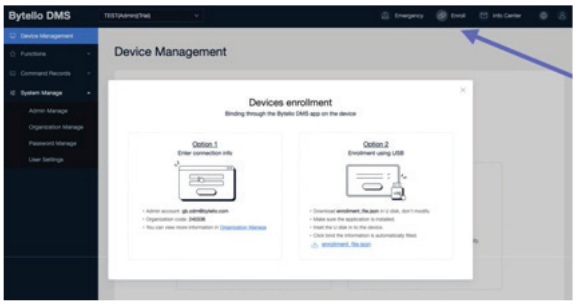
Bytello Device Management System

Manual

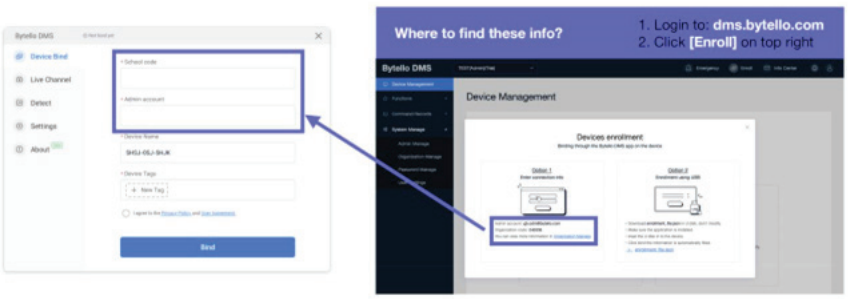
Device Enrollment

1. Log in with your account at *https://dms.bytello.com*
2. Click Enroll at the top.



3. Open the Bytello DMS remote app on the IFP (if you don't have it on your IFP, you can download the APK here: *https://www.bytello.com/dms)*

Option 1: Enter the enrollment information.



I. Downloads the enrollment_file_json to the root folder of a USB Flash Drive.

II. Insert the USB Flash Drive into the IFP.

III. The information will be autofilled. Confirm and bind the device.

Note, if you have difficulty binding the device, please check your internet connection and make sure TCP ports 8888 and 8883 are open.

Table Of Contents

1. Introduction

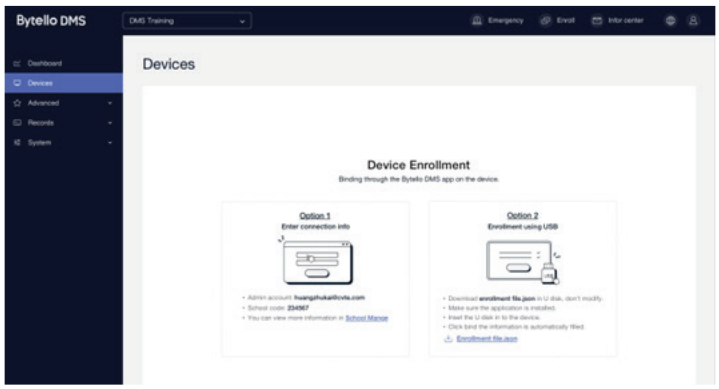
1.1 Intro

Bytello DMS is a web-based software simplifies the management of your campus equipment. With the DMS software, you can enjoy cluster management functionality for your interactive flat panels. Options include status monitoring, panel grouping, time and channel switching, volume control, and information bulletins. Everything you need is available in the same unified space.

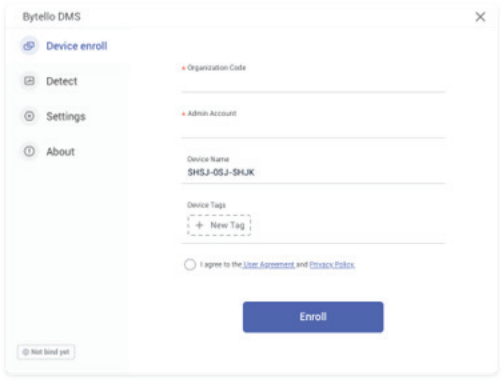
1.2 Device Enroll

1.2.1 Login to: *dms.bytello.com*

1.2.2 Click [Enroll] on the top bar to see enroll method



1.2.3 Option 1, to fill in 'Organization code' and 'Admin account' on DMS app on devic

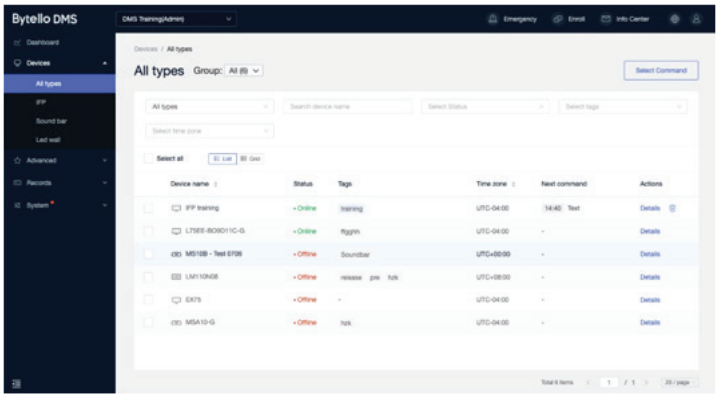


1.3 Device List

1.3.1 List View

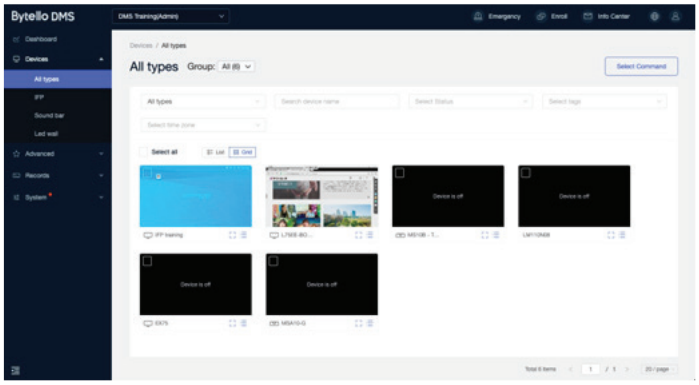
Default display on list view. All devices enrolled Organization will be displayed. Online means the device is currently connected with DMS.

Offline means the device is not connected with DMS.



1.3.2 Grid View

Grid view display device screenshot.



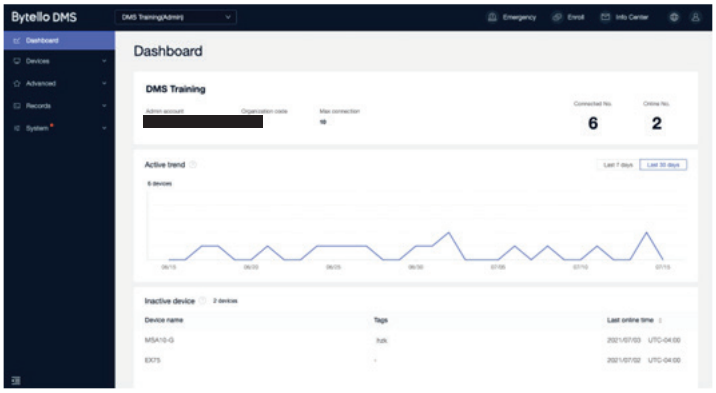
1.4 Dashboard

1.4.1 Organization Info

Basic info includes Organization name, Organization code.

Max connection is the maximum number of devices can be managed at the same time. Connected No is the number of devices enrolled at the moment.

Online No is the number of device online at the moment.



1.4.2 Active Trend

Find out devices online & offline status in past 7 and 30 days.

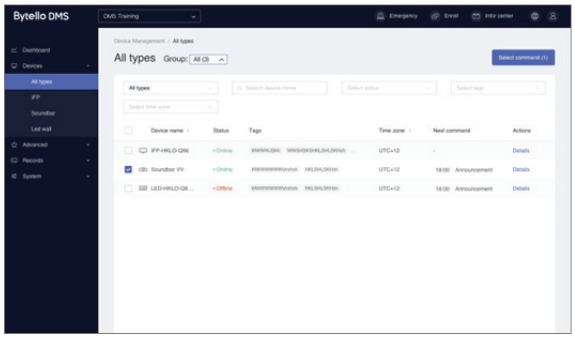
1.4.3 Inactive Device

A list of devices that offline for the past 7 days.

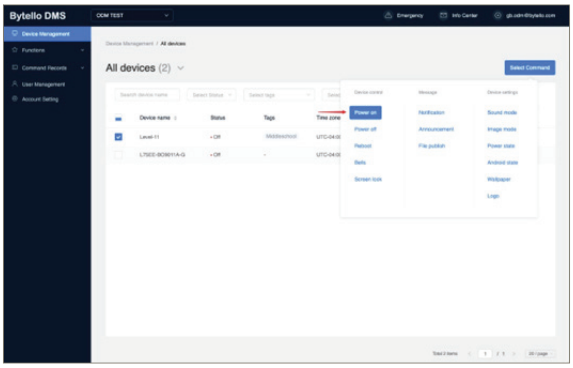
2. Send A Command

2.1 Select & Send

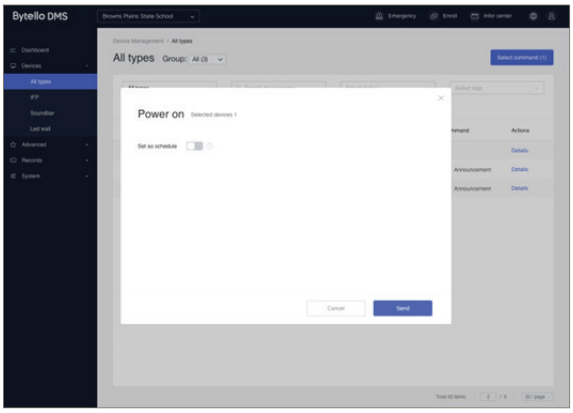
2.1.1 Select device



2.1.2 Select a command and enter editing window



2.1.3 Edit and send out



2.1.4 Set as schedule

Principle: can not choose the past time

Time alignment: according to the selected device, the device located in the time zone (UTC max) display.

For example: three devices in different timezones are selected(UTC-4 UTC-6 UTC-8). The timezone will be displayed according to the time of UTC-4.

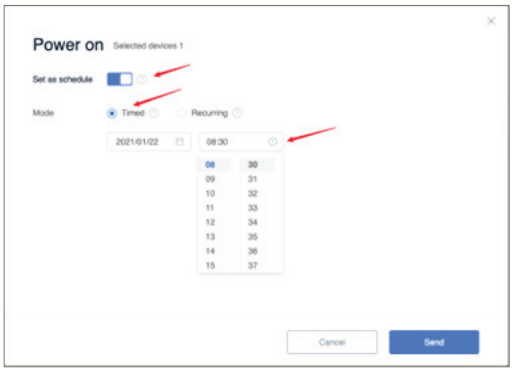
2.2 Command Time Mode

2.2.1 Execute Now

Click 'Send' directly to send and execute the instruction immediately.

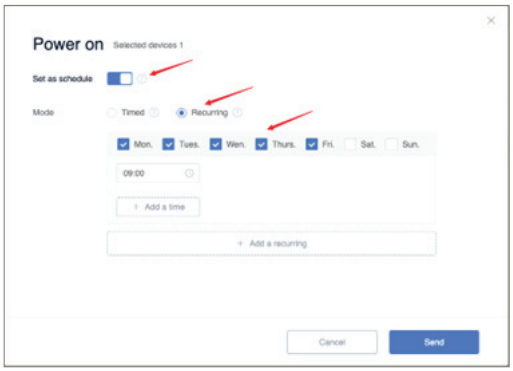
2.2.2 Timed Mode

Open Set as schedule, Select (future) year, month, day, and time to send a command.



2.2.3 Recurring Mode

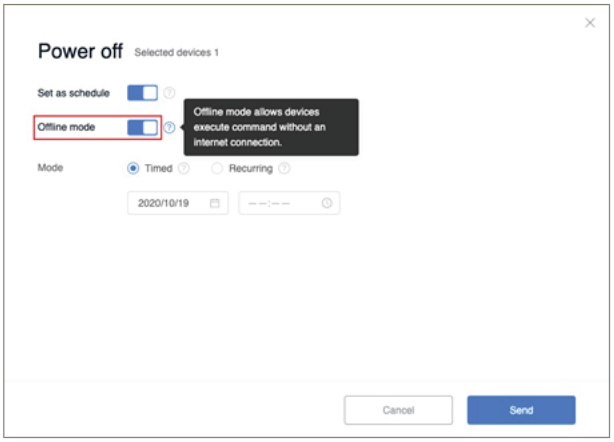
Select a specify periodic when sending command.



2.3 Offline Mode

2.3.1 Offline Mode

Offline mode means that for Timed and Recurring type commands, after the device successfully receives the command for the first time. If the network is disconnected at the command execution time, the device can still execute this command.



2.3.2 To Recall Offline Command

If you need to recall/cancel an offline command, the target device needs to connect to the network.
To recall an offline command is the same action with a common command.

2.3.3 Command With Offline Mode

2.3.3.1 Power off - offline mode

Default state: offline mode is off
Users can choose to turn on/off. After the device is turned on, if the device successfully receives the instruction, the device can still perform the shutdown successfully according to the set time when the device is not connected to the Internet.

2.3.3.2 Reboot - offline mode

Default state: offline mode is off
Users can choose to turn on/off at their own discretion. After turning on, if the device successfully receives instructions, the device can still perform a restart at the set time, following the un-networked state

2.3.3.3 Screen Lock - offline mode

Default state: offline mode is on and the user cannot turn it off.
After device received command, the device can still be executed at the set time when it is not connected to the network, and if the lock screen is disconnected during the lock screen, the lock screen instructions can still be executed regardless of the network

3. Device Manage

3.1 Device Control

3.1.1 Power On

Three time modes are supported.
The principle is to complete the wake-up action through the 2G network in the chip when the device is turned off.
Remote power-on functionality relies on the build of the Wake On LAN. Bytello DMS WOL needs to be installed on a PC system.

Remote wake-up is available by keeping Bytello DMS WOL on and in the same network environment as a controlled device.

After the command received, if the device does not have a wake-up server installed, the execution results in a failure.
Send a Power on instruction to the powered-on device, and the result is a success.
For more information on WOL setup, see Annex 1

3.1.2 Power Off

Three time modes are supported Support for offline line mode.
When the shutdown command is reached, the device segment will have a secondary confirmation pop-up window, if a user is using a shutdown that they do not want to shut down, they can reject the shutdown order this time. If there is no click rejection within 10s, the shutdown will be performed.
Send a Power off command to the shutdown device, and the execution results in a failure.

3.1.3 Reboot

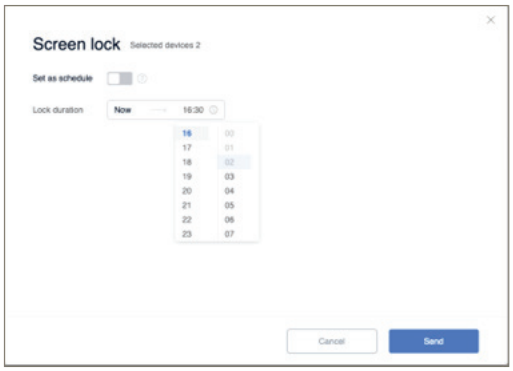
Three time modes are supported Support for offline line mode.
When the restart command is reached, the device segment will have a secondary confirmation pop-up window, if the user is using do not want to restart, you can reject this shutdown instruction. If there is no click rejection within 10s, the restart will be performed.
Send a Power off command to the shutdown device, and the execution results in a failure.

3.1.4 Bells

Three time modes are supported.
Ringtones support playing music for a fixed length of time when, on the target device, at a specified time. Supports playback of 10s, 20s, 30s, 60s and paly whole song.
Supports local upload of music files. Successfully uploaded files are stored in bell list.

3.1.5 SCREEN LOCK

Three time modes are supported;
Screen lock feature that supports locking a specified device for a certain period of time.
The screen lock function is sent
Locked device, can not do any software class operation, can not use the remote control. For a single locking period for the device, lock to 23:59 of the day at the latest;



Screen lock password settings

Find the screen lock on the > Password manage page and set a 6-digit password

Unlock Screen lock

1. The end time of the arrival screen lock is automatically unlocked
2. The device will be unlocked automatically when it reaches 23:59
3. Entering a password on the target device during the locked period will work properly with the target device. If there is no action for 20 minutes after unlocking, the device will be locked again and a password will be required to enter here. The password for the screen lock can be viewed on the setting page of admin/Sub-admin.
4. Unlock unlocks the target device for a single lock-screen command on the command records page by admin/sub-admin.

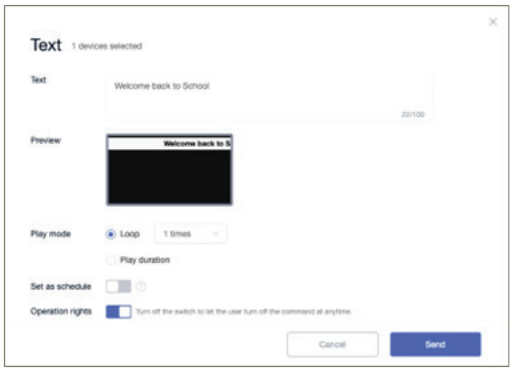
3.2 Message

3.2.1 Text

Text support three time modes

Enter text to display as text running light subtitles on the target device;

When Operation rights open, anyone in front of the device can turn off the text;

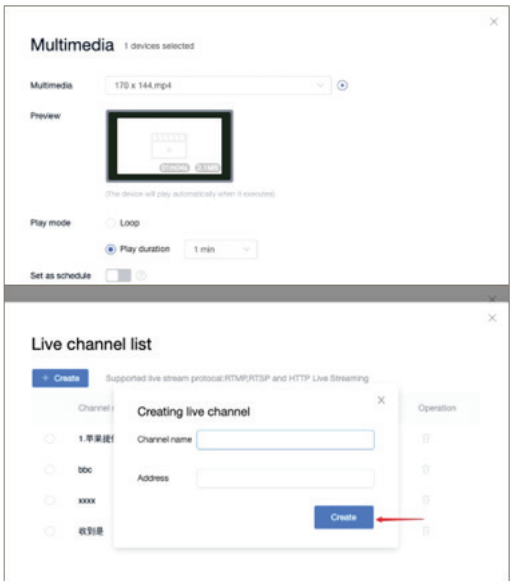


3.2.2 Multimedia

Three time modes supported

Multimedia support the release of information in image and video formats. A window appears on the target device with a close button.

When operation rights is on, anyone infant of the device can close the multimedia message.



3.2.3 File Publish

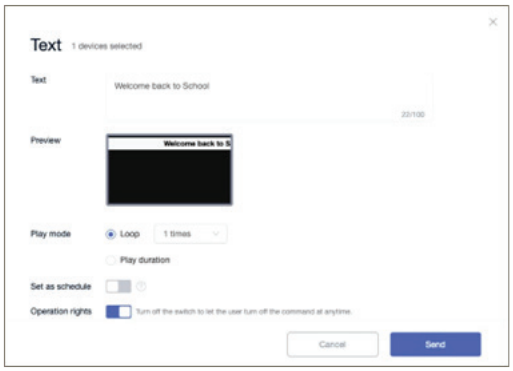
Send now and timed send is supported. Recurring mode sending is not supported.

File transfer, which pushes and stores any type of file in a centralized temporary folder on the target device.

Supports uploading files locally and storing them in File list

After it has been successfully sent to a temporary folder on the target device, it is notified through the pop-up window

Supports uploading files locally and storing them in File list



3.2.4 Emergency

Introduction

Emergency information only support Execute Now to send immediately;

Emergency has a preset warning template that can be sent directly after changing the text in the template;

Supports local upload of images and storage;

After the emergency information is sent, it will be displayed as a full-screen information display on the target device, and the user can not turn it off on his own;

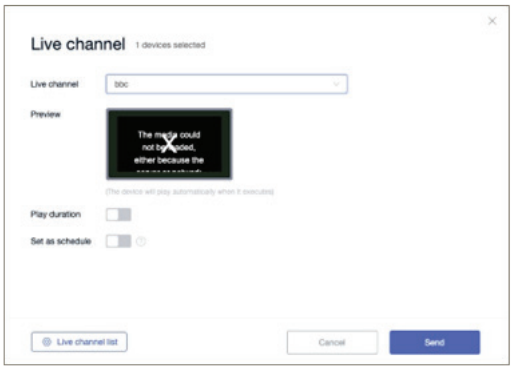
To recall an Emergency

When an emergency message is sent, the top bar on the web displays a red light effect that represents the alert. Go back to the emergency page and click on the recall to cancel the release of the emergency.

Device permissions for emergency information

The Emergency directive permission is different from other instruction permissions, and if sub-admin has the command permission to send the emergency, the default Emergency instruction is valid for all devices in the school.

For more Sub-admin information, see Chapter 7



3.2.5 Live Channel

To set up a live channel and regularly broadcast it on your device. Resource support format:

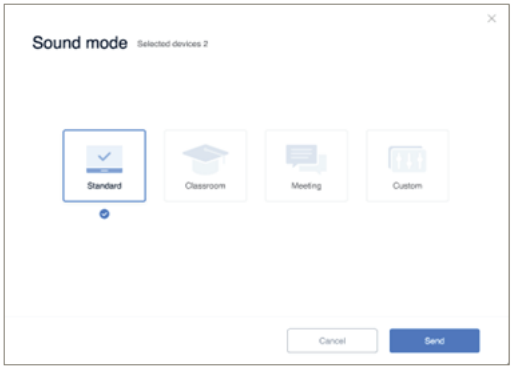
RTMP/RTSP. Example: rtmp://live.hkstv.hk.lxdns.com/live/hks

Apple HLS (HTTP Live Streaming). Example: http://ivi.bupt.edu.cn/hls/cctv1hd.m3u8

3.3 Device Settings

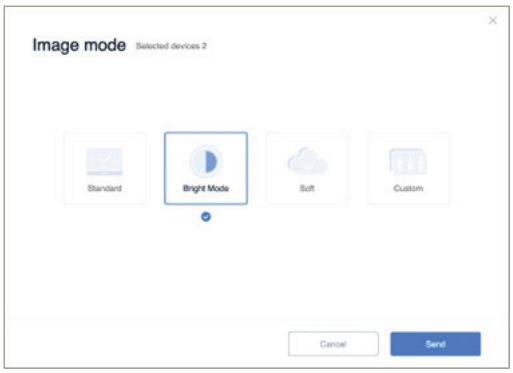
3.3.1 Image Mode

Image mode refers to the settings for the device's screen display, which only support Execute Now



3.3.2 Sound Mode

Sound mode, which refers to the sound mode of the device, supports only Execute Now



3.3.3 Power State

No Signal Shutdown

Definition: Automatic shutdown when a device is detected to be inoperable for a period of time.

Selectable time period: Never, 1 min, 3mins ... 1 hour

Display After Power Outage

Definition: There are three scenarios in which a device experiences an unexpected power outage and is plugged in again

1. Remain power off: Power off and then power up, the device remains turned off
2. Auto power on: Power off and then power up, the device automatically powers on
3. Return to the power state power before before the outage: Power off and then connected, the device remains in the state it was in before the power went out

After the instruction is sent, the device can receive the instruction within 24h of the instruction being sent. If more than 24h has not yet executed this instruction, it is determined to be a failure to execute.

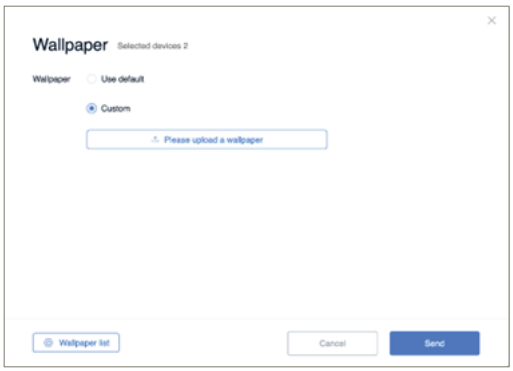
3.3.4 Android State

Android channel switch, only support Execute Now;
When the switch is on, the target device has Android channels, a dock bar, and can use Android in-house applications such as finder, media player, browser, note, etc.
When the switch is off, the target device does not have an Android channel and serves only as a channel display channel.

Instruction sending follows a downward asynchronous, and the device can receive instructions when it is powered on within 24h of the instruction being sent. If more than 24h has not yet executed this instruction, it is determined to be a failure to execute.

3.3.5 Wallpaper

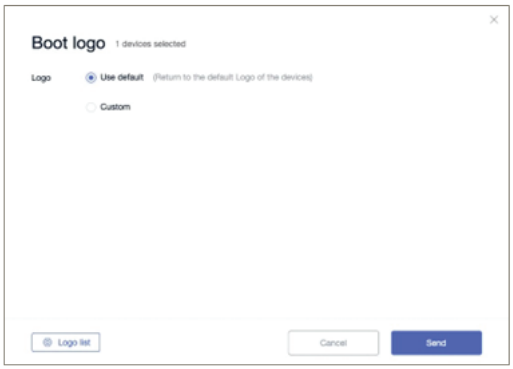
Wallpaper settings, only support Execute Now;
Supports the default wallpaper to be restored to the device;
When the device receives this instruction, it will automatically change the wallpaper immediately;



Instruction sending follows a downward asynchronously, and the device can receive instructions when it is powered on within 72h of the instruction being sent. If more than 72h has not yet executed this instruction, it is determined to be a failure to execute.

3.3.6 Boot Logo

Power on logo settings, only support Execute Now; Supports the default boot logo to be restored to the device; Upon receipt of this instruction, the device will automatically replace the boot logo immediately and take effect in the next boot;

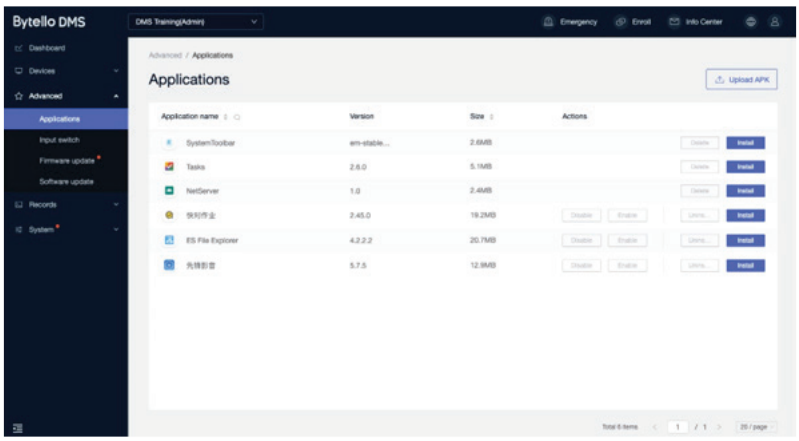


Instruction sending follows a downward asynchronously, and the device can receive instructions when it is powered on within 72h of the instruction being sent. If more than 72h has not yet executed this instruction, it is determined to be a failure to execute.

4. Advanced Function

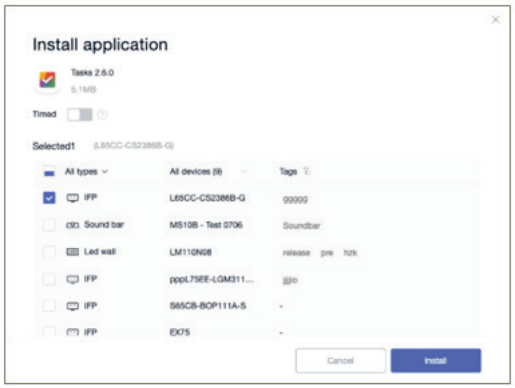
4.1 Applications

The portal is in the navigation bar-functions, supports Execute Now and Timed time modes, supports local upload of third-party app and stores them on the app list, selects the target app, then selects the target action, and finally selects the target device.



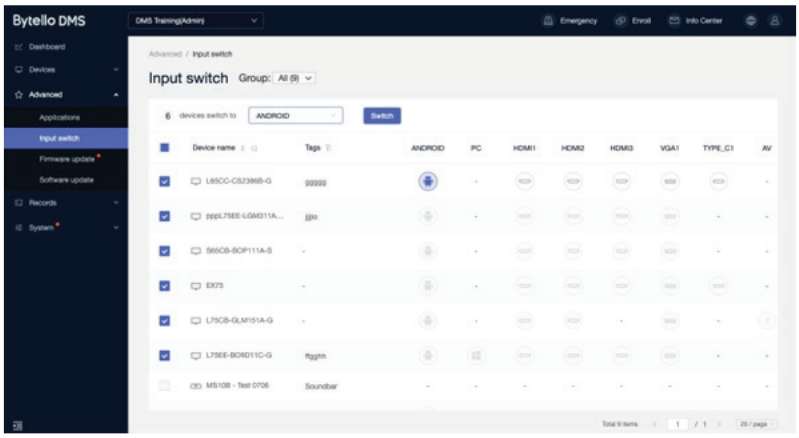
What you can do with third-party app:

1. Install, install a new app to the target device
2. Update, the update has been applied to the latest version
3. Uninstall the installed app
4. Disable, disable installed apps, disabled apps will not appear in the app store
5. Enabled, enable disabled apps



4.2 Android Input Switch

The ability to switch in bulk for channels under Android;



The list of channels will show: 1- all the devices through the various channels have or not, 2- power on the current channel of the equipment;

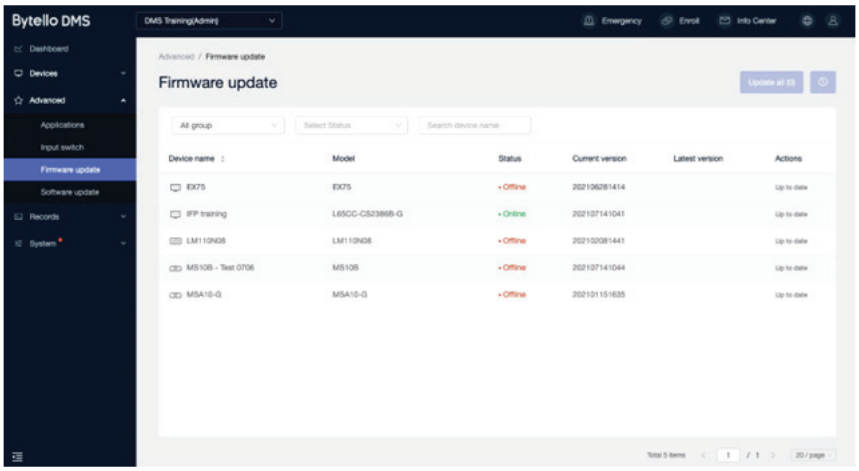
Select the target device first, and then choose which channel to switch to;

If the device does not have the target channel, the instruction is determined to fail, and if the device state is off, the instruction is determined to fail;

4.3 Firmware Update

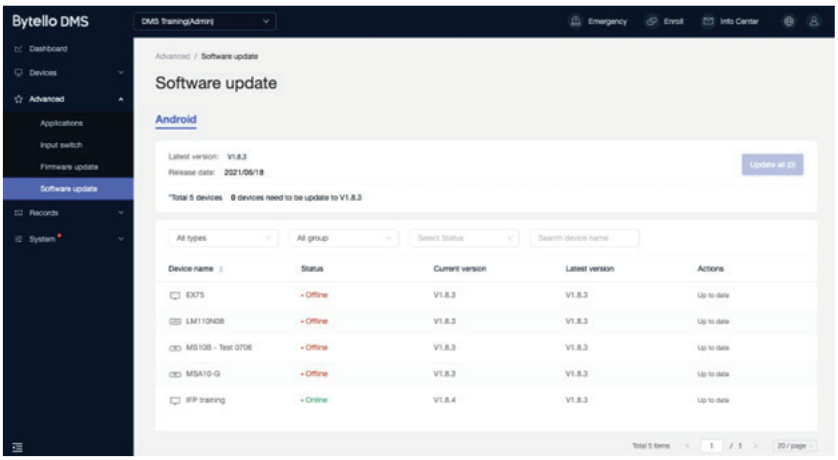
Once a new firmware released and detected by the device. The notification will show in DMS - Firmware update.

Click [Update all] to send out command. The command will not expire.



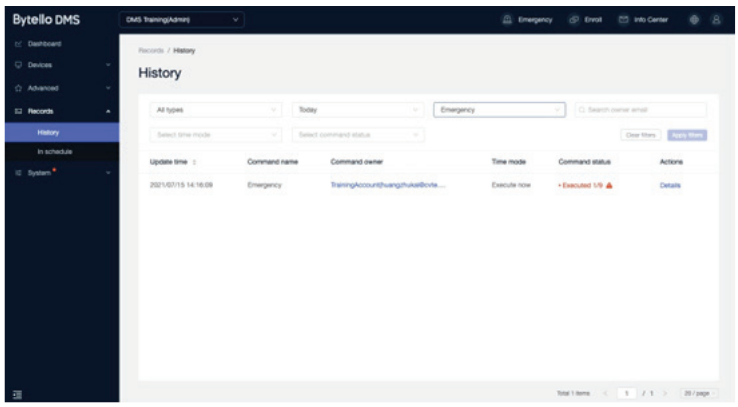
4.4 Dms Software Update

Android device DMS client management features, issued by it administrator DMS client latest version, keep the new version of DMS to support the latest features.



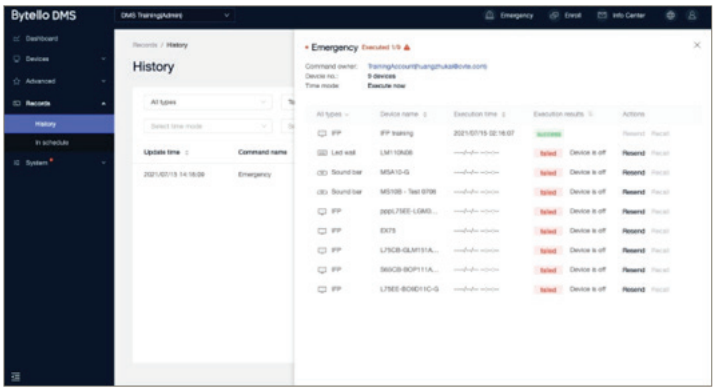
5. Records

5.1 Execution History



Instructions that are executed immediately are sent and then entered into the Execution history list. Timed and the recurring instruction, when the set time is reached, the instruction enters the Execution history list.
The status of the instruction is Executed, and the score indicates the success of the instruction under the current instruction.

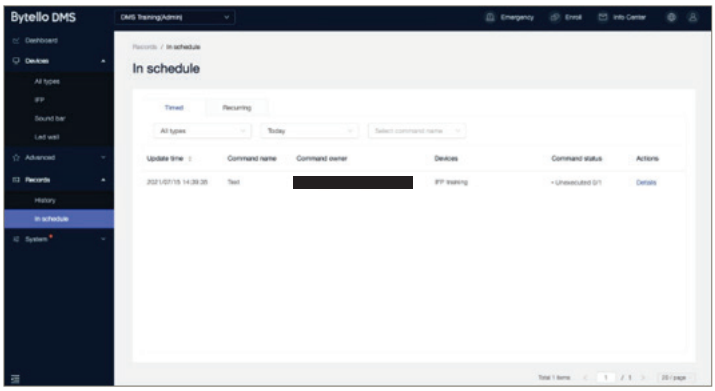
5.2 Command Record Details



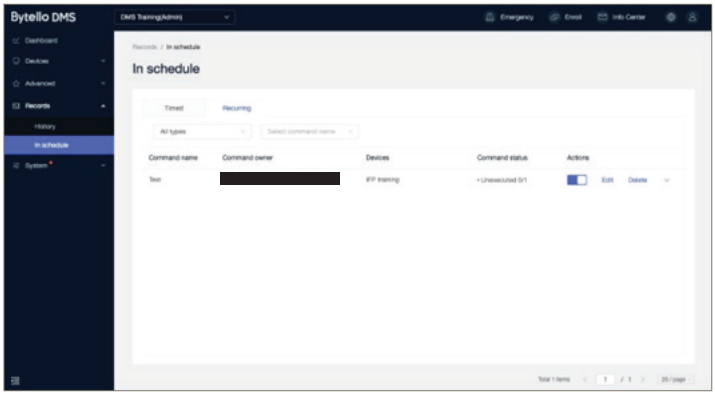
The entrance to the instruction details is available at Execution history as well as in schedule;
Under the details of the equipment execution record of the instruction, you can see the specific execution of each device under the instruction;
The specific Execution results are:
Success, this device has successfully executed this instruction; No action is supported;
Failed, this device failed to execute;
Support for the resend operation, i.e. re-issuing instructions for this device; Recalled, the device has withdrawn the issuance of this directive;
No action is supported;
Wait, this device has not executed this instruction;
Support for recall operations, i.e. recall orders for devices that have not yet been executed;

5.3 Command In Schedule

Timed and the recurring instruction, which enters the Command in schedule list when the set time is not reached. The instruction status is Unexecuted and the score indicates the success of the device execution under the current instruction.



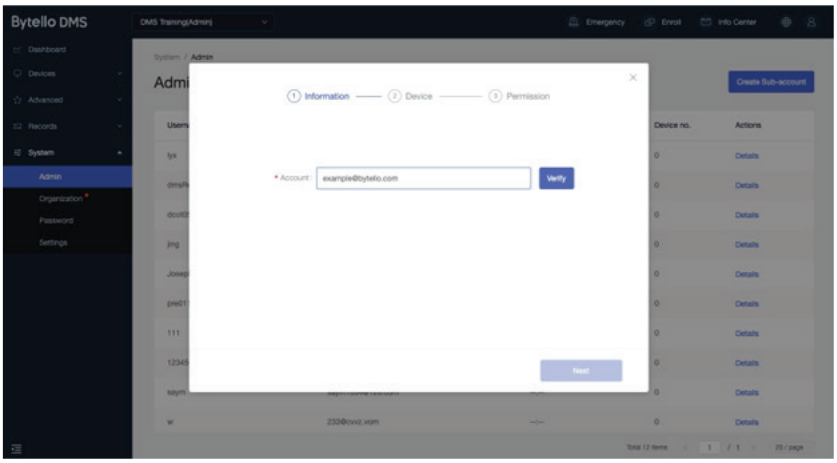
In recurring command, user can close, edit and delete.



6. Admin

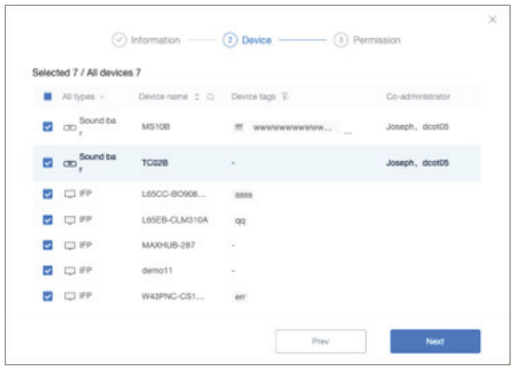
6.1 Create A Sub-Account

6.1.1 Input Email Address



Add a sub-administrator sub-administrator sub-admin entry on the User Management page; The first step is to enter the email address and verify that it already exists in Bytello User Center;
If verification does not already exist in User Center, you will need to set a password;
If verification already exists in User Center, you do not need admin to set a password for sub- admin;

6.1.2 Authorize Devices

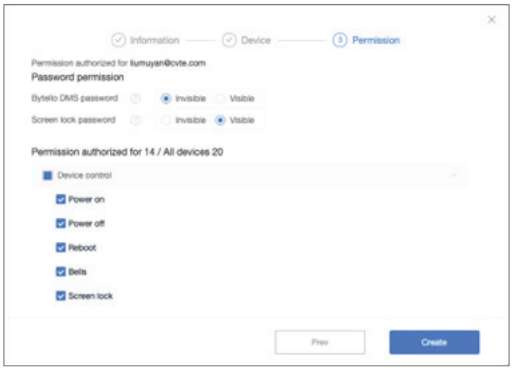


The second step is to select the controlled device for sub-admin;
Devices added again after the device is assigned need to be authorized again;

6.1.3 Authorize Commands

The third step is to set the permissions and functional permissions for the child administrator.

Password visibility permissions



Bytello DMS password:

If the switch is on, this sub-admin can view the client password on the DMS-web-settings page for use when the device is untied;

Screen Lock password:

If this switch is turned on, this sub-admin can view the screen lock password on the DMS- web-settings page when the user's screen is unlocked;

6.2 Sub-Admin Manage

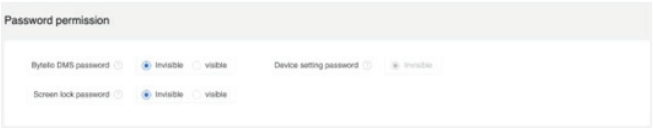
6.2.1 Sub-Admin List

Adding a successful sub-admin appears in the self-account management list. You can view basic information, enter details, and delete it.

6.2.2 Sub-Admin Details

Password visibility permissions

You can set password visibility permissions again for a single account

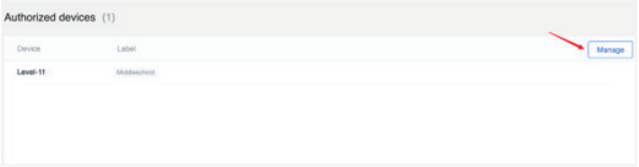


Instruction permissions

You can set the command permissions again for a single account

The device controls the permissions

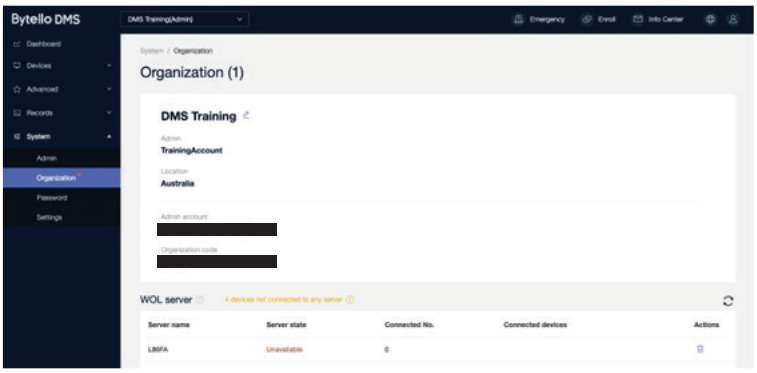
You can set up a controlled device again for a single account



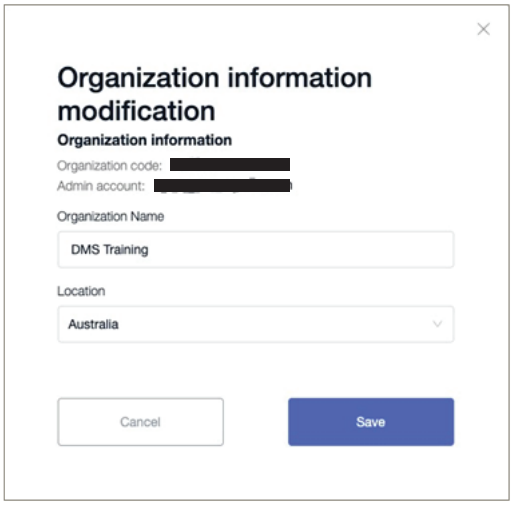
7. System

7.1 ORGANIZATION

Organization name, the name of the organization, to be filled in at the time of registration; Admin username, manager's name, filled in at the time of organization registration;
Location, the area where the organization is located, is completed at the time of registration;

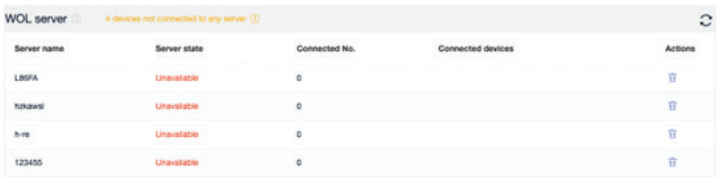


Admin Email, Manager's Mailbox, completed at the time of organization registration;
Organization code, which is self-generated by the system upon completion of the organization registration and is non-changeable;



7.2 Wol Server

Server name, filled in when creating a wake-up server; Server state, server connection state;
Connected devices, the number of devices connected to this server;
Action, which supports the removal of this wake-up server
Devices enrolled but without a WOL server connection will fail Power on command

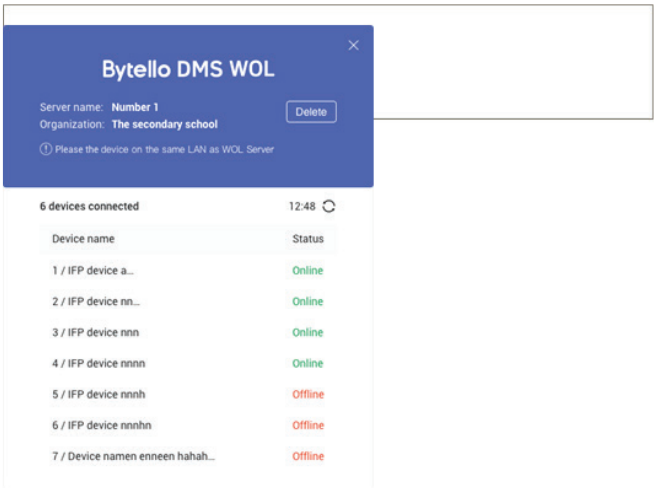


7.3 Password

7.3.1 Bytello Dms Lock

The default is 000000
Can be turned off/on, when the switch is on, admin can set a 6-digit password; When unenroll a device, you need to enter the correct password to operate;

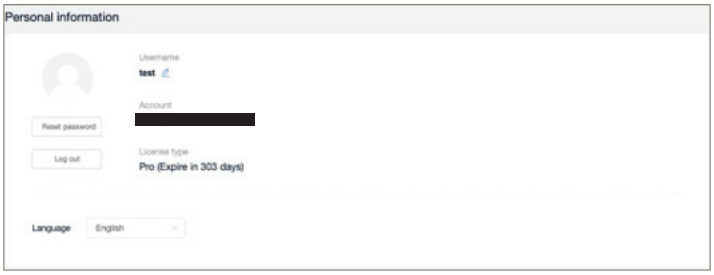
7.3.2 Screen Lock



The default is 000000
The default is permanently on, admin can set a 6-digit password;
Device users can enter and use the lock screen for a period of time by entering the correct password

7.4 SETTINGS

7.4.1 Personal Information



Username is a custom nickname that can be modified on its own Password, support for self-modification

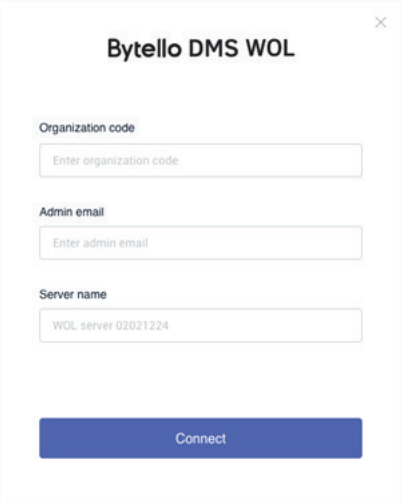
7.4.2 About

You can view user agreements, privacy agreements, and user experience plans.

8. Wol Server

WOL SETUP

Open Bytello DMS WOL, fill in Organization code, Admin email to connect this WOL server to your organization.
Input Server name to distinguish various WOL servers within one organization.



Once WOL server is connected to the organization, it will start to searching devices around it and display device list.