that may occur from the Internet connection or the Intranet.

- 4 Enter ID and password when DMS2.5 main web page appears.
Then click [LOGIN].
 - ◆ The default DMS2.5 user ID is 'admin' and password is 'ac0530'.
 - ◆ Depending on authorization settings which set by the administrator, access to some functions may be restricted.
 - ◆ To edit user authorization, refer to [System Settings] → [User authorization management]. (Refer to page 112)

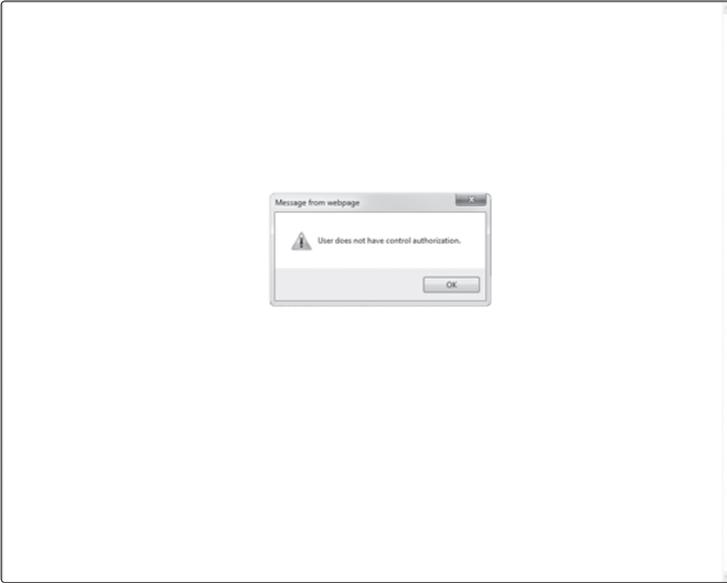
- Note**
- ◆ *Only authorized users can access to web page.*
 - ◆ *Fewer than 5 concurrent users are recommended because connection speed may slow down.*
 - ◆ *DMS2.5 manager should change ID and password for security and management. (Refer to page 110)*
 - ◆ *Logout: To log out, click [LOGOUT] on the top of the menu.*



CAUTION

Silverlight will run normally with Windows 7 or later version. With former version of Windows, DMS2.5 may not operate normally.

Logged-in User with No Authorization



- 1 When the screen above appears, ask for manager.
 - ◆ Depending on control authorization setting, there can be a user who does not have control authorization.
 - ◆ Above screen will appear when the logged-in user does not have control authorization.

Control and Monitoring

Devices controlled and monitored by DMS2.5

| Type | Display | Remote controller (Controlling range) | Type | Display | Remote controller (Controlling range) |
|-------------------------------------|---------|---------------------------------------|----------------------------------|---------|---------------------------------------|
| Indoor unit display icon | | | DI (Digital Input) display icon | | |
| ERV display icon | | | DO (Digital Output) display icon | | |
| AHU display icon | | | Hydro Unit HT, display icon | | |
| ERV PLUS display icon | | | FCU Kit display icon | | |
| Hydro Unit, Single EHS display icon | | | DVM CHILLER display icon | | |
| Fresh duct display icon | | | | | |

Monitoring Indoor Unit Operation Status

The screenshot displays the Samsung DMS2.5 web interface. At the top, the 'Control and Monitoring' menu item is highlighted with a red box and a mouse cursor. Below the navigation bar, there are several status indicators for system components like Filter Warning, Defrost, and Check. The main area is a grid of 50 indoor unit status cards, each showing a timestamp (e.g., 15.00.00), current temperature (20.0°C), desired temperature (24.0°C), and mode (Auto). A red box highlights the top-left card, and a mouse cursor points to it. On the right side, there is a detailed control panel for the selected device, showing 'Current temp.' (20.0°C), 'Desired temp.' (24.0°C), 'Discharge' status, and various fan and mode settings. The bottom of the interface has a 'View control history & power consumption' link.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.

- 2 Check the current status of all devices.
 - ◆ You can check the current controlling status of all installed indoor units, ERV, AHU, ERV PLUS, Fresh duct, Hydro Unit, Hydro Unit HT, Single EHS, DVM CHILLER, FCU Kit and other devices.

- Note**
- ◆ When the advanced functions (such as Sleep mode, Energy saving function) are selected through wired/wireless remote controllers or indoor unit panel, set operation mode on the remote controllers and DMS2.5 may be displayed differently. Also, when controlling by DMS2.5, additional functions will be canceled.
 - ◆ Depending on the model of indoor unit, Horizontal/All air flow direction control may not be possible. In this case, vertical or fixed flow will be displayed depending on indoor unit's basic operation specification.

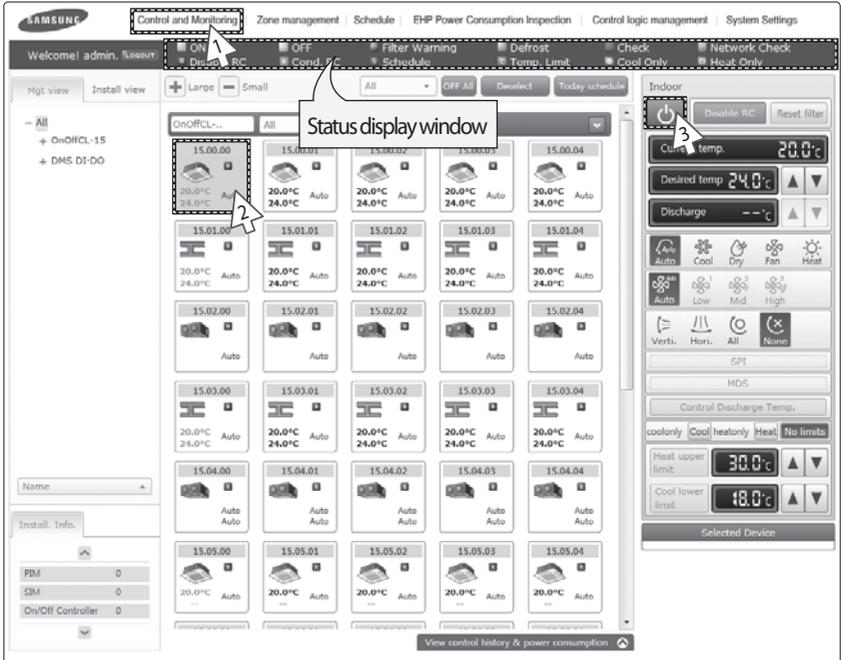


CAUTION

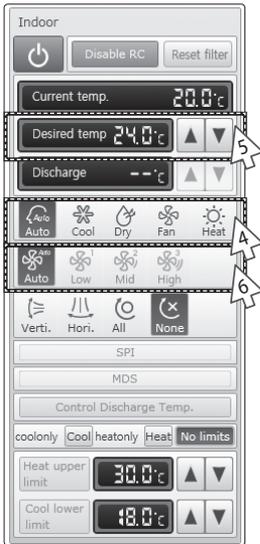
Some functions available on DMS2.5 web page may not be functional at BACnet Gateway and LonWorks Gateway. For detailed function, refer to the installation manual or contact Samsung Electronics.

Control and Monitoring (Continued)

Controlling an Indoor Unit



- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select an indoor unit to control.
 - ◆ Check the indoor unit status through status display window.
 - ◆ When the selected indoor unit is switched on, the remote controller panel will be automatically activated.
- 3 Turn the indoor unit on by clicking [⏻].
 - ◆ Remote controller panel will be activated.



4 Select the operation mode.

- ◆ You can select Auto, Cool, Dry, Fan and Heat operation mode.

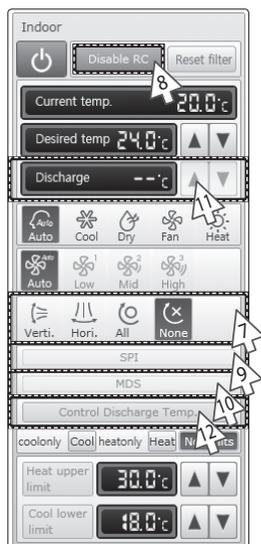
5 Click [▲][▼] to set the desired temperature.

- ◆ Each time you press the buttons, the temperature will be adjusted by 1 or 0.1°C (or by 1°F).
- ◆ If Auto/Cool/Dry mode is in operation, you can adjust the desired temperature in the range of 18°C(64°F)~30°C(86°F).
- ◆ If Heat mode is in operation, you can adjust the desired temperature in the range of 16°C(61°F)~30°C(86°F).
- ◆ You cannot adjust the desired temperature in Fan mode.
- ◆ When the operation mode of an indoor unit is Cool or Dry mode, you cannot set the desired temperature lower than lower limit temperature if lower limit is enabled.
- ◆ When the operation mode of indoor unit is Heat mode, you cannot set the desired temperature higher than upper limit temperature if upper limit is enabled.

6 Select the fan speed.

- ◆ You can select Auto, Low, Mid and High.
- ◆ If Auto/Dry mode is in operation, fan speed will be set as Auto fan speed.
- ◆ If Fan mode is in operation, you cannot select Auto fan speed.
- ◆ When the Turbo fan speed is available, the Turbo icon is displayed and you can select and control the Turbo fan speed.

Control and Monitoring (Continued)



7 Select the air flow.

- ◆ You can select Vertical, Horizontal, All and None air flow direction.

8 Set remote controller settings.

- ◆ You can select Enable RC, Disable RC, and Cond. RC.
- ◆ When selecting [Disable RC], indoor unit control by wired/wireless remote controller and indoor unit panel is not possible. Indoor unit control is only available in DMS2.5 web page.
- ◆ Click [⏻] when you want to use wired remote controller in each room.

9 Select SPI setting.

- ◆ You can set SPI through button activation / non activation.

10 Select MDS setting .

- ◆ You can set MDS(Motion Detection Sensor) through button activation / non activation.

11 Set cooling/heating discharge temperature by clicking [▲] and [▼].

- ◆ When the indoor unit is in Cool mode, you can adjust cooling discharge temperature and when the indoor unit is in Heat mode, you can adjust the heating discharge temperature.
- ◆ When the indoor unit is in Auto, Dry or Fan mode, you cannot adjust the discharged temperature.
- ◆ Cooling discharged temperature can be set in the range of 8°C(46°F)~18°C(64°F).
- ◆ Heating discharged temperature can be set in the range of 30°C(68°F)~43°C(109°F).

12 Select [Control Discharge Temp].

- ◆ You can enable/disable button to decide whether to use discharge temperature adjustment.

Note

When filter warning sign is displayed on indoor unit status window

Select the indoor unit and click [Reset filter].

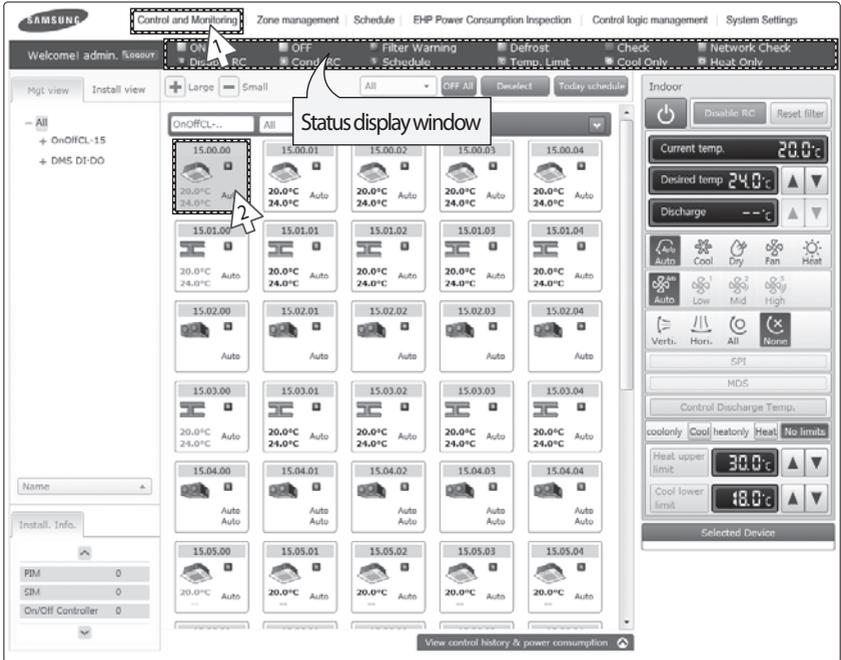
Filter warning will be released.



- ◆ **Make sure that each indoor unit must be turned on to control.**
- ◆ **Selecting remote controller, reset filter, operation mode limits, setting lower/upper temperature limit are possible even if the power of indoor unit is off.**
- ◆ **Some air flow direction option may be restricted depending on the indoor unit model.**
- ◆ **SPI, MDS and discharge temperature functions can be operated normally when corresponding optional functions are installed to the selected indoor unit.**

Control and Monitoring (Continued)

Indoor Unit Operation Mode Limit



You can monitor the operation status of all indoor units or have individual or whole control of the indoor units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select an indoor unit to control.
 - ◆ Check the indoor unit status through status display window.
 - ◆ When the selected indoor unit is switched on, the remote controller panel will be automatically activated.



3 Set operation mode limit.

- ◆ You can select [coolonly (Cool)], [heatonly (Heat)], and [No limits].
- No limits : You can use cool mode and heat mode with no limits.

Note ◆ Operation mode limits setting is not available in ERV and DVM CHILLER.

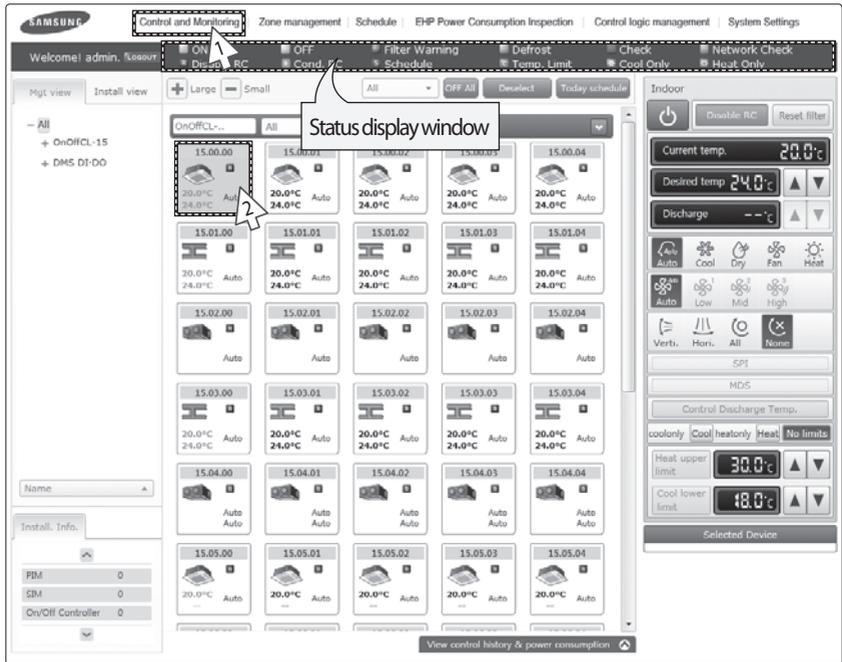


CAUTION

- ◆ If you set the operation mode limit, DMS2.5 will automatically change the operation mode limit setting of all the indoor units connected to same outdoor unit.
- ◆ If the indoor unit is cooling only model, you cannot set the operation mode limit to 'heatonly'.

Control and Monitoring (Continued)

Setting Lower/Upper Temperature Limit of an Indoor Unit



You can monitor the operation status of all indoor units, and control the indoor units as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select an indoor unit to control.
 - ◆ Check the indoor unit status through status display window.
 - ◆ When the selected indoor unit is switched on, the remote controller panel will be automatically activated.



3 Set upper temperature limit by pressing [▲] and [▼].

- ◆ Click 'Heat upper limit' to apply the upper temperature limit setting.
- ◆ Upper temperature limit can be set in the range of 16°C(61°F)~30°C(86°F).
- ◆ When an indoor unit is operating in Heat mode and the upper temperature limit is applied, you cannot set the desired temperature higher than the upper temperature limit.

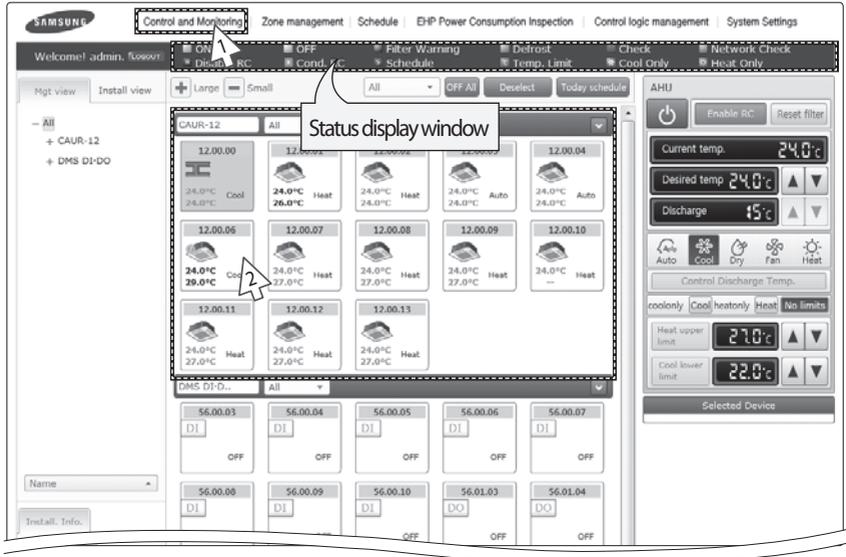
4 Set lower temperature limit by pressing [▲] and [▼].

- ◆ You can set lower temperature limit by clicking 'Cool lower limit'.
- ◆ Lower temperature limit can be set in the range of 18°C(64°F)~30°C(86°F).
- ◆ When indoor unit is operating in Cool or Dry mode and the low temperature limit is applied, you cannot set the desired temperature lower than the lower temperature limit.

Note ◆ *You cannot set the lower and upper temperature limit of ERV, ERV PLUS, Fresh duct, DVM CHILLER.*

Control and Monitoring (Continued)

Monitoring AHU Operation Status

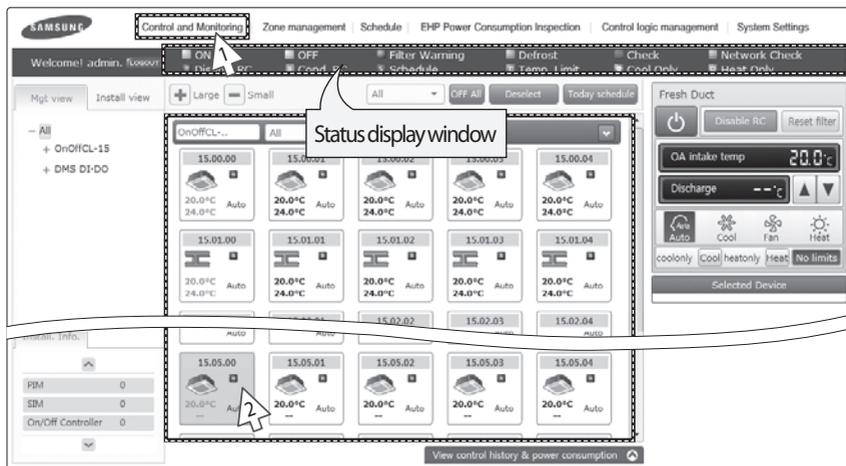


You can monitor the operation status of AHU, and control AHU as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check current status of AHU.
 - ◆ Check AHU status through status display window.
 - ◆ When the selected AHU is switched on, the remote controller panel will be automatically activated.

- Note**
- ◆ To control AHU, refer to the 'Controlling an indoor unit' steps. (Refer to the page 20~23)
 - ◆ AHU's fan speed is fixed as high.
 - ◆ You cannot set air flow direction of AHU.
 - ◆ To set the operation mode limit of AHU, refer to the 'Indoor unit operation mode limit' steps. (Refer to the page 24~25)
 - ◆ To set the lower/upper temperature limit of AHU, refer to the 'Setting lower/upper temperature limit of indoor unit' steps. (Refer to the page 26~27)
 - ◆ To set the cooling/heating discharge temperature, refer to the step 11~12 of 'Controlling and indoor unit'. (Refer to the page 23)
 - ◆ Cooling discharged temperature can be set in the range of 8 °C(46 °F)~25 °C(77 °F).
 - ◆ Heating discharged temperature can be set in the range of 18 °C(64 °F)~43 °C(109 °F).

Monitoring Fresh duct operation status

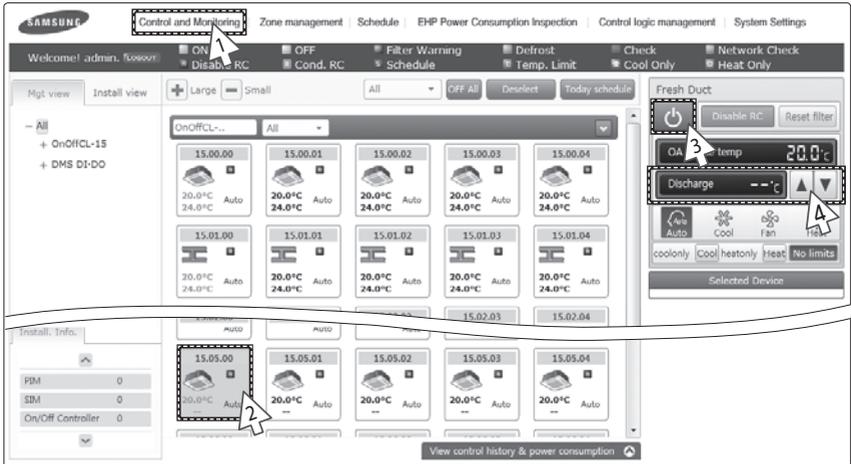


You can monitor the operation status of Fresh duct, and control the Fresh duct as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appear.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check the current status of a Fresh duct.
 - ◆ Check the status of a Fresh duct through the status display window.
 - ◆ When the selected Fresh duct is switched on, the remote controller panel will be automatically activated.

Control and Monitoring (Continued)

Controlling a Fresh duct



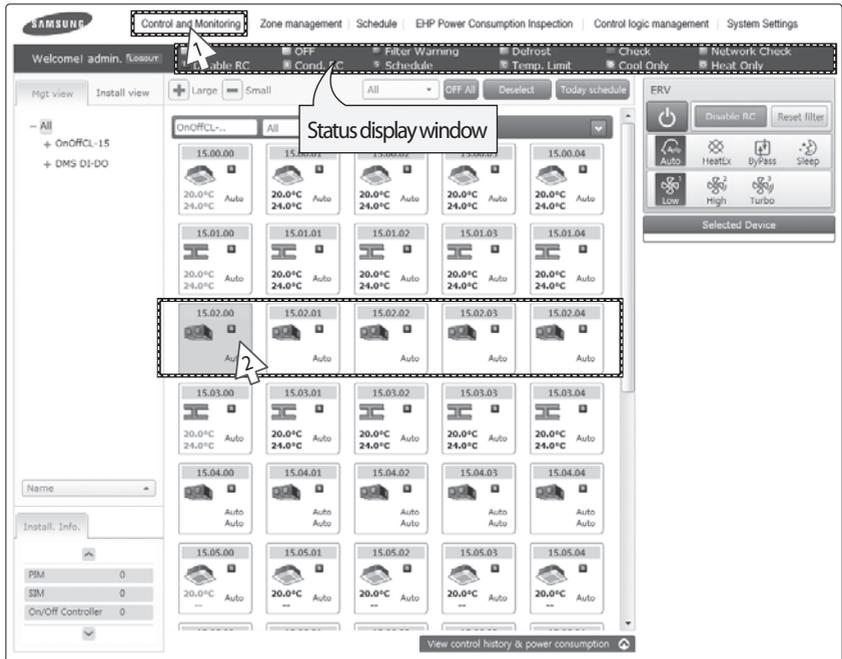
- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appear.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS web page.
- 2 Check the current status of a Fresh duct.
 - ◆ Check the status of a Fresh duct through the status display window.
 - ◆ When the selected Fresh duct is switched on, the remote controller panel will be automatically activated.
- 3 Turn the Fresh duct on by clicking [⏻].
 - ◆ Remote controller panel will be activated.
- 4 Set cooling/heating discharge temperature by clicking [▲] and [▼].
 - ◆ When the Fresh duct is in Cool mode, the Fresh duct can be set as cooling discharge temperature and when the Fresh duct is in Heat mode, the Fresh duct can be set as heating discharge temperature.
 - ◆ When the Fresh duct is in Auto or Fan mode, the discharge temperature cannot be adjusted.

Note

- ◆ *Refer to the 'OnOff controller' for Fresh duct control.
(Refer to page 22~25)*
- ◆ *The fan speed of a Fresh duct is fixed as 'High'!*
- ◆ *Setting air flow direction of a Fresh duct is not available.*
- ◆ *Refer to the 'Indoor unit operation mode limit' for Fresh duct operation mode limit.
(Refer to page 26~27)*

Control and Monitoring (Continued)

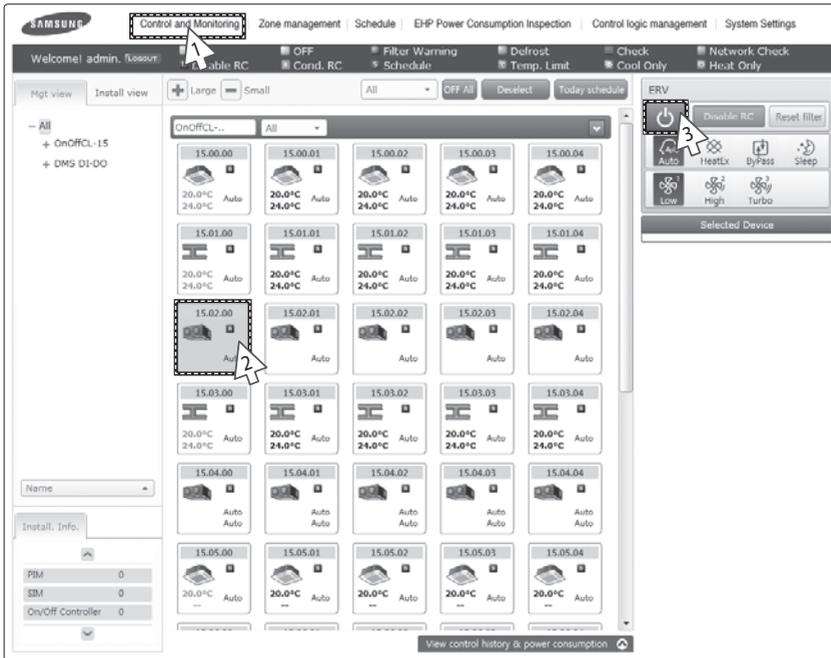
Monitoring ERV Operation Status



You can monitor the operation status of ERV, and control the ERV as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check current status of ERV.
 - ◆ Check the status of ERV through the status display window.
 - ◆ When the selected ERV is switched on, the remote controller panel will be automatically activated.

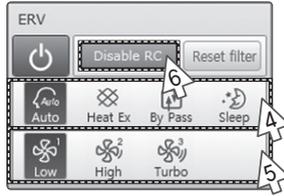
Controlling ERV



You can monitor the operation status of ERV, and control the ERV as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select an ERV to control.
 - ◆ When the selected ERV is switched on, the remote controller panel will be automatically activated.
- 3 Turn ERV on by pressing .
- ◆ The remote controller panel will be activated.

Control and Monitoring (Continued)



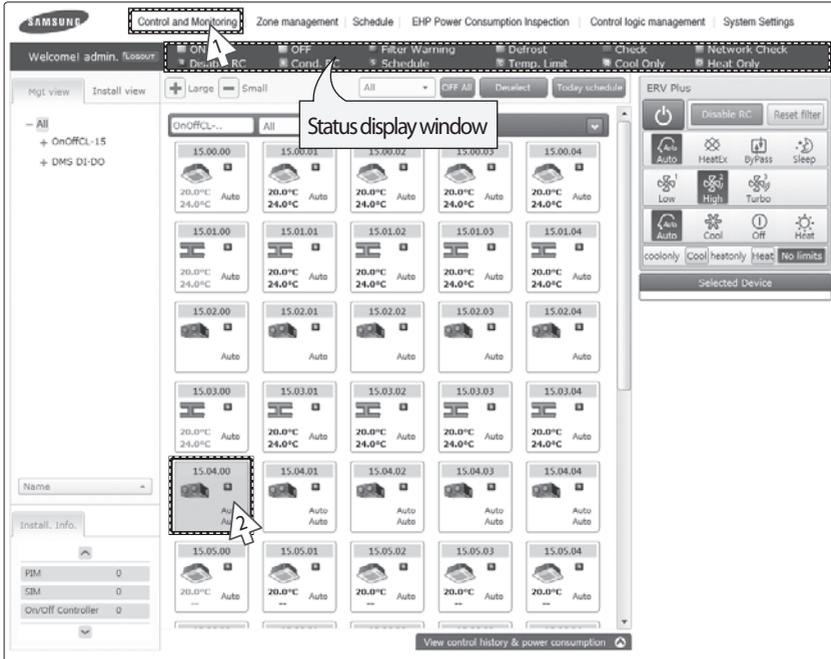
- 4 Select the operation mode.
 - ◆ You can select Auto, HeatEx, By pass and Sleep.
- 5 Select the fan speed.
 - ◆ You can select Low, High and Turbo.
 - ◆ Fan speed is set to Low in Sleep mode.
- 6 Set remote controller settings.
 - ◆ You can select Enable RC, Disable RC, and Cond. RC.
 - ◆ When selecting [Enable RC], indoor unit control by wired/wireless remote controller is not possible. Indoor unit control is only available in DMS2.5 web page.
 - ◆ Click [⏻] when you want to use wired remote controller in each room.

Note ◆ **When filter warning sign is displayed on ERV status window**
Select the ERV and click [Reset filter]. Filter warning will be released.



- ◆ **Make sure that ERV must be turned on to control.**
- ◆ **Selecting remote controller and filter reset are possible even if the power of indoor unit is off.**

Monitoring ERV PLUS operation status

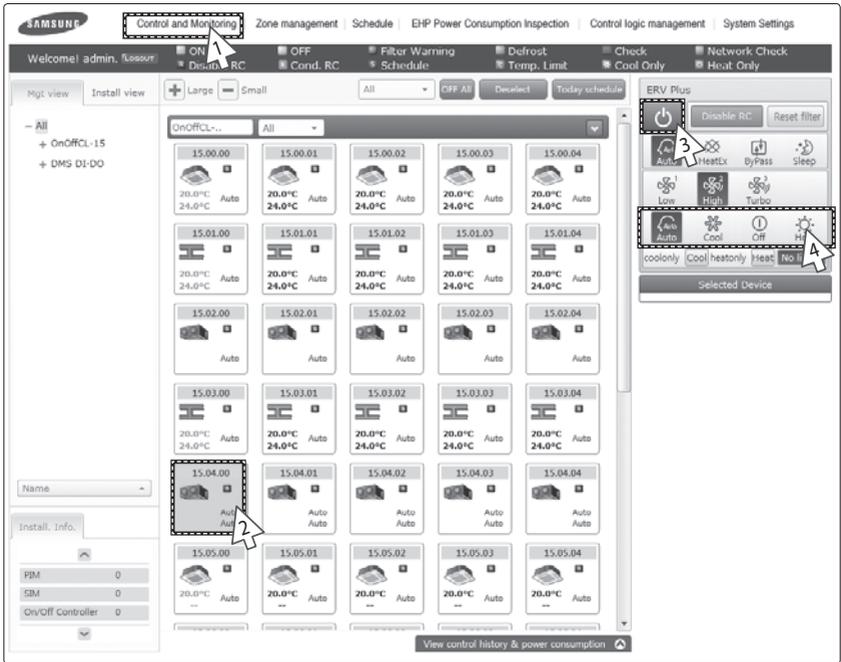


You can monitor the operation status of ERV PLUS, and control the ERV PLUS as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check the current status of ERV PLUS.
 - ◆ Check the status of ERV PLUS through the status display window.
 - ◆ When the selected ERV PLUS is switched on, the remote controller panel will be automatically activated.

Control and Monitoring (Continued)

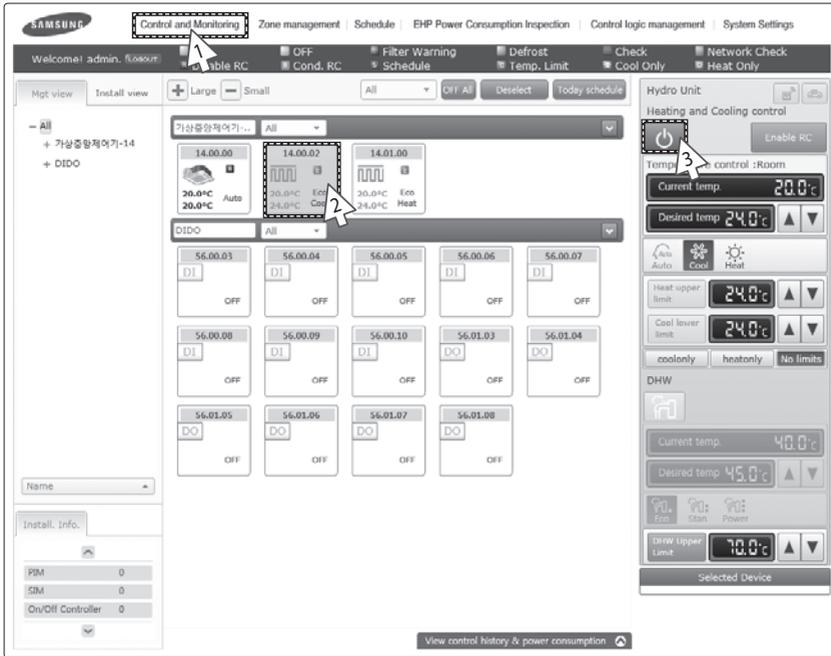
Controlling ERV PLUS



- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appear.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select ERV PLUS to control.
 - ◆ Check the status of ERV PLUS through the status display window.
 - ◆ When the selected ERV PLUS is switched on, the remote controller panel will be automatically activated.
- 3 Turn the ERV PLUS on by clicking [⏻].
 - ◆ Remote controller panel will be activated.
- 4 Select the operation mode
 - ◆ You can select Auto, Cool, Off and Heat mode.

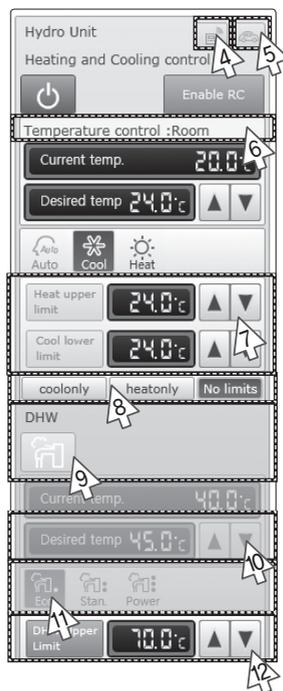
Note ◆ Refer to the 'Controlling ERV' for ERV PLUS control. (Refer to page 35~36)
◆ Refer to the 'Indoor unit operation mode limit' for ERV PLUS operation mode limit. (Refer to page 26~27)

Controlling Hydro unit



- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appear.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select a Hydro unit to control.
 - ◆ When the selected Hydro unit is switched on, the remote controller panel will be automatically activated.
 - ◆ Hydro unit does not support multiple selection with other devices and you can only control and monitor the Hydro unit individually. When you select Hydro unit while multiple devices are already selected, previously selection (of multiple devices) will be canceled.
- 3 Turn the Hydro unit on by clicking [⏻].
 - ◆ Remote controller panel will be activated.

Control and Monitoring (Continued)



-
- 4 Icon will be activated when either Thermostat 1 or Thermostat 2 is on.
-
- 5 Icon will be activated when the Outing mode is on.
-
- 6 Type of temperature control will be displayed. Control and monitoring status of current temperature, desired temperature, operation mode, Heat upper limit and Cool lower limit will be changed depending on the type of temperature control.
- ◆ Room: You can only control Cool and Heat mode.
 - ◆ Water out: You cannot adjust the desired temperature in Auto mode.
-

7 Select Heat upper limit and Cool lower limit by clicking [▲] [▼].

8 Select [coolonly] or [heatonly] button.

9 Click the  button to turn on/off the power for direct heat water.

- ◆ You can turn on the power for direct hot water only when the operation mode is on Auto or Heat mode.
-

10 Select desired temperature for hot water by clicking [▲] [▼].

11 Select desired operation mode for hot water.

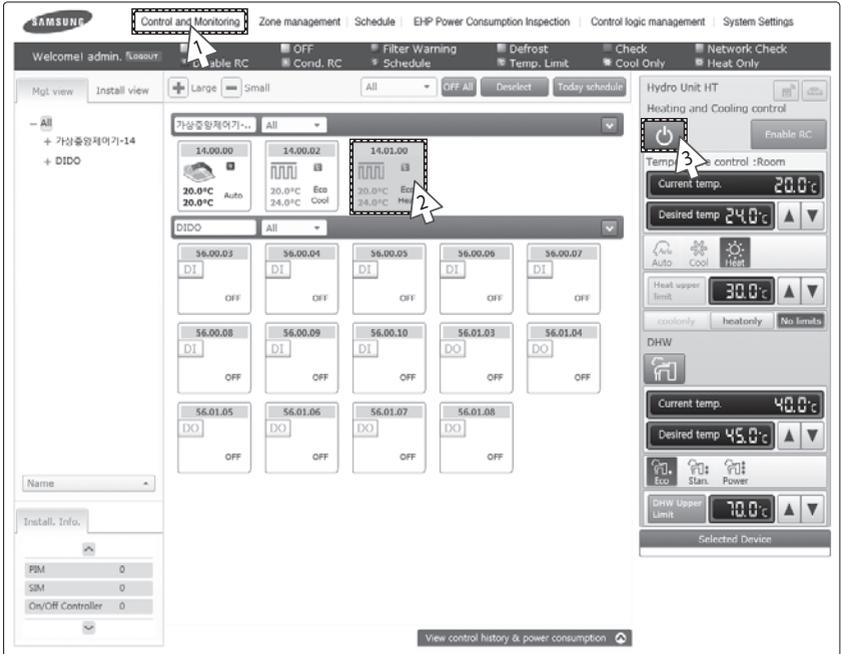
- ◆ Select the operation mode from Eco/Standard/Power.
-

12 Select DHW upper temperature limit by clicking [▲] [▼].

Note ◆ *Since the Hydro Unit and Hydro Unit HT does not have any filters, filter monitoring and filter reset is not available.*

Control and Monitoring (Continued)

Controlling Hydro Unit HT



- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appear.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select a Hydro Unit HT to control.
 - ◆ When the selected Hydro Unit HT is switched on, the remote controller panel will be automatically activated.
 - ◆ Hydro Unit HT does not support multiple selection with other devices and you can only control and monitor the Hydro Unit HT individually. When you select Hydro Unit HT while multiple devices are already selected, previously selection (of multiple devices) will be canceled.
- 3 Turn the Hydro Unit HT on by clicking [⏻].
 - ◆ Remote controller panel will be activated.



-
- 4** Icon will be activated when either Thermostat 1 or Thermostat 2 is on.
-
- 5** Icon will be activated when the Outing mode is on.
-
- 6** Type of temperature control will be displayed. Control and monitoring status of current temperature, desired temperature, operation mode, Heat upper limit and Cool lower limit will be changed depending on the type of temperature control.
- ◆ Room: You can only control Heat mode.
 - ◆ Water out: You can only control Auto and Heat mode.
You cannot adjust the desired temperature in Auto mode.
-

Control and Monitoring (Continued)

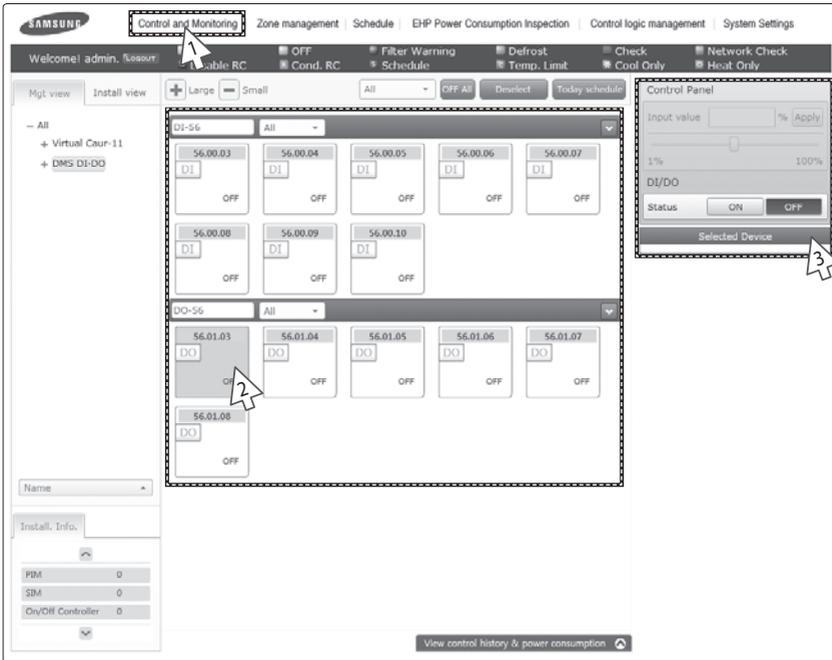
-
- 7 Select Heat upper limit by clicking [▲] [▼].
-
- 8 To select exclusive operation mode, select [heatsonly] or [No limits].
-
- 9 Click the  button to turn on/off the power for direct heat water.
◆ You can turn on the power for direct hot water only when the operation mode is on Auto or Heat mode.
-
- 10 Select desired temperature for hot water by clicking [▲] [▼].
-
- 11 Select desired operation mode for hot water.
◆ Select the operation mode from Eco/Standard/Power/Force.
-
- 12 Select DHW upper temperature limit by clicking [▲] [▼].
-

Note ◆ *Since the Hydro Unit HT does not have any filters, filter monitoring and filter reset is not available.*
◆ *Hydro Unit HT does not support temperature in Fahrenheit.*

Controlling Single EHS

-
- 1 Basic control operating procedures are the same as 'Hydro Unit', and others are as follows:
◆ 'Force' is added to the hot water mode.
◆ The hot water thermostat is also considered when the thermostat icon is activated.
-

Monitoring DMS DI/DO Operation Status



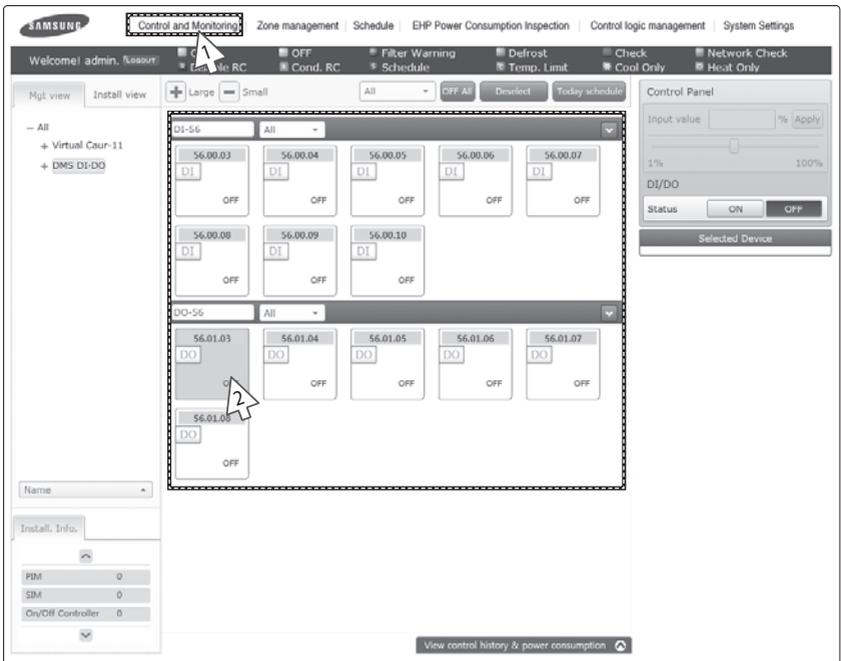
- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check the current status of DI and DO device.
- 3 Monitor the device through the control panel.

Note

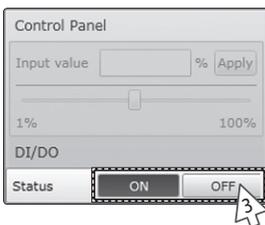
- ◆ Entering OnOff becomes impossible for DI device.
- ◆ Entering OnOff becomes possible for DO device.
- ◆ Entering control value becomes impossible for DI/DO device.
- ◆ You can control and monitor DI/DO which built-in DMS2.5. However, DI 1, 2 and DO 1, 2, 9, 10 are excluded from controlling and monitoring because they are used for the internal function of DMS.

Control and Monitoring (Continued)

Controlling DMS DO



- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select DO device to control when control and monitoring screen appears.
 - ◆ Check the status of DI or DO device.



- 3 Turn DO device on by clicking [ON]/[OFF] button on the control panel.

Note Remote controller setting is not possible for DI/DO device.

Controlling FCU Kit

The screenshot displays the Samsung DMS2.5 web interface. At the top, the 'Control and Monitoring' menu is highlighted. Below the navigation bar, there are tabs for 'Virtual ..' and 'DIDO'. The main area contains a grid of indoor unit status cards, each showing a temperature of 20.0°C and 'Auto' mode. A 'FCU' control panel on the right side features a power button, a 'Disable RC' button, and various settings including 'Curr. temp.' (20.0°C), 'Desired temp.' (20.0°C), and 'Heat upper limit' (30.0°C). The 'DIDO' section at the bottom shows a grid of control buttons for various units, with some labeled 'DI' and 'DO'.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.

- 2 Select FCU to control when control and monitoring screen appears.
 - ◆ Check the status of an indoor unit through status display window.
 - ◆ When the selected indoor units are switched on, the remote controller panel will be automatically activated.

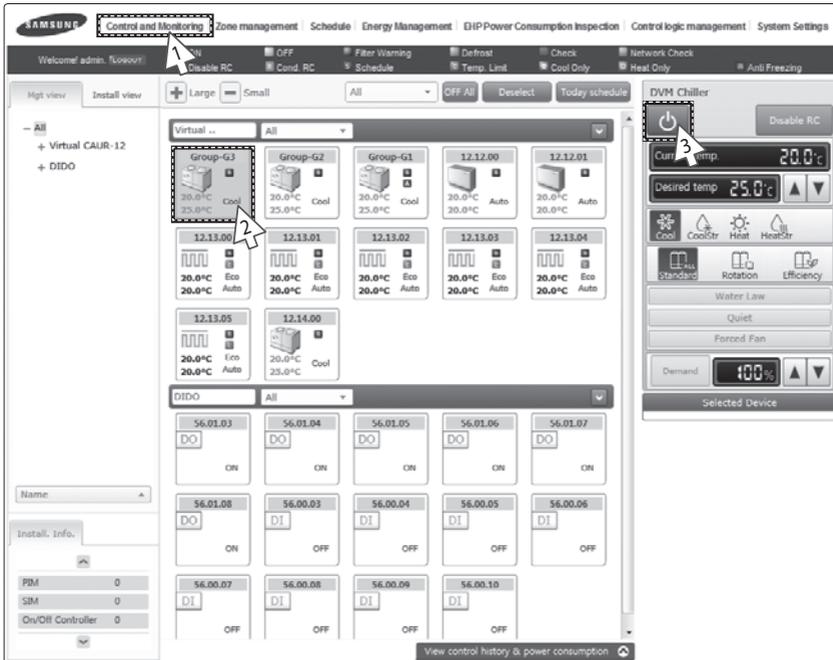
- 3 Turn the selected indoor units on by clicking [⏻].
 - ◆ Remote controller panel will be activated.

Control and Monitoring (Continued)



- Note**
- ◆ Refer to the 'Controlling an indoor units' steps for FCU Kit control. (Refer to page 22~25)
 - ◆ Refer to the 'Indoor unit operation mode limit' for FCU Kit operation mode limit. (Refer to page 26~27)
 - ◆ Refer to 'Setting Lower/Upper Temperature Limit of an Indoor Unit' for FCU Kit temperature limits. (Refer to page 28~29)

Controlling DVM CHILLER

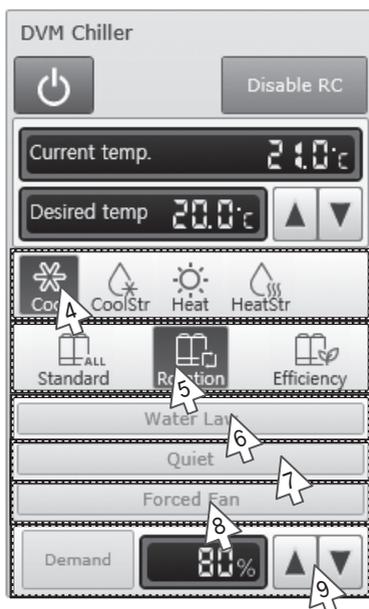


- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.

- 2 Select DVM CHILLER to control when control and monitoring screen appears.
 - ◆ Check the status of an indoor unit through status display window.
 - ◆ When the selected indoor units are switched on, the remote controller panel will be automatically activated.

- 3 Turn the selected indoor units on by clicking [⏻].
 - ◆ Remote controller panel will be activated.

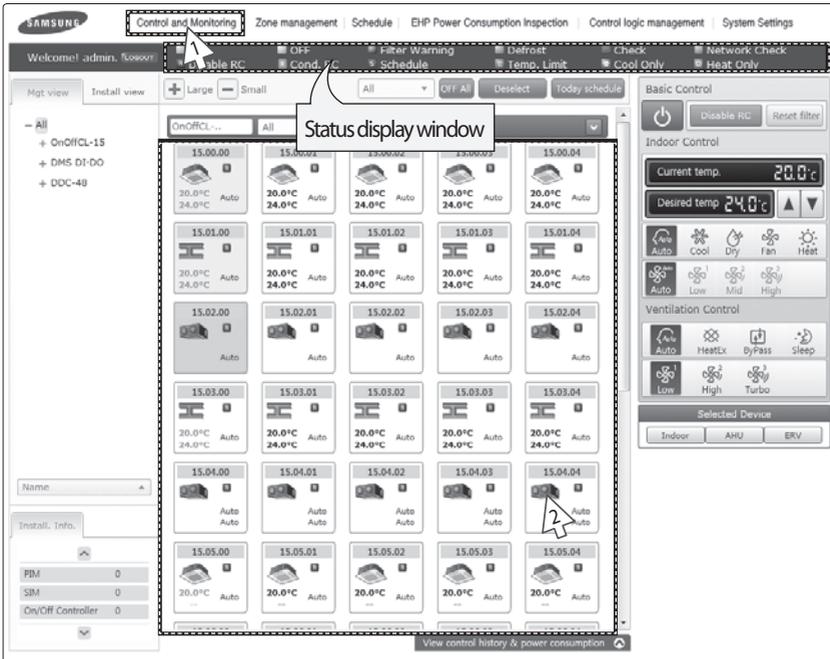
Control and Monitoring (Continued)



- 4 Select the operation mode.
 - ◆ You can select Cool, Cool Storage, Heat, and Hot Water mode.
- 5 Select the operation pattern.
 - ◆ You can select Standard, Rotation, Efficiency pattern.
- 6 Select Water Law setting.
 - ◆ You can enable/disable button to select Water Law.
 - ◆ You cannot adjust the desired temperature in Water Law.
- 7 Select Quiet function.
 - ◆ You can enable/disable button to select Quiet function.
- 8 Select Forced Fan function.
 - ◆ You can enable/disable button to select Forced Fan function.
- 9 Select Demand level by clicking [▲] [▼].
 - ◆ You can select Demand level in range of 50%~100%.

Note ◆ Power, desired temperature, operation mode, operation pattern, Water Law, Quiet function, Forced Fan function, Demand function can be controlled and monitored properly when the options are installed on DVM CHILLER.

Monitoring the selected multiple devices operation status



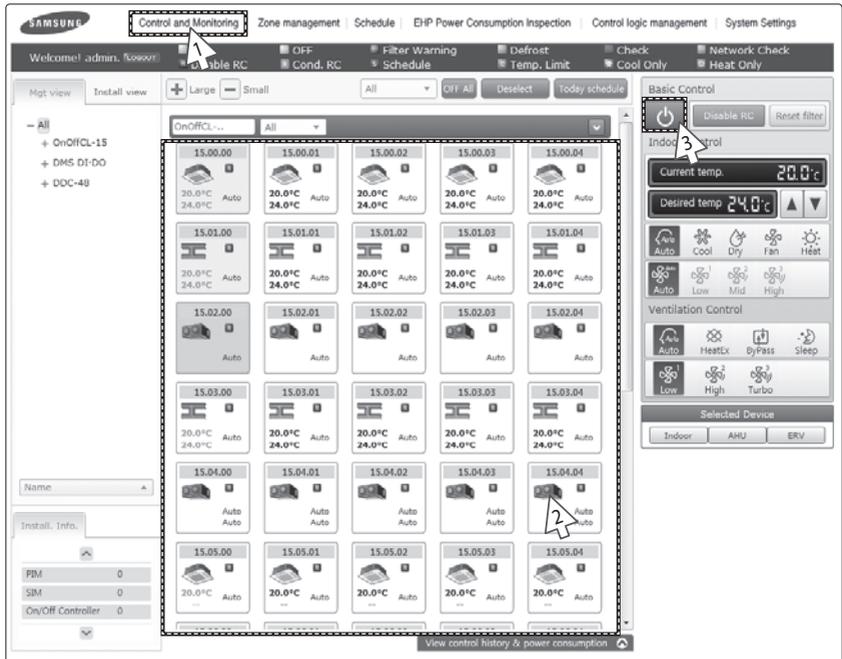
You can monitor the operation status of other type devices, and control other type devices as a whole, or as individual units.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check the status of the selected multiple devices.
 - ◆ Check the status of an indoor unit through status display window.
 - ◆ When the selected devices are switched on, the remote controller panel will be automatically activated.

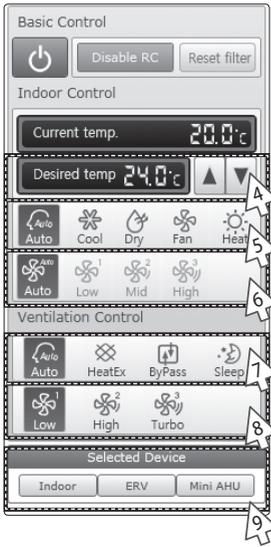
- Note**
- ◆ When users select multiple devices, 'Basic Control' will be displayed on the screen. (This is when different types of multiple devices are selected.)
 - ◆ The current status of last selected indoor unit type devices (Indoor unit, AHU, Fresh duct) will be displayed on the 'Indoor control'.
 - ◆ The status of last selected ERV type devices (ERV, ERV PLUS) will be displayed on the 'Ventilation Control'.
 - ◆ The list of the selected multiple devices will be displayed on the 'Selected Device'.
 - ◆ Hydro Unit, Hydro unit HT and Single EHS do not support multiple selection with other devices and you can only control and monitor the Hydro Unit, Hydro Unit HT and Single EHS individually. When you select Hydro Unit or Hydro Unit HT or Single EHS while multiple devices are already selected, previous selection (of multiple devices) will be canceled.

Control and Monitoring (Continued)

Controlling the selected multiple devices



- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Check the status of the selected devices.
 - ◆ Check the status of an indoor unit through status display window.
 - ◆ When the selected devices are switched on, the remote controller panel will be automatically activated.
- 3 Turn the selected devices on by clicking [⏻].
 - ◆ Remote controller panel will be activated.



-
- 4** Select the desired temperature by clicking [**▲**][**▼**].
- ◆ Each time you press the buttons, the temperature will be adjusted by 1 or 0.1°C (or by 1°F).
 - ◆ If Auto/Cool/Dry mode is in operation, you can adjust the desired temperature in the range of 18°C(64°F)~30°C(86°F).
 - ◆ If Heat mode is in operation, you can adjust the desired temperature in the range of 16°C(61°F)~30°C(86°F).
 - ◆ You cannot adjust the desired temperature in Fan mode.
 - ◆ When the operation mode of an indoor unit is in Cool or Dry mode, you cannot set the desired temperature lower than lower limit temperature if lower limit is enabled.
 - ◆ When the operation mode of an indoor unit is in Heat mode, you cannot set the desired temperature higher than upper limit temperature if upper limit is enabled.
-
- 5** Select the operation mode.
- ◆ You can select Auto, Cool, Dry, Fan and Heat mode.
-
- 6** Select the fan speed.
- ◆ You can select Auto, Low, Mid and High.
 - ◆ If Auto/Dry mode is in operation, fan speed will be set as Auto fan speed.
 - ◆ If Fan mode is in operation, you cannot select Auto fan speed.
-

Control and Monitoring (Continued)

-
- 7 Select the ERV operation mode.
- ◆ You can select Auto, Heat Ex, By pass and Sleep mode.
-
- 8 Select the fan speed.
- ◆ You can select Low, high and Turbo.
 - ◆ If Sleep mode is in operation, the fan speed will be set as Low fan speed.
-
- 9 When controlling certain types of devices in detail, select the device you want to control on the list of the 'Selected Device'.
-

- Note*
- ◆ *If the ERV type devices are not on the list of the 'Selected Device', ventilation control will not be activated.*
 - ◆ *If the indoor unit type devices are not on the list of the 'Selected Device', Indoor control will not be activated.*
 - ◆ *When controlling an indoor unit, ERV devices (ERV, ERV PLUS) cannot be controlled.*
 - ◆ *When controlling ERV devices, Indoor unit (Indoor unit, AHU, Fresh duct) cannot be controlled.*
 - ◆ *You can select power OnOff, Disable RC, Reset filter, Indoor Control (Desired temp, operation mode, fan speed) and ERV Control in the 'Basic control'.*
 - ◆ *Power OnOff, Disable RC and Reset filter are controlled to all the devices.*
 - ◆ *When selecting multiple devices, the list of the selected devices will be displayed at the bottom of the remote controller. When selecting the device you want to control, the remote control panel of the selected device will be activated and you can control the selected device in detail. However, the rest of the devices cannot be controlled other than the selected device.*
 - ◆ *DVM CHILLER cannot be selected with other types of devices and can be selected with DVM CHILLERS only.*

Checking the Installation Information

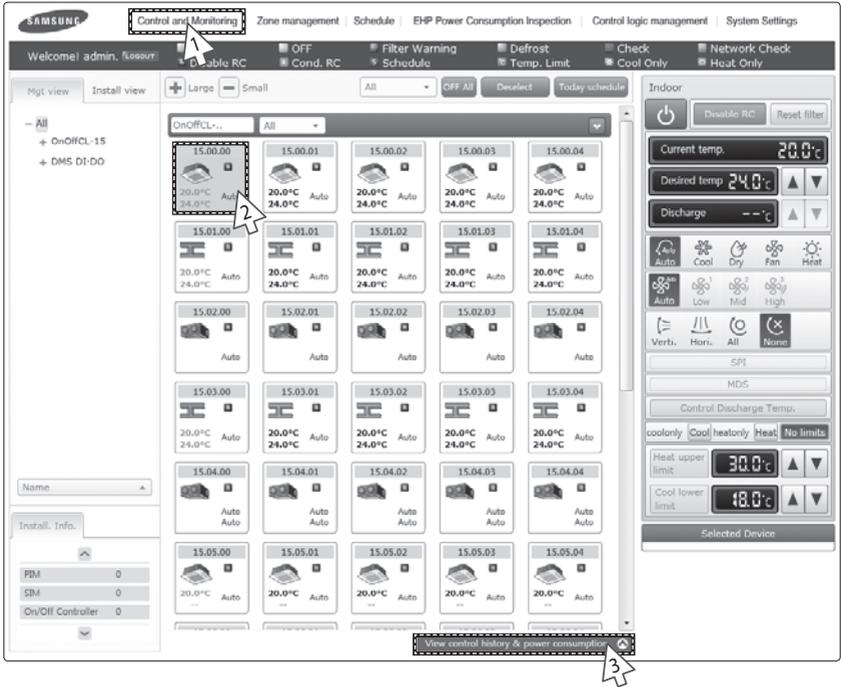
The screenshot displays the Samsung DMS2.5 web interface. At the top, the 'Control and Monitoring' menu item is highlighted. Below it, the main content area shows a grid of device status cards. Each card displays a time slot (e.g., 15.00.00 to 15.05.04), a temperature (20.0°C), and a mode (Auto). A dashed box highlights the 'Install. Info.' tab at the bottom left, with arrows pointing to it from the numbered steps below. The right-hand sidebar contains indoor climate controls, including 'Current temp.' (20.0°C), 'Desired temp.' (24.0°C), and 'Discharge' settings.

You can check the installation status of currently connected device.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Click 'Install.Info.' tab at the bottom left of the screen.
- 3 Check installation status of currently connected device in the installation information tab.
 - ◆ You can check installation information by pressing [^] and [v] buttons.

Control and Monitoring (Continued)

View the Control History & Power Consumption



You can select a device and view control history and power consumption information.

- 1 Click [Control and Monitoring] when DMS2.5 web page menu screen appears.
 - ◆ [Control and Monitoring] screen will appear when you log-in to DMS2.5 web page.
- 2 Select a device you want to view control history and power consumption.
- 3 Click [View control history & power consumption] tab and wait for a while.
 - ◆ Control history and power consumption information are received from DMS2.5.
 - ◆ 'Data receiving' message will appear on the bottom right of the tab.



The screenshot shows the Samsung HVAC control interface. At the top, there are navigation tabs: Control and Monitoring, Zone management, Schedule, EHP Power Consumption Inspection, Control logic management, and System Settings. Below these are various status indicators and controls like 'Welcome! admin. (logout)', 'ON/OFF', 'Filter Warning', 'Defrost', 'Check', 'Network Check', 'Disable RC', 'Cond. RC', 'Schedule', 'Temp. Limit', 'Cool Only', and 'Heat Only'. The main area displays a grid of device controls, each showing a temperature setpoint and mode. A pop-up window for device 15.00.00 is shown, containing two tables: 'Control history' and 'Power consumption'.

Control history

| | |
|-----------------|---------------------|
| Controlled time | 2012-12-03 20:13:20 |
| Type of control | User control |
| Power | OFF |
| RC | - |

Power consumption

| | Power |
|-----------------------------------|-------|
| Consumption in the current month | - |
| Average consumption current month | - |
| Consumption of previous month | - |
| Average consumption last month | - |

4 When data reception is completed from DMS2.5, check control history and power consumption of selected device.

- Note**
- ◆ In 'Control history', you can check power control and remote controller usage status.
 - ◆ Operation mode, desired temperature, air flow and fan speed control shows you the controlled time and type of control only.
 - ◆ If SIM/PIM is not installed, power consumption information may not be correct.
 - ◆ Power consumption information is displayed only when SIM/PIM is installed.
 - ◆ If SIM/PIM is removed, value measured with SIM/PIM will be displayed.

Control and Monitoring (Continued)

Cycle Monitoring

The screenshot shows the Samsung DMS2.5 web interface. The top navigation bar includes: Control and Monitoring, Zone management, Schedule, EHP Power Consumption Inspection, Control logic management, and System Settings. The main menu has: Welcome! admin, floor, Cycle monitoring, Troubleshooting, Outdoor unit control, and Checking operation status. The 'Cycle monitoring' page is active, showing a 'Select' dropdown menu with a tree view of devices. The tree view shows: All, Virtual CAUR-11, 11.00.00, 11.00.01, 11.00.02, 11.00.03, 11.00.04, 11.00.05, 11.00.06, 11.00.08, 11.00.10, 11.00.17, and 11.00.18. The main content area displays a table of system parameters and two unit status cards.

| | | | |
|--------------------------|-------|----------------|------|
| Oil recovering | -- | Operation Mode | Heat |
| Total capacity of indoor | 0.0kW | Defrost status | -- |
| Number of outdoor units | 2 | Oil balancing | -- |

| | | | |
|--------------------------|--------------|--------------------------|---------------------|
| Outdoor temperature | 12°C | Model | DVM Inverter/ DVM 5 |
| Condenser outlet temp. | -10.9°C | Oil / OLP temperature | -- |
| Comp 2 | On | Comp 3 | -- |
| Hot Gas Valve | On | Outdoor capacity | 22HP |
| Liquid Bypass Valve | -- | EVI Bypass Valve | On |
| Running currents(Comp.1) | 8.0A | Running currents(Comp.2) | 0.0A |
| Running currents(Comp.2) | 0.0A | Running currents(Comp.3) | -- |
| High pressure data | 22.0 kgf/cm2 | Low pressure data | 2.0 kgf/cm2 |
| Double tube temperature | 25.4°C | ESC EEV/EV(Liquid) EEV | 0 STEP |
| HR EEV(Gas Liquid EEV) | -- | Discharge-1 temperature | 60.3°C |
| Discharge-2 temperature | 55.1°C | Discharge-3 temperature | -- |
| Discharge-3 temperature | -- | Loading Time | -- |
| Accumulator CCH | -- | CCH1 | Off |
| CCH2 | Off | CCH3 | -- |
| Top Temp Sensor #1 | 66.4°C | Top Temp Sensor #2 | 50.1°C |

You can select an indoor unit and check cycle information.

- 1 Click [Control and Monitoring] → [Cycle Monitoring] when DMS2.5 web page menu screen appears.
- 2 Click [Select].
 - ◆ DMS2.5 installation information will be displayed.
- 3 Select a device to check cycle information.
 - ◆ If you select OnOff controller, its subordinate outdoor unit which has the earliest address will be selected.
 - ◆ If you select an outdoor unit, all the information of the module (that are connected to the selected outdoor unit) will be displayed.
 - ◆ If you select indoor unit, upper outdoor unit will be selected.
- 4 Cycle information of selected outdoor unit and subordinate indoor units.
 - ◆ If the status of outdoor unit and indoor unit is changed, status value turns into blue.

Indoor Unit Usage Restriction_Operation Limit

Control and Monitoring | Zone management | Schedule | EHP Power Consumption Inspection | Control logic management | System Settings

Welcome! admin. f... | Control and Monitoring | Indoor unit usage restriction

Indoor unit usage restriction

Indoor unit usage restriction

| Address | Name | Limit mode | Control mode | Lower temperature limit in Cool mode | Upper temperature limit in Heat mode |
|---------------|----------|------------|--------------|--|--|
| 11.00.01 (01) | 11.00.01 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0 °C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0 °C |
| 11.00.02 (02) | 11.00.02 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0 °C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0 °C |
| 11.00.03 (03) | 11.00.03 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0 °C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0 °C |
| 11.00.04 (04) | 11.00.04 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0 °C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0 °C |

Save

You can set the operation of indoor unit as cooling only and heating only.

- 1 Click [Control and Monitoring] → [Indoor unit usage restriction] when DMS2.5 web page menu screen appears.
- 2 Press [Edit] button.
- 3 Set the limit mode.
 - ◆ You can select 'Cool-only', 'Heat-only' or 'None'.
 - For cooling only indoor unit, you can select cool, dry and fan modes only.
 - For heating only indoor unit, you can select heat and fan modes only.

Control and Monitoring (Continued)

Control and Monitoring | Zone management | Schedule | EHP Power Consumption Inspection | Control logic management | System Settings

Welcome! admin, floor

- Cycle monitoring
- Indoor unit usage restriction**
- Trouble history
- Outdoor unit control
- Checking operation status

Control and Monitoring : Indoor unit usage restriction

Indoor unit usage restriction

| Address | Name | Limit mode | Control mode | Lower temperature limit in Cool mode | Upper temperature limit in Heat mode |
|---------------|----------|------------|--------------|---|---|
| 11.00.01 (01) | 11.00.01 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0°C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0°C |
| 11.00.02 (02) | 11.00.02 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0°C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0°C |
| 11.00.03 (03) | 11.00.03 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0°C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0°C |
| 11.00.04 (04) | 11.00.04 | None | None | <input type="radio"/> Disable <input type="radio"/> Enable 18.0°C | <input type="radio"/> Disable <input type="radio"/> Enable 30.0°C |

Edit Save

4 Set the control mode.

- ◆ Control mode is used for DMS2.5 to set either 'cool only' or 'heat only' mode to indoor and outdoor units.

Note

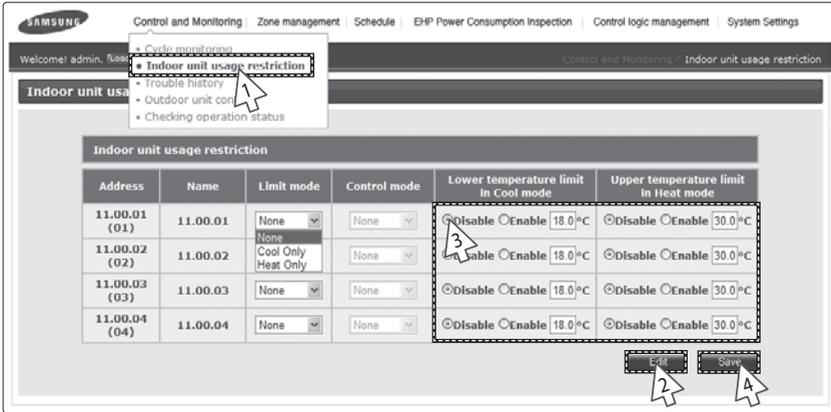
- ◆ *Mixed operation can occur even if you set limit mode.*
- ◆ *If the indoor unit with operation mode limit is in mixed operation, DMS2.5 will solve the problem automatically by controlling it in control mode.*
- ◆ *Since Hydro unit HT does not support Cool mode, control mode for Hydro unit HT can only be set as 'Heat only' or 'None'.*



CAUTION

- ◆ *When you set the operation mode limit, and if the outdoor unit is HP (Heat pump) type, DMS2.5 will automatically change the operation mode limit setting of all the indoor units connected to same outdoor unit.*
- ◆ *If the indoor unit is cooling only model, you cannot set the operation mode limit to 'heatonly'.*
- ◆ *DVM CHILLER cannot set 'only' mode.*

Indoor Unit Usage Restriction_Temperature Limit in Cool/Heat mode



You can set temperature lower/upper temperature limit in cool/heat mode.

- 1 Click [Control and Monitoring] → [Indoor unit usage restriction] when DMS2.5 web page menu screen appears.
- 2 Press [Edit] button.
- 3 Set the lower/upper temperature limit.
 - ◆ You can set lower/upper temperature limit by selecting 'Enable'/'Disable'.
 - ◆ ERV PLUS and Fresh duct cannot set the lower temperature limit in Cool mode or upper temperature limit in Heat mode.
 - ◆ For Hydro unit and Single EHS, if the temperature control is set as 'Room', you can set the Lower temperature limit in Cool mode and Upper temperature limit in Heat mode according to room temperature. If the temperature control of Hydro unit is set as 'Water out', you can set the Lower temperature limit in Cool mode and Upper temperature limit in Heat mode according to water out temperature.
 - ◆ For Hydro unit HT, if the temperature control is set as 'Room', you can set the Upper temperature limit in Heat mode according to room temperature. If the temperature control of Hydro unit is set as 'Water out', you can set the Upper temperature limit in Heat mode according to water out temperature.
 - ◆ DVM CHILLER cannot set the lower temperature limit in Cool mode or upper temperature limit in Heat mode.
- 4 Click [Save].
 - ◆ Indoor unit usage restriction setting will be saved.

Control and Monitoring (Continued)

Checking the Trouble History

The screenshot shows the 'Trouble history' page in the Samsung DMS2.5 web interface. The page has a navigation bar with 'Control and Monitoring' selected. A dropdown menu is open, showing options like 'Cycle monitoring', 'Indoor unit usage restriction', 'Trouble history', 'Outdoor unit control', and 'Checking of connection status'. The main content area has a date filter set to 2013-02-05 and a search bar. Below this is a table with columns: Select, Address, Device type, Occurrence time, Resolution time, Code No., and Status. One row is highlighted with a dashed box and a callout '3' pointing to the 'Select' checkbox. The row contains: Address: 11.00, Device type: outdoor, Occurrence time: 2013-02-05 20:15, Code No.: 628, Status: Not resolved. Below the table, there is a description: 'Communication error between DMS -- Outdoor unit' and a 'Details' button.

- 1 Click [Control and Monitoring] → [Trouble history] when DMS2.5 web page menu screen appears.
- 2 Check all the trouble history.
 - ◆ You can check address, device type, occurrence time, resolution time, code number and status.
- 3 You can check detailed information on trouble history by selecting the item in the list.

Note

- ◆ *DMS2.5 saves maximum 1024 trouble histories. If the number of history exceeds 1024, DMS2.5 will delete the oldest history first.*
- ◆ *If the same code trouble is detected repeatedly in the same device on the same day, trouble history will be shown as 1 case. If it occurs more than 2 times, 'Resolution time' may change every time you check. And the number of repetition will be displayed in 'Status' field.*

Checking the Trouble History by Date

The screenshot shows the Samsung DMS2.5 web interface. The top navigation bar includes 'Control and Monitoring', 'Zone management', 'Schedule', 'EHP Power Consumption Inspection', 'Control logic management', and 'System Settings'. The main content area is titled 'Trouble history' and contains a search bar with date pickers for year and month/day. Below the search bar is a table with the following columns: Select, Address, Device type, Occurrence time, Resolution time, Code No., and Status. A row is highlighted with a dashed box, showing a communication error between DMS and an outdoor unit. The table content is as follows:

| Select | Address | Device type | Occurrence time | Resolution time | Code No. | Status |
|--------------------------|---------|-------------|------------------|-----------------|----------|--------------|
| <input type="checkbox"/> | 11.00 | outdoor | 2013-02-05 20:15 | | 628 | Not resolved |

Below the table, there is a note: '※ Click the row for detailed information.' and a 'Details' button.

DMS2.5 saves maximum 1024 trouble histories. If the number of history exceeds 1024, DMS2.5 will delete the oldest history first.

- 1 Click [Control and Monitoring] → [Trouble history] when DMS2.5 web page menu screen appears.
- 2 Enter the time period you want to check.
 - ◆ Enter year/month/day in order.
- 3 Click [Search].
 - ◆ You can check address, device type, occurrence time, resolution time, code number and status in the entered period.
- 4 You can check detailed information on trouble history by selecting the item in the list.

Control and Monitoring (Continued)

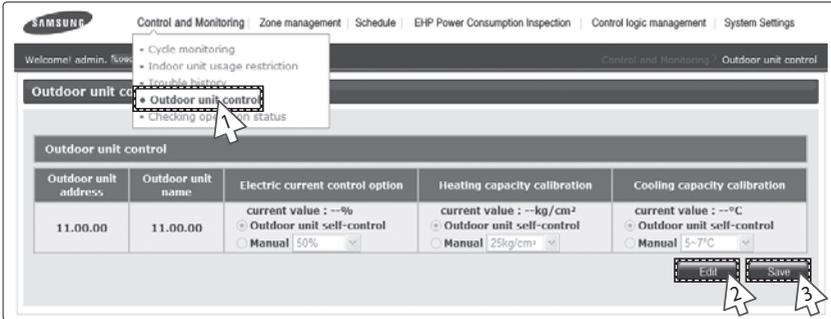
Deleting the Trouble History

The screenshot shows the Samsung DMS2.5 web interface. The top navigation bar includes: SAMSUNG, Control and Monitoring, Zone management, Schedule, EHP Power Consumption Inspection, Control logic management, and System Settings. The main content area is titled 'Trouble history' and contains a search bar with filters for year (2013), month (2), and day (5). Below the search bar is a table with the following columns: Select, Address, Device type, Occurrence time, Resolution time, Code No., and Status. The table contains one row with the following data: in the Select column, 11.00 in the Address column, outdoor in the Device type column, 2013-02-05 20:15 in the Occurrence time column, Resolution time is empty, 620 in the Code No. column, and Not resolved in the Status column. Below the table, there is a note: 'Communication error between DMS -- Outdoor unit'. At the bottom left, there is a note: '※ Click the row for detailed information.' and a page number '1'. At the bottom right, there is a 'Delete' button with a mouse cursor pointing to it.

| Select | Address | Device type | Occurrence time | Resolution time | Code No. | Status |
|--------------------------|---------|-------------|------------------|-----------------|----------|--------------|
| <input type="checkbox"/> | 11.00 | outdoor | 2013-02-05 20:15 | | 620 | Not resolved |

- 1 Click [Control and Monitoring] → [Trouble history] when DMS2.5 web page menu screen appears.
- 2 Select trouble history you want to delete.
- 3 Click [Delete].
 - ◆ Click [OK] from the confirm window. Selected trouble history will be deleted.

Outdoor unit control



- 1 Click [Control and Monitoring] → [Outdoor unit control] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] and select the desired setting for Electric current control option, Heating capacity calibration and Cooling capacity calibration.
 - ◆ Outdoor unit self-control: Outdoor unit controls the value itself.
 - ◆ Manual: Outdoor will be controlled at value set by the user.
- 3 Click [Save] and the outdoor unit will be controlled at set value.
 - ◆ If the value was set manually on DMS2.5, outdoor unit will always operate at set value.

Note ◆ *Outdoor unit control is supported on certain models only, and the 'Outdoor unit control page' only appears on those supported models.*

Control for Occupied/Vacant room

- 1 Click [Control and Monitoring] → [Occupied/Vacant room control] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] and select the desired setting for Mode, Desired temperature, Fan speed and Apply.
- 3 Click [Save] and the unoccupied room will be controlled at set value.

Note ◆ *The 'Occupied/Vacant room control page' only appears on those supported models.*

◆ **U** *will appear on the indoor unit icon on [Control and Monitoring] screen, if the indoor unit is unoccupied.*

Control and Monitoring (Continued)

Checking the Operation Status

The screenshot shows the Samsung DMS2.5 web interface. The main menu includes: Control and Monitoring, Zone management, Schedule, EHP Power Consumption Inspection, Control logic management, and System Settings. The current page is 'Checking operation status'. A search bar is visible with filters for year (2013), month (2), and all. A table lists operation history with columns: Device type, Occurrence time, Control Unit, Control type, and Controlled device. One row is highlighted with a dashed box, showing: DVM, 2013.02.05 20:50:43, DMS Web, Upper controller control, 11.00.01. Below the table, detailed information for the selected row is shown: Control device(DVM) 11.00.01(11.00.01), Control device type : DVM, Power : On. A note at the bottom says: * Click the row for detailed information.

| Device type | Occurrence time | Control Unit | Control type | Controlled device |
|-------------|---------------------|--------------|--------------------------|-------------------|
| DVM | 2013.02.05 20:50:43 | DMS Web | Upper controller control | 11.00.01 |

Control device(DVM)
11.00.01(11.00.01)
Control device type : DVM
Power : On

* Click the row for detailed information.

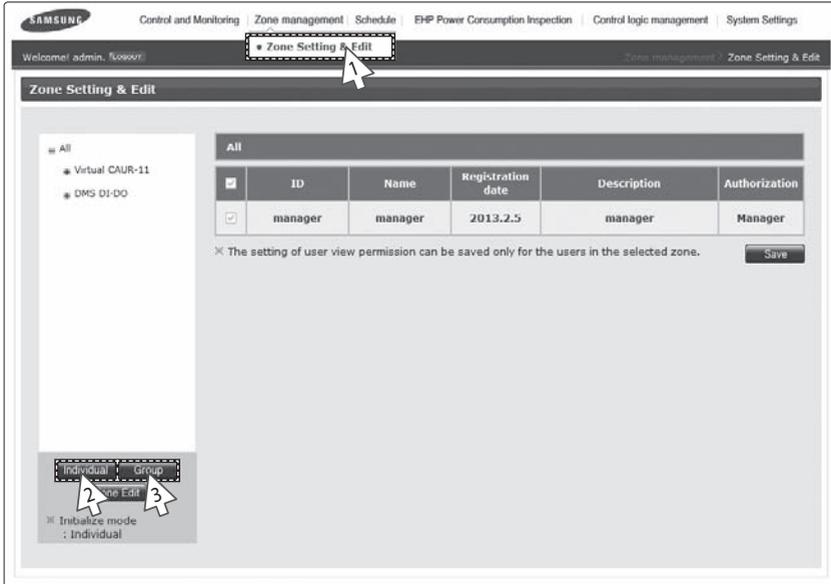
You can check operation status of indoor unit which is controlled by DMS2.5.

- 1 Click [Control and Monitoring] → [Checking operation status] when DMS2.5 web page menu screen appears.
- 2 Check the operation history.
 - ◆ You can check the device type, occurrence time, control unit, control type, and controlled device address of indoor unit which is controlled by DMS2.5 and subordinate controller.
- 3 You can check operation status by entering date.
 - ◆ Enter year/month/day then click [Search]. You can check control history that occurred on the entered date.
- 4 You can check detailed control history which is controlled by the command by pressing control history in the list.

Note *DMS2.5 saves the information of operation history for 180 days. However, it varies depending on saving space of DMS2.5.*

Zone Management

Zone Setting & Edit – Individual/Group Initialization

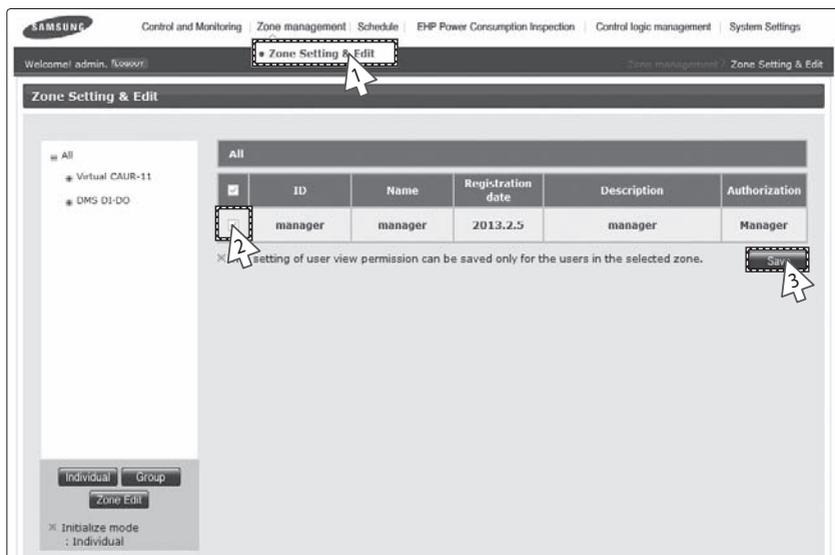


- 1 Click [Zone management] → [Zone Setting & Edit] when DMS2.5 web page menu screen appears.
 - ◆ Same screen will be displayed even if you click [Zone management] only.
- 2 Initialize the indoor unit organization as individual by clicking [Individual].
 - ◆ Individual initialization reorganizes connected indoor unit based on installation address.
- 3 Initialize the indoor unit organization as group by clicking [Group].
 - ◆ Group initialization reorganizes connected indoor unit based on RMC address.
 - ◆ After group initialization, indoor units are displayed as one device when upper zone is selected in the [Control and Monitoring] screen.
 - ◆ When editing zone after group initialization, moving in group is only allowed.
 - ◆ After group initialization, subordinate devices cannot be moved individually to the other zone.

- Note**
- ◆ Only the user who has authorization to edit all zones can use zone initialization.
- To the user who has no authorization to use zone initialization and manage structure, button will not be displayed.
 - ◆ If the user does not have authorization to edit zone, [Individual], [Group] and [Zone edit] will not be displayed.

Zone Management (Continued)

Zone Setting & Edit – Setting the User Authorization



- 1 Click [Zone management] → [Zone Setting & Edit] when DMS2.5 web page menu screen appears.
 - ◆ Same screen will be displayed even if you press [Zone management] only.
- 2 Set user authorization for each zone.
 - ◆ If the user has no authorization for the zone, controlling and monitoring of the zone is restricted.
 - ◆ The user who is allowed to control and monitor zone has '☑' sign.
- 3 Click [Save] to save.
 - ◆ The user of currently selected zone is selected in the screen.



CAUTION

- ◆ **You should set the authorization for controlling and monitoring the zone when the user is added.**
- ◆ **If you do not set the authorization for zone after adding a user, the zone will not be displayed even if the user logged in.**
- ◆ **Setting the user authorization is valid only for the zone displayed on the screen. If you select the other zone setting without clicking save button after changing the setting, user authorization for previously selected zone will be gone.**
- ◆ **When initializing zone, all rights are given to all users.**

Zone Setting & Edit – Zone Edit

Zone management > Zone Setting & Edit

Zone Setting & Edit

All

| <input checked="" type="checkbox"/> | ID | Name | Registration date | Description | Authorization |
|-------------------------------------|---------|---------|-------------------|-------------|---------------|
| <input checked="" type="checkbox"/> | manager | manager | 2013.2.5 | manager | Manager |

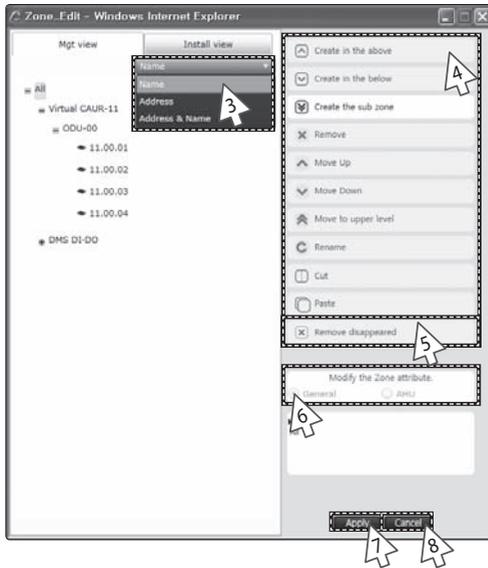
※ The setting of user view permission can be saved only for the users in the selected zone. Save

Individual Group

※ Initialize mode: Individual

- 1 Click [Zone management] → [Zone Setting & Edit] when DMS2.5 web page menu screen appears.
 - ◆ Same screen will be displayed even if you press [Zone management] only.
- 2 Click [Zone Edit].
 - ◆ Zone edit screen will be displayed.

Zone Management (Continued)



- 3 Click [▼] to set viewing option of zone edit list.
 ◆ You can select from viewing by 'Name', 'Address' and 'Address & Name'.

- 4 Edit item you want.

| | |
|---------------------|--|
| Create in the above | Create a new zone on top of the selected zone. |
| Create in the below | Create a new zone under the selected zone. |
| Create the sub zone | Create a zone one step lower than the user selected. You cannot create a zone under 5 steps in zone edit. |
| Remove | Remove selected zone. If the selected zone includes device, the device will move to the top step. |
| Move up | Move up the selected zone or indoor unit. |
| Move down | Move down the selected zone or indoor unit. |
| Move to upper level | Move the selected zone or indoor unit to the upper level. |
| Rename | Rename the selected zone or indoor unit. You can use maximum 16 letters. |
| Cut | Cut to move the selected zone or indoor unit, |
| Paste | Move the cut zone or indoor unit to the selected zone. |

5 Click [Remove disappeared] to remove all disappeared devices which were found after tracking.

6 Change zone properties.

◆ You can select “General”, “AHU”, and “Group”.

| Mode | Property name | Description | Remarks |
|--------------------------------|---------------|--|---|
| Individual initialization mode | General | <ul style="list-style-type: none"> ■ Virtual group which is managed by installation address, not by RMC address ■ The user can create and delete zone. | - |
| | Group | Not applicable. (Only supported in group initialization mode.) | Not applicable. (Only supported in group initialization mode.) |
| | AHU | <ul style="list-style-type: none"> ■ Virtual group which manages AHU kit in general zone. ■ The user can create and delete. | <ul style="list-style-type: none"> ■ It will be displayed as single device in the control and monitoring screen, and it can be controlled as single device. ■ You cannot move subordinate device to the other zone. |
| Group initialization mode | General | <ul style="list-style-type: none"> ■ Virtual group which is set and managed by the user. ■ The user can create and delete. | - |
| | Group | <ul style="list-style-type: none"> ■ Virtual group which is managed by installation address, not by RMC address. ■ The user cannot create and delete. DMS2.5 creates it automatically. | <ul style="list-style-type: none"> ■ It is displayed like as one device in the control and monitoring screen and can be controlled. ■ You cannot move subordinate device to the other zone. |
| | AHU | <ul style="list-style-type: none"> ■ Virtual group which manages AHU kit in general zone. ■ The user can create and delete. | <ul style="list-style-type: none"> ■ It is displayed like as one device in the control and monitoring screen and can be controlled. ■ You cannot move subordinate device to the other zone. |

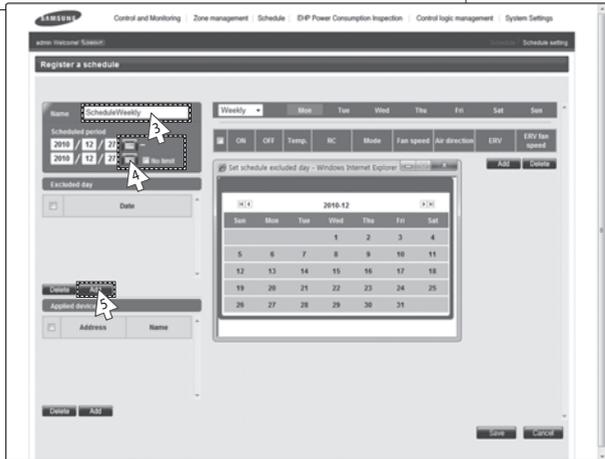
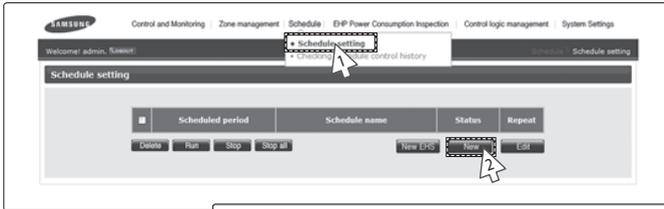
7 Click [Apply].

◆ Edited zone structure will be applied.

8 To cancel the setting, click [Cancel].

Schedule

Creating New schedule

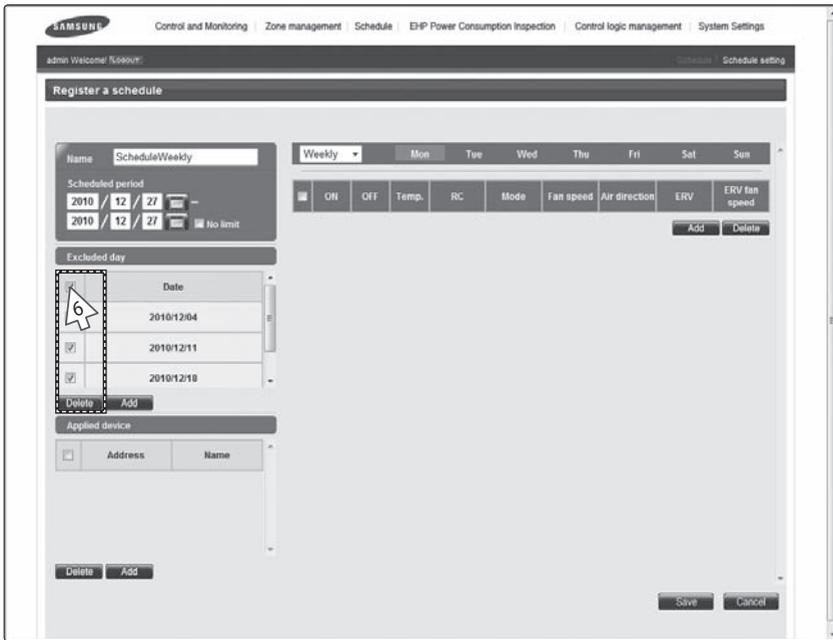


You can set, edit, delete and use the schedules for air conditioner control.

- 1 Click [Schedule] → [Schedule setting] when DMS2.5 web page menu screen appears.
- 2 Click [New] in the schedule setting screen.

Note It is not available to provide the schedule information to BMS system.

- 3 Enter the schedule name when the schedule setting screen appears.
- 4 Select schedule period you want by clicking calendar.
 - ◆ If you select 'No limit' when setting end date, it means there is no period and it displays Dec 31st, 9999.
To set the end date, remove the check of 'No limit' or select calendar icon which is on the right side of date.
- 5 To set an exception date in the schedule period, click [Add] and select date(month/day) you want.
 - ◆ Select an exception date on the calendar window.



- To cancel the added exception date, select the exception date it(☑) and click [Delete].
 - ◆ Maximum 365 exception dates can be saved.

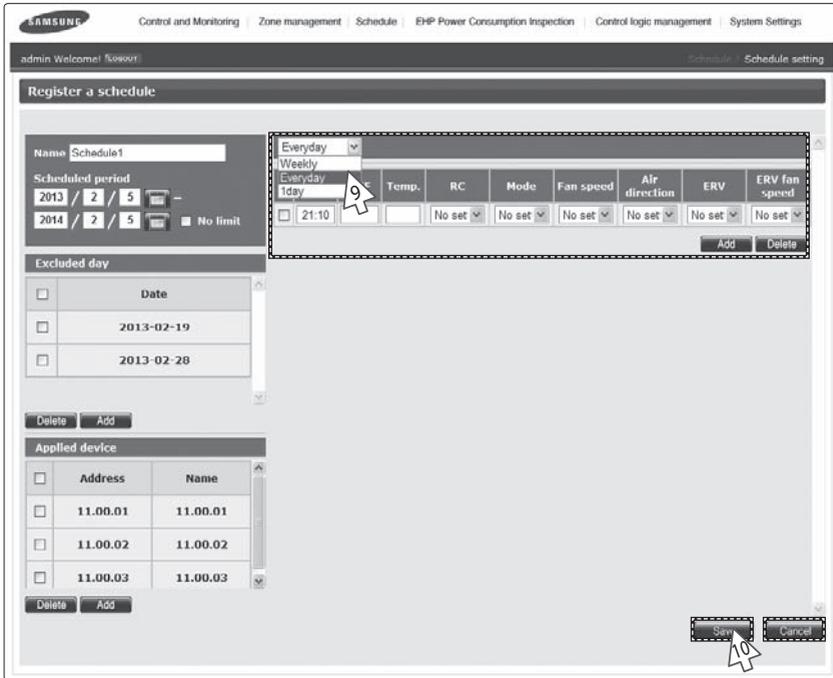
Schedule (Continued)

The screenshots show the 'Register a schedule' interface in the Samsung control system. The top screenshot shows the initial setup with a device configuration window open. The bottom screenshot shows the 'Applied device' table with a dashed box around the first row and an arrow pointing to the 'Delete' button.

7 Click [Add] to select a device to apply.

- ◆ The list of all the connected devices will be displayed.
- ◆ You can register a schedule for DMS DO as well.
- ◆ You cannot select DVM CHILLER and other devices simultaneously.

8 To cancel the selected device, select (☑) the device again and click [Delete].



- 9 Click [v] to select repeat schedule you want and set an event.
- ◆ You can select 'Weekly', 'Everyday' and '1day'.
However, the starting and end date should be same when you select '1day'.
 - ◆ Enter 4 digits for OnOff time setting.
Ex) 8:00 → 0800, 9:30 → 0930
 - ◆ Remote controller setting is as follows.
 - Enable RC: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is possible.
 - Disable RC: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is not possible.
 - Cond. RC
 - ON by OnOff controller, DMS2.5: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is possible.
 - OFF by OnOff controller, DMS2.5: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is not possible.
 - ◆ Click [Add] to add event.
 - ◆ To delete event, select an event(☑) and click [Delete].
 - ◆ Maximum 70 events can be set per 1 schedule. In case of week schedule, 10 events per 1 day can be set.
 - ◆ If starting and end time of schedule event are repeated, only the schedule event which is made earlier will be executed.

10 Click [Save].

- ◆ Set schedule information is saved in DMS2.5.
 - ◆ Click [Cancel] to cancel schedule setting.
-

Note

- ◆ *If you select dry mode among basic modes, auto fan speed is only available.*
- ◆ *When the operation mode is 'Auto', fan speed is always set to 'Auto'.*
- ◆ *When the operation mode is 'Fan', you cannot control fan speed as 'Auto'.*
- ◆ *When the operation mode is 'Dry', fan speed is always set to 'Auto'.*
- ◆ *When you select sleep mode among ERV modes, 'Mid' fan speed is only available.*
- ◆ *If the tracking is not completed, schedule setting is not possible. To use proper schedule function, make sure to complete tracking with installation engineer.*
- ◆ *'Off' operation works only with ERV PLUS.*
- ◆ *'Cool Storage' and 'Hot Water' mode works by DVM CHILLER only.*
- ◆ *The Turbo fan speed is available only in the devices that support the Turbo fan speed. For the devices that do not support the Turbo fan speed, the Auto or High fan speed operates, even though the Turbo fan speed is selected.*

Creating new schedule for EHS



- 1 Click [Schedule] → [Schedule setting] when DMS2.5 web page menu screen appears.
- 2 Click [New EHS] in the schedule setting screen.
- 3 Enter the schedule name when the schedule setting screen appears.
- 4 Select schedule period you want by clicking calendar.
 - ◆ If you select 'No limit' when setting end date, it means there is no period and it displays Dec 31st, 9999. To set the end date, remove the check of 'No limit' or select calendar icon which is on the right side of date.
- 5 To set an exception date in the schedule period, click [Add] and select date(month/day) you want.
 - ◆ Select an exception date on the calendar window.

Schedule (Continued)

SAMSUNG Control and Monitoring Zone management Schedule EHP Power Consumption Inspection Control logic management System Settings

admin Welcome! 15:08:00

Register a schedule

Name:

Scheduled period: 2012 / 11 / 3 - 2013 / 11 / 3 No limit

Weekly ON OFF Temp. RC Mode DHW ON DHW OFF DHW Temp. DHW mode

| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> |

Excluded day

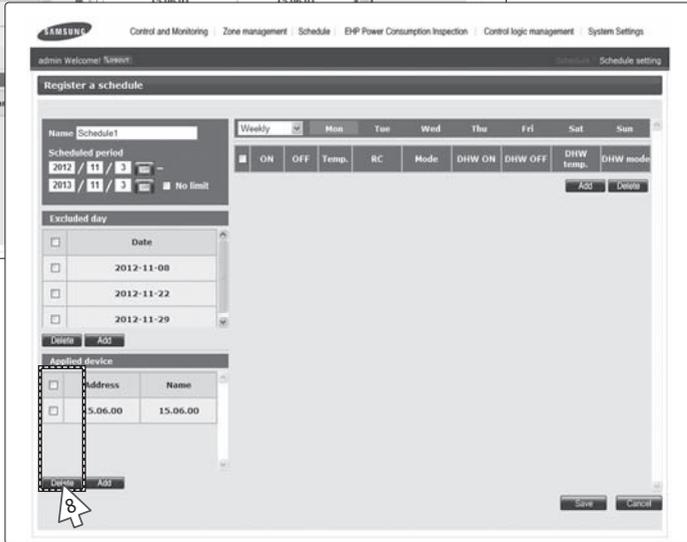
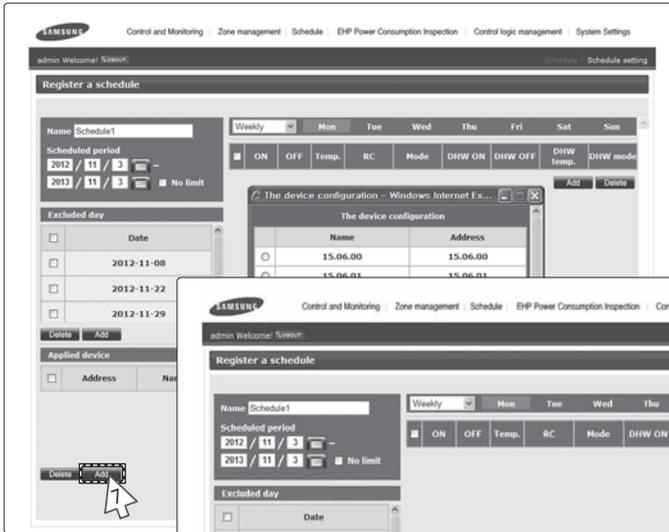
| Date |
|-------------------------------------|
| <input type="checkbox"/> 2012-11-08 |
| <input type="checkbox"/> 2012-11-22 |
| <input type="checkbox"/> 2012-11-29 |

Applied device

| Address | Name |
|--------------------------|------|
| <input type="checkbox"/> | |

Buttons: Add, Delete, Save, Cancel

- To cancel the added exception date, select the exception date () and click [Delete].
 - ◆ Maximum 365 exception dates can be saved.



- 7 Click [Add] to select a device to apply.
 - ◆ The list of all the connected devices will be displayed. Select a device and click [OK].
 - ◆ You can only select one device.

- 8 To cancel the selected device, select () the device again and click [Delete].

Schedule (Continued)

The screenshot shows the 'Register a schedule' interface. The 'Scheduled period' is set from 2012/11/3 to 2013/11/3. The 'Excluded day' section lists dates 2012-11-08, 2012-11-22, and 2012-11-29. The 'Applied device' section shows an address of 15.06.00. A table for selecting repeat schedules is shown with 'Weekly' selected and a mouse cursor pointing to the 'v' icon. The table has columns for days of the week and settings for Temp., RC, Mode, DHW ON, DHW OFF, DHW Temp., and DHW mode. 'Save' and 'Cancel' buttons are at the bottom right.

| Weekly | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|--|-------|-----|------|--------|---------|-----------|----------|
| Weekly <input checked="" type="checkbox"/> | | | | | | | |
| Everyday | | | | | | | |
| 1day | Temp. | RC | Mode | DHW ON | DHW OFF | DHW Temp. | DHW mode |

- 9 Click [v] to select repeat schedule you want and set an event.
 - ◆ You can select 'Weekly', 'Everyday' and '1day'. However, the starting and end date should be same when you select '1day'.
 - ◆ Enter 4 digits to set the time for turning ON/OFF the EHS and the Hot water.
Ex) 8:00 → 0800, 9:30 → 0930
 - ◆ Remote controller setting is as follows.
 - Enable RC: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is possible.
 - Disable RC: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is not possible.
 - Cond. RC
 - ON by OnOff controller, DMS2.5: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is possible.
 - OFF by OnOff controller, DMS2.5: Controlling indoor unit using wired/wireless remote controller or indoor unit panel in each room is not possible.
 - ◆ Click [Add] to add event.
 - ◆ To delete event, select an event() and click [Delete].
 - ◆ Maximum 70 events can be set per 1 schedule. In case of week schedule and 10 events per 1 day can be set.
 - ◆ If starting and end time of schedule event are repeated, only the schedule event which is made earlier will be executed.

10 Click [Save].

- ◆ Created schedule information will be saved in DMS2.5.
 - ◆ Click [Cancel] to cancel schedule setting.
-

Note

- ◆ *Since Hydro unit HT does not support Cool mode, you should not add any schedules related to Cool mode.*
- ◆ *If the desired temperature is set when the operation mode is 'None', when the actual schedule should start working, it may not work at desired temperature setting depending on control type and mode.*
- ◆ *Do not input the desired temperature when the operation mode is set to 'Auto'.*
- ◆ *Do not turn on the power for direct hot water when the operation mode is set to 'Cool'.*
- ◆ *Schedule setting is not available when the tracking is not completed. To use the schedule function normally, complete the tracking with the installation expert.*
- ◆ *When Thermostat #1 or Thermostat #2 is ON, the desired temperature and operation mode cannot be controlled.*
- ◆ *When the hot water thermostat is ON, the schedule of the hot water temperature cannot be controlled.*

Schedule (Continued)

Editing Schedule

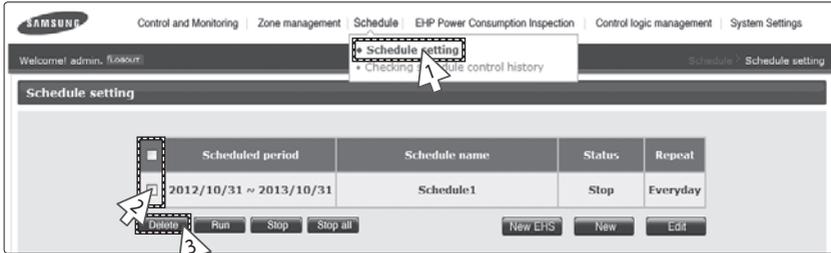
The screenshot shows the SAMSUNG web interface. The top navigation bar includes 'Control and Monitoring', 'Zone management', 'Schedule', 'EHP Power Consumption Inspection', 'Control logic management', and 'System Settings'. The 'Schedule' menu is expanded, showing 'Schedule setting' (highlighted with a dashed box and arrow 1), 'Checking', and 'Zone control history'. Below the navigation bar, the 'Schedule setting' page is displayed. It features a table with the following data:

| <input type="checkbox"/> | Scheduled period | Schedule name | Status | Repeat |
|--------------------------|-------------------------|---------------|--------|----------|
| <input type="checkbox"/> | 2012/10/31 ~ 2013/10/31 | Schedule1 | Stop | Everyday |

Below the table are buttons for 'Run', 'Stop', 'Stop all', 'New EHS', and 'New'. The 'Edit' button in the bottom right corner of the table is highlighted with a dashed box and arrow 3.

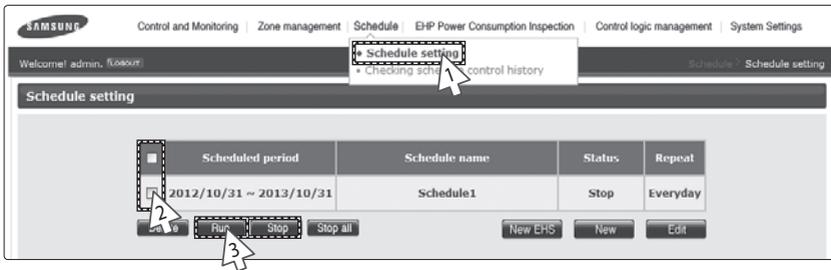
- 1 Click [Schedule] → [Schedule setting] when DMS2.5 web page menu screen appears.
- 2 Select the schedule to edit.
 - ◆ For the currently operating schedule, you can only check it.
- 3 Click [Edit].
 - ◆ Edit schedule when the schedule edit screen appears.
 - ◆ Editing schedule method is same as "Creating New Schedule". (Refer to page 72~76)

Deleting Schedule



- 1 Click [Schedule] → [Schedule setting] when DMS2.5 web page menu screen appears.
- 2 Select the schedule to delete.
- 3 Click [Delete].
 - ◆ Click [OK] in confirm window and selected schedule will be deleted.
 - ◆ Deleting schedule is possible only when the schedule is in stop status. If you want to delete schedule which is currently applied, stop applying the schedule first.

Applying schedule



- 1 Click [Schedule] → [Schedule setting] when DMS2.5 web page menu screen appears.
- 2 Select the schedule you want to use.
- 3 Use schedule functions by clicking [Run] and [Stop].
 - ◆ To apply the selected schedule, click [Run].
 - ◆ To stop the selected schedule, click [Stop].

Note To stop all schedules, click [Stop all].
- Currently applied schedule will be stopped.

Schedule (Continued)

Checking Schedule Control History

2013 2 5 Search

| Schedule name | Occurrence time | Controlling subject | Control type |
|---------------|---------------------|-----------------------|------------------|
| Schedule1 | 2013.02.05 21:10:00 | DMS internal features | Schedule control |

Control device (DVM)
11.00.03(11.00.03), 11.00.02(11.00.02), 11.00.01(11.00.01)
Control device type : DVM
Power : On

* Click the row for detailed information.

- 1 Click [Schedule] → [Checking schedule control history] when DMS2.5 web page menu screen appears.
- 2 Select a date to check and then click [Search].
 - ◆ Only executed schedules can be searched.
- 3 You can check detailed setting by clicking the schedule name.

Note DMS2.5 saves the information or schedule control history for 180 days.
However, it varies depending on saving space of DMS2.5.

EHP Power Consumption Inspection

Checking Inspection Result (with SIM/PIM)

Control and Monitoring | Zone management | Schedule | EHP Power Consumption Inspection | Control logic management | System Settings

Welcome! admin, 16:00:00

Check inspection result

Check inspection result

2013 2 1 ~ 2013 2 4 Search

Power consumption Proportion Individual indoor unit by date

3-2-1 ~ 2013-2-4

| Indoor unit address | Indoor unit name | Used power consumption (kWh) | | | | |
|-------------------------------|------------------|------------------------------|-----|-----|-----|-----|
| | | A | B | C | D | SUM |
| 11.00.01 | 11.00.01 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.00.02 | 11.00.02 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.00.03 | 11.00.03 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.00.04 | 11.00.04 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total power consumption (kWh) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Save as Excel

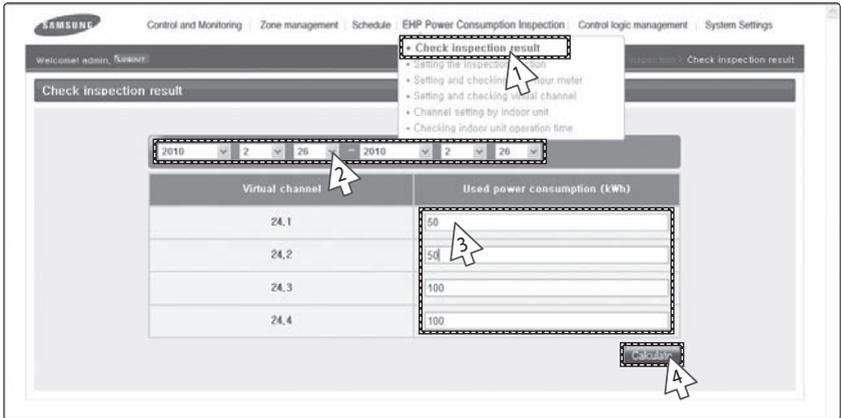
You can check the operation history and power consumption saved in DMS for each indoor unit.

- 1 Click [EHP Power Consumption Inspection] → [Check inspection result] when DMS2.5 web page menu appears.
- 2 Set date and search condition (power consumption/proportion/individual indoor unit by date) when inspection result screen appears.
 - ◆ Select year/month/day in order.
 - ◆ Based on DMS2.5 time, you can check up to 365 days of watt-hour meter value.
- 3 Click [Search].
 - ◆ Inspection result will be displayed depending on set period and searching condition.
 - ◆ You can check power consumption only when watt-hour meter is connected. If watt-hour meter is not connected, you can check operating proportion by indoor unit only.
- 4 Click [Save as Excel].
 - ◆ Searched inspection result will be saved as MS Excel file.

- Note**
- ◆ For data management, it is recommended to save indoor unit inspection result periodically.
 - ◆ Power consumption inspection result is for reference only and should not be used for official financial transactions.

EHP Power Consumption Inspection (Continued)

Checking Inspection Result (without SIM/PIM)



- 1 Click [EHP Power Consumption Inspection] → [Check inspection result] when DMS2.5 web page menu screen appears.
 - ◆ Channel setting by indoor unit must be done in advance.
- 2 Set date when inspection result screen appears.
 - ◆ Select year/month/day in order.
 - ◆ Based on DMS2.5 time, You can check up to 365 days of inspection results.
- 3 Enter power consumption value during the period.
 - ◆ Virtual channel is value which is set in channel setting by indoor unit.
- 4 Click [Calculate].
 - ◆ Power consumption by indoor unit during the period will be displayed.

SAMSUNG Control and Monitoring Zone management Schedule EHP Power Consumption Inspection Control logic management System Settings

Welcome! admin, f60009 EHP Power Consumption Inspection Check inspection result

Check inspection result

Power consumption
 Proportion

2013-2-1~2013-2-4

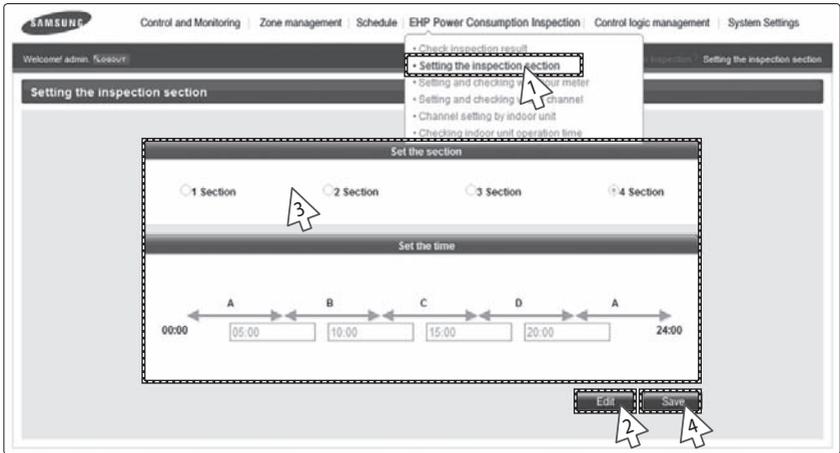
| Indoor unit address | Indoor unit name | Used power consumption (kWh) | | | | |
|-------------------------------|------------------|------------------------------|-----|-----|-----|--------|
| | | A | B | C | D | SUM |
| 11.00.01 | 11.00.01 | 24.991 | 0.0 | 0.0 | 0.0 | 24.991 |
| 11.00.02 | 11.00.02 | 25.026 | 0.0 | 0.0 | 0.0 | 25.026 |
| 11.00.03 | 11.00.03 | 25.009 | 0.0 | 0.0 | 0.0 | 25.009 |
| 11.00.04 | 11.00.04 | 24.974 | 0.0 | 0.0 | 0.0 | 24.974 |
| Total power consumption (kWh) | | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 |

- 5 Check the power consumption result of the selected period.
- ◆ Due to rounding the actual values, actual input value and result value may different to each other.
 - ◆ If you want to save the consumption result for selected period as MS Excel file, click [Save as Excel].
 - ◆ Click [Calculate] to go back to inspection result screen.

- Note**
- ◆ *For data management, it is recommended to save indoor unit inspection result periodically.*
 - ◆ *Power consumption inspection result is for reference only and should not be used for official financial transactions.*

EHP Power Consumption Inspection (Continued)

Setting the Inspection Section



- 1 Click [EHP Power Consumption Inspection] → [Setting the inspection section] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] when inspection result screen appears.
 - ◆ 1 section is set as default.
- 3 Select a section and enter time by section.
 - ◆ You should enter time of section B when selecting 2 sections and enter time of section B and section C when selecting 3 sections and enter time of section B, section C, and section D when selecting 4 sections.
 - ◆ Correct format of time is HH:MM.
Ex) 4:30 in the afternoon → 16:30
- 4 Click [Save].
 - ◆ Set power section will be saved in DMS2.5.
 - ◆ If you do not click [Save], changed setting will not be saved.

Note ◆ *Ex) When selecting 2 sections (A, B, A)
If the border time between A and B is 08:00 and 18:00,
section A is 00:00 ~ 08:00, section B is 08:01 ~ 18:00,
and second section A again is 18:01 ~ 24:00.*

Setting and Checking the meter

The screenshot shows the 'Setting and checking the meter' interface. A table lists meter channels 16.1 to 16.8. Each row has input fields for 'Name' and 'CT proportion'. The 'CT proportion' is set to '1' for all. The 'Meter Type' is 'Electricity' and 'Meter Value' is '1.0' for all. The 'Unit' is 'kWh'. A dashed box highlights the 'Name' and 'CT proportion' columns. A dropdown menu is open, showing 'Setting and Checking the meter' as the selected option. 'Edit' and 'Save' buttons are at the bottom right.

| SIM / PIM Channel | Name | CT proportion | Meter Type | Meter Value | Unit |
|-------------------|------|---------------|-------------|-------------|------|
| 16.1 | 16.1 | 1 | Electricity | 1.0 | kWh |
| 16.2 | 16.2 | 1 | Electricity | 1.0 | kWh |
| 16.3 | 16.3 | 1 | Electricity | 1.0 | kWh |
| 16.4 | 16.4 | 1 | Electricity | 1.0 | kWh |
| 16.5 | 16.5 | 1 | Electricity | 1.0 | kWh |
| 16.6 | 16.6 | 1 | Electricity | 1.0 | kWh |
| 16.7 | 16.7 | 1 | Electricity | 1.0 | kWh |
| 16.8 | 16.8 | 1 | Electricity | 1.0 | kWh |

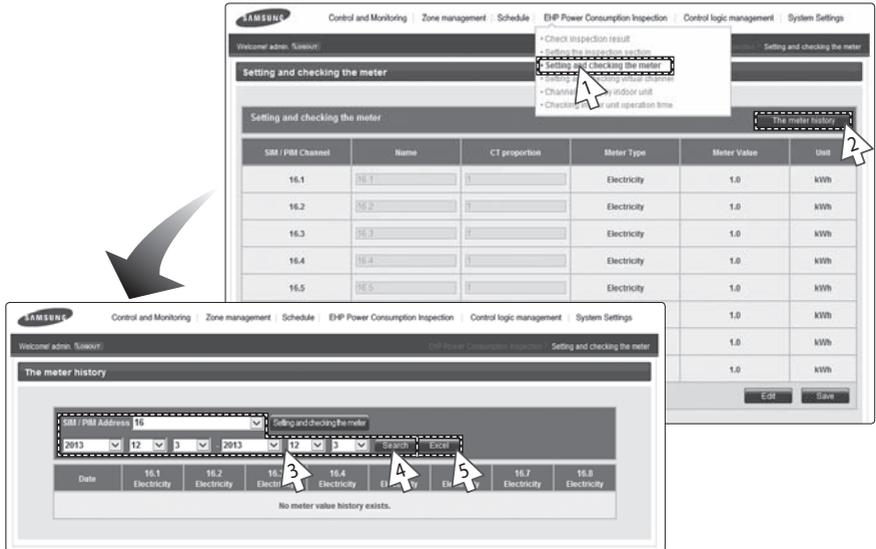
- Click [EHP Power Consumption Inspection] → [Setting and checking the meter] when DMS2.5 web page menu screen appears.
 - ◆ Setting watt-hour meter is possible only when SIM/PIM is installed.
- Click [Edit] when the Setting and checking the meter screen appears.
 - ◆ CT proportion '1' is set as default.
- Set name and CT proportion of watt-hour meter.
 - ◆ You can use maximum 16 letters.
 - ◆ The range of CT proportion value is positive number from 1 to 5000.
 - ◆ CT proportion setting is required only when the meter type is 'electricity'.
- Click [Save].
 - ◆ Set the meter information will be saved in DMS2.5.
 - ◆ If you do not click [Save], changed setting will not be saved.
 - ◆ Watt-hour meter value shows actual value of currently connected watt-hour meter. Watt-hour meter value will be updated automatically.



When using CT watt-hour meter, be careful that there can be difference with actual power consumption as much as CT ratio error.

EHP Power Consumption Inspection (Continued)

The meter history

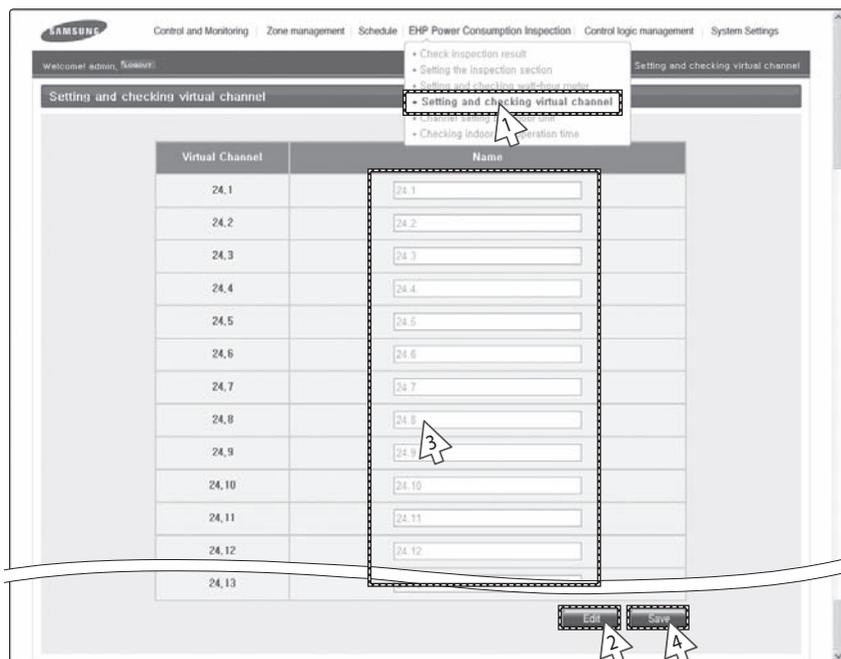


- 1 Click [EHP Power Consumption Inspection] → [Setting and checking the meter] when DMS2.5 web page menu appears.
- 2 Click [The meter history] when the setting and checking the meter screen appears.
- 3 Select SIM/PIM address and date you want when the meter history screen appears.
 - ◆ Enter year/month/day in order.
 - ◆ Based on DMS2.5 time, you can check up to 365 days of meter value history.
- 4 Click [Search].
 - ◆ Meter value history of set period will be displayed.
- 5 Click [Excel].
 - ◆ When you click the [Excel] button, meter value of all SIM/PIM throughout the selected dates will be saved as MS Excel file.



For PIM, channel status should be set as "Enable" in order to save the meter history in Excel file. (Refer to page 159~160)

Setting and Checking Virtual Channel



- 1 Click [EHP Power Consumption Inspection] → [Setting and checking virtual channel] when DMS2.5 web page menu screen appears.

- ◆ Maximum 128 virtual channels can be set.

Virtual channel is written in (24 ~ 31).(1 ~ 16) format address.

Ex) 24.1, 25.2, 31.8

- 2 Click [Edit] when the setting and checking virtual channel screen appears.

- 3 Set the name of virtual channel.

- ◆ You can use maximum 16 letters.

- 4 Click [Save].

- ◆ Set virtual channel name will be saved in DMS2.5.

- ◆ If you do not click [Save], changed setting will not be saved.

EHP Power Consumption Inspection (Continued)

Channel Setting by Indoor Unit

Channel setting by indoor unit

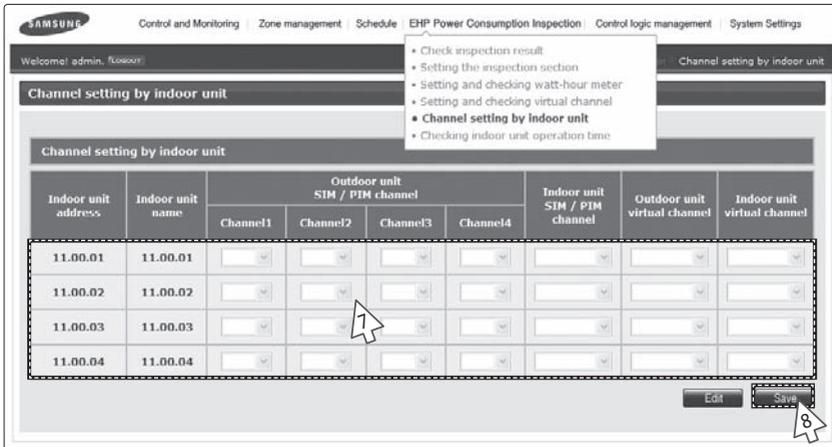
| Indoor unit address | Indoor unit name | Outdoor unit SIM / PIM channel | | | | Indoor unit SIM / PIM channel | Outdoor unit virtual channel | Indoor unit virtual channel |
|---------------------|------------------|--------------------------------|----------|----------|----------|-------------------------------|------------------------------|-----------------------------|
| | | Channel1 | Channel2 | Channel3 | Channel4 | | | |
| 11.00.01 | 11.00.01 | | | | | | | |
| 11.00.02 | 11.00.02 | | | | | | | |
| 11.00.03 | 11.00.03 | | | | | | | |
| 11.00.04 | 11.00.04 | | | | | | | |

Edit Save

- 1 Click [EHP Power Consumption Inspection] → [Channel setting by indoor unit] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] when the setting channel by indoor unit screen appears.



Some functions available on DMS2.5 web page may not be functional at BACnet Gateway and LonWorks Gateway. For detailed function, refer to the installation manual or contact Samsung Electronics.



- 3 Check the address and channel information of SIM/PIM which is connected to watt-hour meter.
 - ◆ If 0~7 SIM/PIM units execute tracking, it will be displayed as 16~23 in DMS2.5.

- 4 Check the information of indoor/outdoor unit which is connected to watt-hour meter.

- 5 Check the SIM/PIM channel(watt-hour meter) information of indoor/outdoor unit.
 - ◆ You can set the channel when SIM/PIM is installed in DMS2.5.
 - ◆ When bringing indoor unit's power from outdoor unit, set the 'Outdoor unit SIM channel' information only. ('Outdoor unit SIM channel' is referring to watt-hour meter which is connected to outdoor unit.)
 - ◆ When bringing indoor unit's power from the other device, not from outdoor unit, set the 'Outdoor unit SIM channel' and 'Indoor unit SIM channel' information. ('Indoor unit SIM channel' is referring to watt-hour meter which is connected to indoor unit.)
 - ◆ Power distribution will be executed automatically. The user does not need to check the value of watt-hour meter.
 - ◆ The maximum number of SIM channels for an outdoor unit is 4.

EHP Power Consumption Inspection (Continued)

- 6 Check the virtual channel information of indoor/outdoor unit.
 - ◆ To execute power distribution without SIM/PIM, you should set virtual channel.
 - ◆ When bringing indoor unit's power from outdoor unit, set the 'Outdoor unit virtual channel' information only.
('Outdoor unit virtual channel' is referring to watt-hour meter which is connected to outdoor unit.)
 - ◆ When bringing indoor unit's power from the other device, not from outdoor unit, set the 'Outdoor unit virtual channel' and 'Indoor unit virtual channel' information.
('Indoor unit virtual channel' is referring to watt-hour meter which is connected to indoor unit.)
 - ◆ The number of virtual channel varies depending on the number of outdoor unit
 - ◆ To execute power distribution, you need to check watt-hour meter value manually.
 - ◆ Power distribution using SIM/PIM is more accurate than using indoor/outdoor unit virtual channel. Therefore, it is recommended to execute power distribution using SIM/PIM.
- 7 Set indoor unit to execute power distribution.
 - ◆ If you do not set the watt-hour meter information, the power distribution result of the indoor unit will be displayed as '0'.
- 8 Click [Save].
 - ◆ Set channel information will be saved in DMS2.5.
 - ◆ If you do not click [Save], changed setting will not be saved.



CAUTION

- ◆ **Information of watt-hour meter connected to indoor/outdoor unit should be accurate. If the watt-hour meter information is not accurate when you set channel information of indoor unit, error may occur in the power distribution result.**
- ◆ **You should set SIM/PIM channel information in the indoor unit if you want to execute power distribution using SIM/PIM. If not, it means that you do not execute power distribution. In this case, the power distribution result of the indoor unit will be '0'.**
- ◆ **If the information of watt-hour meter connected to indoor/outdoor unit is changed, consult with installation engineer.**
- ◆ **DMS2.5 executes power distribution based on set information.**
- ◆ **Virtual channel is not available when you use BACnet or LonWorks Gateway function.**
- ◆ **DVM CHILLER and FCU Kit are excluded for power distribution devices.**

Checking Indoor Unit Operation Time

Control and Monitoring | Zone management | Schedule | EHP Power Consumption Inspection | Control logic management | System Settings

Welcome! admin. | 11.00.01 | Checking indoor unit operation time

Checking indoor unit operation time

2013 2 1 2013 2 5 Search

All Indoor units by period Individual Indoor unit by date

2013-2-1 ~ 2013-2-5

| Indoor unit address | Indoor unit name | Operation time (min) | | | | | Thermo on time (min) | | | | |
|---------------------|------------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|
| | | A | B | C | D | SUM | A | B | C | D | SUM |
| 11.00.01 | 11.00.01 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 11.00.02 | 11.00.02 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 11.00.03 | 11.00.03 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 11.00.04 | 11.00.04 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

Save as Excel

- 1 Click [EHP Power Consumption Inspection] → [Checking indoor unit operation time] when DMS2.5 web page menu screen appears.
- 2 Select search condition (All indoor units by period/Individual indoor unit by date) when Checking indoor unit operating time screen appears.
 - ◆ Select year/month/day in order.
 - ◆ Based on DMS2.5 time, you can check up to 365 days of operation time.
- 3 Click [Search].
 - ◆ Operation time will be displayed depending on set period and condition.
- 4 Click [Save as Excel].
 - ◆ Searched operation time result will be saved as MS Excel file.

Note For data management, it is recommended to save indoor unit operation time result periodically.

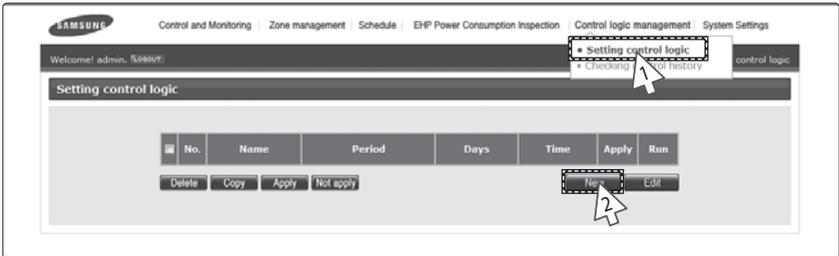
Control Logic Management

Setting Control Logic

- Control logic is used in the following situations.

Ex) The current temperature of the lab is higher than 29°C and you want cooling operation,
The current temperature of the office is lower than 10°C and you want heating operation

- Period, day and time are included in specific conditions.



You can set, edit, delete and use control logic for controlling device which is connected to DMS2.5.

- 1 Click [Control logic management] → [Setting control logic] when DMS2.5 web page menu screen appears.

- ◆ Apply: Indicates control logic usage status.
- ◆ Run: Indicates If the control logic is applied and whether the operation conditions are met.

Ex) If there is logic which says 'If the current temperature of indoor unit is higher than 29°C, control indoor unit as cool mode.', 'Yes' will be displayed when the indoor unit's current temperature is higher than 29°C. 'No' will be displayed when the indoor unit's current temperature is lower than 29°C.

- 2 Click [New] when setting control logic screen appears.

- ◆ Setting screen is composed of 4 categories.
 - Name & time: Set the name and time(period, days, time) to apply of control logic.
 - Factor edit: You can edit factor selection which is components of input/output.
 - Input: Set the condition which makes control logic perform.
 - Output: Set items to be controlled when the conditions of input are met.

- Note*
- ◆ If different value is set for same control item of same address' device, the indoor unit follows the first control logic set among running control logics.
 - ◆ It is not available to provide the control logic management information to BMS system.

SAMSUNG Control and Monitoring | Zone management | Schedule | EHP Power Consumption Inspection | Control logic management | System Settings

Winhome admin | Logout | Control logic management | Setting control logic

Setting control logic

| | | | | | | | | |
|--------|--|---|---|----|------|---|---|-----------------------------------|
| Name | Control logic | | | | | | | |
| Period | 2016 | 9 | 7 | - | 2017 | 9 | 7 | <input type="checkbox"/> No limit |
| Day | <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat <input checked="" type="checkbox"/> Daily | | | | | | | |
| Time | 0 | 0 | - | 24 | 0 | | | |

Input

| Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|------------------------------|-----------------|---------------------|---|---|
| <input type="checkbox"/> | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |

Output

| Factor | Command |
|-----------------|---|
| Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |

3 Enter control logic name in the name field when the new control logic setting screen appears.

- ◆ You can use maximum 16 letters.

4 Set period, day and time in control logic screen.

- ◆ Select year/month/day in order.
- ◆ Select a day to run during the control period.
- ◆ Control logic will be applied only when period, day and time are united.
- ◆ If you select 'Daily' in day selection, control logic will run regardless of day.

Control Logic Management (Continued)

SAMSUNG Control and Monitoring | Zone management | Schedule | EHP Power Consumption Inspection | Control logic management | System Settings

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Setting control logic

Name:

Period: 2016 9 7 - 2017 9 7 No limit

Day: Sun Mon Tue Wed Thu Fri Sat Daily

Time: 0 : 0 - 24 : 0

Factor unit: **Single** Arithmetic Function

Device:

Device selection

* Click 'Select' button : a pop-up window appears and you can select a device. Select a device to check the settings.

Input

| Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|------------------------------|--|-------------------------------------|---|---|
| <input type="checkbox"/> | <input type="text" value="Select a factor"/> | <input "="" type="text" value="="/> | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | <input type="text" value="Select a factor"/> | <input "="" type="text" value="="/> | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | <input type="text" value="Select a factor"/> | <input "="" type="text" value="="/> | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |

5 Select a factor in the input list.

- ◆ Factor means the target to be controlled or standard item of logic decision.

6 Select the type of factor.

- ◆ Single: It means 1 device.
Ex) Desired temperature of indoor unit
- ◆ Arithmetic: It means 2 devices are connected by arithmetic operator.
Ex) Desired temperature of indoor unit 1 – Desired temperature of indoor unit 2

Factor unit: Arithmetic

Arithmetic operator:

Device 1:

Device 2:

* Click 'Select' button : a pop-up window appears and you can select a device. Select a device to check the settings.

- ◆ Function: It means several devices are using as value of function.
Ex) Average(Current temperature of Indoor unit 1, Current temperature of Indoor unit 2, Current temperature of Indoor unit 3)

Factor unit: Function

Function:

Device 1:

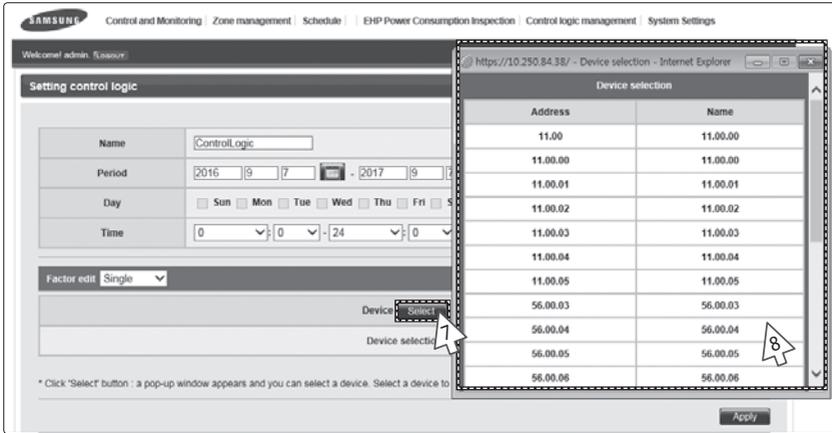
Device 2:

Device 3:

Device 4:

Device 5:

* Click 'Select' button : a pop-up window appears and you can select a device. Select a device to check the settings.



7 Click 'Select'.

- ◆ List of device which you can select will be displayed.

8 Select the device to use as factor.

- ◆ Control and monitoring items will be displayed depending on selected device.
- ◆ Control and monitoring items are as follows.

| Type | Item | Value | Remarks | |
|----------------------|--------------------------------------|--|---|--------------------|
| Outdoor unit | Current electric control option | 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100% | Control impossible | |
| | Current heating capacity calibration | 25kg/cm ² , 26kg/cm ² , 27kg/cm ² , 28kg/cm ² , 29kg/cm ² , 30kg/cm ² , 31kg/cm ² , 32kg/cm ² , 33kg/cm ² | Control impossible | |
| | | Current cooling capacity calibration | 5~7°C(41~45°F), 7~9°C(45~48°F), 9~11°C(48~52°F), 10~12°C(50~54°F), 11~13°C(52~55°F) | Control impossible |
| | | Electric control option | 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100% | Control impossible |
| | Heating capacity calibration | 25kg/cm ² , 26kg/cm ² , 27kg/cm ² , 28kg/cm ² , 29kg/cm ² , 30kg/cm ² , 31kg/cm ² , 32kg/cm ² , 33kg/cm ² | Control impossible | |
| | | Cooling capacity calibration | 5~7°C(41~45°F), 7~9°C(45~48°F), 9~11°C(48~52°F), 10~12°C(50~54°F), 11~13°C(52~55°F) | Control impossible |
| | Error detection | True, False | Control impossible | |
| | Limit operation mode | None, Cool only, Heat only | - | |
| | Indoor unit | Power | On, Off | - |
| | | Current temp. | Number | Control impossible |
| Desired temp. | | Number | - | |
| Outdoor temp. | | Number | Control impossible | |
| Operation mode | | Auto, Cool, Dry, Fan, Heat | - | |
| Fan speed | | Auto, Low, Mid, High | Turbo is available when the device supports the Turbo fan speed. | |
| Air direction | | Vertical, Horizontal, All, None | - | |
| RC usage | | Enable RC, Disable RC, Cond. RC | - | |
| Error detection | | True, False | Control impossible | |
| Limit operation mode | | None, Cool only, Heat only | - | |
| ERV | Power | On, Off | - | |
| | Operation mode | Auto, HeatEx, Bypass, Sleep | - | |
| | Fan speed | Low, High, Turbo | - | |
| | RC usage | Enable RC, Disable RC, Cond. RC | - | |
| | Error detection | True, False | Control impossible | |
| | Limit operation mode | None, Cool only, Heat only | - | |
| | Power | On, Off | - | |
| | Outdoor temp. | Number | Control impossible | |
| | ERV fan speed | Auto, HeatEx, Bypass, Sleep | - | |
| | ERV operation mode | Auto, Cool, Heat, Off | - | |
| ERV PLUS | RC usage | Enable RC, Disable RC, Cond. RC | - | |
| | Error detection | True, False | Control impossible | |
| | Limit operation mode | None, Cool only, Heat only | - | |

| Type | Item | Value | Remarks |
|---------------------------------------|---------------------------------|---------------------------------|------------------------------------|
| Fresh duct | Power | On, Off | - |
| | Operation mode | Auto, Cool, Fan, Heat | - |
| | QA intake temp. | Number | Control impossible |
| | Outdoor temperature | Number | Control impossible |
| | Cool discharge temp. | Number | - |
| | Heat discharge temp. | Number | - |
| | RC usage | Enable RC, Disable RC, Cond. RC | - |
| | Power | On, Off | - |
| | Error detection | True, False | Control impossible |
| | Limit operation mode | None, Cool only, Heat only | - |
| AHU | Current temp. | Number | Control impossible |
| | Desired temp. | Number | - |
| | Outdoor temp. | Number | Control impossible |
| | Operation mode | Auto, Cool, Dry, Fan, Heat | - |
| | RC usage | Enable RC, Disable RC, Cond. RC | - |
| | Power | On, Off | - |
| Error detection | True, False | Control impossible | |
| Limit operation mode | None, Cool only, Heat only | - | |
| DI | Status | On, Off | Control impossible |
| | Error detection | True, False | Control impossible |
| | Limit operation mode | None, Cool only, Heat only | - |
| DO | Status | On, Off | - |
| | Error detection | True, False | Control impossible |
| | Limit operation mode | None, Cool only, Heat only | - |
| | Status | On, Off | Control impossible |
| Hydro Unit, Hydro Unit HT, Single EHS | Status | On, Off | - |
| | Power | On, Off | - |
| | Current temp. | Number | Control impossible |
| | Desired temp. | Number | - |
| | Current water out temp. | Number | Control impossible |
| | Desired water out temp. | Number | - |
| | Outdoor temp. | Number | Control impossible |
| | Operation mode | Auto, Cool, Heat | Hydro unit HT cannot set Cool mode |
| | DHW power | On, Off | Control impossible |
| | Current DHW temp. | Number | Control impossible |
| Desired water out temp. | Number | - | |
| DHW mode | Eco, Standard, Power, Force | Force is only for Single EHS | |
| RC usage | Enable RC, Disable RC, Cond. RC | - | |
| Error detection | True, False | Control impossible | |
| Limit operation mode | None, Cool only, Heat only | - | |

Control Logic Management (Continued)

| Type | Item | Value | Remarks |
|----------------|-----------------|-------------------------------------|--------------------|
| DVM CHILLER | Power | On, Off | - |
| | Current temp. | Number | Control impossible |
| | Desired temp. | Number | - |
| | Outdoor temp. | Number | Control impossible |
| | Operation mode | Cool, Cool Storage, Heat, Hot Water | - |
| | RC usage | Enable RC, Disable RC, Cond. RC | - |
| | Error detection | True, False | Control impossible |

| Type | Item | Value | Remarks |
|---------|----------------------|---------------------------------|--------------------|
| FCU Kit | Power | On, Off | - |
| | Current temp. | Number | Control impossible |
| | Desired temp. | Number | - |
| | Operation mode | Auto, Cool, Fan, Heat | - |
| | Fan speed | Auto, Low, Mid, High | - |
| | RC usage | Enable RC, Disable RC, Cond. RC | - |
| | Error detection | True, False | Control impossible |
| | Limit operation mode | None, Cool only, Heat only | - |

Setting control logic

Name: Control Logic

Period: 2016 9 7 - 2017 9 7 No limit

Day: Sun Mon Tue Wed Thu Fri Sat Daily

Time: 0 : 0 - 24 : 0

Factor edit: Single

Device: Select

11.00.00

* Click 'Select' button : a pop-up window appears and you can select a device.

| Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|------------------------------|-----------------|---------------------|---|---|
| <input type="checkbox"/> | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |

9 Select detailed item of factor.

- ◆ Detailed item may be different depending on the type of selected device.

10 Click [Apply].

- ◆ If you do not click [Apply], changed setting will not be saved.

11 Select comparison operator.

- ◆ Types of comparison operators: =, = <, = >, <, >, ≠
- ◆ Comparison operator compares factor to standard factor.

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Welcome! admin (Logout) | Control logic management | Setting control logic

Setting control logic

| | | | |
|--------|--|---|--------------|
| Name | Controllogic | | |
| Period | 2016 9 7 | - | 2017 9 7 |
| Day | <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat <input checked="" type="checkbox"/> Daily | | |
| Time | 0 | : | 0 |
| | - | : | 24 |
| | : | : | 0 |

| Input | Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|--------------------------|-----------------|-----------------|---------------------|---|--|
| <input type="checkbox"/> | | 11.00.00.Power | = | <input checked="" type="radio"/> On <input type="radio"/> Select a factor | <input type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> | AND | Select a factor | = | <input type="radio"/> None <input type="radio"/> Select a factor | <input type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> | AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input type="radio"/> Cancel <input type="radio"/> Apply 1 |

Add Delete

| Output | Factor | Command |
|--------------------------|-----------------|---|
| <input type="checkbox"/> | Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| <input type="checkbox"/> | Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| <input type="checkbox"/> | Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |

Add Delete

*** Setting Guide:** In the initial setting, click 'Select a factor' and a factor editing window appears. Then click 'Select' button to set the device. After setting the device, the information in the 'Select a factor' is updated to the setting. Select the information to modify it.

Save

12 Select standard value.

- ◆ Select detailed item value of selected factor or factor.
- ◆ The item varies depending on the left factor when selecting detailed item value from standard value.
 - Ex1) Factor : Current temperature of indoor unit 1,
Value of standard value : Enter 29
 - Ex2) Factor : Remote controller usage of indoor unit 1,
Value of standard value : Select one among Enable RC, Disable RC and Cond. RC.
- ◆ When selecting factor from standard value, it must be same with control item of left factor.
 - Ex1) Factor : Power of indoor unit 1,
Factor of standard value : Power of indoor unit 2
 - Ex2) Factor : Current temperature of indoor unit 1,
Factor of standard value : Average current temperature of indoor unit 1 and 2

13 Select duration time usage.

- ◆ Duration time means the time which the comparing conditions satisfy 'True'.
- ◆ The duration time can be set from 1 to 60.
- ◆ If you select duration time apply, the comparing condition will be 'True'.
To execute, maintain 'True' for duration time.

Note

- ◆ Only 1 duration time can be set per control logic.
- ◆ The tolerance range of duration time is maximum 1 minute. If you set the duration time as 2 minutes, operation will be started between 2 and 3 minutes.

Control Logic Management (Continued)

Factor edit Single

Device Select

Device selection

* Click 'Select' button : a pop-up window appears and you can select a device. Select a device to check the settings.

Apply

| Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|--------------------------|-----------------|---------------------|---|---|
| <input type="checkbox"/> | 11.00.00.Power | = | <input checked="" type="radio"/> On <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |

Add Delete

| Factor | Command |
|-----------------|---|
| Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |

Add Delete

Save

* Setting Guide: In the initial setting, click 'Select a factor' and a factor editing window appears. Then click 'Select' button to set the device. After setting the device, the information in the 'Select a factor' is updated to the setting. Select the information to modify it.

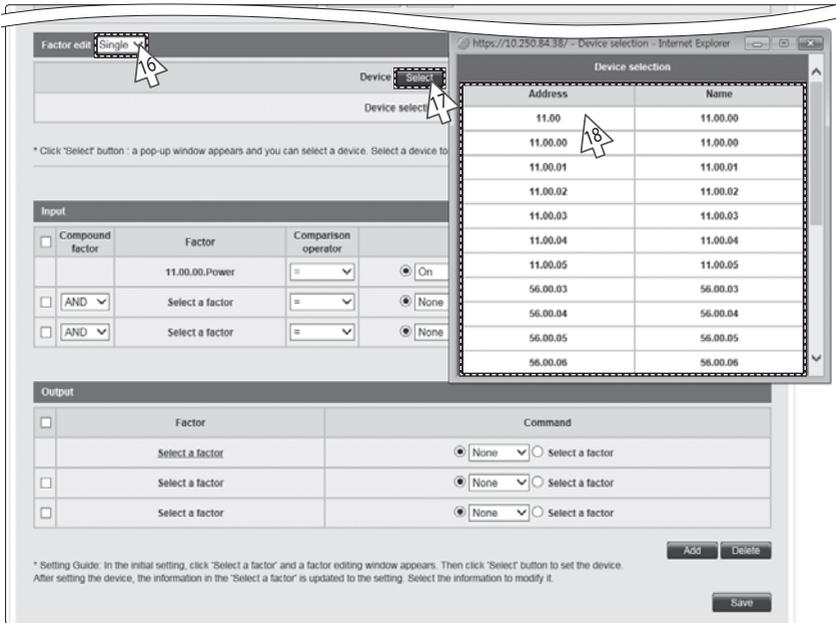
14 Select compound factor setting usage.

- ◆ You can use compound factor setting when you give conditions to 2 and 3 input items.
- ◆ You can select 1 compound factor from 'AND' and 'OR'.
- ◆ Select 'AND' if all the input items each should be 'True'.
- ◆ Select 'OR' if just 1 input item needs to be 'True'.
- ◆ Compound factor has priorities in order.

For example, if you set 'OR', 'AND' in order, it means '(input item 1 OR input item 2) AND input item 3'.

After selecting the compound factor, you must tick the check box on the left side.

15 Select 'Select a factor' in the Output list.



16 Select type of factor.

- ◆ Single factor can be set for the left factor of output.
- Single factor: It means 1 device.
- Ex) Desired temperature of indoor unit

17 Click 'Select'.

- ◆ List of device which can be selected will be displayed.

18 Select the device to use as factor.

Control Logic Management (Continued)

Factor edit Single

Device Select

11.00.01 Power

* Click 'Select' button - a pop-up window appears and you can select a device. Select a device to check the settings.

Apply

Input

| <input type="checkbox"/> Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|--|-----------------|---------------------|---|---|
| <input type="checkbox"/> | 11.00.00.Power | = | <input checked="" type="radio"/> On <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |

Add Delete

Output

| <input type="checkbox"/> | Factor | Command |
|--------------------------|-----------------|---|
| <input type="checkbox"/> | Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| <input type="checkbox"/> | Select a factor | <input type="radio"/> None <input checked="" type="radio"/> Select a factor |
| <input type="checkbox"/> | Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |

* Setting Guide: In the initial setting, click 'Select a factor' and a factor editing window appears. Then click 'Select' button to set the device. After setting the device, the information in the 'Select a factor' is updated to the setting. Select the information to modify it.

Add Delete

Save

19 Select detailed item of factor.

- ◆ Detailed item may be different depending on the type of selected device.

20 Click [Apply].

- ◆ If you do not click [Apply], changed setting will not be saved.

21 Select command value.

- ◆ The value may vary depending on the detailed item of selected factor.
- ◆ You can select value of selected item or new factor.
- ◆ You can set single factor, arithmetic factor and function factor.

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Welcome admin | Logout | Control logic management | Setting control logic

Setting control logic

Name:

Period: 2016 | 9 | 7 | - 2017 | 9 | 7 | No limit

Day: Sun Mon Tue Wed Thu Fri Sat Daily

Time: 0 | 0 | 24 | 0

| Compound factor | Factor | Comparison operator | Standard value | Duration (minute) |
|------------------------------|-----------------|---------------------|---|---|
| <input type="checkbox"/> | 11.00.Power | = | <input checked="" type="radio"/> On <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |
| <input type="checkbox"/> AND | Select a factor | = | <input checked="" type="radio"/> None <input type="radio"/> Select a factor | <input checked="" type="radio"/> Cancel <input type="radio"/> Apply 1 |

| Factor | Command |
|--|---|
| <input type="checkbox"/> 11.00.01.Power | <input checked="" type="radio"/> On <input type="radio"/> Select a factor |
| <input type="checkbox"/> Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |
| <input type="checkbox"/> Select a factor | <input checked="" type="radio"/> None <input type="radio"/> Select a factor |

* Setting Guide: In the initial setting, click "Select a factor" and a factor editing window appears. Then click "Select" button to set the device. After setting the device, the information in the "Select a factor" is updated to the setting. Select the information to modify it.

22 To add output, click [Add].

After adding the output, you must tick the check box.

- ◆ If you want to delete output which you don't use anymore, select it and then click [Delete].

23 Click [Save].

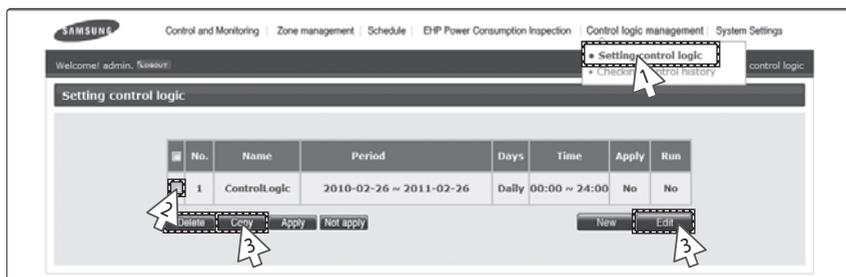
- ◆ Set control logic will be saved in DMS2.5.
- ◆ If you do not click [Save], changed setting will not be saved.

Note

- ◆ Control logic input items consist of factor, comparison operator, standard value and duration time.
- ◆ You can enter up to 3 input items of control logic, and the items can be connected with compound factor.
- ◆ Output item of control logic consists of factor and command value.
- ◆ You can enter up to 20 output items of control logic.
- ◆ You can create up to 256 control logics.

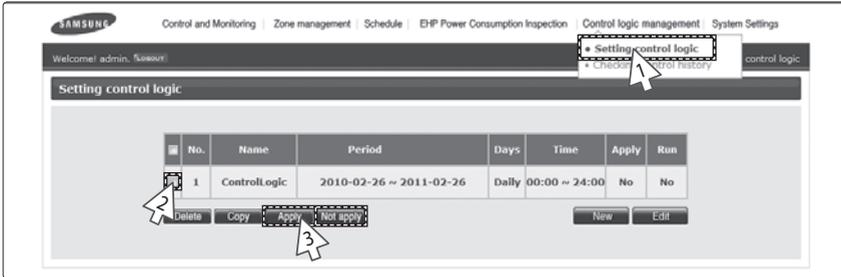
Control Logic Management (Continued)

Editing/Deleting/Copying Control Logic



- 1 Click [Control logic management] → [Setting control logic] when DMS2.5 web page menu screen appears.
- 2 Select control logic when control logic screen appears.
- 3 Click [Edit]/[Delete]/[Copy].
 - ◆ To edit control logic, refer to 'Setting control logic' steps. (Refer to page 96~105)
 - ◆ Click [Delete] to delete the selected control logic.
 - ◆ Click [Copy] to copy the selected control logic.

Enable/Disable Control Logic



1 Click [Control logic management] → [Setting control logic] when DMS2.5 web page menu screen appears.

2 Select control logic when control logic screen appears.

3 Click [Apply]/[Not apply].

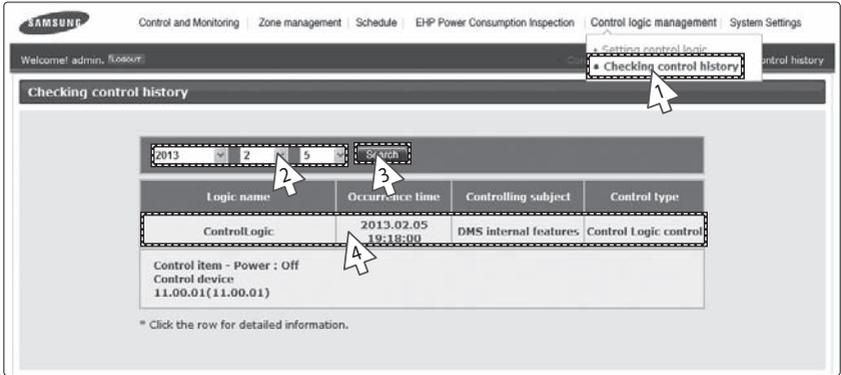
- ◆ The selected control logic will be applied by clicking [Apply].
- ◆ The selected control logic will not be applied by clicking [Not apply].

Note

- ◆ When the selected device is Hydro unit, Hydro unit HT or Single EHS and Thermostat #1 or Thermostat #2 is ON, the control logic of the desired temperature, water out temperature and operation mode cannot be controlled.
- ◆ When the selected device is Single EHS and the hot water thermostat is ON, the control logic of the desired temperature for hot water cannot be controlled.

Control Logic Management (Continued)

Checking Control History



- 1 Click [Control logic management] → [Checking control history] when DMS2.5 web page menu screen appears.
- 2 Select the date you want when the control logic screen appears.
 - ◆ Select Year/Month/Day in order.
 - ◆ Based on DMS2.5 time, you can check of maximum 180 days of previous control history.
- 3 Click [Search].
 - ◆ You can check only in daily unit.
- 4 Select each items to check detailed contents of control history.

Note DMS2.5 saves the information of control logic management control history for 180 days. However, it varies depending on saving space of DMS2.5.

System Settings

Adding a User



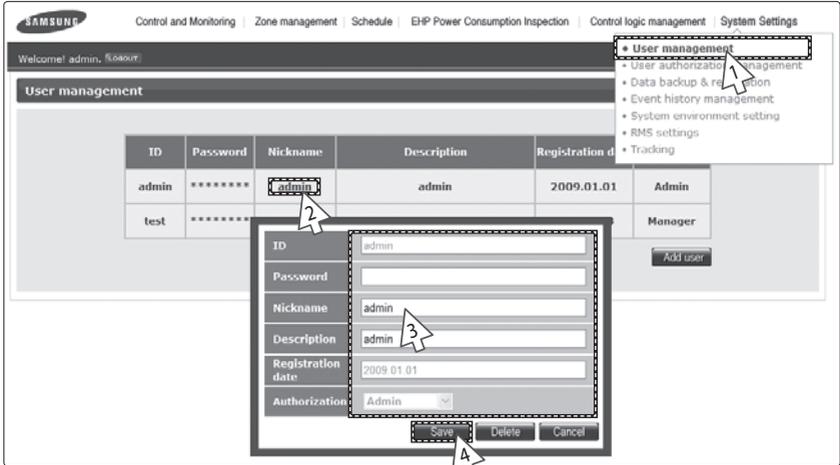
You can add, edit and delete the user of DMS2.5.

- 1 Click [System Settings] → [User management] when DMS2.5 web page menu screen appears.
- 2 Click [Add user] when user management screen appears.
 - ◆ User information input window will be appeared when pressing [Add user].
- 3 Enter ID, password, Nickname and description for new user and then select authority.
 - ◆ The user ID should be between 4~12 letters and English lower case letters and numbers only can be used. (English capital letter and special symbols including space cannot be used for user ID.)
 - ◆ The password should be between 8~12 letters and English capital/lower case letters, and numbers only can be used, without any spaces. In addition, the password should contain both English letters and numbers.
 - ◆ Name should be within 20 letters, and description should be in 50 letters.
 - ◆ Registration date will be input automatically as system date.
 - ◆ Select authorization for the user from 'Admin', 'Manager' and 'Regular user'.
Admin has all authorization and 'Manager'/'Regular user' has limited authorization.
- 4 Click [Save].
 - ◆ Maximum of 256 users can be registered.
 - ◆ User information will be saved in DMS2.5.

- Note**
- ◆ For security and maintenance, you should change the password of the admin account that is issued by the factory for shipping purposes.
 - ◆ Administrator(Admin) can change all setting of indoor/outdoor unit.
 - ◆ Administrator(Admin) can check all indoor/outdoor units connected to DMS2.5.
 - ◆ Administrator(Admin) can edit zone information and assign the zone information to manager.
 - ◆ A manager can check and control indoor/outdoor units which belong to assigned zones only.

System Settings (Continued)

Editing a User



1 Click [System Settings] → [User management] when DMS2.5 web page menu screen appears.

2 Click the Nickname to edit when user management screen appears.

- ◆ User information window will be displayed.

3 Edit user information when the user information window appears.

- ◆ You cannot change user ID.
- ◆ The password should be between 8~12 letters and English capital/lower case letters, and numbers only can be used, without any spaces. In addition, the password should contain both English letters and numbers.
- ◆ Nickname should be within 20 letters, and description should be in 50 letters.
- ◆ Registration date is input automatically as system date. Therefore you cannot edit registration date.
- ◆ Select authorization for the user from 'Admin', 'Manager' and 'Regular user'. Admin has all rights and 'Manager'/'Regular user' has some rights.

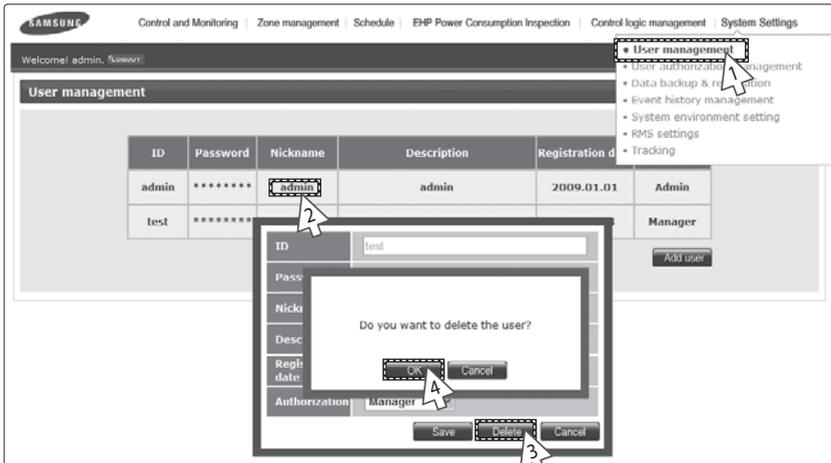
4 Click [Save].

- ◆ Modified user information will be saved in DMS2.5.

Note

- ◆ User information can be changed only with the admin account.
- ◆ Authorization of admin account cannot be modified.
- ◆ Administrator(Admin) can change all setting of indoor/outdoor unit.
- ◆ Administrator(Admin) can check all indoor/outdoor units connected to DMS2.5.
- ◆ Administrator(Admin) can edit zone information and assign the zone information to manager.
- ◆ A manager can check and control indoor/outdoor units which belong to assigned zones only.

Deleting a User

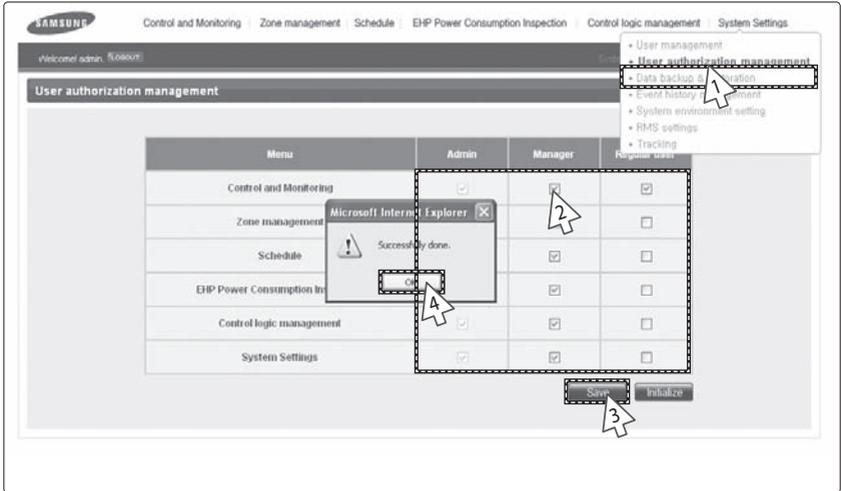


- 1 Click [System Settings] → [User management] when DMS2.5 web page menu screen appears.
- 2 Click the Nickname to delete when user management screen appears.
 - ◆ User information window will be displayed.
- 3 Click [Delete] when the user delete window appears.
 - ◆ Confirm window will pop up saying, "Do you want to delete the user?"
- 4 Click [OK].
 - ◆ Selected user information will be deleted in DMS2.5.

Note Admin account cannot be deleted.

System Settings (Continued)

Editing User Authorization

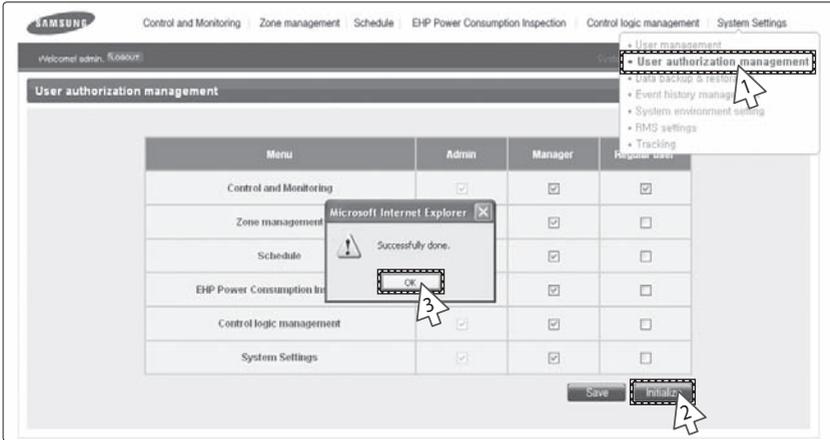


- 1 Click [System Settings] → [User authorization management] when DMS2.5 web page menu screen appears.
- 2 Select/Deselect accessible menu by authorization when the user authorization management screen appears.
- 3 Click [Save] after setting is completed.
- 4 Click [OK] when "Successfully done." message appears.
 - ◆ Changed user authorization information will be saved in DMS2.5 by clicking [OK].

Note

- ◆ **Administrator(Admin authorization) is allowed to access to all menus.**
- ◆ **You cannot edit authorization (menu access) of administrator(Admin).**

Initializing a User Authorization

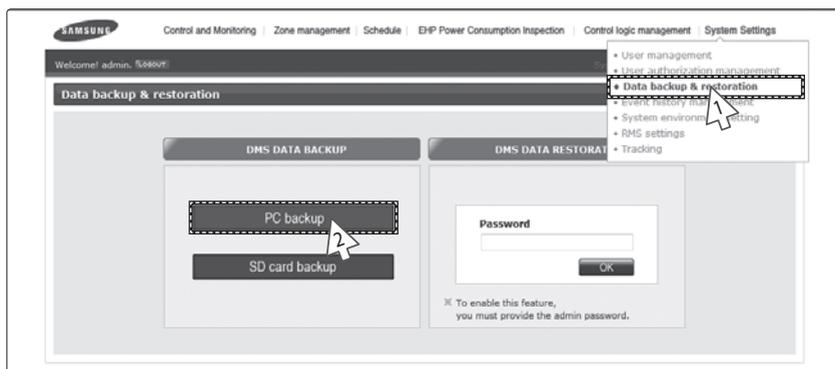


- 1 Click [System Settings] → [User authorization management] when DMS2.5 web page menu screen appears.
- 2 Click [Initialize] when user management screen appears.
- 3 Click [OK] when “Successfully done.” message appears.
 - ◆ User authorization information saved in DMS2.5 will be initialized by clicking [OK].

Note You can restore user authorization information as factory setting by using initialization function.

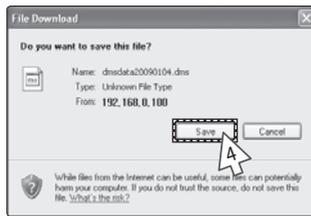
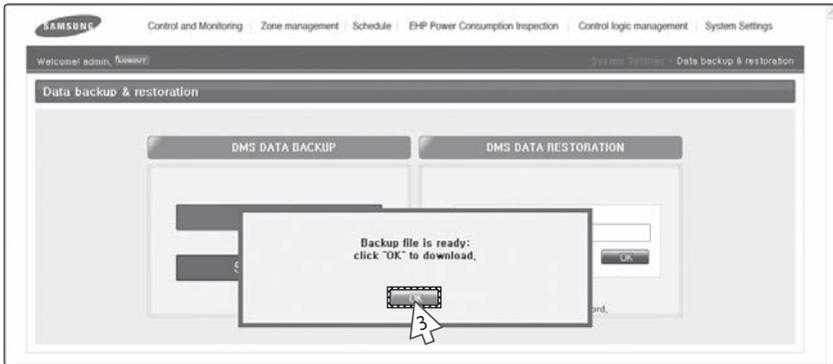
System Settings (Continued)

DMS2.5 Data Backup – PC Backup



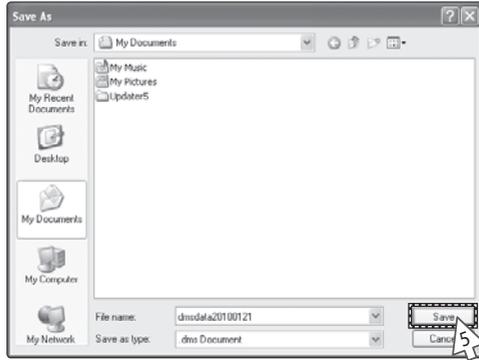
You can back up DMS2.5 data to PC or SD card.

- 1 Click [System Settings] → [Data backup & restoration] when DMS2.5 web page menu screen appears.
- 2 Click [PC backup] when DMS2.5 data backup & restoration screen appears.
 - ◆ "Reading data from DMS2.5. Please wait." message will appear.
 - ◆ Depending on the size of the data, backup time may vary. It will usually take few seconds.



-
- 3** Click [OK] when "Backup file is ready. Click "OK" to download." message appears.
-
- 4** Click [Save] when "File download" window appears.
-

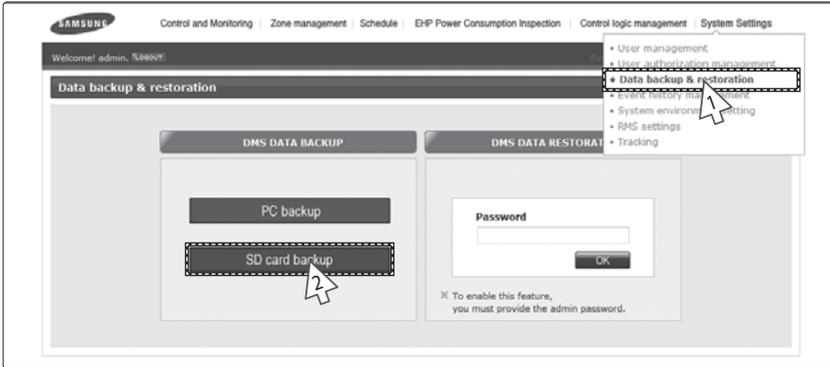
System Settings (Continued)



- 5 When "Save as" window appears, select saving location and file name and then click [Save].
 - ◆ Backup file will be saved as the name you made in the location you select by clicking [Save].
 - ◆ Basic backup file name is "DMS2.5dataYYYYMMDD.dms". (YYYY: year, MM : month, DD : day)
 - ◆ The extension of the backup data files is ". dms".
 - ◆ If you want to edit the file name, use English alphabets or numbers only.
 - ◆ File name should be less than 32 letters. If the file name exceeds 32 letters, proper restoration may not be possible.
- 6 Click [Close] after completing the download.

Note *Backup data includes DB data, setting data, data related indoor/outdoor unit control and various kinds of history data. They will be backed up in single unified file.*

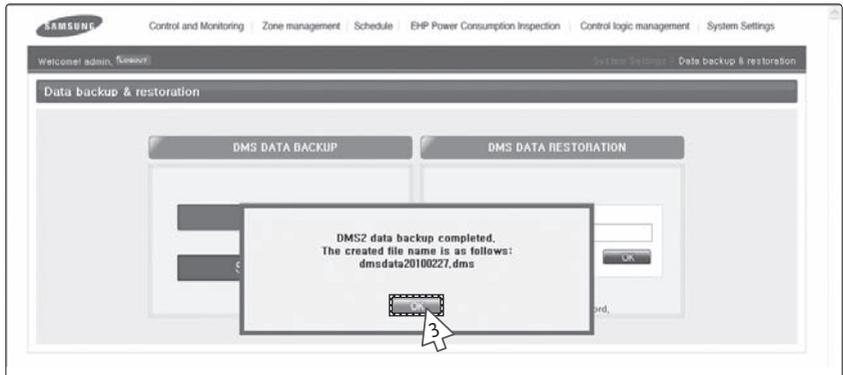
DMS2.5 Data Backup – SD card backup



You can back up DMS2.5 data to PC or SD card.

- 1 Click [System Settings] → [Data backup & restoration] when DMS2.5 web page menu screen appears.
- 2 Click [SD card backup] when DMS2.5 data backup & restoration screen appears.
 - ◆ "Reading data from DMS2.5. Please wait." message will be displayed.
 - ◆ Depending on the size of the data, backup time may vary. It will usually take few seconds.

System Settings (Continued)



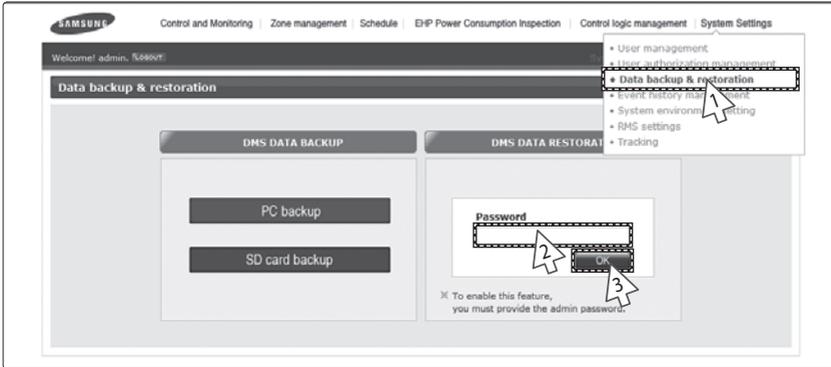
- 3 Click [OK] when "DMS2.5 data backup completed. The created file name is as follows: DMS2.5dataYYYYMMDD.dms" message appears.
 - ◆ The file name of backup file is "DMS2.5dataYYYYMMDD.dms" and it does not exceed maximum 15 letters. (YYYY: year, MM: month, DD: day)
 - ◆ Backup files recorded on the same date are numbered in order of 001, 002.
 - ◆ The extension of the backup data files is ". dms".
 - ◆ If "Backup failed." message appears, click [OK] . Then check if the SD card is inserted or forbidden for writing.

Note Backup data includes DB data, setting data, data related indoor/outdoor unit control and various kinds of history data. They will be backed up in single unified file.



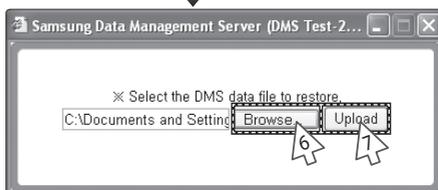
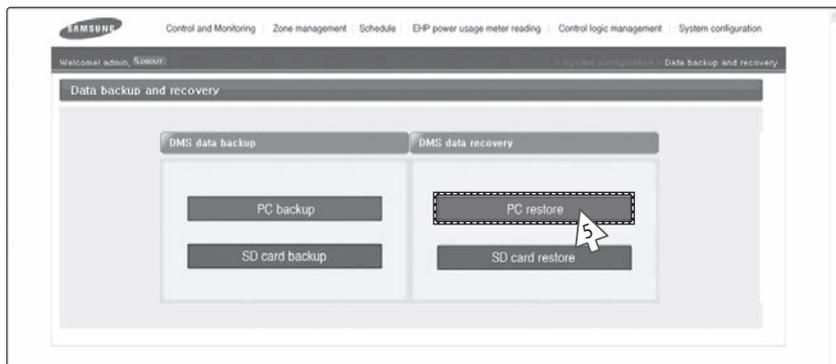
- ◆ To use SD backup and restoration function properly, SD card which is formatted in VFAT file system is required.
- ◆ If SD card is already inserted, automatic backup function will be operated and everyday data will be backed up in SD card.
- ◆ If available space of SD card is smaller than 100Mbytes, deleting oldest DMS2.5 backup file process will be operated first and then auto backup function will be operated.

DMS2.5 Data Restoration - PC Restore



- 1 Click [System Settings] → [Data backup & restoration] when DMS2.5 web page menu screen appears.
- 2 Enter the password of Admin account when DMS2.5 data backup and restoration screen appears.
 - ◆ Data restoration function deals with the important data of the system.
To activate the function, you should enter administrator's password.
- 3 Click [OK].
- 4 Click [OK] when caution window appears.

System Settings (Continued)



- 5 Click [PC restore].
- 6 Click [Browse].
 - ◆ Select DMS2.5 data file to restore and then click [Open(O)] when "File selection" window appears.
- 7 Check if the file route and file name are correctly entered in the text box, and then click [Upload].



-
- 8 Click [OK] when “Restore the DMS by using the file. Do you want to continue?” message appears.
- ◆ “Reading data from DMS2.5. Please wait.” message window will appear.
 - ◆ Depending on the size of the data, backup time may vary. It will usually take few seconds.
-
- 9 Click [OK] when “Restoration is complete. Click 'OK' to restart DMS.” confirm window appears.
- ◆ DMS2.5 will restart and restored data will be reflected.

- Note**
- ◆ *Backup and restoration of set event history is not available.*
 - ◆ *Backup and restoration of network setting is not available.*

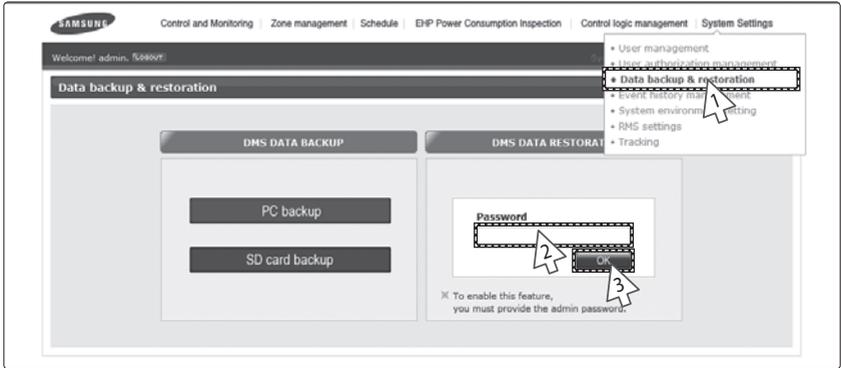


CAUTION

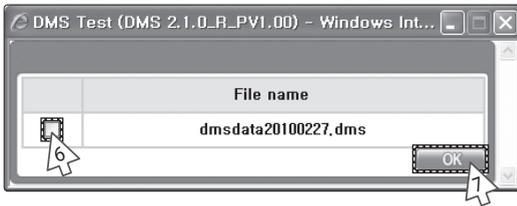
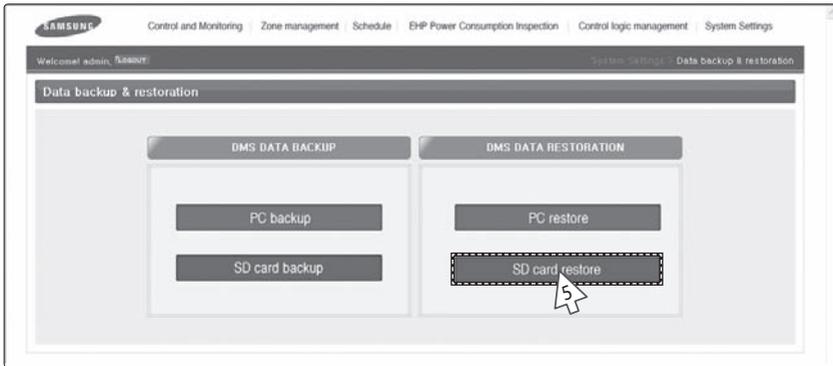
Keep in mind followings when operating restoration using backup file saved in PC.

- 1. You cannot use files bigger than 100Mbytes for restoration file.**
- 2. Restoration should be carefully executed because existing data will be deleted during restoration and the data you select will be restored. Before operating restoration, backup current data of DMS2.5 to PC or SD card.**
- 3. The name of file for restoration should be within 32 letters in English alphabet or numbers. If not, rename the file and upload it again.**

DMS2.5 Data Restoration - SD Card Restoration



- 1 Click [System Settings] → [Data backup & restoration] when DMS2.5 web page menu screen appears.
- 2 Enter the password of Admin account when DMS2.5 data backup and restoration screen appears.
 - ◆ Data restoration function deals with the important data of the system.
To activate the function, you should enter administrator's password.
- 3 Click [OK].
- 4 Click [OK] when caution window appears.



-
- 5 Click [SD card restore].

 - 6 Select the check box of file to restore.

 - 7 Click [OK].

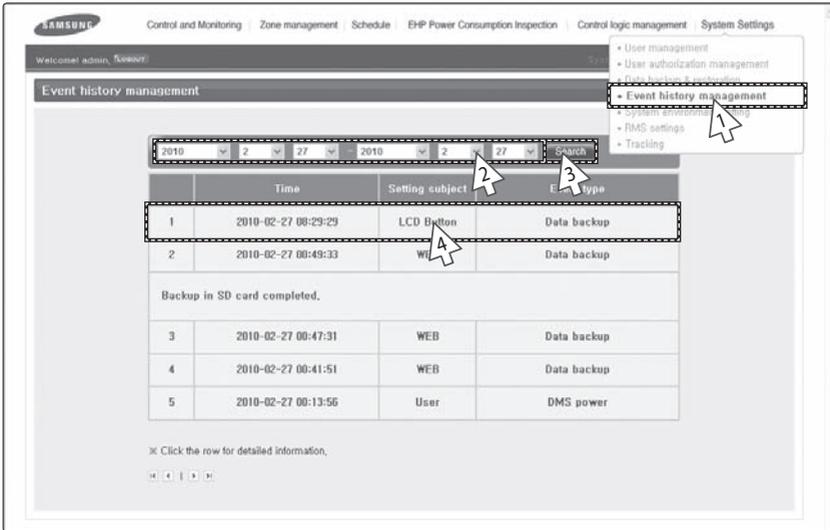
System Settings (Continued)



-
- 8 Click [OK] when "Restore DMS data by using the file. Do you want to continue?" message appears.
 - ◆ "Reading data from DMS2.5. Please wait." message window appears.
 - ◆ Depending on the size of the data, backup time may vary. It will usually takes few seconds.
-
- 9 Click [OK] when "Restoration is complete. Click 'OK' to restart DMS." message window appears.
 - ◆ DMS2.5 will restart and restored data will be reflected.
-

Note For proper restoration, unlock the forbidden writing function of SD card.

Event History Management “Search(Check)”



You can search(check) all kinds of set information of event log in DMS2.5.

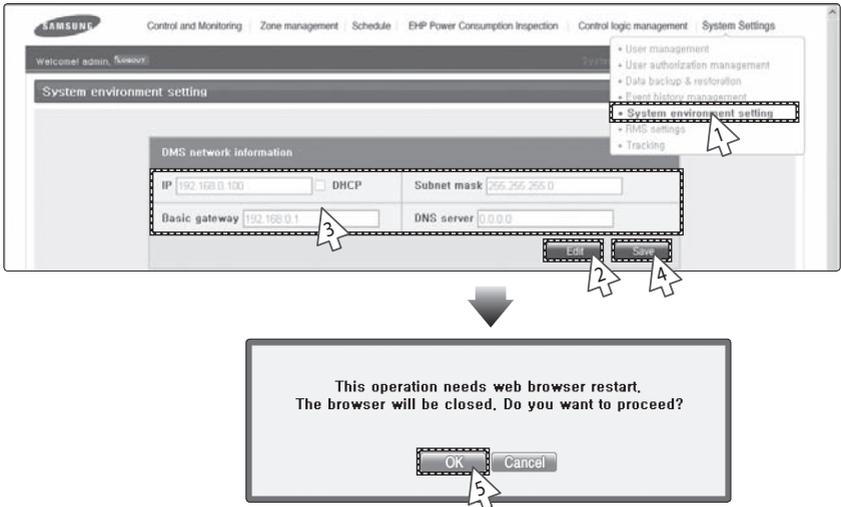
- 1 Click [System Settings] → [Event history management] when DMS2.5 web page menu screen appears.
- 2 Select the period of event history you want to search.
- 3 Click [Search].
- 4 List of events which occurred in the period will be displayed.
 - ◆ You can check detailed information about the event by selecting the item you want to check.

Note You can check following event logs using event history management.

1. DMS2.5 power related event
2. Schedule setting related event
3. RMS service setting related event
4. Tracking related event
5. User information modification related event
6. System settings related event
7. Operation using external interface related event

System Settings (Continued)

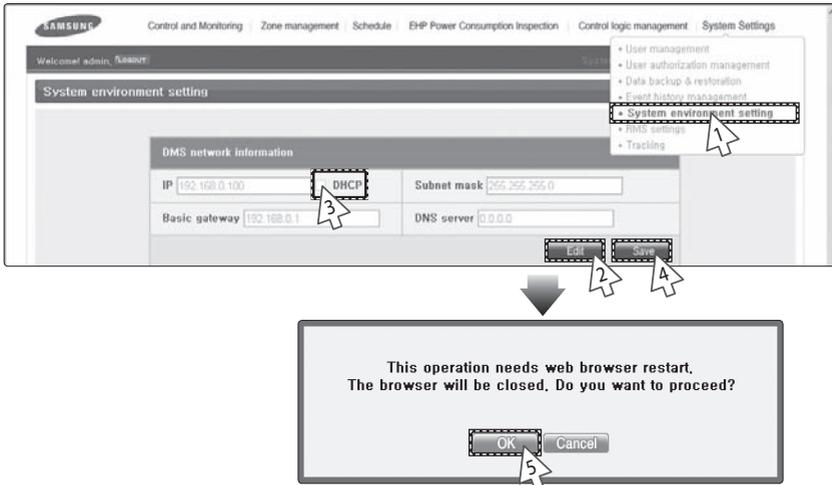
DMS2.5 Network Information Setting – “Manual Setting”



You can set and check information about DMS2.5 installation operation.

- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from DMS2.5 network information window.
- 3 When text boxes of IP address, subnet mask address, default gateway and DNS server are enabled, enter values for each item.
 - ◆ 15 letters can be entered for each item.
 - ◆ Each item should match with the network address form.
 - ◆ Basically, only Private IP can be set to IP address. To use Public IP, you must set Enable public IP as 'Enable' from the menu [System Settings] → [System environment setting].
 - Private IP range: 10.0.0.0 ~ 10.255.255.255, 172.16.0.0 ~ 172.31.255.255, 192.168.0.0 ~ 192.168.255.255
 - Public IP range: IP except for Private IP range and 127.0.0.1(localhost)
- 4 Click [Save] in DMS2.5 network information window.
- 5 Click [OK] when "This operation needs web browser restart. The browser will be closed. Do you want to proceed?" message appears.
 - ◆ Click [OK] and current web browser will be closed. Run the web browser again and you can access to DMS2.5 using IP which is manually set.

DMS2.5 Network Information Setting – using “DHCP”



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from DMS2.5 network information window.
- 3 Check 'DHCP'.
 - ◆ The text boxes of IP address, subnet mask address, default gateway and DNS server will be disabled.
 - ◆ If you want manual setting, uncheck 'DHCP' and then refer to “DMS2.5 Network information setting-manual setting” steps. (Refer to page 126)
 - ◆ DMS2.5 supports DHCP. Only private IP should be assigned from DHCP. If Public IP is assigned from DHCP, you cannot access DMS2.5.
 - ◆ If Public IP must be assigned from DHCP, you must set Enable public IP as 'Enable' from the menu [System Settings] → [System environment setting].
- 4 Click [Save] in DMS2.5 network information window.
- 5 Click [OK] when “This operation needs web browser restart. The browser will be closed. Do you want to proceed?” message appears.
 - ◆ Click [OK] and current web browser will be closed. Run the web browser again and you can access to DMS2.5 after checking auto setting IP in the external LCD.



Some functions available on DMS2.5 web page may not be functional at BACnet Gateway and LonWorks Gateway. For detailed function, refer to the installation manual or contact Samsung Electronics.

System Settings (Continued)

Note

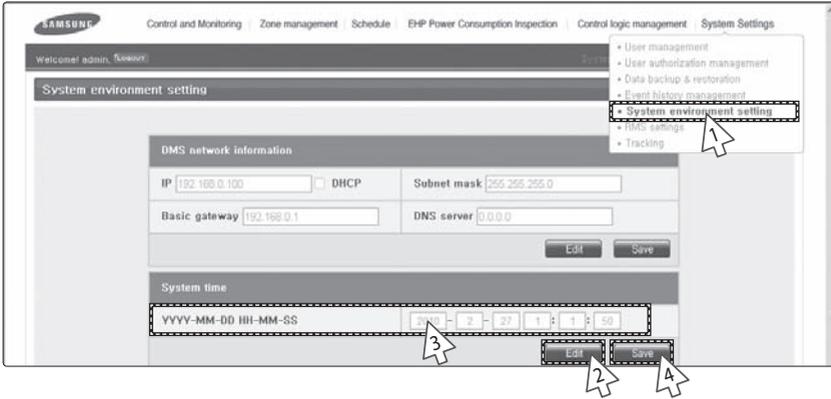
- ◆ **Factory setting is as follows.**
 1. IP address: 192.168.0.100
 2. Subnet mask address: 255.255.255.0
 3. Default gateway : 192.168.0.1
 4. DNS server: 0.0.0.0
- ◆ **DMS2.5 sets service engineer IP(192.168.0.254) internally. Therefore, it should be available all the time regardless of current IP setting.**
- ◆ **DMS2.5 gets DHCP IP address when you activate DHCP function. When connecting DMS2.5 to S-NET series, you can connect them using the IP. However the DHCP IP address can be changed by events such as network environment of restart.
In this case, it may cause communication failure between S-NET series and DMS2.5. Therefore it is not recommended to connect DMS2.5 using DHCP address using S-NET series.**
- ◆ **You can check network information on external LCD of DMS2.5 when activating DHCP. (Refer to page 162)**
- ◆ **When DHCP is set, address from DHCP server will be set as DMS2.5 IP address.**
- ◆ **DHCP function is not available when you use BACnet Gateway function.**



CAUTION

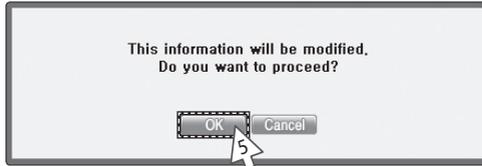
This product must be used in a dedicated network because it cannot respond to network attacks such as hacking and viruses. When it is connected to the Internet or an intranet (ex: an office LAN), it could be a risk of illegal approach. Also, this may change it to a harmful connection for other network devices. This is not the responsibility of Samsung Electronics and not included in compensation for the damage.

System Time Setting



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from system time setting.
- 3 Enter system time(year/month/day/hour/minute/second).
 - ◆ You can enter only numbers.
 - ◆ Year: You can enter from 1980 to 2035.
 - ◆ Month: You can enter from 1 to 12.
 - ◆ Day: You can enter from 1 to 31.
 - ◆ Hour: You can enter from 0 to 23.
 - ◆ Minute: You can enter from 0 to 59.
 - ◆ Second: You can enter from 0 to 59.
- 4 Click [Save] after setting is completed.

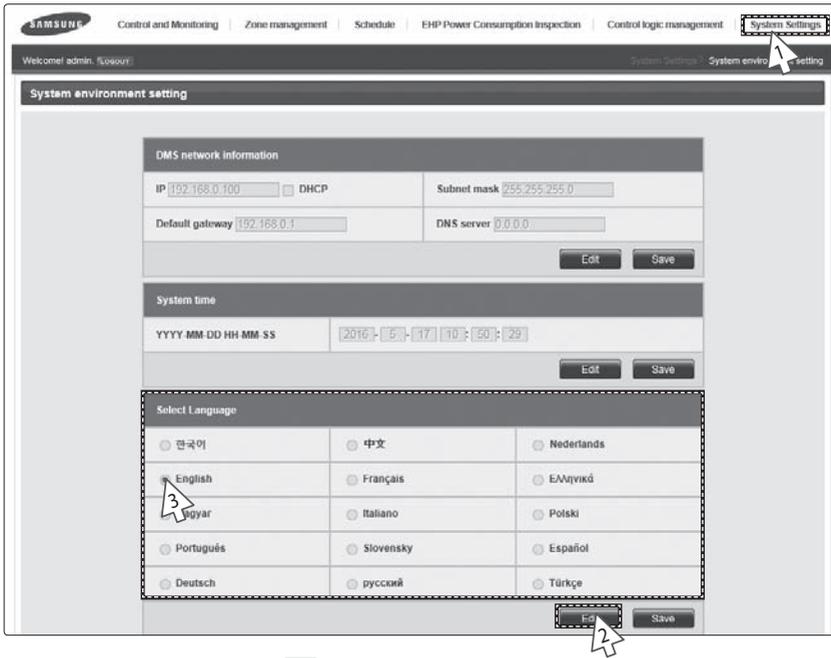
System Settings (Continued)



-
- 5 Click [OK] when "This information will be modified. Do you want to proceed?" message window appears.
-
- 6 "Reading data from DMS2.5. Please wait." message appears and saving is completed. Then, system environment setting screen appears again with all items are disabled.
-

Note Time on the screen shows DMS2.5 setting time.

Selecting the Language



This operation needs DMS to be restarted.
Do you want to apply the setting?

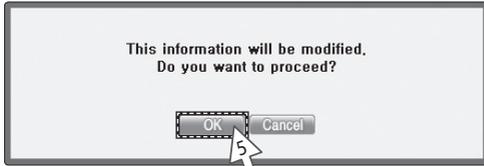
OK Cancel

- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from language selection.
- 3 Select a language you want then click [Save].
- 4 Click [OK] when “This operation needs DMS to be restarted. Do you want to apply the setting?” message appears.
 - ◆ Click [OK] and current web browser will be closed. DMS2.5 will restart and it may take approximately 1 minute.

System Settings (Continued)

DMS2.5 Name Setting

- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from DMS2.5 name setting.
- 3 Enter name of DMS2.5 when DMS2.5 name field enabled.
 - ◆ You can use maximum 30 letters including English alphabets and special symbols.
 - ◆ When DMS2.5 name is set, the name will be displayed on the top title bar of web browser.
- 4 Click [Save] after setting is completed.

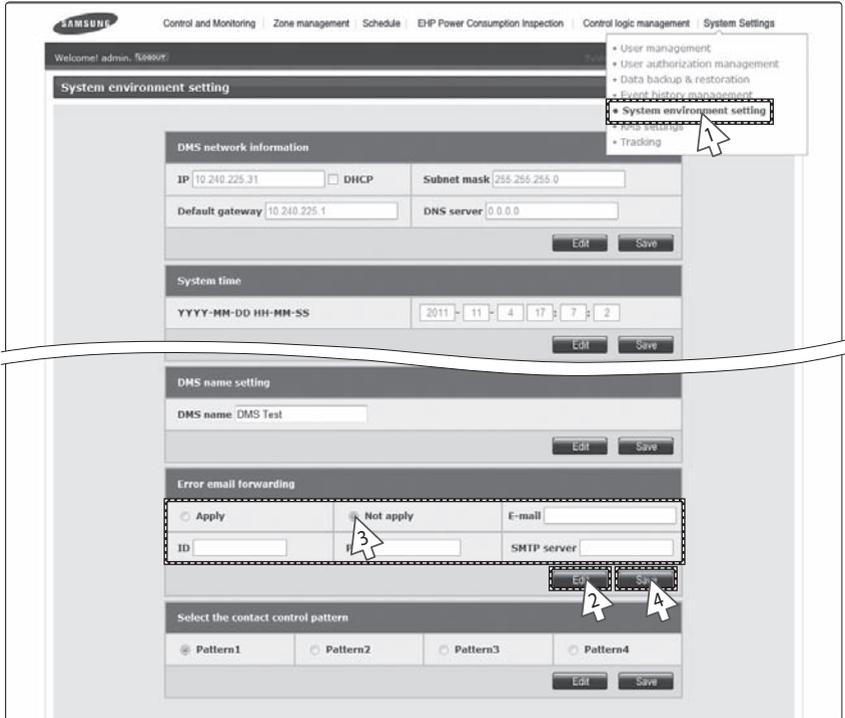


-
- 5 Click [OK] when "This information will be modified. Do you want to proceed?" message appears.
-
- 6 "Reading data from DMS2.5. Please wait." message appears and saving is completed. Then, system environment setting screen appears again with all items are disabled.
 - ◆ You can check new DMS2.5 name on the title bar of web browser.
-

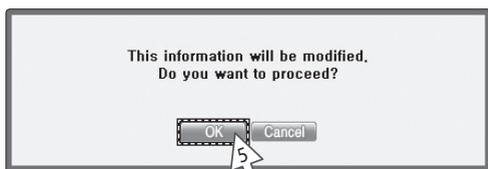
Note **Name of the DMS2.5 is set to blank as factory default.**

System Settings (Continued)

Error Mail Forwarding Setting



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from error mail forwarding setting.
- 3 Set all the items as the value you want when all items fields are enabled.
 - ◆ If you select 'Apply', you should input e-mail address, SMTP server ID, password, and SMTP server address.
 - ◆ If you select 'Not apply', E-mail, ID, PW and SMTP server items will not affect on the setting.
 - ◆ [Test] appears after saving all e-mail information. Click [Test] to send the test message.
- 4 Click [Save] after setting is completed.



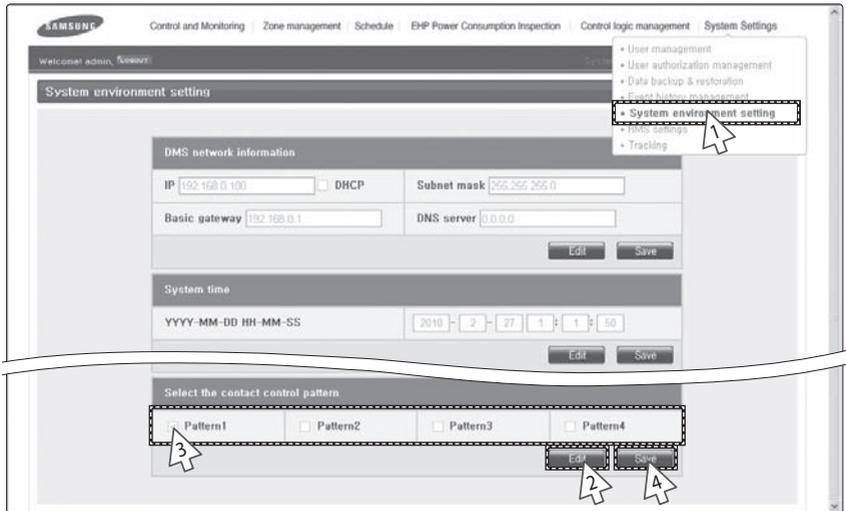
-
- 5 Click [OK] when "This information will be modified. Do you want to proceed?" message appears.
-
- 6 "Reading data from DMS2.5. Please wait." message appears and saving is completed. Then, system environment setting screen appears again with all items are disabled.

Note

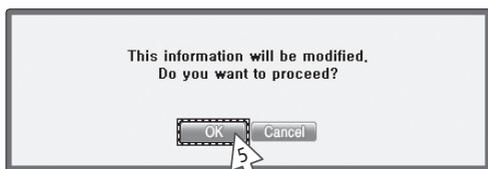
- ◆ *In factory setting, 'Not apply' is checked and item fields(E-mail, ID, PW, SMTP) are blank.*
- ◆ *E-mail forwarding function only deals with the server supporting SSL.*

System Settings (Continued)

Contact Control Pattern Selection



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] from contact point pattern selection window.
- 3 Select the pattern you want to check.
 - ◆ Pattern 1[No external input]:
No operation will be made when inputting contact control signal.
 - ◆ Pattern 2[Level(Emergency stop)]:
Commands that stop all operation of indoor unit and disable remote control when inputting contact control signal. In level emergency stop status, it will not be controlled even if the command is from upper controller.
 - ◆ Pattern 3[Level(Operation/Stop)]:
Level signal input timing.
It changes operation/stop status of all indoor units.
 - ◆ Pattern 4[pulse (Operation/Stop,Disable/Enable)]:
Pulse signal. It changes operation/stop status of all indoor units.
- 4 Click [Save] after setting is completed.



- 5 Click [OK] when "This information will be modified. Do you want to proceed?" message appears.
- 6 "Reading data from DMS2.5. Please wait." message appears and saving is completed. Afterwards, system environment setting screen appears again with all items are disabled.
 - ◆ If at least one of indoor unit is turned on, contact point output port 1 generates contact point signal.
 - ◆ If there is breakdown, contact point output port 2 generates contact point signal.

Note

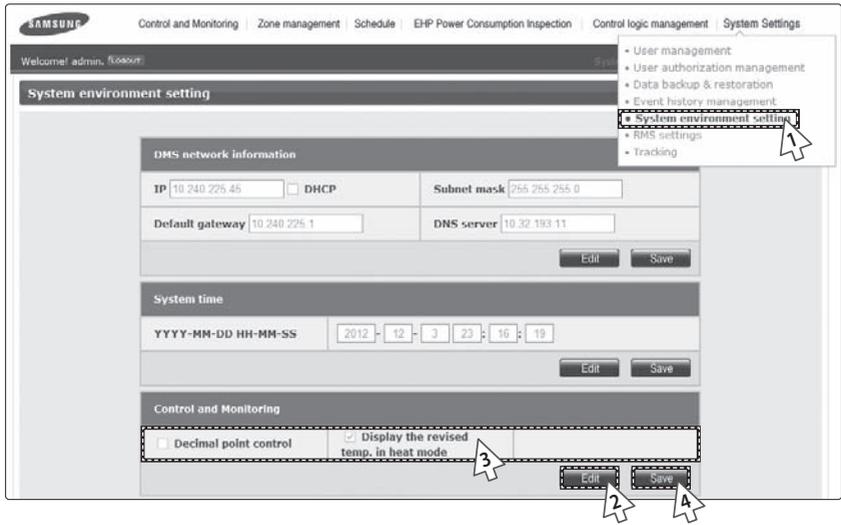
- ◆ **Pattern 1 is set as factory setting of contact control pattern.**
- ◆ **Contact output**
 - When indoor unit is in operation, DMS2.5 which executed tracking successfully outputs signal through DO Ch1.
 - If there is unsolved breakdown in DMS2.5, signal will be output through DO Ch2. You can check it through check indicator on DMS2.5.



For extension, DMS2.5 has 10 DI/DO ports. Contact control and output function are assigned to Ch1 and Ch2. Ch3~Ch10 will be assigned to additional functions. For proper contact control, connect using Ch1 and Ch2.

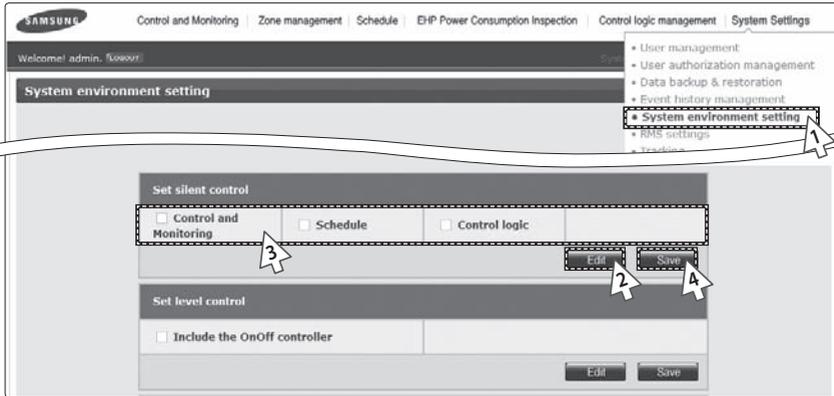
System Settings (Continued)

Setting Control and Monitoring



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on Control and Monitoring section.
- 3 Select 'Decimal point control' or 'Display the revised temp. in heat mode'.
 - ◆ Decimal point control: Select this function if you want to control the indoor unit in 0.1°C unit. If this is not selected, temperature will be adjusted in 1°C even if the indoor unit supports decimal point control which allows temperature adjustment in 0.1°C unit.
 - ◆ Display the revised temp. in heat mode: Select this function if you want to display the revised temperature for current temperature in heat mode.
- 4 Click [Save].

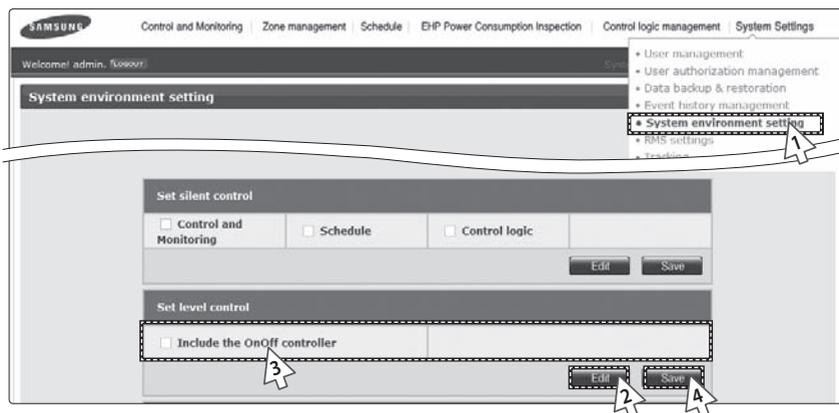
Setting silent control



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on Set silent control section.
- 3 Select 'Control and Monitoring' or 'Schedule' or 'Control logic'.
 - ◆ Control and Monitoring: Select this if you want to control silently in 'Control and Monitoring' screen.
 - ◆ Schedule: Select this if you want to perform 'Schedule' silently.
 - ◆ Control logic: Select this if you want to perform 'Control logic' silently.
- 4 Click [Save].

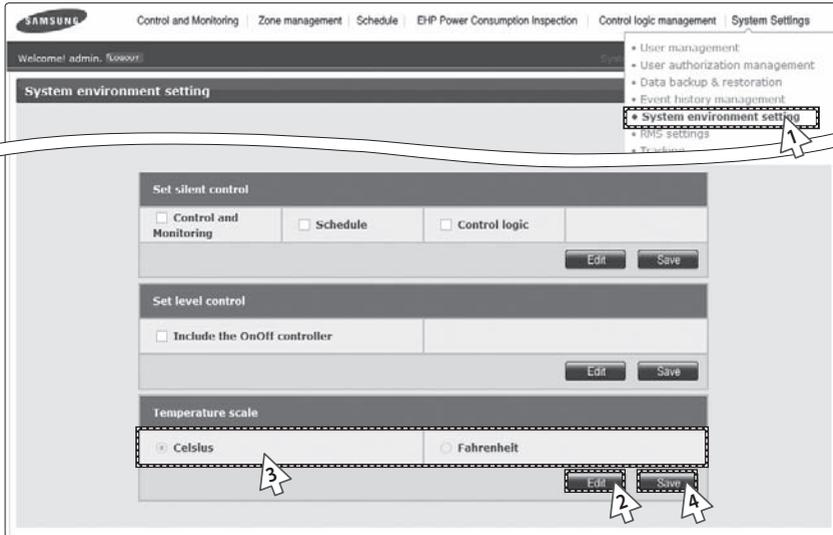
System Settings (Continued)

Setting level control



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on Set level control section.
- 3 Select 'Include the OnOff controller'.
 - ◆ Include OnOff controller: Select this if you want to restrict controlling from OnOff controllers when you disable RC from the DMS2.5.
- 4 Click [Save].

Setting temperature scale



- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on the temperature scale.
- 3 Select the temperature display of DMS2.5 as Celsius or Fahrenheit.
- 4 Click [Save].

System Settings (Continued)

Setting Enable public IP

- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on Enable public IP section.
- 3 Select whether to use Public IP or not.
 - ◆ When you select 'Enable', you must register the Public IP of PCs or network devices to access DMS2.5 from the PCs or network devices.
- 4 Click [Save].

Setting Public IP of upper controller

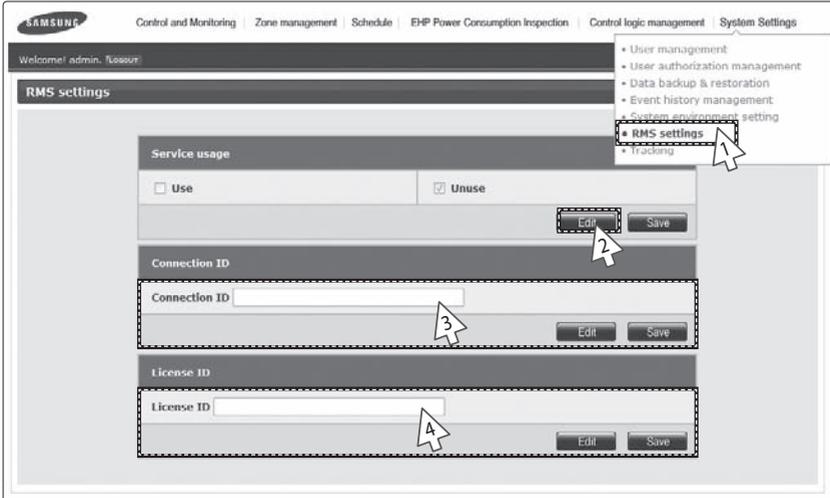
- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on Public IP of upper controller section.
- 3 Register the Public IP of PCs or network devices to access DMS2.5 from the PCs or network devices.
 - ◆ Select 'Apply' after entering Public IP to access DMS2.5.
- 4 Click [Save].

Setting the time on the wired remote controller

- 1 Click [System Settings] → [System environment setting] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on [Time settings on the wired remote control] in [Time sync with the wired remote control] menu.
 - ◆ Set the time to use.
- 3 Click [Edit] on [Time sync with the wired remote control using RMS] in [Time sync with the wired remote control] menu and click [Apply].
 - ◆ Be sure to click [Apply] to start auto sync through RMS service.
- 4 Click [Save].

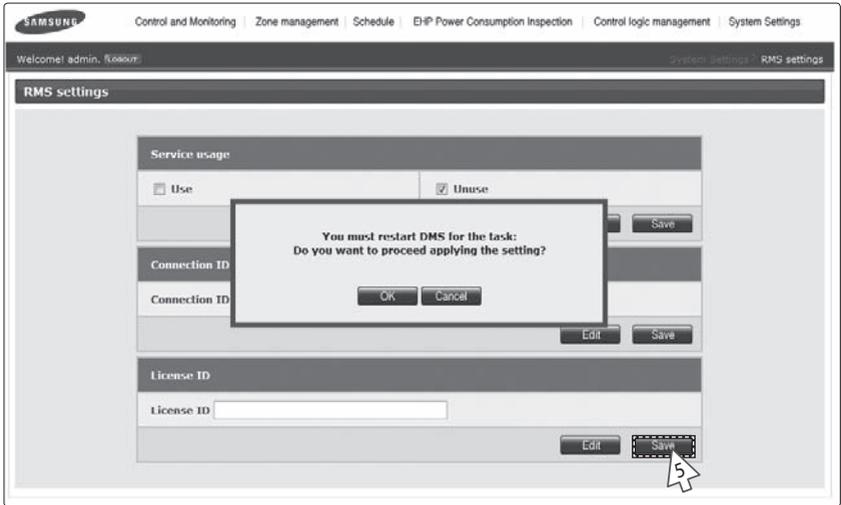
- Note**
- ◆ *Time setting is available only in some wired remote controllers that can support time setting function through the DMS.*
 - ◆ *You can use the auto time sync function of the wired remote controller through the RMS only while using the RMS service. The time for the wired remote controller is automatically set based on the RMS time once a day.*

RMS Service Usage Setting



- 1 Click [System Settings] → [RMS settings] when DMS2.5 web page menu screen appears.
※ RMS is a Remote Management Service of a system air conditioner
- 2 Click [Edit] on Service usage section to select whether or not to use the RMS.
- Select either 'Use' or 'Unuse'
 - ◆ When 'Use' is selected, enter the Connection ID and the License ID as instructed in step 3 and 4.
 - ◆ When 'Use' is selected, DNS server address must be set on the DMS network information section of the [System Settings] → [System Environment setting] menu.
 - ◆ When 'Unuse' is selected, Connection ID and the License ID setting is not necessary. (Skip to step 5)
- 3 Enter the Connection ID.
※ Connection ID is required to classify the DMS in the RMS server.
 - ◆ Click [Edit] and enter the Connection ID.
 - ◆ If the connection ID was not assigned, add the DMS of the corresponding site on the RMS web page and get a connection ID.
- 4 Enter the License ID.
※ To use the RMS service, license ID must be entered.
 - ◆ Click [Edit] and enter the License ID.

System Settings (Continued)

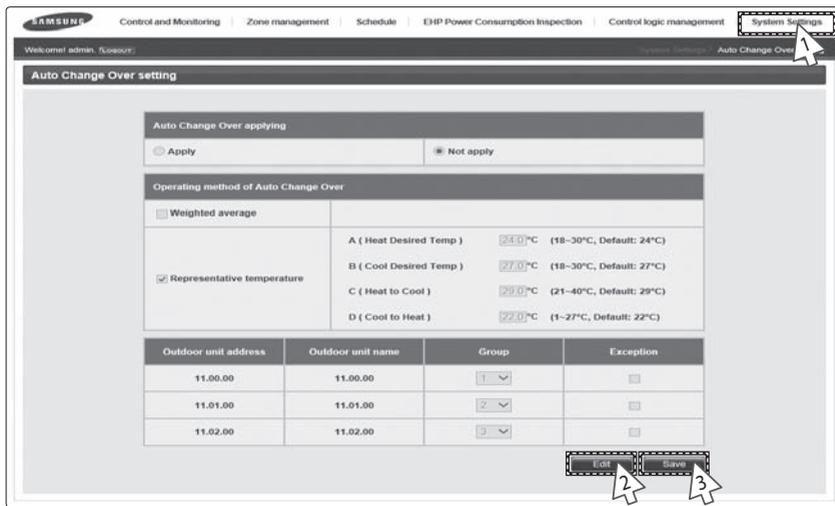


- 5 Click [Save] when setting is complete.
 - ◆ “You must restart DMS for the task: Do you want to proceed applying the setting?” message will appear. Click [OK], then DMS2.5 will restart and the changed settings will be applied.

The pop-up window for software update appears when you select “RMS settings” and have an update available to the DMS2.5 software. Click Agree and then enter the admin password to update the software.

- Note**
- ◆ **DMS2.5 automatically reboots once the software update has been completed. If there is a task in progress, such as tracking, complete the task before starting software update.**
 - ◆ **Software update is available only when DMS2.5 is connected to an external network.**

Setting Auto Change Over



- Click [System Settings] → [Auto Change Over setting] when DMS2.5 web page menu screen appears.
 - Using the 'Auto Change Over' function, DMS2.5 can control indoor units to start auto cooling or auto heating.
 - When using auto cooling or heating, DMS2.5 operates the Fan → Cool or Heat → Auto modes in order. For ERV PLUS, it operates the Fan → Cool or Heat modes in order.
- Click [Edit] to configure the Auto Change Over settings.

(1) [Apply] / [Not apply]

- When using the Auto Change Over function, 'A' appears in the [Control and Monitoring] screen on the indoor unit, and the indoor unit cannot control its operation mode separately.



- (2) [Weighted average]: Configure the settings so that indoor units automatically switch between cooling and heating modes according to the set temperature, current temperature, and cooling/heating capacity of the indoor units that are turned on. Let's assume, for example, indoor units of the same capacity have been installed. If a larger number of the units have desired temperature lower than the current temperature, all of the units automatically switch to cooling mode. If a larger number of the units have the set temperature higher than the current number, all of the units automatically switch to heating mode.

System Settings (Continued)

-
- (3) [Representative temperature]: Sets to run auto cooling or heating operation, according to the average temperature of the turned-on indoor units.
- ◆ DMS 2.5 sets the indoor units to the auto cooling mode and keeps the temperature according to 'B (Heat Desired Temp)' when the average temperature of the units currently running is higher than 'C (Heat to Cool)'. DMS 2.5 also sets the indoor units to the auto heating mode and keeps the temperature according to 'A (Cool Desired Temp)' when the average temperature of the units currently running is lower than 'D (Cool to Heat)'.
- (4) Outdoor unit setting
- ◆ Only Heat Pump outdoor units that support new communication mode appear in the list. However, not listed in the list are the Heat Pump outdoor units that are connected to the Fresh Duct, Hydro Unit, Hydro Unit HT, Single EHS, DVM CHILLER, or cooling only indoor unit, as these units are not applicable for Auto Change Over.
 - ◆ The following outdoor units are not displayed in the list: the outdoor units designed solely for cooling and the outdoor units connected to the heating/cooling change-over switch if the switch is set to the cooling only mode or to the heating only mode.
 - ◆ The conventional indoor and outdoor units connected to ERV interface module, FCU interface module, Heat Recovery, and compatible interface module—those units do not appear in the list, as these units are not applicable for Auto Change Over.
 - ◆ Auto Change Over works for each group.
 - ◆ All indoor units in a single group become the targets for weighted average or representative temperature, and are controlled to equally run auto cooling or auto heating.
 - ◆ If you select [Exception], the outdoor unit cannot use the Auto Change Over function despite being grouped, and indoor units connected to the outdoor unit are excluded from the targets of weighted average or representative temperature.
 - ◆ If the outdoor unit is set to cooling or heating only mode, the Auto Change Over function is not available.
-

- 3 Click [Save] after finishing the setup.
-

Note ◆ **When the DMS2.5 is installed in the S-Net3, Touch Centralized controller, Wi-Fi Kit product, or wired/wireless remote controllers simultaneously, the indoor unit with the Auto Change Over function cannot control operation modes through S-Net3, Touch Centralized controller, Wi-Fi Kit product, or the wired/wireless remote controller.**

■ Downloading user manual

1. Click [System Settings] → [User manual] when DMS2.5 web page menu screen appears.
 - ◆ You can download the user manual.

System Setting Initialization

192.168.0.100
06:12:13(AM)

1. Press [Menu], [▲], [▼] or [Set] on LCD if IP and current time are displayed on LCD screen.

- ◆ Main menu screen appears.
- ◆ Initialization is not possible in the screen which time information is displayed.

MAIN MENU
1. IP Config

2. Press [Menu] → [▼] → [▲] → [▼] → [Menu] buttons in order in main menu screen.

- ◆ Caution will be displayed on LCD Display.

Are you sure?
YES:Set, NO:Menu

3. Initialize DMS2.5 by clicking [Set] when caution phrase appears.

- ◆ If you press [Menu] button, it will turn back to main menu without initialization.



CAUTION

When initializing system setting, all saved data in DMS2.5 will be deleted.

After initialization, saved data and IP address will be same as factory setting.

Tracking

◆ What is tracking?

Tracking is an operation that finds devices which are connected to DMS2.5.

Through tracking operation, devices which are connected to DMS2.5 can recognize if they are connecting to DMS2.5.

To supervise and control system air conditioner using DMS2.5, tracking should be done first.

◆ Things you can do through tracking

Checking the number of devices installed, setting communication mode by channel, DVM tracking, Renaming is possible through tracking.

◆ Execute tracking

(1) Connect DVM device

- Connect the device to COM1~COM5.

(2) Set communication mode by channel.

- Set proper communication mode which fits to the devices connected in step (1).

- Be careful that if communication mode is not properly set, the device will not be found through tracking.

(3) Execute tracking - Execute DVM tracking.

- DVM tracking is an operation that finds system air conditioner devices such as indoor/outdoor unit, watt-hour meter.

(4) Name setting for each device.

- Name setting for each device is a function that sets the name of connected devices. Set the name which shows installation location of the device.

◆ Communication mode setting by channel

Roles

- It records what devices are connected to COM1~COM5 of DMS2.5.

- Through tracking, DMS2.5 searches proper devices which fits to user's setting.

- Select proper communication mode which fits to connected device.

What is communication mode?

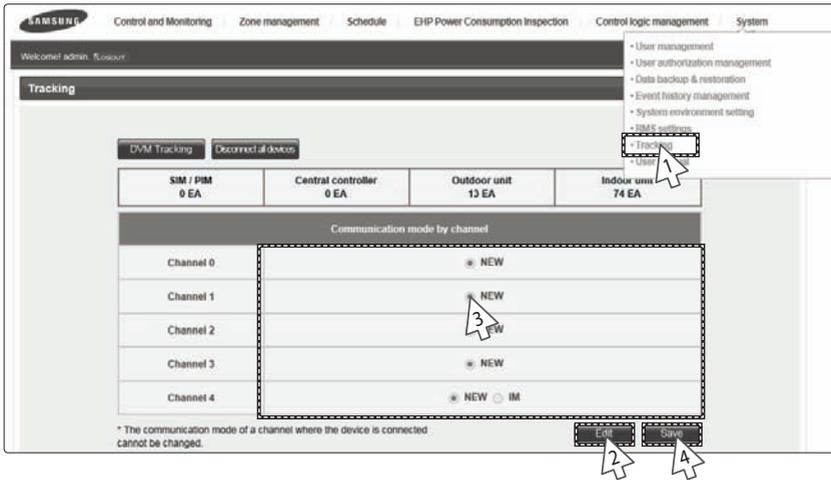
- Outdoor unit, OnOff controller, SIM, PIM can be connected to DMS2.5.

- Following is the list of devices that can be communicated through each communication mode.

- NEW mode: OnOff controller, outdoor units, and SIM/PIM which support new communication mode.

- IM mode: IM mode cannot be set, but it can be used for function change or new function with an updated version.

Communication Mode Setting by Channel



1 Click [System Settings] → [Tracking] when DMS2.5 web page menu screen appears.

2 Click [Edit] from communication mode by channel setting.

- ◆ [Edit] will change to [Cancel].
- ◆ Selection buttons are enabled. However, the channels which have searched device maintains its selection button disabled.

3 When each channel is enabled, check the communication mode you want to set by channel.

- ◆ You cannot change the communication mode of channel which has currently connected device.
- ◆ When 'NEW' is set as communication mode, setting will allow tracking, monitoring and controlling devices that support NEW communication mode.
- ◆ IM mode cannot be set, but it can be used for function change or new function with an updated version.

4 Click [Save] after setting is completed.

- ◆ "Reading data from DMS2.5. Please wait." message appears and saving is completed.
- Then, tracking page with disabled items will be displayed again.
- ◆ If you click [Cancel], check boxes will be disabled and [Cancel] will change to [Edit].

System Settings (Continued)

DVM Tracking

Control and Monitoring Zone management Schedule EHP Power Consumption Inspection Control logic management System

Welcome admin. 10:00:00

Tracking

DVM Tracking Disconnect all device

| Device Address | Central controller | Outdoor unit | Indoor unit |
|----------------|--------------------|--------------|-------------|
| 0 EA | 0 EA | 13 EA | 74 EA |

Communication mode by channel

| Channel | Mode |
|-----------|--------|
| Channel 0 | NEW |
| Channel 1 | NEW |
| Channel 2 | NEW |
| Channel 3 | NEW |
| Channel 4 | NEW IM |

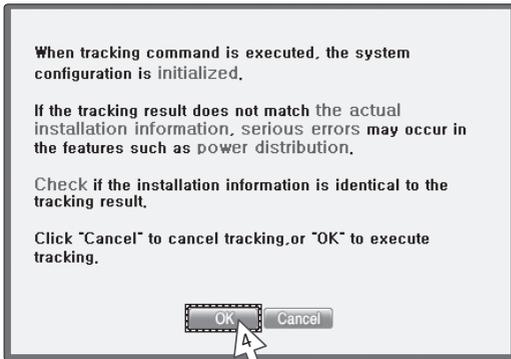
* The communication mode of a channel where the device is connected cannot be changed.

Edit Save

- 1 Click [System Settings] → [Tracking] when DMS2.5 web page menu screen appears.
- 2 Click [DVM Tracking].
 - ◆ When the addresses of the devices are collected, you can perform re-tracking without collecting detailed information.

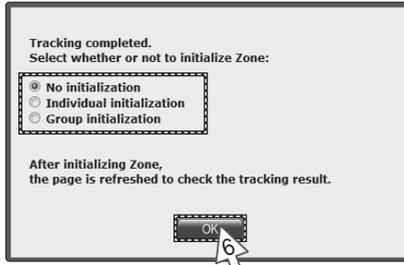


Some functions available on DMS2.5 web page may not be functional at BACnet Gateway and LonWorks Gateway. For detailed function, refer to the installation manual or contact Samsung Electronics.



-
- 3 Enter administrator's password and then click [OK].
-
- 4 Tracking information window pops up. Check and click [OK] to continue.
 - ◆ Execute tracking depending on the communication mode set by communication mode setting by channel.
 - (1) When 'NEW' is set as communication mode, DMS2.5 executes tracking on devices that supports NEW communication.
-
- 5 "Tracking is in progress. Please wait." message appears.
 - ◆ Tracking takes from tens of seconds to several ten minutes.
However, it may vary depending on the number of installed controllers.
-

System Settings (Continued)



- 6 Tracking completed message will appear. Select Zone initialization mode you want and click [OK].
- ◆ Not initialize: No zone information initialization will be made.
 - ◆ Initialize individually: Initialize zone information as individual mode.
 - ◆ Initialize by group: Initialize zone information as group mode.

- Note**
- ◆ *If tracking is executed successfully while NEW is set as communication mode for each channel, virtual OnOff controller will be assigned to each channel.*
 - ◆ *If there is no searched outdoor unit, OnOff controller, SIM/PIM, it is regarded as DVM tracking failure.*
 - ◆ *If there are devices which have same address, first searched device will be registered only.*
 - ◆ *The number of OnOff controller doesn't contain the number of virtual OnOff controller that is used in NEW communication.*
 - ◆ *Group initialization will not be applied to Hydro Unit, Hydro Unit HT and Single EHS.*



CAUTION

- ◆ *If you execute tracking, system setting will be initialized.*
- ◆ *If tracking result does not match with actual installation information, there can be critical error in additional functions such as power distribution.*
- ◆ *Make sure that tracking information matches to actual installation information after tracking.*

Disconnect All Devices

◆ Function

Initialize searched device status in DMS2.5. Using this function, monitoring and controlling of all the connected devices to DMS2.5 will be stopped.

◆ When is it needed?

- Connect searched device to the other channel and execute tracking. If the other device is searched in the channel you want to use, use 'Disconnect all devices' function.
- If you use this function, DMS2.5 device connection status will be initialized.

The screenshot shows the Samsung DMS2.5 web interface. The top navigation bar includes 'Control and Monitoring', 'Zone management', 'Schedule', 'EHP Power Consumption Inspection', 'Control logic management', and 'System'. The 'System' menu is expanded, showing options like 'User management', 'User authorization management', 'Data backup & restoration', 'Event history management', and 'System environment setting'. The 'Tracking' option is highlighted. Below the navigation, the 'Tracking' section is active, displaying a summary table and a table for communication modes by channel.

| SIM / PIM | Central controller | Outdoor unit | Indoor unit |
|-----------|--------------------|--------------|-------------|
| 0 EA | 0 EA | 13 EA | 74 EA |

| Communication mode by channel | |
|-------------------------------|--------|
| Channel 0 | NEW |
| Channel 1 | NEW |
| Channel 2 | NEW |
| Channel 3 | NEW |
| Channel 4 | NEW IM |

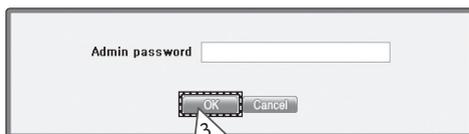
* The communication mode of a channel where the device is connected cannot be changed.

Buttons: Edit, Save

1 Click [System Settings] → [Tracking] when DMS2.5 web page menu screen appears.

2 Click [Disconnect all devices].

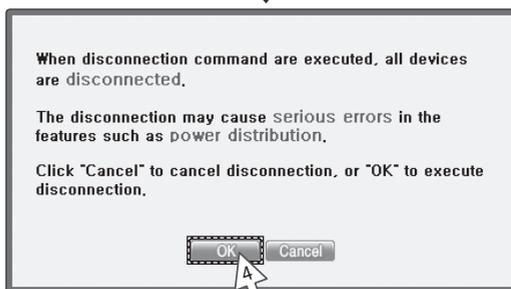
System Settings (Continued)



Admin password

OK Cancel

A mouse cursor is pointing at the OK button, and a callout box with the number 3 is positioned over it.



When disconnection command are executed, all devices are disconnected.

The disconnection may cause serious errors in the features such as power distribution.

Click "Cancel" to cancel disconnection, or "OK" to execute disconnection.

OK Cancel

A mouse cursor is pointing at the OK button, and a callout box with the letter A is positioned over it.

- 3 Enter administrator's password and then click [OK].
- 4 Disconnect all devices information window pops up. Check it and click [OK] to continue.
- 5 "Reading data from DMS2.5. Please wait." message appears. After completing disconnect all devices operation, page will be refreshed.

- Note**
- ◆ After executing disconnect all devices function, device search status of DMS2.5 will be initialized.
 - ◆ You should execute tracking again after using disconnect all devices function.

Renaming the Device

The screenshot shows the Samsung DMS2.5 web interface. At the top, there are navigation tabs: Control and Monitoring, Zone management, Schedule, IP Power Consumption Inspection, Control logic management, and System. The System menu is open, showing options like User management, User authorization management, Data backup & restoration, Event history management, System environment setting, DMS settings, and Tracking. The Tracking page has buttons for 'DVM Tracking' and 'Disconnect all devices'. Below this is a table for 'Communication mode by channel' with columns for Channel, SIM / PIM, Central controller, Outdoor unit, and Indoor unit. A note states: '* The communication mode of a channel where the device is connected cannot be changed.' Below the table is a list of devices with columns for Channel, Device, Address, Device name, and Name. The 'Edit' button at the bottom of the table is highlighted with a dashed box and a mouse cursor.

| Channel | Device | Address | Device name | Name |
|---------|-------------------------------|----------------|-------------|-----------|
| CH4 | Central controller | 15 | | 외장용외장외장15 |
| | Outdoor unit () | 15.00.00 | | 15.00.00 |
| | Indoor unit (004.032.000.000) | 15.00.00 (255) | | 15.00.00 |
| | Indoor unit (004.032.000.001) | 15.00.01 (255) | | 15.00.01 |
| | Indoor unit (004.032.000.002) | 15.00.02 (255) | | 15.00.02 |
| | Indoor unit (004.032.000.003) | 15.00.03 (255) | | 15.00.03 |
| DMS | DMS DIDO | 56 | | DIDO |

- 1 Click [System Settings] → [Tracking] when DMS2.5 web page menu screen appears.
- 2 Click [Edit] on the bottom of tracking device list.
 - ◆ [Edit] will change to [Cancel].
 - ◆ When the type of the device is displayed, New communication address will be shown with it.

System Settings (Continued)

Control and Monitoring Zone management Schedule EHP Power Consumption Inspection Control logic management System

Welcome admin, 15:58:00

Tracking

DVM Tracking Disconnect address

| | | | |
|-------------------|----------------------------|----------------------|----------------------|
| SIM / PIM 0 EA | Central controller 0 EA | Outdoor unit 1 EA | Indoor units 4 EA |
|-------------------|----------------------------|----------------------|----------------------|

Communication mode by channel

| | |
|-----------|---------------------------------|
| Channel 0 | NEW |
| Channel 1 | NEW |
| Channel 2 | NEW |
| Channel 3 | NEW |
| Channel 4 | NEW <input type="checkbox"/> IM |

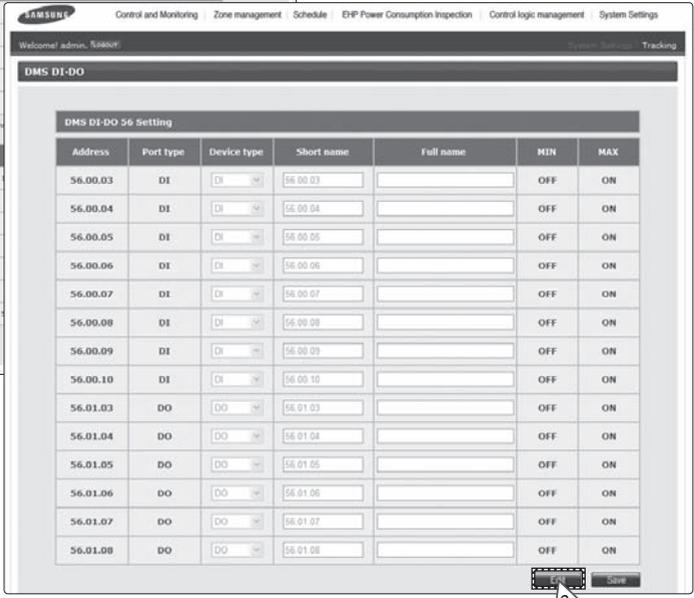
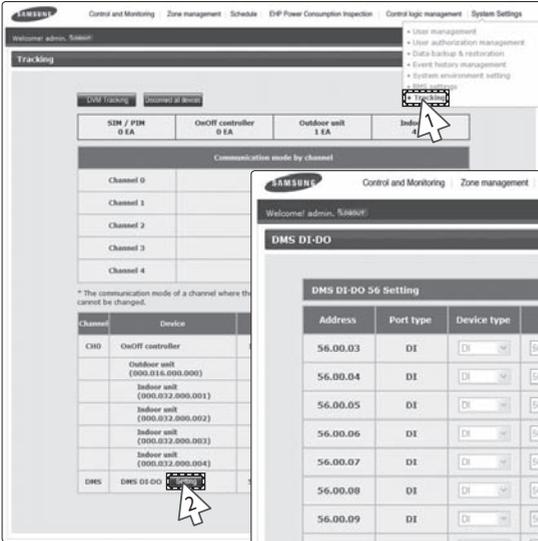
* The communication mode of a channel where the device is connected cannot be changed. Edit Save

| Channel | Device | Address | <input type="checkbox"/> Device name | Name |
|---------|---|----------------|--------------------------------------|----------|
| CH4 | Central controller | 15 | <input type="checkbox"/> | 15.00.00 |
| | Outdoor unit () | 15.00.00 | <input type="checkbox"/> | 15.00.00 |
| | Indoor unit (004.032.000.000) | 15.00.00 (255) | <input type="checkbox"/> | 15.00.01 |
| | Indoor unit (004.032.000.001) | 15.00.01 (255) | <input type="checkbox"/> | 15.00.02 |
| | Indoor unit (004.032.000.002) | 15.00.02 (255) | <input type="checkbox"/> | 15.00.03 |
| | Indoor unit (004.032.000.003) | 15.00.03 (255) | <input type="checkbox"/> | DMS |
| DMS | DMS DMSO <input type="button" value="Setting"/> | 56 | <input type="checkbox"/> | |

Edit Save

- 3 Enter the device name, which is saved in the PBA of indoor unit and outdoor unit, in the Device name field or enter the name, which is saved in the DMS2.5, in the Name field.
 - ◆ You cannot use special symbols as Device name and Name.
 - ◆ The Name should be within 16 letters.
 - ◆ The Device name should be within 10 letters.
 - ◆ Select the check box beside 'Device name' if you want to use the name of the device (that supports NEW communication) which is saved in the PBA.
- 4 Click [Save] after setting is completed.
 - ◆ "Reading data from DMS. Please wait." message appears and saving is completed. Then, tracking page with disabled items will be displayed again.
 - ◆ If you click [Cancel], input fields are disabled and [Cancel] will change to [Edit].

DMS DI•DO Port Setting



1 Select [System Settings] and then click [Tracking].

2 Click [Setting] which is next to DMS DI•DO of device list.

3 Click [Edit] which is on the bottom of DMS DI•DO setting page.
◆ [Edit] will change to [Cancel].

System Settings (Continued)

DMS DI-DO 56 Setting

| Address | Part type | Device type | Short name | Full name | MIN | MAX |
|----------|-----------|-------------|------------|-----------|-----|-----|
| 56.00.03 | DI | DI | 56.00.03 | | OFF | ON |
| 56.00.04 | DI | DI | 56.00.04 | | OFF | ON |
| 56.00.05 | DI | DI | 56.00.05 | | OFF | ON |
| 56.00.06 | DI | DI | 56.00.06 | | OFF | ON |
| 56.00.07 | DI | DI | 56.00.07 | | OFF | ON |
| 56.00.08 | DI | DI | 56.00.08 | | OFF | ON |
| 56.00.09 | DI | DI | 56.00.09 | | OFF | ON |
| 56.00.10 | DI | DI | 56.00.10 | | OFF | ON |
| 56.01.03 | DO | DO | 56.01.03 | | OFF | ON |
| 56.01.04 | DO | DO | 56.01.04 | | OFF | ON |
| 56.01.05 | DO | DO | 56.01.05 | | OFF | ON |
| 56.01.06 | DO | DO | 56.01.06 | | OFF | ON |
| 56.01.07 | DO | DO | 56.01.07 | | OFF | ON |
| 56.01.08 | DO | DO | 56.01.08 | | OFF | ON |

Cancel Save

4 Edit each item when DMS DI-DO selection and input fields are enabled.

- ◆ Device type : DI or DO
- ◆ Short name : Input short name of the device.
- ◆ Full name : Input full name of the device.
- ◆ Minimum value / Maximum value : MIN value is fixed as OFF and MAX value is fixed as ON.

5 Click [Save].

- ◆ After the saving is complete, DMS DI-DO setting page with all deactivated items will appear.
- ◆ If you press [Cancel], web page will refresh and it goes back to the state before the modification.

PIM Setting

The screenshot shows the DMS2.5 web interface. The top navigation bar includes: Control and Monitoring, Zone management, Schedule, EHP Power Consumption Inspection, Control logic management, and System Settings. The main menu on the left includes: Tracking, PIM Setting, and Control p. items. The Tracking page shows a table with columns: SIM / PIM (0.6A), On/Off controller (0.6A), Outdoor unit (0.6A), and Indoor (0.6A). The PIM Setting page shows a table with columns: PIM Channel, Watt-hour meter (kWh), Pulse Width (ms), Pulse (Wh/p), and Channel Status. The PIM Settings page also includes a Time Setting section and a PIM Password section. The 'Edit' button is highlighted with a red box and a red arrow labeled '3'.

- 1 Click [System Settings] → [Tracking] when DMS2.5 web page menu screen appears.
- 2 Click [Setting] which is next to PIM of device list.
 - ◆ Enter administrator's password and then click [OK].
- 3 Click [Edit] which is on the bottom of PIM setting page.
 - ◆ [Edit] will change to [Cancel].

System Settings (Continued)

The screenshot shows the 'PIM Settings' page in a web browser. At the top, there are navigation tabs: 'Control and Monitoring', 'Zone management', 'Schedule', 'EHP Power Consumption Inspection', 'Control logic management', and 'System Settings'. Below the browser address bar, the page title is 'PIM Settings'. The main content area contains a table with the following columns: 'PIM Ch', 'Meter Value', 'Meter Type', 'Pulse rate', and 'Channel Status'. The table lists channels 16.1 through 16.8. Channel 16.1 has a value of 538.0 and is set to 'Electricity' with a pulse rate of 0. A dropdown menu is open over the 'Meter Value' column, showing a search bar and a list of options: 'Meter Value', 'Meter Type/Pulse rate', 'Channel Status', 'Time Setting', and 'PIM Password'. A dashed box highlights the first row (16.1) and its checkbox. A mouse cursor is over the 'Save' button at the bottom right. Below the table, there are sections for 'Time Setting' (with a date/time input field) and 'PIM Password' (with a password input field).

- 4 Select a field you want to change.
 - ◆ Meter Value (0~999999.9, to one decimal place)
 - ◆ Meter Type / Pulse rate
 - Electricity (1~10000)
 - Water (1~10000)
 - Gas (0.001~10, to three decimal places)
 - ◆ Channel Status
 - ◆ Time Setting
 - ◆ PIM Password (Number)



You should tick the check box of the channel you want to change.

- 5 Click the check boxes to select the channel applying for the setting.
- 6 Click [Save].
 - ◆ If you press [Cancel], web page will refresh and it goes back to the state before the modification.

Check Before using Panel

Using LCD and LCD Button

LCD is mounted on DMS2.5 for installation and convenience of the user.

- ◆ You can search menu and change setting using [▲] and [▼] buttons.
- ◆ If you press and hold [▲] or [▼] button in some menu such as IP setting, the value changes faster.
- ◆ To go to upper menu or cancel, select [MENU] button.
- ◆ To go to sub menu, select or save, press [SET] button.
- ◆ Operates some menus with care because they are related to the proper operation of DMS2.5 system.
- ◆ If you do not use DMS2.5 buttons for long periods of time, set button lock to avoid malfunction.
- ◆ Manufacturer is not responsible for the damage caused by wrong operation.

Checking Main Menu

192.168.0.100
06:12:13(AM)

1. If IP and current time are displayed on LCD display, press [Menu], [▲], [▼] or [Set] button.
 - ◆ Main menu screen will be displayed.
2. Check menu options by pressing [▲], [▼] buttons.

| | | |
|----|----------------|--|
| 1 | IP Config | Network information setting |
| 2 | In/Outdoor | Checking Indoor/Outdoor unit information |
| 3 | DMS2.5 Version | Checking DMS2.5 version |
| 4 | DMS2.5 Time | Setting DMS2.5 time |
| 5 | Data Backup | Setting data backup |
| 6 | Peak Level | Checking peak level |
| 7 | Error Status | Checking error information |
| 8 | Password Reset | Password reset |
| 9 | Button Lock | Button lock function |
| 10 | Safety Halt | Safe end function |

Setting Network Information

Network Information Setting(IP Config)

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
1. IP Config

2. Select 1.IP Config by pressing [▲] and [▼] buttons, and press [Set] button.
 - ◆ Network setting screen will be displayed.

IP ADDRESS
192.168.0.100

3. Select the item you want by pressing [▲] and [▼] buttons.
 - ◆ You can select from IP address, subnet mask address, gateway address, and DNS server.

SET YOUR IP
192.168.0.79

4. Edit selected network information by pressing [Set] button.
 - ◆ Number to edit will blink.
 - ◆ You can change value by pressing [▲] and [▼] buttons.
To move to next number, press [Set] button.
 - ◆ If you press and hold [▲] or [▼] button, the value changes faster.
 - ◆ After setting all the 4-digit number, press [Set] button to save the new settings.
 - ◆ To cancel the setting, press [Menu] button.

Auto Address Setting (DHCP CONFIG)

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
1.IP Config

2. Select 1.IP Config by pressing [▲] and [▼] buttons, and press [Set] button.
 - ◆ Network setting screen will be displayed.

DHCP CONFIG
Current disabled

3. Select auto address setting function(DHCP CONFIG) by pressing [▼] button.
 - ◆ Auto address setting function status will be displayed.
 - Current disabled: Auto address setting function disabled
 - Current enabled: Auto address setting function enabled

Enable DHCP?
YES:Set, NO:Menu

4. Enable/Disable auto address setting function by pressing [Set] button.
 - ◆ If auto address setting function enabled
 - You can change it to disabled status by pressing [Set] button.
 - ◆ If auto address setting function disabled
 - You can change it to enabled status by pressing [Set] button.
 - ◆ To maintain current status, press [Menu] button.
 - ◆ DHCP function is not available when you use BACnet Gateway function.

Checking Indoor/Outdoor Unit Information

Checking Indoor/Outdoor Unit Information

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
2.In/Outdoor

2. Select 2.In/Outdoor by pressing [▲] and [▼] buttons.

IN/OUTDOOR INFO
Indoor:64

3. Press [Set] button.

- ◆ The number of indoor units connected to DMS2.5 will be displayed.

IN/OUTDOOR INFO
Outdoor:6

4. Check outdoor unit information by pressing [▼] button.

- ◆ The number of outdoor units connected to DMS2.5 will be displayed.
- ◆ To check indoor unit information again, press [▲] button.
- ◆ You can go back to main menu by pressing [Menu] or [Set] button.

Checking DMS2.5 Version

Checking DMS2.5 Version

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
3.DMS Version

2. Select 3. DMS2.5 Version by pressing [▲] and [▼] buttons.

DMS version
2.0

3. Press [Set] button.
 - ◆ Current version of DMS2.5(DMS2.5 Version) will be displayed.
 - ◆ You can go back to main menu by pressing [Menu] or [Set] button.

Checking DMS2.5 version (Continued)

■ DMS2.5 Time Setting – Checking and Setting Date

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
4.DMS time

2. Select 4. DMS2.5 Time by pressing [▲] and [▼] buttons.
 - ◆ Current set date of DMS2.5 will be displayed.

CURRENT DATE
1983:04:16

3. When 'CURRENT DATE' appears, set current data by pressing [Set] button.
 - ◆ Number to edit blinks.
 - ◆ You can change value by pressing [▲] and [▼] buttons. To move to the next number, press [Set] button.
 - ◆ Press and hold [▲], [▼] buttons to change the number continuously.
 - ◆ Set year, month and day in order, and then press [Set] button to save.
 - ◆ To cancel the setting, press [Menu] button.

|| DMS2.5 Time Setting – Checking and Setting Time

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
4.DMS time

2. Select 4. DMS2.5 Time by pressing [▲] and [▼] buttons.

◆ Current set time of DMS2.5 will be displayed.

CURRENT TIME
16:46:37(PM)

3. Select 'CURRENT TIME' by pressing [▼] button. Then set time by pressing [Set] button.

- ◆ Current set time of DMS2.5 will be displayed.
- ◆ Number to edit blinks.
- ◆ You can change value by pressing [▲] and [▼] buttons. To move to the next number, press [Set] button.
- ◆ Press and hold [▲], [▼] buttons to change the number continuously.
- ◆ Set hour, minute and second in order, then press [Set] button to save.
- ◆ To cancel the setting, press [Menu] button.

Data Backup Setting

Data Backup

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
5.Data Backup

2. Select 5.Data Backup by pressing [▲] and [▼] buttons.
 - ◆ DMS BACKUP MENU will appear.

DMS BACKUP MENU
data backup

3. Check if data backup is selected. Then press [Set] button.
 - ◆ You can start backup by pressing [Set] button again.
 - ◆ If data backup is completed successfully, screen below will be displayed.

Backup Completed

- ◆ To cancel backup, press [Menu] button.

Are you sure?
YES:Set, NO:Menu



CAUTION

- ◆ **Before executing data backup, check if SD card is inserted.**
- ◆ **Unlock forbidding writing tab of SD card.**

|| Data Restore

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
5.Data Backup

2. Select 5.Data Backup by pressing [▲] and [▼] buttons, and then press [Set] button.
 - ◆ DMS BACKUP MENU will appear.

DMS BACKUP MENU
data restore

3. Check if data restore is selected by pressing [▲] button. Then select a file you want to restore by pressing [▲] and [▼] buttons.
 - ◆ Before executing data restore, check if SD card is inserted.

Filename:
20090725.dms

4. Start data restore by pressing [Set] button.
 - ◆ To cancel restoration, press [Menu] button.



- ◆ **When controlling DMS2.5 using panel, data restore is only possible in SD card. You can execute PC restoration through web browser.**
- ◆ **Unlock forbidding writing tab of SD card.**

Checking Error Information

Checking Error Information

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
7.Error Status

2. Select 7. Error Status by pressing [▲] and [▼] buttons, and then press [Set] button.
 - ◆ Unsolved error info will be displayed.

ERROR INFO >
CAU-01 611

3. You can check the other error information by pressing [▲] and [▼] buttons.
 - ◆ You can check the next error information by pressing [▼]. To check the previous error, press [▲] button.

Reset Password

Reset Password

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
8.Password Reset

2. Select 8.Password Reset by pressing [▲] and [▼] buttons, and then press [Set] button.

RESET PASSWORD
WAITING.....

3. When "RESET PASSWORD WAITING....." message appears, press [Menu] and [Set] buttons at the same time.
 - ◆ Button lock function will be released and confirm message for password initialization will appear.
 - ◆ If there is no button input for around 3 seconds, password reset will be failed and it will return to main menu.

Are you sure?
YES:Set, NO:Menu

4. Reset password by pressing [Set] button.
 - ◆ Password will be reset as factory setting. (ac0530)
 - ◆ To cancel reset password, press [Menu] button.

Note ◆ If you reset the password while you are accessed to the DMS2.5 web page, you must close the browser and then re-login in order to use resetted password.

Button Lock

■ Button Lock

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
9.Button Lock

2. Select 9.Button Lock by pressing [▲] and [▼] buttons.

Are you sure?
YES:Set, NO:Menu

3. Press [Set] button.
 - ◆ Confirm message will appear.

BUTTON LOCKED
07:30:21(AM)

4. Press [Set] button.
 - ◆ LCD operating button will be locked.
 - ◆ To cancel button lock, press [Menu] button.
5. To release button lock function, press [Menu] and [Set] button at the same time for 5 seconds.

Safety Halt

Safety Halt

192.168.0.100
06:12:13(AM)

1. Check main menus by pressing [Menu], [▲], [▼] or [Set] button.

MAIN MENU
10.Safety Halt

2. Select 10.Safety Halt by pressing [▲] and [▼] buttons.

Are you sure?
YES:Set, NO:Menu

3. Press [Set] button.
 - ◆ Confirm message will appear.

Now sleeping..
See you again

4. Press [Set] button.
 - ◆ All functions of DMS2.5 will stop and 'Now Sleeping..' phrase will appear.

- Note**
- ◆ *Safety halt function is an operation that saves data of DMS2.5 and then stops service safely. Use this function when relocation and system restart are needed.*
 - ◆ *This function will not transfer DMS2.5 power to OFF status. Therefore, when the screen above appears, press [RESET] button on the bottom of DMS2.5 or remove power cable. If you do not press [RESET] button or remove power after 1 minutes passed, DMS2.5 will restart automatically.*

Troubleshooting

| Problem | Check | Solution |
|---|---|--|
| DMS2.5 is not working. | Is there an electricity failure? | Check if the power is connected to the other interface module besides OnOff controller. Then try again. |
| | Isn't there a communication error in the other interface module besides OnOff controller? | Check the connection of communication cable. Then try again. |
| | Are the adapter and power cable connected? | Check the connection of adapter and power cable. Then try again. |
| Access to web page is not available. | Is Microsoft Silverlight installed? | Check the installation status. Refer to Start → Control Panel → Add/Remove Programs. |
| | Is Microsoft Silverlight installed properly? | Microsoft Silverlight 2.0 or later version should be installed to access web page. |
| Access to web page from outside is not available. | Are the network settings set? | Contact network manager first. |
| | Isn't the fire wall set? | |
| Power distribution is not executed properly. | Isn't the power of DMS2.5 disconnected? | To use power distribution function properly, the power of DMS2.5 should be connected all the time. |

| Problem | Check | Solution |
|---|--|--|
| I forgot DMS2.5 IP. | Press [Menu] button from the main menu and "1. IP Config" will appear. Then press [Set] button. | The factory setting of DMS2.5 IP address is 192.168.0.100 |
| Indoor unit turned on or off automatically. | Isn't the schedule control in operation? | Depending on the schedule control, indoor unit can be turned on or off automatically. It is normal operation. |
| | Is DMS2.5 system time different from current time? | Set the DMS2.5 system time according to current time. |
| DI(Digital Input) external contact point function is not working. | Is the external circuit constituted? | Check if the external circuit is constituted. |
| | If the contact control pattern of DMS2.5 set to 1? | Set the pattern which fits to the control pattern you want. |
| Tracking is not working. | Does it show 'Tracking Fail' and is there no indoor unit? | It means tracking failure. Execute tracking again. |

Specifications

| Items | Description | |
|----------------|---|--------------------------------------|
| Exterior |  | |
| Size | 240 X 255 X 64.8 mm (Width X Length X Height) | |
| Weight | 1.48 Kg | |
| Power | Source | DC ADAPTOR |
| | INPUT Voltage | 100-240V 50/60Hz 1.0A |
| | OUTPUT Voltage | 12V 3A |
| Inter- face | RS-485 | 5 Channels |
| | Ethernet | 10/100Mbps 1 Port |
| | SD CARD | Option (Purchase SD card separately) |
| | DI | 12V Digital Input 10 Channels |
| | DO | 12V Digital Output 8 Channels |
| | Etc. | Serial Port, Reset Button |
| Display | 16-Character X 2-Line Character LCD | |
| Input method | Menu/Up/Down/Set 4-Tact Button | |

License

Open Source Announcement

The software included in this product contains open source software. You may obtain the complete corresponding source code for a period of three years after the last shipment of this product by sending an email to <mailto:oss.request@samsung.com>.

It is also possible to obtain the complete corresponding source code in a physical medium such as a CD-ROM; a minimal charge will be required.

The following URL http://opensource.samsung.com/opensource/DMS2_5/seq/1 leads to the download page of the source code made available and open source license information as related to this product. This offer is valid to anyone in receipt of this information.





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