



DMS Cloud

# User Manual

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The illustrations and the screens shown in this guide are for your reference. The actual content and available functions may vary by the connected devices and the product supplied for your region.

# Table of Contents

|   |          |
|---|----------|
| <b>Copyright</b> .....                                    | <b>i</b> |
| <b>Introduction</b> .....                                 | <b>1</b> |
| System requirements .....                                 | 1        |
| <b>Initial Setup</b> .....                                | <b>2</b> |
| Configuring Settings (For Projectors Only).....           | 2        |
| <b>Using DMS Cloud</b> .....                              | <b>3</b> |
| Logging in to DMS Cloud.....                              | 3        |
| The DMS Cloud Main Page.....                              | 4        |
| Switching Companies .....                                 | 6        |
| Adding Devices .....                                      | 7        |
| Uploading Device Information.....                         | 7        |
| Adding Devices in DMS Cloud.....                          | 7        |
| Adding Devices via the BenQ DMS Tool App.....             | 9        |
| Managing Your Devices.....                                | 10       |
| Creating Groups.....                                      | 10       |
| Renaming a Device .....                                   | 12       |
| Deleting a Device .....                                   | 12       |
| Device Tree Icons .....                                   | 13       |
| Status Icons .....  | 13       |
| Monitoring Your Devices .....                             | 14       |
| The Device Panel.....                                     | 14       |
| The Information Tab.....                                  | 16       |
| Controlling Your Devices.....                             | 18       |
| The Control Tab (Single BenQ Display) .....               | 19       |
| The Control Tab (Single BenQ Projector).....              | 20       |
| The Control Tab (Single Non-BenQ Projector) .....         | 21       |
| The Control Tab (Multiple Devices).....                   | 21       |
| Quick Settings .....                                      | 22       |
| Direct Command Input (for Displays Only) .....            | 23       |
| Scheduling Your Device to Automatically Power On/Off..... | 27       |
| Editing a Scheduled Power On/Off.....                     | 29       |
| Resetting (Deleting) a Scheduled Power On/Off.....        | 29       |

|   |           |
|---|-----------|
| The App List Tab .....                                    | 30        |
| Viewing Installed Apps .....                              | 30        |
| Installing an App .....                                   | 31        |
| Uninstalling an App.....                                  | 33        |
| Updating an App.....                                      | 34        |
| Updating the Android Operating System on your Device..... | 35        |
| Changing Your DMS Cloud Password .....                    | 39        |
| Other Functions .....                                     | 40        |
| Viewing DMS Cloud Activity Logs .....                     | 40        |
| Viewing Usage Data for Devices .....                      | 40        |
| Software Management.....                                  | 42        |
| Adding or Updating an App to the DMS Cloud Database.....  | 44        |
| Deleting Apps from the DMS Cloud Database.....            | 45        |
| Installing Apps onto a Device from the App List .....     | 46        |
| Editing App Descriptions .....                            | 47        |
| Accessing Older Versions of an App.....                   | 47        |
| <b>About DMS Cloud .....</b>                              | <b>48</b> |
| <b>Troubleshooting .....</b>                              | <b>49</b> |
| Network Whitelist.....                                    | 50        |

# Introduction

DMS Cloud is a cloud-based tool for computers that enables remote and centralized management of multiple digital projectors and/or displays by IT administrators/technicians via the cloud. DMS Cloud's management capabilities include the ability to remotely monitor, control, and configure projectors/displays individually or as groups.

DMS Cloud is designed for use in settings where multiple devices are spread out across various spaces and, as a result, needs a cloud-based portal to manage and monitor each device remotely, for example a multi-floored office building or a school with multiple classrooms.

## System requirements

To use DMS Cloud, a computer must meet the following minimum hardware and software requirements.

|                           |   |
|---------------------------|---|
| <b>CPU</b>                | 1.8GHz  |
| <b>Free memory</b>        | 8 GB  |
| <b>Display Resolution</b> | 1024x768 or higher  |
| <b>Browser</b>            | <ul style="list-style-type: none"><li>• Chrome version 75.0.3770 or higher</li><li>• Firefox version 70.0</li></ul>  DMS Cloud does not support the use of Microsoft Internet Explorer, Microsoft Edge or any other web browser. |
| <b>Other</b>              | Internet access   |

For a device to support management via DMS Cloud, the device must feature the following item:

- An RJ-45 Ethernet port with LAN control functionality

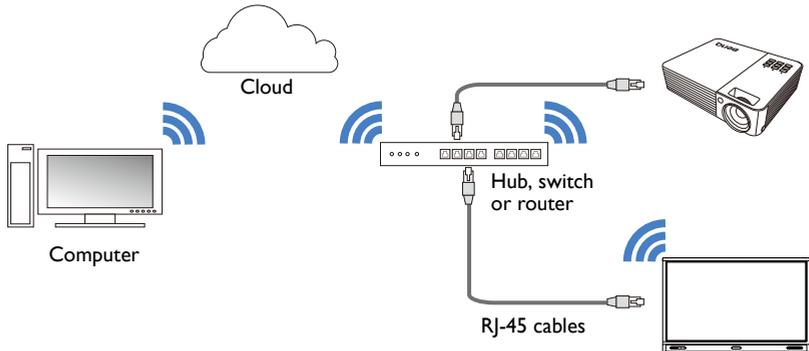


DMS Cloud also supports non-BenQ projectors that utilize the PJLink protocol.

## Initial Setup

Before you can properly use DMS Cloud to manage your device(s), the following setup procedures must be completed:

- Connect the devices to a network with Internet access
- Ensure the computer using DMS Cloud is connected to a network with Internet access
- Configure device settings



- For details on the location of ports and connectors, please refer to the documentations for the computer and devices.
- [For Projectors only]: Ensure that the IP address for each projector is properly set and that the IP address is shown on the OSD menu of the projector. You may need to contact your network administrator for assistance in setting the projectors' IP addresses.

## Configuring Settings (For Projectors Only)

For DMS Cloud to be able to access a projector while it is in standby mode, the settings on the projector must be pre-configured by your IT administrator to ensure that the **Enable Network Standby Mode** setting in the projector's setting menu is set to **On**.



- For BenQ projectors, this setting can be found in either the **System > Standby Settings > Network** or **Advanced > Standby Settings > Network** menu.
- For non-BenQ projectors, refer to the documentation for the device.
- For certain projectors, "Monitor Out" should be enabled in the standby settings menu to ensure that the projector is accessible while in standby mode. Please refer to your projector's user manual for details.

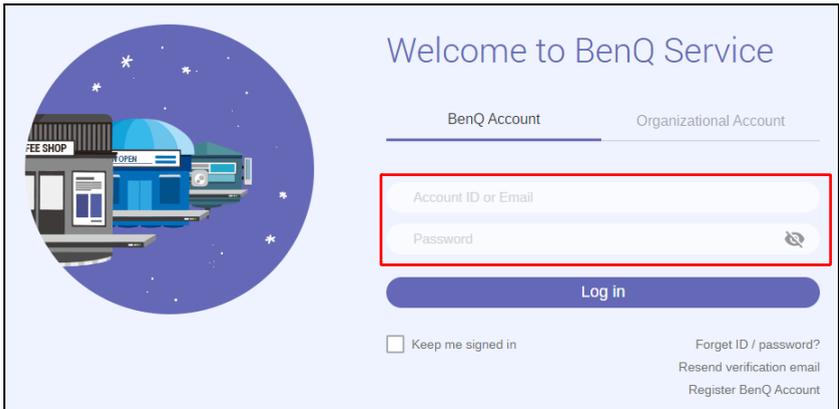
# Using DMS Cloud

## Logging in to DMS Cloud

Once you have completed the steps described in [Initial Setup](#), you can begin using DMS Cloud by opening the following URL in your browser:

<http://dms.benq.com>

After opening the DMS Cloud website, log in using the account ID/E-mail and password provided by your system administrator.



Welcome to BenQ Service

BenQ Account      Organizational Account

Account ID or Email

Password

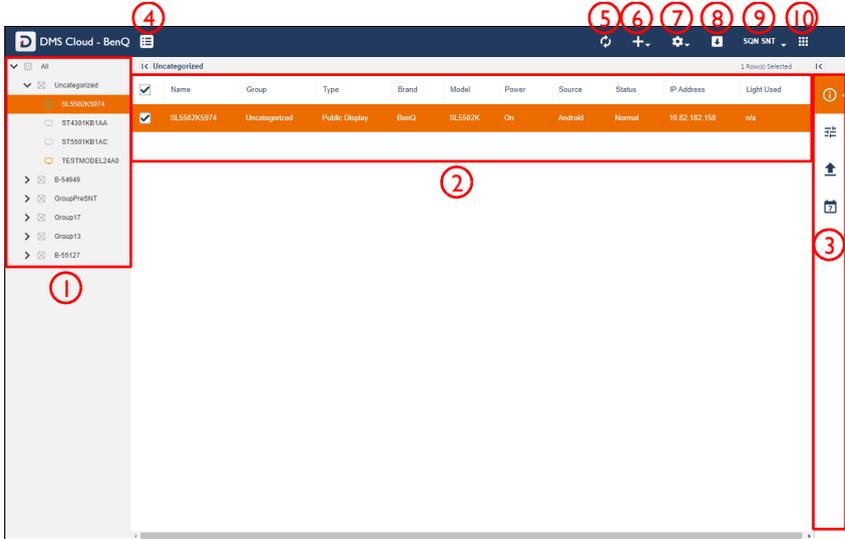
Log in

Keep me signed in

[Forget ID / password?](#)  
[Resend verification email](#)  
[Register BenQ Account](#)

## The DMS Cloud Main Page

Once you have logged in, the main page for DMS Cloud will be shown. The following items are featured on the DMS Cloud main page.



The illustrations and the screens shown in this guide are for your reference. The actual content and available functions may vary by the connected devices and the product supplied for your region.

| No. | Item         | Description   |
|-----|--------------|---|
| 1   | Device Tree  | Shows all the devices and device groups managed by DMS Cloud in a tree-view structure.<br>See <a href="#">Adding Devices</a> for more information on the adding devices to the device tree.<br>See <a href="#">Device Tree Icons</a> for more information on the status icons shown in the device tree. |
| 2   | Device Panel | Shows status information for the device(s) or device groups selected in the device tree.<br>See <a href="#">The Device Panel</a> for more information on the various fields featured in the device panel.   |

| No. | Item  | Description   |
|-----|---|---|
| 3   | Action Panel  | <p>Provides various tools that allow you to further manage/monitor devices and device groups, including the information tab () , control tab () , and the schedule tab () .</p> <p>For certain devices, an apps list tab () is also available in the Action Panel.</p> <p>See <a href="#">The Information Tab</a>, <a href="#">Controlling Your Devices</a>, <a href="#">Scheduling Your Device to Automatically Power On/Off</a>, or <a href="#">The App List Tab</a> for more information on each tab in the Action Panel.</p> <p> The action panel only appears when a device or device group is selected in the device panel. The information tab only appears when a single device is selected in the device panel.</p> |
| 4   | Select Company         | <p>Click to switch over to a different company's set of devices to be managed by the same DMS Cloud account.</p> <p>See <a href="#">Switching Companies</a> for more information.</p> <p> Only accounts which have activated multi-company functionality will be able to access this feature.</p>  |
| 5   | Refresh                | <p>Click to refresh the status of the devices shown on the main page.</p> <p> DMS Cloud will automatically refresh the device status after a given interval of time. The refresh button is to allow users to get the most up-to-date information at any given time.</p>  |
| 6   | Add                   | <p>Click to add devices to the DMS Cloud management system, or to create groups for better organization in the device tree.</p> <p>See <a href="#">Adding Devices</a> for more information on adding devices and device groups.</p>   |
| 7   | Settings             | <p>Click to access various system management functions for administrators, such as viewing device status reports/logs, and more.</p> <p>See <a href="#">Other Functions</a> for more information on the system management functions available for the Settings button.</p>  |
| 8   | Software Management  | <p>Click to open the <b>Software Management</b> interface to manage the database of apps available in DMS Cloud.</p> <p>See <a href="#">Software Management</a> for more information on the <b>Software Management</b> interface.</p>   |
| 9   | User  | <p>Click to edit selected account information and/or change your login password.</p> <p>See <a href="#">Changing Your DMS Cloud Password</a> for more information on setting up a login password.</p>   |

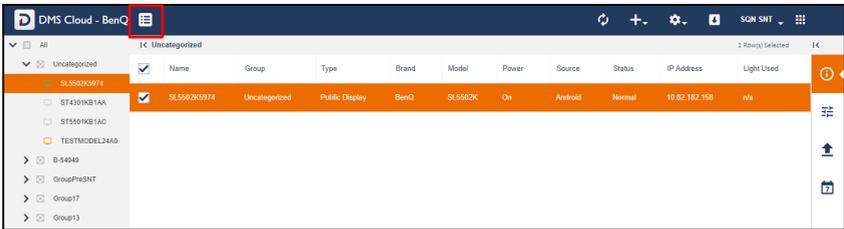
| No. | Item   | Description  |
|-----|--|--|
| 10  |  Other Services | Click to switch to another BenQ cloud-based service. |

## Switching Companies

For System Integrators (SI) who may be responsible for the operations of more than one company's system, the Select Company button  on the top toolbar allows the user to easily switch between the companies administered by the same login account.

To switch companies:

1. Click the Select Company button.



2. Select the company you want to switch to.



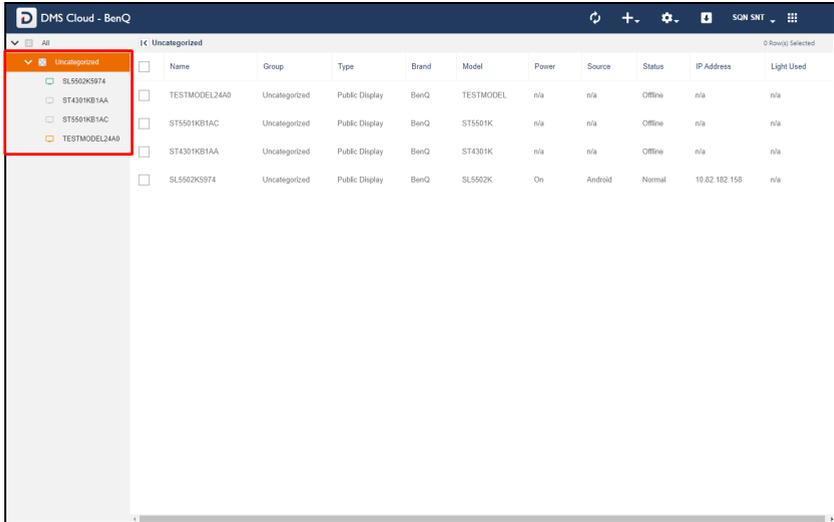






## Managing Your Devices

Once you have added the device(s) into the DMS Cloud system, the devices will appear in the device tree on the main page. Initially all newly added device will be listed in the **Uncategorized** group of devices.



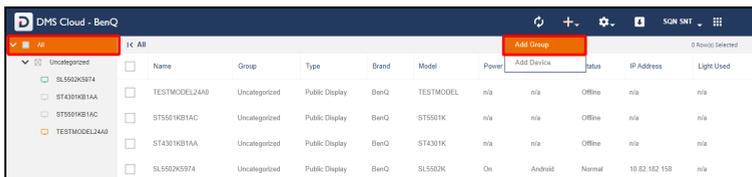
To help you better organize and identify your devices, DMS Cloud features the following options:

- Create Device Groups
- Rename Devices
- Delete Devices

## Creating Groups

In instances where DMS Cloud is used to manage a large number of devices spread out over various spaces, organizing devices into groups may be useful to manage your devices. To create a device group, follow the steps below:

1. Select the **All** category in the device tree, then click the add button (**+ -**) and select **Add Group**.



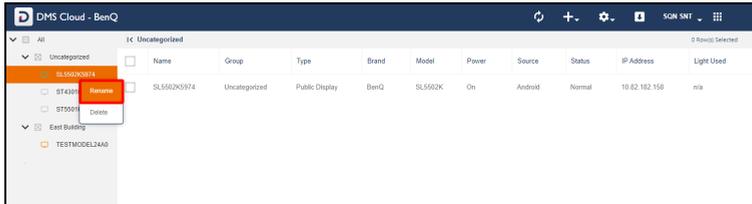
- To create a sub-group, select the group in the device tree that you want to create the sub-group in and then follow the steps in this section.
- A group cannot be created within the **Uncategorized** group in the device tree.



## Renaming a Device

As described in [Adding Devices](#), the **Add new device** menu allows you to rename a device while adding it to DMS Cloud. In instances where a device is not renamed while it is being added to DMS Cloud, the device will be added using its default name (the IP address for the device followed by the device's model number). You can then rename a device to a more easily identifiable name at any time by following the steps below:

1. Right-click on the device you want to rename in the device tree, and then select **Rename**.



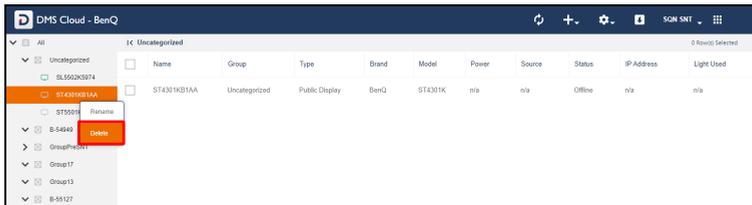
2. In the **Rename** menu, enter the new name and then click **Rename**.

**Rename**

Please enter the new name for "ST4301KB1AA"

## Deleting a Device

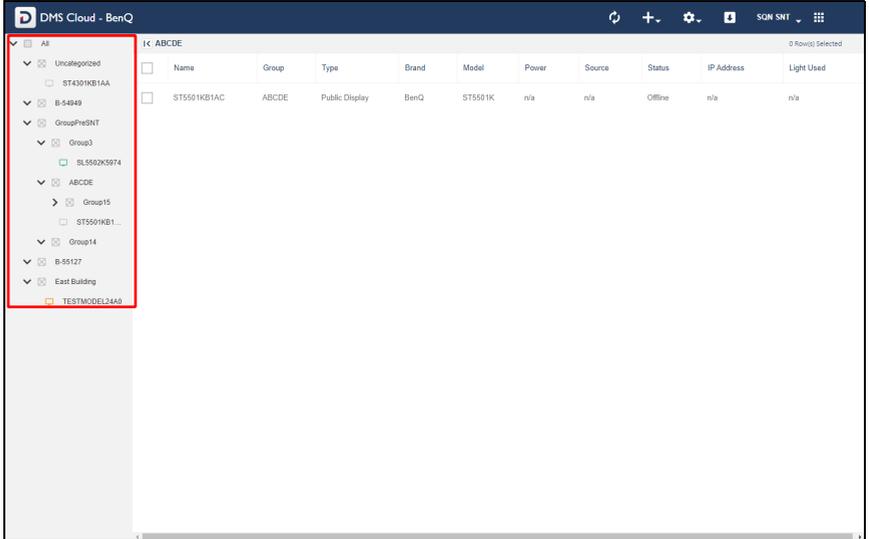
To delete a device from the device tree, right-click on the device you want to delete in the device tree, and then select **Delete**.



Deleting a device not only removes the device from your device tree, but also deletes the device listing from the entire DMS Cloud database, preventing other users from accessing the device. Before deleting a device, ensure that the device is not used by any other user in your network.

## Device Tree Icons

As described earlier, the device tree lists all devices managed by DMS Cloud in a hierarchical, tree-view structure. The device tree also shows various icons that allow you to quickly view the current status of all devices and whether or not there are any errors causing the device to malfunction.



## Status Icons

Icons that indicate the current status of each device appears to the left of the device's name in the device tree. Icons that indicate errors for a device appears to the right of the device's name in the device tree. The table below provides descriptions of each icon.

| Icon  | Status  | Description   |
|---|---------|---|
|  | Online  | The device is powered on.   |
|  | Standby | The device is in standby mode.  |
|  | Offline | The device is undetected by DMS Cloud.<br>This status usually indicates a problem with the device's connection to the network or with the network itself, in such instances it is suggested that you check the device's connection. |

## Monitoring Your Devices

Beyond the status icons shown in the device tree, DMS Cloud features the device panel to monitor the status of your device and the information tab to view detailed information for each device, both of which are described in the sections below.

### The Device Panel

When either an individual device or a device group is selected in the device tree, the device panel of the DMS Cloud main page will show in-depth status information for the selected device or the devices in the selected group.

| Name          | Group         | Type           | Brand | Model     | Power | Source  | Status  | IP Address    | Light Used |
|---------------|---------------|----------------|-------|-----------|-------|---------|---------|---------------|------------|
| TESTMODEL2440 | Uncategorized | Public Display | BenQ  | TESTMODEL | n/a   | n/a     | Offline | n/a           | n/a        |
| ST4301KB1AA   | Uncategorized | Public Display | BenQ  | ST4301K   | n/a   | n/a     | Offline | n/a           | n/a        |
| SL550K5974    | Uncategorized | Public Display | BenQ  | SL550K    | On    | Android | Normal  | 10.02.102.158 | n/a        |

The table below describes the information featured in the device panel.

| Item              | Description   |
|-------------------|---|
| <b>Name</b>       | Name of the device.   |
| <b>Group</b>      | Group that the device belongs to.   |
| <b>Type</b>       | Type of device, projector, or public display.   |
| <b>Brand</b>      | Brand of the device.  |
| <b>Model</b>      | Model name for device.  |
| <b>Power</b>      | Current power status of the device.<br>See <a href="#">Power</a> for definitions of the various power statuses. |
| <b>Source</b>     | Current signal source for the device.   |
| <b>Status</b>     | Current operating status of the device.<br>See <a href="#">Status</a> for definitions of the various statuses.  |
| <b>IP Address</b> | IP address for the device.  |

| Item                 | Description  |
|----------------------|--|
| <b>Light Used*</b>   | The cumulative hours the light has been used.        |
| <b>Light 2 Used*</b> | The cumulative hours the second light has been used. |
| *For projectors only |  |

## Power

The **Power** column in the device panel shows the current power status of the device(s). The following table defines the various power statuses available in the device panel.

| Power Status   | Description   |
|----------------|---|
| <b>On</b>      | The device is powered on.   |
| <b>Standby</b> | The device is in standby mode.  |
| <b>N/A</b>     | The device is undetected by DMS Cloud.<br>This status usually indicates a problem with the device's connection to the network or with the network itself, in such instances it is suggested that you check the device's connection. |

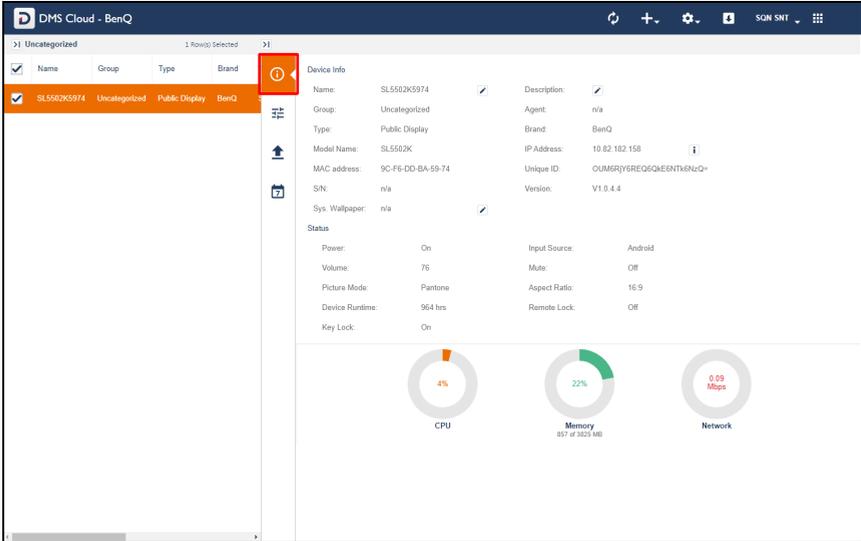
## Status

The **Status** column in the device panel shows the current operating status of the device(s). The following table defines the various statuses available in the device panel.

| Status         | Description   |
|----------------|---|
| <b>Normal</b>  | The device is operating normally.   |
| <b>N/A</b>     | <ul style="list-style-type: none"> <li>• The device does not support the transmission of error messages over the network.</li> <li>• The device is in standby mode.</li> </ul>  |
| <b>Offline</b> | The device is undetected by DMS Cloud.<br>This status usually indicates a problem with the device's connection to the network or with the network itself, in such instances it is suggested that you check the device's connection. |

## The Information Tab

The information tab of DMS Cloud shows detailed information for a device and is only accessible when a single device is selected in the device panel and the information button in the action panel is clicked.



The table below describes the detailed information featured in the information tab.

| Item                    | Description  |
|-------------------------|--|
| <b>Name</b>             | Name of the device. Click the edit button  to change the device name.               |
| <b>Description</b>      | Brief description of the device. Click the edit button  to change the description. |
| <b>Group</b>            | Group that the device belongs to.  |
| <b>Agent</b>            | Agent ID for user that added the device via DMS Local Agent Mode.  |
| <b>Type<sup>1</sup></b> | Describes the type of device/display (e.g. public display or projector).   |
| <b>Brand</b>            | Brand of the device.   |
| <b>Model Name</b>       | Model name for device.   |
| <b>IP Address</b>       | IP address for the device.   |
| <b>MAC Address</b>      | MAC address for the device.  |
| <b>Unique ID</b>        | Unique ID number for the device added via the DMS Client app or DMS Local Agent Mode.  |
| <b>S/N</b>              | Serial number for the device.  |
| <b>Version</b>          | Indicates the firmware version installed on the display.   |

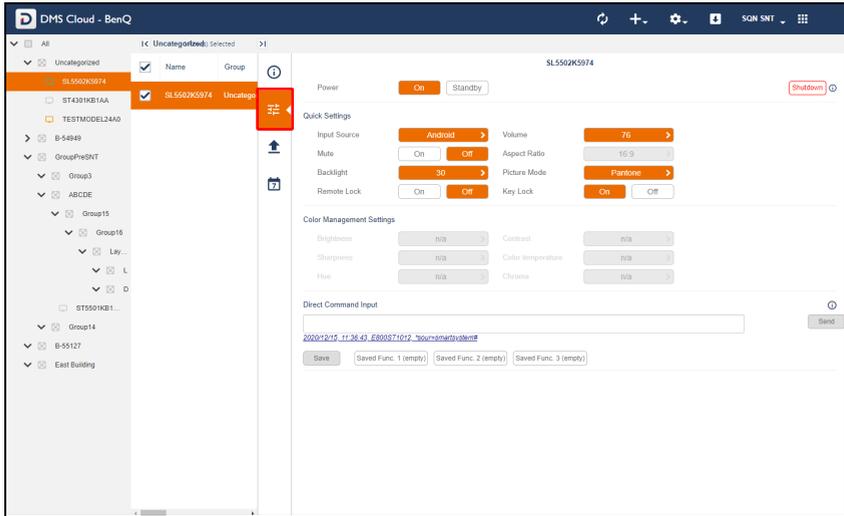
| Item                                | Description  |
|-------------------------------------|--|
| <b>Sys. Wallpaper<sup>3</sup></b>   | Click the edit button  to select an image file as the pre-login wallpaper for the device. |
| <b>Power</b>                        | Current power status of the device.<br>See <a href="#">Power</a> for definitions of the various power statuses.  |
| <b>Input Source</b>                 | Current signal source for the device.  |
| <b>Blank<sup>2</sup></b>            | Indicates whether the blank screen function for the device is on or off.   |
| <b>Volume</b>                       | Current volume level for the device.   |
| <b>Mute</b>                         | Current mute status for the device.  |
| <b>Picture Mode</b>                 | Current picture mode setting for the device.   |
| <b>Light Mode<sup>2</sup></b>       | Current light mode setting for the projector.  |
| <b>Aspect Ratio</b>                 | Current aspect ratio for the device.   |
| <b>Device Runtime<sup>1</sup></b>   | Current operating time for the display (in hours).   |
| <b>Remote Lock<sup>1</sup></b>      | Current remote control lock status for the display.  |
| <b>Key Lock<sup>1</sup></b>         | Current keypad lock status for the display.  |
| <b>Thermal Level<sup>2</sup></b>    | Current thermal level for the projector.   |
| <b>Light Used<sup>2</sup></b>       | The cumulative hours the light has been used.  |
| <b>Light 2 Used<sup>2</sup></b>     | The cumulative hours the 2nd light has been used.  |
| <b>High Altitude<sup>2</sup></b>    | Indicates whether the high altitude configuration is on or off.  |
| <b>Filter Usage<sup>2</sup></b>     | Current filter used for the projector.   |
| <b>Hardware Status</b>              | Indicates the usage/performance levels for the device's CPU, memory, and network connection.   |
| <sup>1</sup> For displays only      |  |
| <sup>2</sup> For projectors only    |  |
| <sup>3</sup> For select models only |  |



- The fields displayed in the information tab may vary depending on the model selected.
- If the projector does not support the transmission of a certain field's information over the network, the field will show "N/A".
- For non-BenQ projectors, only the following fields will display information: **Name**, **Group**, **Brand**, **Model**, **Power**, and **IP Address**. All other fields will show "N/A"

## Controlling Your Devices

The control tab of DMS Cloud features a panel of functions that allows you to control an individual device or an entire group when they are selected in the device panel and the control button in the action panel is clicked. The control tab also allows users to enter and save control command codes using the BenQ protocol (for BenQ devices), the PJLink protocol or self-input via the protocol port (for non-BenQ projectors) to create custom controls for the device.



When DMS Cloud detects a problem with the device's connection to the network, all the buttons and fields in the control tab will be greyed out.

The control tab will show different control items depending on what type of selection is made in the device panel. The possible selections include the following:

- A single BenQ display
- A single BenQ projector
- A single non-BenQ projector
- Multiple projectors in a group
- Multiple displays in a group

The sections below describe the control panel for each of the items above.

## The Control Tab (Single BenQ Display)

When a single BenQ display is selected in the device panel, the control tab features the following items:

The screenshot shows the control interface for a BenQ display (model CP8601K278C). The interface is divided into several sections:

- Power:** Includes 'On', 'Standby', and 'Shutdown' buttons. Callout 1 points to the device ID 'CP8601K278C'.
- Quick Settings:** Contains controls for Input Source (Android), Volume (10), Mute (On/Off), Aspect Ratio (16:9), Backlight (100), Picture Mode (Standard), Remote Lock (On/Off), and Key Lock (On/Off). Callout 2 points to the Backlight control.
- Color Management Settings:** Contains controls for Brightness (50), Contrast (60), Sharpness (n/a), Color temperature (Normal), Hue (n/a), and Chroma (n/a). Callout 3 points to the Contrast control.
- WOL (Wake-on-LAN) Settings:** Includes a 'WOL' toggle switch (On/Off). Callout 4 points to the WOL toggle.
- Direct Command Input:** A text input field containing a URL, a 'Send' button, and 'Save' buttons for saved functions. Callout 5 points to the input field.

| No. | Item                             | Description   |
|-----|----------------------------------|---|
| 1   | <b>Power</b>                     | <p>Powers on the display, puts it in standby mode, or powers off (shuts down) the display.</p> <p> To power on the display via DMS Cloud, make sure that the <b>WOL (Wake-on-LAN) Settings</b> on the display is enabled and that the display is connected to the network via the LAN (RJ-45) port. Wake-on-LAN does not work over a Wi-Fi connection.</p> |
| 2   | <b>Quick Settings</b>            | <p>Features buttons and menus to control your display.</p> <p>See <a href="#">Quick Settings</a> for more information on the quick settings controls.</p>   |
| 3   | <b>Color Management Settings</b> | <p>Allows you to adjust image settings including <b>Brightness, Contrast, Sharpness, Color Temperature, Hue, and Chroma.</b></p> <p> Support for each image setting depends on model.</p>  |

| No. | Item                              | Description  |
|-----|-----------------------------------|--|
| 4   | <b>WOL (Wake-on-LAN) Settings</b> | <p>Allows the display to be able to be powered-on remotely from a shutdown state via the LAN port.</p> <p> The <b>WOL (Wake-on-LAN) Settings</b> option is only available for displays added to DMS Cloud via DMS Local's Agent Mode.</p> <p> The <b>WOL (Wake-on-LAN) Settings</b> function only works on displays that are connected to the network via their LAN (RJ-45) port and administered via DMS Local. Displays that are connected to the network via a Wi-Fi connection will not be able to use the <b>WOL (Wake-on-LAN) Settings</b> function.</p> |
| 5   | <b>Direct Command Input</b>       | <p>Send or save custom control command codes for the display using the BenQ protocol for display control.</p> <p>See <a href="#">Direct Command Input (for Displays Only)</a> for more information on the basic controls.</p>  |

## The Control Tab (Single BenQ Projector)

When a single BenQ projector is selected in the projector panel, the control tab features the following items:



| No. | Item                  | Description   |
|-----|-----------------------|---|
| 1   | <b>Power</b>          | Powers on the projector or puts it in standby mode.   |
| 2   | <b>Quick Settings</b> | <p>Features buttons and menus to control your projector.</p> <p>See <a href="#">Quick Settings</a> for more information on the quick settings controls.</p> |

## The Control Tab (Single Non-BenQ Projector)

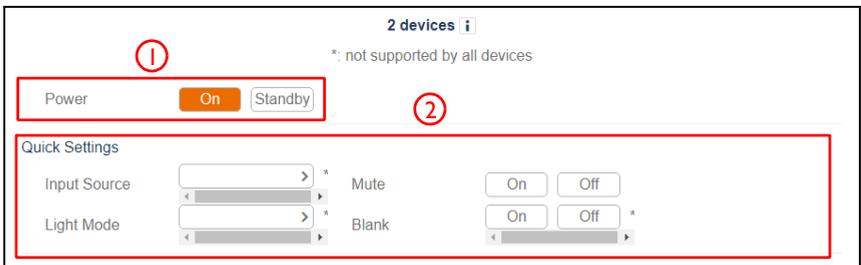
When a single non-BenQ projector is selected in the projector panel, the control tab features the following items:



| No. | Item         | Description   |
|-----|--------------|---|
| 1   | <b>Power</b> | Powers on the projector or puts it in standby mode via the PJLink protocol. |

## The Control Tab (Multiple Devices)

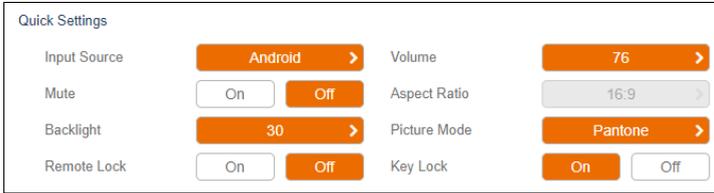
When multiple devices including both projectors and displays are selected in the device panel, the control tab features the following items:



| No. | Item                  | Description   |
|-----|-----------------------|---|
| 1   | <b>Power</b>          | <p>Powers on the devices, puts them in standby mode, or powers off (shuts down) the devices.</p> <p> To power on the display via DMS Cloud, make sure that the <b>WOL (Wake-on-LAN) Settings</b> on the display is enabled and that the display is connected to the network via the LAN (RJ-45) port. Wake-on-LAN does not work over a Wi-Fi connection.</p> |
| 2   | <b>Quick Settings</b> | <p>Features buttons and menus to control your device.</p> <p>See <a href="#">Quick Settings</a> for more information on the quick settings controls.</p> <p> Only functions supported by all devices in the group will be supported in the <b>Quick Settings</b> section. Functions that are not supported by all displays will show an asterisk (*).</p>    |

## Quick Settings

The quick settings section of the control tab features the following buttons and menus which help you control your device.



| Button                               | Description  |
|--------------------------------------|--|
| <b>Input Source</b>                  | Sets the input source for the device.                            |
| <b>Volume*</b>                       | Adjusts the audio volume.  |
| <b>Blank<sup>2</sup></b>             | Toggles a blank screen for the projector on or off.              |
| <b>Light Mode</b>                    | Select the light mode settings for the device.                   |
| <b>Mute</b>                          | Mutes or unmutes the audio output.                               |
| <b>Aspect Ratio*</b>                 | Sets the image aspect ratio for the device.                      |
| <b>Backlight<sup>1*</sup></b>        | Sets the brightness level of the backlight for the display.      |
| <b>Brightness<sup>2*</sup></b>       | Sets the brightness level for the projector.                     |
| <b>Picture Mode*</b>                 | Sets the picture mode for the device.                            |
| <b>Remote Lock<sup>1</sup></b>       | Enables/Disables the remote control lock.                        |
| <b>Key Lock<sup>1</sup></b>          | Enables/Disables the keypad lock.                                |
| <b>Network<sup>2*</sup></b>          | Enables/Disables the network function in standby mode.           |
| <b>Monitor Out<sup>2*</sup></b>      | Enables/Disables outputting the signal via the Monitor Out port. |
| <sup>1</sup> For displays only       |  |
| <sup>2</sup> For projectors only     |  |
| *Not available for multiple devices. |  |



- The fields displayed in the quick settings section may vary depending on the model selected.
- When the device is in standby mode, all fields in the quick settings section will be empty.
- When the device is powered on, the fields in the quick settings section will be set to the current configurations of the device.
- When DMS Cloud detects a problem with the device's connection to the network, the fields in the quick settings section will be greyed out.
- When the quick settings section is opened for multiple devices, both control fields and available options that are not supported by all devices will feature an asterisk (\*).

## Direct Command Input (for Displays Only)

The **Direct Command Input** section of the control tab allows you to create custom controls for your device using direct commands. For instance, you can create a command to have your device rotate its screen clockwise 90-degrees.



- Functions available to devices that support direct command controls and their corresponding commands vary by model. Check the specifications and user manual for your device for available functions and commands.
- Direct command controls can only be used on one device at a time.

The **Direct Command Input** section for a BenQ display is shown below:

The **Direct Command Input** section for a non-BenQ display is shown below:

## Creating a One-Time-Only Direct Command

To create a one-time-only direct command, follow the steps below:

1. For BenQ displays - Enter the direct command code in the **Direct Command Input** field.

For non-BenQ displays - Enter the direct command code in the **Direct Command Input** field and the TCP port for the projector in the **Port** field.



Commands for BenQ displays must be in ASCII format, while commands for non-BenQ displays must be in hexadecimal format. For more information on creating direct commands, see [Direct Command Help](#).

2. Click **Send** and wait for a confirmation that the command has been executed successfully.



To prevent quick changes to the device's state, the **Direct Command Input** will be grayed out while DMS Cloud is confirming whether the direct command is successful. Once the direct command has been confirmed or the confirmation process has timed out, the field will return to its normal state.

## Saving a Custom Direct Command Button

To save a direct command as a custom button, follow the steps below:

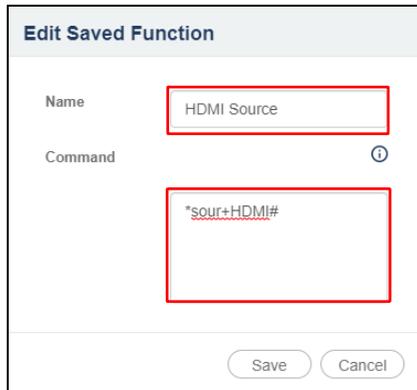
1. Click the button you want to customize in the direct command control section.



The direct command control section for BenQ devices features three direct command buttons available for customization, while the direct command control section for non-BenQ devices features 16 direct command buttons available for customization.

2. In the **Saved Func.** window, click the options button (  ) and select **Edit**.

- For BenQ devices - In the **Edit Saved Function** window enter a name for the button in the **Name** field and the direct command code in the **Command** field.



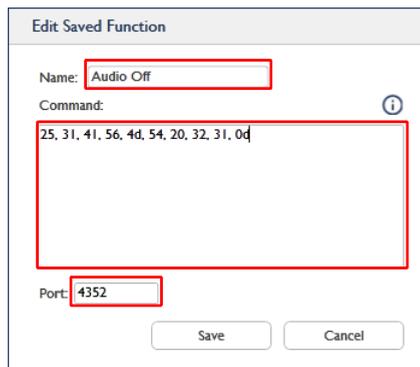
**Edit Saved Function**

Name: HDMI Source

Command: \*sour+HDMI#

Save Cancel

For non-BenQ projectors - In the **Edit Saved Function** window enter a name for the button in the **Name** field, the direct command code in the **Command** field, and the TCP port for the projector in the **Port** field.



**Edit Saved Function**

Name: Audio Off

Command: 25, 31, 41, 56, 4d, 54, 20, 32, 31, 0d

Port: 4352

Save Cancel

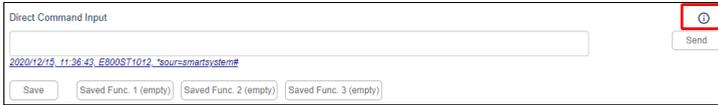


Commands for BenQ projectors must be in ASCII format, while commands for non-BenQ devices must be in hexadecimal format. For more information on creating direct commands, see [Direct Command Help](#).

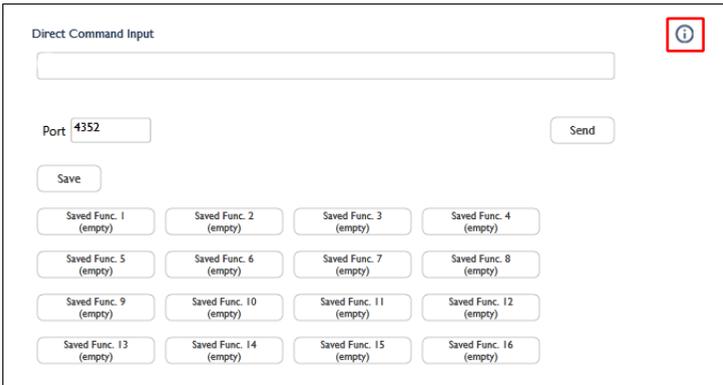
- Click **Save** in the **Edit Saved Function**, and your custom direct command button will appear in the direct command control section of the control panel, which you can click to send the command.

## Direct Command Help

If you need help with creating direct commands in DMS Cloud, you can click the help button  located in the direct command control section for guidelines on creating direct commands.



Direct Command Input



Direct Command Input

Port

|   |   |   |   |
|---|---|---|---|
| <input type="button" value="Saved Func. 1 (empty)"/>  | <input type="button" value="Saved Func. 2 (empty)"/>  | <input type="button" value="Saved Func. 3 (empty)"/>  | <input type="button" value="Saved Func. 4 (empty)"/>  |
| <input type="button" value="Saved Func. 5 (empty)"/>  | <input type="button" value="Saved Func. 6 (empty)"/>  | <input type="button" value="Saved Func. 7 (empty)"/>  | <input type="button" value="Saved Func. 8 (empty)"/>  |
| <input type="button" value="Saved Func. 9 (empty)"/>  | <input type="button" value="Saved Func. 10 (empty)"/> | <input type="button" value="Saved Func. 11 (empty)"/> | <input type="button" value="Saved Func. 12 (empty)"/> |
| <input type="button" value="Saved Func. 13 (empty)"/> | <input type="button" value="Saved Func. 14 (empty)"/> | <input type="button" value="Saved Func. 15 (empty)"/> | <input type="button" value="Saved Func. 16 (empty)"/> |

# Scheduling Your Device to Automatically Power On/Off

The schedule tab of DMS Cloud allows you to schedule a day and time for your device to power on or off automatically.

The screenshot shows the 'On-device Daily Scheduling' interface for device SL5502K5974. The table below represents the data shown in the interface:

| Enable                   | On  | Off | Input Source | Frequency | Edit/Reset  |
|--------------------------|-----|-----|--------------|-----------|---|
| <input type="checkbox"/> | n/a | n/a | VGA          | n/a       | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="checkbox"/> | n/a | n/a | No change    | n/a       | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="checkbox"/> | n/a | n/a | No change    | n/a       | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="checkbox"/> | n/a | n/a | No change    | n/a       | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="checkbox"/> | n/a | n/a | No change    | n/a       | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="checkbox"/> | n/a | n/a | No change    | n/a       | <input type="checkbox"/> <input type="checkbox"/> |
| <input type="checkbox"/> | n/a | n/a | No change    | n/a       | <input type="checkbox"/> <input type="checkbox"/> |



The schedule tab is not available for groups or multiple devices.

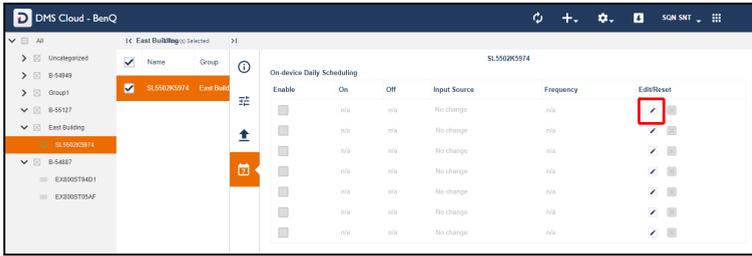
To schedule a day and time for your device to power on or off automatically:

1. Select the device(s) you want to automatically power on/off in the device panel and then click the schedule tab.

The screenshot shows the 'Device Panel' with the following table of devices:

| Name        | Group         | Type           | Brand | Model   | Power | Source  | Status | IP Address    | Light Used |
|-------------|---------------|----------------|-------|---------|-------|---------|--------|---------------|------------|
| SL5502K5974 | East Building | Public Display | BenQ  | SL5502K | On    | Android | Normal | 10.82.102.168 | n/a        |

- Choose one of the empty items in the schedule tab and click the Edit button .



The schedule tab is pre-configured with seven available schedule items for you to create schedules with. If you have already created schedules using all seven slots, you must override one of the existing items.

- Configure the following items in the **Edit on-device daily scheduling** menu:



- Check the box if you want your device to automatically power on at a given day and time, and then set the time when you want the device to power on.
  - Check the box if you want your device to automatically power off at a given day and time, and then set the time when you want the device to power off.
  - If you checked the **Power On** box, select the input source you want the device to power on to.
  - Select the frequency in which your device powers on/off. The available options are **Everyday**, **Weekday**, **Weekend**, or **Custom day**.
  - If **Custom day** is selected in the **Repeat** field, check the boxes next to the days in which you want your device to power on/off.
- Click the **Save** button to finish the scheduling process. By default the created task will automatically be enabled.

---

## Editing a Scheduled Power On/Off

To edit a scheduled power on/off:

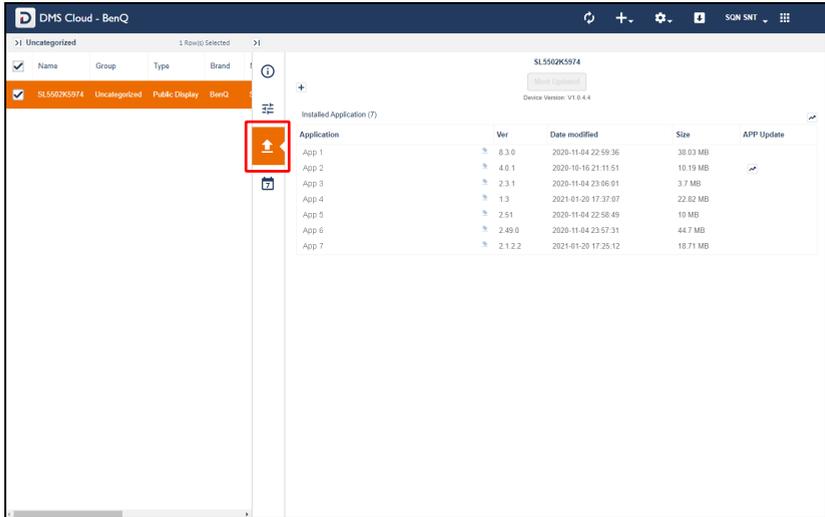
1. Click the edit button () for the item you want to edit in the schedule tab for the device.
2. Edit the items in the **Edit on-device daily scheduling** menu based on the descriptions in step 3 above.
3. Click the **Save** button to finish editing the scheduled task. The edited task will retain the enabled/disabled setting from before it was edited.

## Resetting (Deleting) a Scheduled Power On/Off

To reset (delete) a scheduled power on/off, click the reset button () for the item you want to reset in the schedule tab for the device. The schedule item will clear itself of the scheduling conditions and become disabled.

## The App List Tab

For certain devices with compatible Android operating systems, the Action Panel features an app list tab that allows you to view the apps installed on your devices, view each app's description, install and/or uninstall apps on your device, and update the device's Android operating system.



Support for the app list function depends on the version of the Android OS installed on your device. Not all devices with the Android OS will support the app list function.

## Viewing Installed Apps

After selecting the app list button (  ) in the Action Panel, the app list menu will appear displaying a list of the apps installed on your device as well as information such as version number, date modified, and file size for each app.

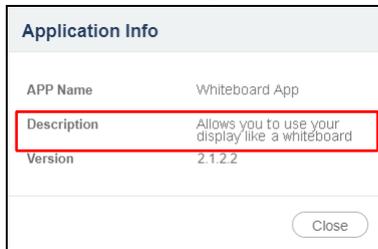


To view a detailed description for each app, select the tag button (  ) to the right of the app name.



| Application | Ver     | Date modified       | Size     | APP Update |
|-------------|---------|---------------------|----------|------------|
| App 1       | 8.3.0   | 2020-11-04 22:59:36 | 38.03 MB |            |
| App 2       | 4.0.1   | 2020-10-16 21:11:51 | 10.19 MB |            |
| App 3       | 2.3.1   | 2020-11-04 23:06:01 | 3.7 MB   |            |
| App 4       | 1.3     | 2021-01-20 17:37:07 | 22.82 MB |            |
| App 5       | 2.51    | 2020-11-04 22:58:49 | 10 MB    |            |
| App 6       | 2.49.0  | 2020-11-04 23:57:31 | 44.7 MB  |            |
| App 7       | 2.1.2.2 | 2021-01-20 17:25:12 | 18.71 MB |            |

Once selected, a window will pop up showing the app's description.



| Application Info                     |  |
|--------------------------------------|--|
| APP Name                             | Whiteboard App                                   |
| Description                          | Allows you to use your display like a whiteboard |
| Version                              | 2.1.2.2  |
| <input type="button" value="Close"/> |  |

## Installing an App

The app list tab allows you to install apps stored either locally as an APK file or in the DMS Cloud Software Management database onto your devices via DMS Cloud. See [Adding or Updating an App to the DMS Cloud Database](#) for more information on uploading apps into the Software Management database.



- DMS Cloud supports installing apps on devices that are currently offline. After you complete the installation process described below for an offline device, DMS Cloud will install the app once the device comes online. If the designated device does not come online within a span of a week, DMS Cloud will cancel the installation process.
- Support for the app depends on the compatibility of the app with the version of Android OS installed on your device. See [Software Management](#) for more information on managing and accessing older versions of stored apps in the Software Management database.

To install an APK app installation file:

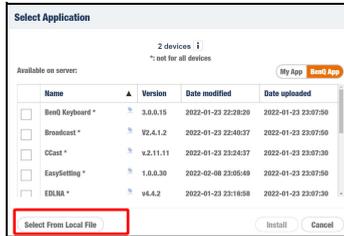
1. Click the install button (  ) in the app list.



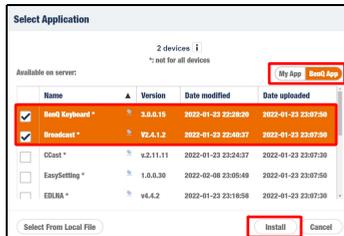
| Application | Ver     | Date modified       | Size     | APP Update |
|-------------|---------|---------------------|----------|------------|
| App 1       | 8.3.0   | 2020-11-04 22:59:36 | 38.03 MB |            |
| App 2       | 4.0.1   | 2020-10-16 21:11:51 | 10.19 MB |            |
| App 3       | 2.3.1   | 2020-11-04 23:06:01 | 3.7 MB   |            |
| App 4       | 1.3     | 2021-01-20 17:37:07 | 22.82 MB |            |
| App 5       | 2.51    | 2020-11-04 22:58:49 | 10 MB    |            |
| App 6       | 2.49.0  | 2020-11-04 23:57:31 | 44.7 MB  |            |
| App 7       | 2.1.2.2 | 2021-01-20 17:25:12 | 18.71 MB |            |

2. Choose one of the following options:

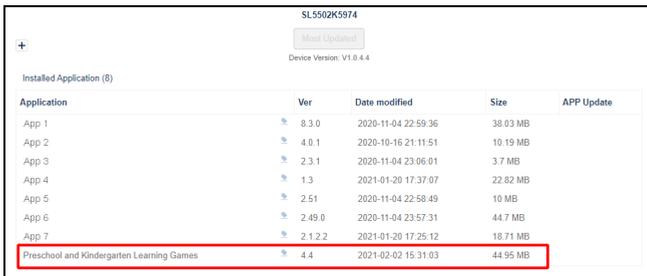
- To install an app stored locally as an APK file: click **Select From Local File**, and then navigate to the location of the APK file located on your computer.



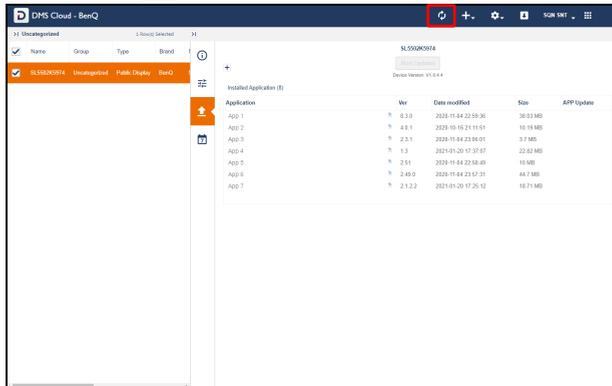
- To install apps from the Software Management database: first select the **My App** or **BenQ App** button and then select the apps you want to install in the **Available on server** list. Click the **Install** button to download the apps.



3. Once the installation has successfully finished, the newly installed app will appear in the app list for the device.



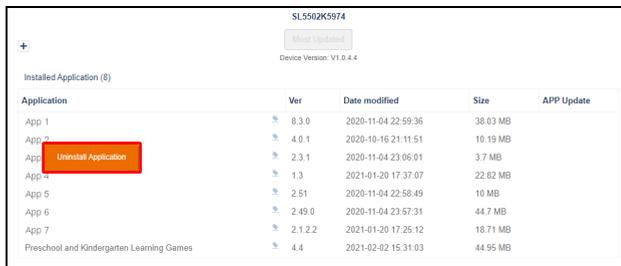
If the installed app does not appear shortly after the installation process is complete, select the refresh button (  ) in the DMS Cloud toolbar.



If the app in question does not appear in the app list even after refreshing DMS Cloud, there may be support issues for the app that resulted in a failed installation process. Support for the app depends on the compatibility of the app with the version of Android OS installed on your device.

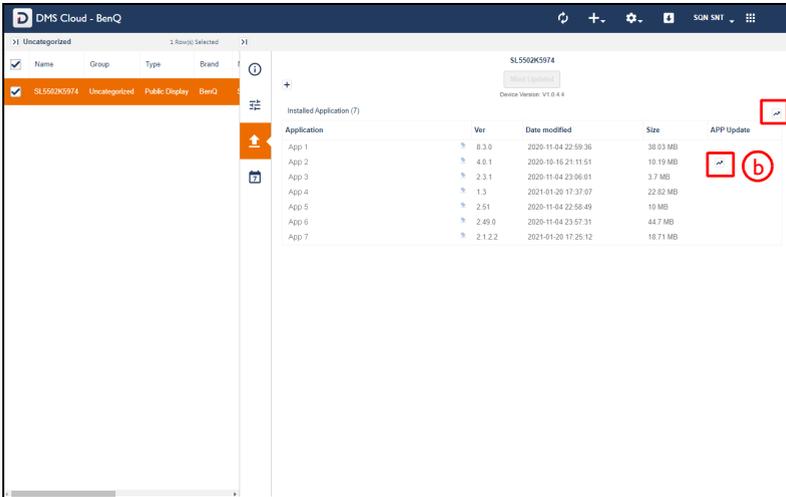
## Uninstalling an App

To uninstall an app in the app list, right-click on the app you want to uninstall and then select **Uninstall Application**.



## Updating an App

To update the apps in the app list, click the update button (  ) to update all apps or an individual app.



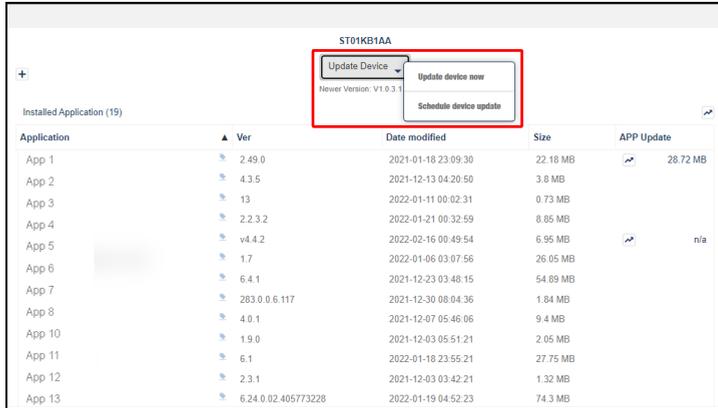
The screenshot shows the DMS Cloud interface for a device named 'SL5502K5974'. The interface displays a list of installed applications with columns for Application, Ver, Date modified, Size, and APP Update. The APP Update column contains update icons for each application. Two red boxes with letters 'a' and 'b' highlight these icons. Box 'a' highlights the update icon for the entire list, and box 'b' highlights the update icon for a specific application (App 2).

| Application | Ver     | Date modified       | Size     | APP Update  |
|-------------|---------|---------------------|----------|---|
| App 1       | 8.3.0   | 2020-11-04 22:59:36 | 38.03 MB |  |
| App 2       | 4.0.1   | 2020-10-10 21:11:51 | 10.19 MB |  |
| App 3       | 2.3.1   | 2020-11-04 23:06:01 | 3.7 MB   |   |
| App 4       | 1.3     | 2021-01-20 17:37:07 | 22.82 MB |   |
| App 5       | 2.51    | 2020-11-04 22:58:49 | 10 MB    |   |
| App 6       | 2.49.0  | 2020-11-04 23:57:31 | 44.7 MB  |   |
| App 7       | 2.1.2.2 | 2021-01-20 17:25:12 | 18.71 MB |   |

- a. Click to update all applications
- b. Click to update an individual app

## Updating the Android Operating System on your Device

The app list tab also allows you to update the Android operating system installed on your device via DMS Cloud.



ST01KB1AA

Update Device  
Newer Version: V1.0.3.1

- Update device now
- Schedule device update

Installed Application (19)

| Application | Ver                 | Date modified       | Size     | APP Update |
|-------------|---------------------|---------------------|----------|------------|
| App 1       | 2.49.0              | 2021-01-18 23:09:30 | 22.18 MB | 28.72 MB   |
| App 2       | 4.3.5               | 2021-12-13 04:20:50 | 3.8 MB   |            |
| App 3       | 13                  | 2022-01-11 00:02:31 | 0.73 MB  |            |
| App 4       | 2.2.3.2             | 2022-01-21 00:32:59 | 8.85 MB  |            |
| App 5       | v4.4.2              | 2022-02-16 00:49:54 | 6.95 MB  | n/a        |
| App 6       | 1.7                 | 2022-01-06 03:07:56 | 26.05 MB |            |
| App 7       | 6.4.1               | 2021-12-23 03:48:15 | 54.89 MB |            |
| App 8       | 283.0.0.6.117       | 2021-12-30 08:04:36 | 1.84 MB  |            |
| App 9       | 4.0.1               | 2021-12-07 05:46:06 | 9.4 MB   |            |
| App 10      | 1.9.0               | 2021-12-03 05:51:21 | 2.05 MB  |            |
| App 11      | 6.1                 | 2022-01-18 23:55:21 | 27.75 MB |            |
| App 12      | 2.3.1               | 2021-12-03 03:42:21 | 1.32 MB  |            |
| App 13      | 6.24.0.02.405773228 | 2022-01-19 04:52:23 | 74.3 MB  |            |

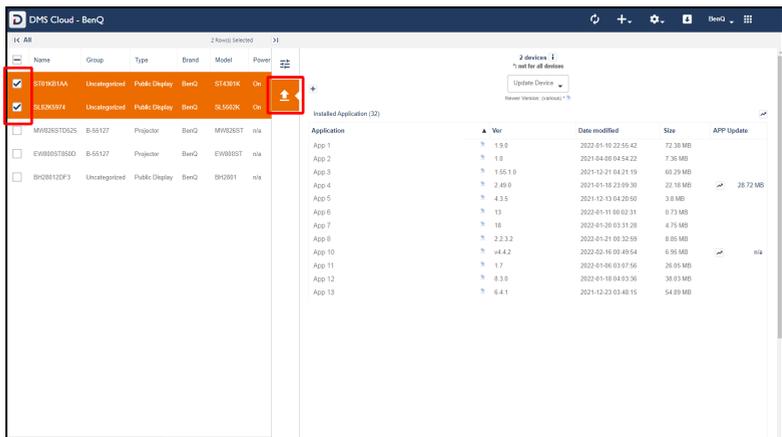
The entire process will take some time, during this time you will not be able to use any other DMS Cloud functions. Once the update is finished, your device will restart.



If the update file is corrupt or an error occurs during the update process, a **Device Update Failed** message will appear. Check with the manufacturer of your device for more information regarding the update file and its compatibility with your device.

## Updating the operating system on your device immediately

1. Select the device(s) you want to update then select the app list button (  ).



DMS Cloud - BenQ

2 devices selected

| LC AB                               | Name       | Group         | Type           | Brand | Model   | Power |
|-------------------------------------|------------|---------------|----------------|-------|---------|-------|
| <input checked="" type="checkbox"/> | ST01KB1AA  | Uncategorized | Public Display | BenQ  | ST4381K | On    |
| <input checked="" type="checkbox"/> | SLE0K5074  | Uncategorized | Public Display | BenQ  | SL5502K | On    |
| <input type="checkbox"/>            | MW02670325 | B-55127       | Projector      | BenQ  | MW0267  | n/a   |
| <input type="checkbox"/>            | EW08057850 | B-55127       | Projector      | BenQ  | EW08057 | n/a   |
| <input type="checkbox"/>            | BH088120F3 | Uncategorized | Public Display | BenQ  | BH0881  | n/a   |

2 devices: 1  
\*not the full address

Update Device

Installed Application (32)

| Application | Ver           | Date modified       | Size     | APP Update |
|-------------|---------------|---------------------|----------|------------|
| App 1       | 1.9.0         | 2022-01-10 22:55:42 | 72.38 MB |            |
| App 2       | 1.9           | 2021-04-08 04:54:22 | 7.36 MB  |            |
| App 3       | 1.55.1.0      | 2021-12-21 04:31:19 | 69.29 MB |            |
| App 4       | 2.49.0        | 2021-01-18 23:09:30 | 22.18 MB | 28.72 MB   |
| App 5       | 4.3.5         | 2021-01-04 00:20:50 | 3.8 MB   |            |
| App 6       | 13            | 2022-01-11 00:02:31 | 0.73 MB  |            |
| App 7       | 18            | 2022-01-20 03:31:28 | 4.75 MB  |            |
| App 8       | 2.2.3.2       | 2022-01-21 00:32:59 | 8.85 MB  |            |
| App 9       | v4.4.2        | 2022-02-16 00:49:54 | 6.95 MB  | n/a        |
| App 10      | 1.7           | 2022-01-06 03:07:56 | 26.05 MB |            |
| App 11      | 6.4.1         | 2021-12-23 03:48:15 | 54.89 MB |            |
| App 12      | 283.0.0.6.117 | 2021-12-30 08:04:36 | 1.84 MB  |            |
| App 13      | 4.0.1         | 2021-12-07 05:46:06 | 9.4 MB   |            |

- Select **Update Device > Update device now** to check the update information.

2 devices |  
\*; not for all devices

Update Device  
Update device now  
Schedule device update

Installed Application (32)

| Application | Ver      | Date modified       | Size     | APP Update |
|-------------|----------|---------------------|----------|------------|
| App 1       | 1.9.0    | 2022-01-10 22:55:42 | 72.38 MB |            |
| App 2       | 1.0      | 2021-04-08 04:54:22 | 7.36 MB  |            |
| App 3       | 1.55.1.0 | 2021-12-21 04:21:19 | 60.29 MB |            |
| App 4       | 2.49.0   | 2021-01-18 23:09:30 | 22.18 MB | 28.72 MB   |
| App 5       | 4.3.5    | 2021-12-13 04:20:50 | 3.8 MB   |            |
| App 6       | 13       | 2022-01-11 00:02:31 | 0.73 MB  |            |
| App 7       | 18       | 2022-01-20 03:31:28 | 4.75 MB  |            |
| App 8       | 2.2.3.2  | 2022-01-21 00:32:59 | 8.85 MB  |            |
| App 10      | v4.4.2   | 2022-02-16 00:49:54 | 6.95 MB  | n/a        |
| App 11      | 1.7      | 2022-01-06 03:07:56 | 26.05 MB |            |
| App 12      | 8.3.0    | 2022-01-18 04:03:36 | 38.03 MB |            |
| App 13      | 6.4.1    | 2021-12-23 03:48:15 | 54.89 MB |            |

- Click **Update Now** and the update process will begin for all selected devices.

**Device Update (various)**

There are various updates available. Please check the detail first before each update operation.

**Newer version: V1.0.3.1** 866 MB

V1.0.3.1 **Update Now**

Applicable devices: 1 (out of 2)

ST01KB1AA

**Newer version: V1.0.7.2** 1354 MB

V1.0.7.2 **Update Now**

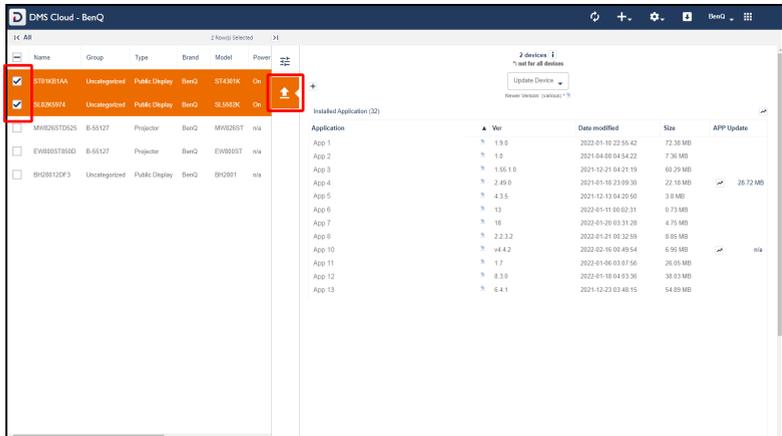
Applicable devices: 1 (out of 2)

SL02K5974

**Close**

## Scheduling the operating system update on your device

1. Select the device(s) you want to schedule for an update then select the app list button (  ).



The screenshot shows the DMS Cloud interface with two devices selected: ST4301K and SL5502K. The 'Update Device' button is highlighted, and the 'App list' button (represented by an upward arrow icon) is also highlighted. The 'Installed Application (32)' table is visible below the device list.

| Name  | Group         | Type          | Brand | Model   | Power |
|---|---------------|---------------|-------|---------|-------|
| <input checked="" type="checkbox"/> ST4301K | Uncategorized | Public Deploy | BenQ  | ST4301K | On    |
| <input checked="" type="checkbox"/> SL5502K | Uncategorized | Public Deploy | BenQ  | SL5502K | On    |
| <input type="checkbox"/> MW6260TD25         | B-55127       | Projector     | BenQ  | MW6260T | n/a   |
| <input type="checkbox"/> EW8060T860         | B-55127       | Projector     | BenQ  | EW8060T | n/a   |
| <input type="checkbox"/> BH201120F3         | Uncategorized | Public Deploy | BenQ  | BH2011  | n/a   |

| Application | Ver      | Date modified       | Size     | APP Update |
|-------------|----------|---------------------|----------|------------|
| App 1       | 1.9.0    | 2022-01-10 22:55:42 | 72.38 MB |            |
| App 2       | 1.0      | 2021-04-08 04:54:22 | 7.36 MB  |            |
| App 3       | 1.55.1.0 | 2021-12-21 04:21:19 | 60.29 MB |            |
| App 4       | 2.49.0   | 2021-01-18 23:09:30 | 22.18 MB | 28.72 MB   |
| App 5       | 4.3.5    | 2021-12-13 04:20:50 | 3.8 MB   |            |
| App 6       | 13       | 2022-01-11 00:02:31 | 0.73 MB  |            |
| App 7       | 18       | 2022-01-20 03:31:28 | 4.75 MB  |            |
| App 8       | 2.2.3.2  | 2022-01-21 00:32:59 | 8.85 MB  |            |
| App 10      | v4.4.2   | 2022-02-16 00:49:54 | 6.95 MB  | n/a        |
| App 11      | 1.7      | 2022-01-06 03:07:56 | 26.05 MB |            |
| App 12      | 8.3.0    | 2022-01-18 04:03:36 | 38.03 MB |            |
| App 13      | 6.4.1    | 2021-12-23 03:48:15 | 54.89 MB |            |

2. Select **Update Device > Schedule device update** to set the update schedule.



The screenshot shows the 'Update Device' dropdown menu open, with 'Schedule device update' selected. The 'Installed Application (32)' table is visible below the menu.

| Application | Ver      | Date modified       | Size     | APP Update |
|-------------|----------|---------------------|----------|------------|
| App 1       | 1.9.0    | 2022-01-10 22:55:42 | 72.38 MB |            |
| App 2       | 1.0      | 2021-04-08 04:54:22 | 7.36 MB  |            |
| App 3       | 1.55.1.0 | 2021-12-21 04:21:19 | 60.29 MB |            |
| App 4       | 2.49.0   | 2021-01-18 23:09:30 | 22.18 MB | 28.72 MB   |
| App 5       | 4.3.5    | 2021-12-13 04:20:50 | 3.8 MB   |            |
| App 6       | 13       | 2022-01-11 00:02:31 | 0.73 MB  |            |
| App 7       | 18       | 2022-01-20 03:31:28 | 4.75 MB  |            |
| App 8       | 2.2.3.2  | 2022-01-21 00:32:59 | 8.85 MB  |            |
| App 10      | v4.4.2   | 2022-02-16 00:49:54 | 6.95 MB  | n/a        |
| App 11      | 1.7      | 2022-01-06 03:07:56 | 26.05 MB |            |
| App 12      | 8.3.0    | 2022-01-18 04:03:36 | 38.03 MB |            |
| App 13      | 6.4.1    | 2021-12-23 03:48:15 | 54.89 MB |            |

3. Click **Next: Set schedule** to continue setting the schedule.

**Device Update (various)**

There are various updates available. Please check the detail first before each update operation.

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Newer version: V1.0.3.1</b>   | 866 MB                    |
| V1.0.3.1                         | <b>Next: Set schedule</b> |
| Applicable devices: 1 (out of 2) |                           |
| ST01KB1AA                        |                           |

|                                  |                    |
|----------------------------------|--------------------|
| <b>Newer version: V1.0.7.2</b>   | 1354 MB            |
| V1.0.7.2                         | Next: Set schedule |
| Applicable devices: 1 (out of 2) |                    |
| SL02K5974                        |                    |

Close

4. Set a date and time for device update and click **Set schedule** to finish the scheduling process.

**Schedule Device Update**

Please set scheduling time for device update.

**Start device update at:**

mm/dd/yyyy --:-- --

|                    |          |
|--------------------|----------|
| <b>New Version</b> | V1.0.3.1 |
| <b>Size</b>        | 866 MB   |
| <b>Description</b> | V1.0.3.1 |

Set schedule Cancel

5. The update process will begin at the designated timing. If a device is shut down prior to the scheduled timing, the scheduled update will not be performed.

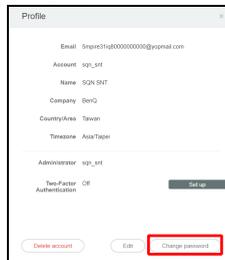
## Changing Your DMS Cloud Password

To change your login password for DMS Cloud, follow the steps below:

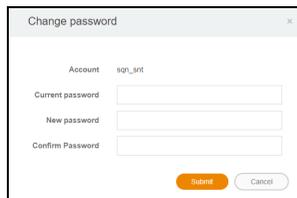
1. Click the user button in the top toolbar and select **View Personal Profile**.



2. In the **Profile** menu, click **Change password**.



3. In the **Change password** menu, enter the current password in the **Current password** field and then the new password you want in both the **New password** and **Confirm password** fields.



4. Click **Save** to finish changing your password for DMS Cloud.



If you forget your login password for DMS Cloud, click the **Forget ID / password?** link at the bottom of the login window and contact your local BenQ service team to provide them with the password retrieval code shown in the **Forget ID / password?** prompt.

## Other Functions

DMS Cloud also allows you to do the following functions to further help you manage your devices:

- View DMS Cloud activity logs
- View usage/performance data for devices

### Viewing DMS Cloud Activity Logs

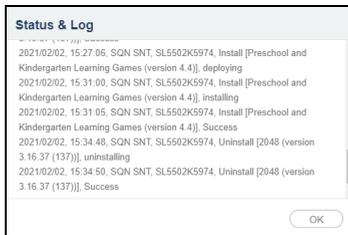
DMS Cloud allows you to view a log of all the actions performed in DMS Cloud on the devices in your device tree for the past 30 days. The log includes the date and time of each action, the user who was responsible for the action, a description of the action, and the status of the action.

To view an activity log for your devices:

1. Click the settings button (⚙️) in the top toolbar and select **Status & Log**.



2. Scroll up to view past items in the log.

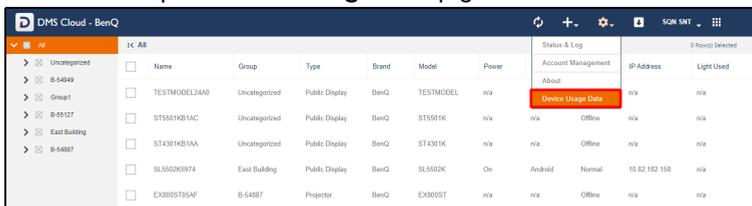


### Viewing Usage Data for Devices

DMS Cloud also allows you to view usage data for up to 30 devices. The data will include various items such as hardware (e.g. CPU, memory, etc.) usage, performance levels (e.g. carbon output), and other related items.

To view the usage data for your devices:

1. Click the settings button (⚙️) in the top toolbar and select **Device Usage Data**. DMS Cloud will open a **Device Usage Data** page.



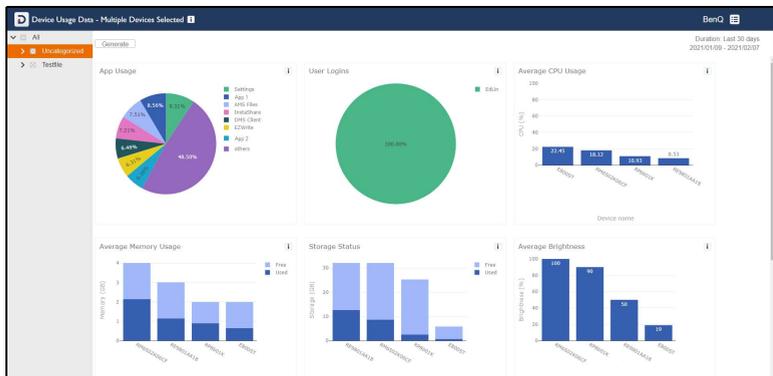
- Select one or more devices or groups in the device tree of the **Device Usage Data** page, and then select **Generate**.

The screenshot shows the 'Device Usage Data' interface. On the left, a device tree is visible with several items: 'Unassigned', 'ST420/KB1AA', 'ST550/KB1AC', 'TESTMOREL2', 'B-54849', 'Group1', 'B-55127', 'East Building', and 'B-54857'. The 'TESTMOREL2' item is selected and highlighted in orange. A red box highlights the 'Generate' button in the top right corner of the main content area.



To select multiple items in the device tree, press and hold Ctrl on your keyboard and then select an item.

- Scroll down to see all the items in the usage data report.



## Software Management

The Software Management page allows you to manage the apps stored in the DMS Cloud database. To access the Software Management page, click the Software Management button () at the top toolbar in DMS Cloud.

Once you click the Software Management button (), the Software Management page will be shown. The following items are featured on the Software Management page.



| No. | Item  | Description  |
|-----|---|--|
| 1   | Apps List   | <p>Shows all the apps managed by the Software Management page. Click the <b>My App</b> or <b>BenQ App</b> button to switch the app list.</p> <p>Click the tag button () next to each app name to see more details regarding the app, including app name, description, and version.</p> <p>Hover over the <b>Actions</b> column for an app for more app related actions, including installing, editing, or deleting the app.</p> <p>See <a href="#">Installing Apps onto a Device from the App List</a> or <a href="#">Deleting Apps from the DMS Cloud Database</a> for more information on installing or deleting an app on a device.</p> <p>See <a href="#">Editing App Descriptions</a> for more information on editing an app's details.</p> |
| 2   | Refresh  | <p>Click to refresh the apps list.</p> <p> The Software Management page will automatically refresh the apps list after a given interval of time. The refresh button is to allow users to get the most up-to-date information at any given time.</p>   |

| No. | Item   | Description  |
|-----|--|--|
| 3   | Add/Update Applications<br> | Click to add a new app to the Software Management page or update an existing app to the newest version.<br>See <a href="#">Adding or Updating an App to the DMS Cloud Database</a> for more information on adding devices and device groups. |
| 4   | Status & Log<br>            | Click to view the DMS Cloud activity log.<br>See <a href="#">Viewing DMS Cloud Activity Logs</a> for more information.   |
| 5   | User   | Click to edit selected account information and/or change your login password.<br>See <a href="#">Changing Your DMS Cloud Password</a> for more information on setting up a login password.   |
| 6   | <b>Show Older Version</b>  | Check this box to show older available versions of the apps in the apps list.<br>See <a href="#">Accessing Older Versions of an App</a> for more information on viewing older versions of an app via the Software Management page.           |

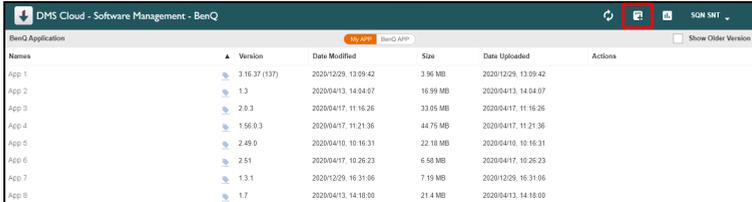
## Adding or Updating an App to the DMS Cloud Database

To add an app or update an existing app to a newer version:



Added/Updated apps must be in the .apk file format.

1. Click the add/update applications button .



| Names | Version       | Date Modified        | Size     | Date Uploaded        | Actions |
|-------|---------------|----------------------|----------|----------------------|---------|
| App 1 | 3.16.37 (137) | 2020/12/29, 13:09:42 | 3.96 MB  | 2020/12/29, 13:09:42 |         |
| App 2 | 1.3           | 2020/04/13, 14:04:07 | 16.99 MB | 2020/04/13, 14:04:07 |         |
| App 3 | 2.0.3         | 2020/04/17, 11:16:26 | 33.05 MB | 2020/04/17, 11:16:26 |         |
| App 4 | 1.56.0.3      | 2020/04/17, 11:21:36 | 44.75 MB | 2020/04/17, 11:21:36 |         |
| App 5 | 2.49.0        | 2020/04/10, 10:16:31 | 22.18 MB | 2020/04/10, 10:16:31 |         |
| App 6 | 2.51          | 2020/04/17, 10:26:23 | 6.58 MB  | 2020/04/17, 10:26:23 |         |
| App 7 | 1.3.1         | 2020/12/29, 16:31:06 | 7.19 MB  | 2020/12/29, 16:31:06 |         |
| App 8 | 1.7           | 2020/04/13, 14:18:09 | 21.4 MB  | 2020/04/13, 14:18:09 |         |

2. Navigate to and select the app file located in your local storage.
3. Enter a description for the app in the **Description** field of the **Add Application Info** window that appears and/or select **Continue**.



Add Application Info

Application Name: Smart Control

Description:

Version: v1.1.2Z

File name: BenQ Smart Control\_vv1.1.2Z\_apkpure.com.apk



Entering an app description is not a required step. To add/edit an app description at a later time, see [Editing App Descriptions](#).

4. Depending on the size of the app, the upload process may take some time. A confirmation window will appear once you have successfully uploaded the app to the DMS Cloud database. Click **Close** to finish the process.



Message

Application upload success

## Deleting Apps from the DMS Cloud Database

To delete an app from the DMS Cloud Database:

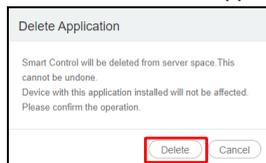


- Deleting an app from the DMS Cloud database will not delete the respective app from devices that it has already been installed on via DMS Cloud.
- This function is only available for apps in the category of **My App**.

1. Use the cursor to hover over the **Actions** column for the app you want to delete, and then click the delete button (✕).

| Names | Version       | Date Modified        | Size     | Date Uploaded        | Actions   |
|-------|---------------|----------------------|----------|----------------------|---|
| App 1 | 3.16.37 (137) | 2020/12/29, 13:29:42 | 3.96 MB  | 2020/12/29, 13:29:42 |   |
| App 2 | 1.3           | 2020/04/13, 14:04:07 | 16.99 MB | 2020/04/13, 14:04:07 |  |
| App 3 | 2.0.3         | 2020/04/17, 11:16:26 | 33.05 MB | 2020/04/17, 11:16:26 |   |
| App 4 | 1.56.0.3      | 2020/04/17, 11:21:36 | 44.75 MB | 2020/04/17, 11:21:36 |   |
| App 5 | 2.49.0        | 2020/04/10, 10:16:31 | 22.18 MB | 2020/04/10, 10:16:31 |   |
| App 6 | 2.51          | 2020/04/17, 10:26:23 | 6.58 MB  | 2020/04/17, 10:26:23 |   |
| App 7 | 1.3.1         | 2020/12/29, 16:31:06 | 7.19 MB  | 2020/12/29, 16:31:06 |   |
| App 8 | 1.7           | 2020/04/13, 14:18:00 | 21.4 MB  | 2020/04/13, 14:18:00 |   |

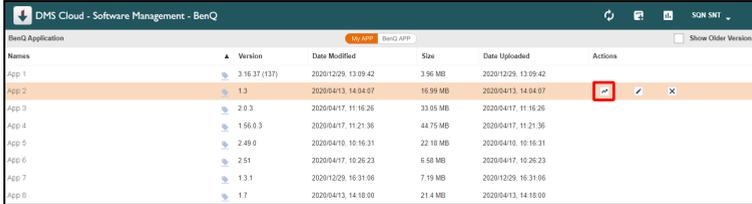
2. Select **Delete** in the confirmation window that appears.



## Installing Apps onto a Device from the App List

To install an app located on the DMS Cloud database using the Software Management app list:

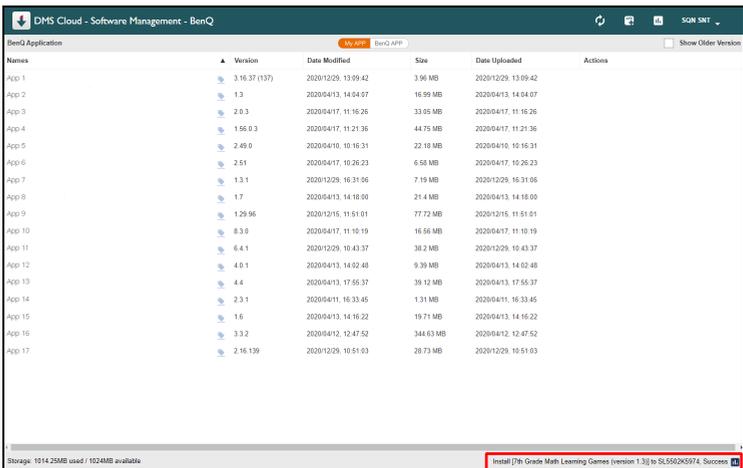
1. Use the cursor to hover over the **Actions** column for the app you want to install onto your device, and then click the install button (  ).



2. In the selection window, check the boxes for all the devices in the device tree you want to install the app to, and then click **Install**.



3. Once the app has been successfully installed onto the device, a success message will appear at the bottom of the Software Management page.



## Editing App Descriptions

To edit the description for an app:



This function is only available for apps in the category of **My App**.

1. Use the cursor to hover over the **Actions** column for the app you want to edit the description for, and then click the edit button (  ).

| Names | Version       | Date Modified        | Size     | Date Uploaded        | Actions   |
|-------|---------------|----------------------|----------|----------------------|---|
| App 1 | 3.16.37 (137) | 2020/12/29, 13:09:42 | 3.96 MB  | 2020/12/29, 13:09:42 |   |
| App 2 | 1.3           | 2020/04/13, 14:04:07 | 16.99 MB | 2020/04/13, 14:04:07 |   |
| App 3 | 2.0.3         | 2020/04/17, 11:16:26 | 33.05 MB | 2020/04/17, 11:16:26 |   |
| App 4 | 1.56.0.3      | 2020/04/17, 11:21:36 | 44.75 MB | 2020/04/17, 11:21:36 |   |
| App 5 | 2.49.0        | 2020/04/10, 10:16:31 | 22.18 MB | 2020/04/10, 10:16:31 |   |
| App 6 | 2.51          | 2020/04/17, 10:26:23 | 6.68 MB  | 2020/04/17, 10:26:23 |   |
| App 7 | 1.3.1         | 2020/12/29, 16:31:06 | 7.19 MB  | 2020/12/29, 16:31:06 |   |
| App 8 | 1.7           | 2020/04/13, 14:18:00 | 21.4 MB  | 2020/04/13, 14:18:00 |   |

2. In the edit window, enter the description and click **Save**.

Application Name: 7th Grade Math Learning Games

Description:

Version: 1.3

File name: 7th Grade Math Learning Games.apk

The description for the app can be viewed by clicking the tag button (  ) for the app in the app list.

## Accessing Older Versions of an App

The Software Management page allows you to access older versions of an app in the app list that had been previously uploaded to edit or delete from a device.

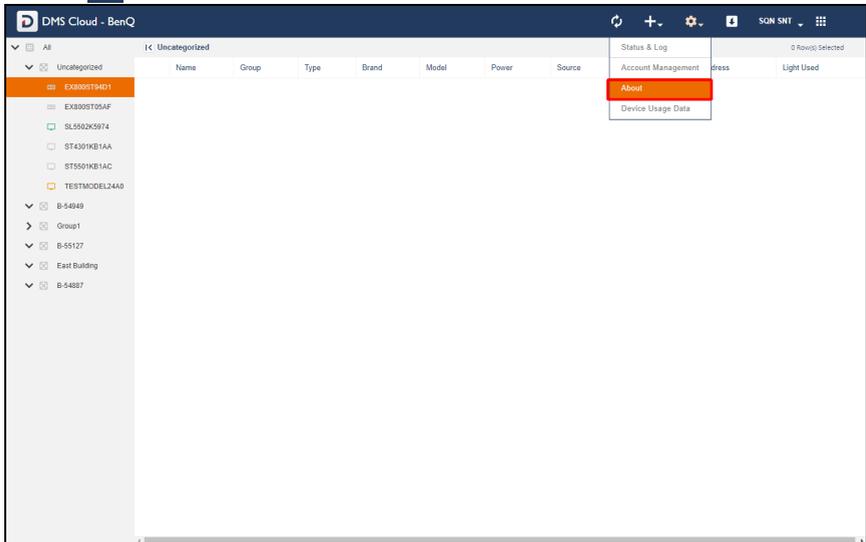
To access older versions of an app, check the **Show Older Version** box.

| Names | Version       | Date Modified        | Size     | Date Uploaded        | Actions |
|-------|---------------|----------------------|----------|----------------------|---------|
| App 1 | 3.16.37 (137) | 2020/12/29, 13:09:42 | 3.96 MB  | 2020/12/29, 13:09:42 |         |
| App 1 | 3.16.36 (136) | 2020/12/29, 10:00:46 | 4.10 MB  | 2020/12/29, 10:00:46 |         |
| App 1 | 3.16.36 (136) | 2020/12/29, 10:04:37 | 4.10 MB  | 2020/12/29, 10:04:37 |         |
| App 2 | 1.3           | 2020/04/13, 14:04:07 | 16.99 MB | 2020/04/13, 14:04:07 |         |
| App 3 | 2.0.3         | 2020/04/17, 11:16:26 | 33.05 MB | 2020/04/17, 11:16:26 |         |
| App 3 | 1.0.0         | 2020/04/17, 11:13:46 | 34.22 MB | 2020/04/17, 11:13:46 |         |
| App 3 | 1.0.0         | 2020/04/17, 11:12:31 | 34.52 MB | 2020/04/17, 11:12:31 |         |
| App 4 | 1.56.0.3      | 2020/04/17, 11:21:36 | 44.75 MB | 2020/04/17, 11:21:36 |         |

Once the older versions appear in the app list, you can edit or delete a previous version of an app using the same steps described in the corresponding sections above.

# About DMS Cloud

For more information regarding DMS Cloud including version number, click the settings button (⚙️) in the DMS Cloud top toolbar and select **About**.



## Troubleshooting

If you encounter problems while using the DMS Cloud, please refer to the following troubleshooting tips to try to solve the problems by yourself. If the problem persists, please contact BenQ Customer Support for help.

| Problem  | Solution  |
|--|---|
| Cannot connect to the device(s) (The device is showing offline in the device list) | Check the following: <ul style="list-style-type: none"> <li>• Check the cable connection. Is the device correctly connected to the network?</li> <li>• Is the device turned on?</li> <li>• Is the device network setting correct?</li> <li>• Check if the device's firmware version is up-to-date.</li> <li>• Check if the DMS Client app is up-to-date.</li> <li>• Check if a whitelist has been added for DMS Cloud (see the table below).</li> </ul> |
| The device is showing that it is online, but in DMS Cloud it is listed as offline. | <ul style="list-style-type: none"> <li>• Check if the device's firmware version is up-to-date.</li> <li>• Check if the DMS Client app is up-to-date.</li> <li>• Clear all cookies on your browser.</li> <li>• Use Incognito mode on your browser and then launch DMS Cloud.</li> <li>• Check if a whitelist has been added for DMS Cloud (see the table below).</li> </ul>  |
| Cannot power on the device via DMS Cloud   | <ul style="list-style-type: none"> <li>• Ensure that <b>WOL (Wake-on-LAN) Settings</b> is enabled on the device.</li> <li>• Ensure that the device is connected to the network via the LAN (RJ-45). Wake-on-LAN does not work over a Wi-Fi connection.</li> </ul>   |
| Cannot add a device into DMS Cloud   | Check if the device supports LAN control.   |

## Network Whitelist

If your network is in a private environment, please add a whitelist for DMS Cloud using the following URLs.

| URL/DNS  | Description  | Port                |
|--|--|---------------------|
| https://dms.benq.com/                            | API URL (DMS Cloud & Local)                        | http(80)/https(443) |
| https://vod.benq.com/                            | Get Device JSON files (DMS Cloud & Local)          |                     |
| http://staging2.benq.com                         | Get Device JSON files (v1.0.0.1) (DMS Cloud Only)  |                     |
| https://dms-relay.benq.com                       | MQTT Connection (DMS Cloud Only)                   |                     |
| https://cmota.s3.amazonaws.com/                  | MDA command data used by DMS > (DMS Cloud & Local) |                     |
| https://dsdownload.benq.com                      | Verify Key or Release Key (DMS Local Only)         |                     |
| apexd90h2t5wg-ats.iot.eu-central-1.amazonaws.com | AWS IoT service for MQTT Connection > (DMS Cloud)  | (443/8883 port)     |
| apexd90h2t5wg-ats.iot.eu-central-1.amazonaws.com | AWS IoT service for MQTT Connection > (DMS Local)  |                     |
| N/A  | DMS Local search device protocol                   | Ping(ICMP)          |