

newline



Newline Device Management PRO

User Manual

Enterprise Device Management Solution

Newline Device Management PRO

User Manual

Part I: Platform Overview

1. Feature Overview

1.1 Introduction to NDM PRO

Newline Device Management PRO is a professional enterprise-grade device management solution designed to help businesses and organizations efficiently manage their deployed smart devices. Through the NDM PRO platform, administrators can centrally monitor, configure, maintain, and secure devices distributed across different locations from a unified console.

NDM PRO is an Enterprise Device Management product specifically designed for lifecycle management of enterprise-grade smart devices. Whether your devices are deployed in offices, schools, or other venues, NDM PRO helps you achieve:

Core Capability	Description
Centralized Management	Manage all devices from a single platform without per-device manual operation
Remote Control	Perform remote operations and maintenance on devices anytime, anywhere
Policy Deployment	Distribute configurations and policies uniformly to ensure device compliance
Real-time Monitoring	Stay informed of device status and promptly detect and resolve issues

Platform Architecture

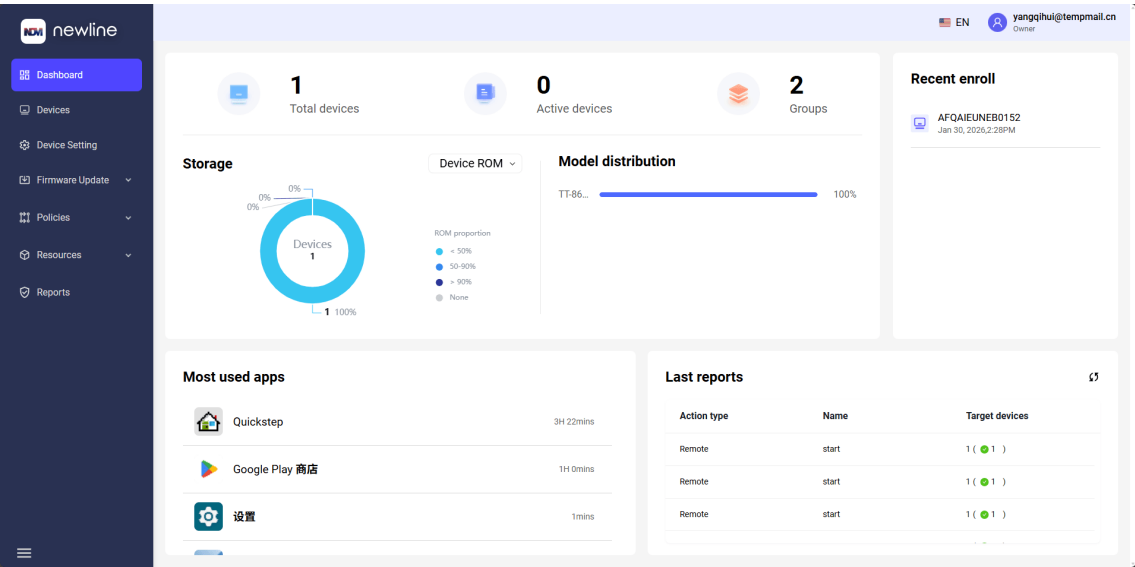
NDM PRO consists of two core components:

Component	Description
Web Console (Control End)	Administrators issue commands via the Web console to control device behavior and functionality

Component	Description
Display End (Controlled End)	Devices respond to received commands and upload operational data to report current status to the Web console

1.2 Core Feature Overview

NDM PRO provides comprehensive device management capabilities. Below are the platform's core functional modules:



Module	Sub-feature	Description
Dashboard	-	System overview page for quickly viewing device status under the current user
Devices	Device List	View all registered devices and their online status
	Device Group	Organize devices by department, location, or purpose
	Device Detail	View detailed device information including hardware, software, and network status
	Device Actions	Perform remote lock, restart, shutdown, factory reset, and other operations
Device Settings	-	Configure device parameters including network, wallpaper & theme, and Newline Settings

Module	Sub-feature	Description
Firmware Update	Firmware Update	Automatically detect the latest firmware version for device updates
	OTA	Manually upload and push firmware packages for updates
Policies	Usage Rules	Restrict device access to apps, websites, and features
	Kiosk	Lock devices into single or multi-app mode for display or self-service scenarios
	Local Profile	Batch-apply scenario-based policies to improve deployment efficiency and consistency
	Workflow	Set up automated tasks triggered by specific conditions
Resources	App	Upload, distribute, and update applications
	File	Push documents, media, and other file resources to devices
	Message	Send notification messages, videos, and website links to devices
	Remote Execute	Execute commands remotely
	Schedule&TriggerSet	Set specific trigger conditions
Reports	-	Display command execution status
Users	-	Add users and assign roles for the current organization
Settings	-	Manage tags, AFW features, and view user operation logs

1.3 Use Cases and User Roles

NDM PRO is suitable for various scenarios that require centralized management of multiple smart devices:

Enterprise Office

- Manage conference room display devices

- Uniformly configure office device parameters
- Remotely maintain devices in branch offices

Educational Institutions

- Manage classroom teaching devices
- Uniformly deploy teaching applications and content
- Set device usage rules to maintain teaching order

2. User Roles and Permissions

2.1 User Roles Overview

NDM PRO provides four preset user roles to meet different levels of management needs:

Role	Description	Typical Permission Scope
Org Admin	Organization's top administrator	Full access to all features, including user management and system settings
Admin	Day-to-day administrator	All permissions except Settings
Operator	Operations staff	All permissions except Settings and User Management
Viewer	Read-only viewer	Read-only access, unable to perform any modifications

2.2 Permission Details

2.2.1 Feature Permission Matrix

The following table details the feature permissions for each role:

Module	Feature	Org Admin	Admin	Operator	Viewer
Device Management	Enroll Device	✓	✓	✓	
	Group Create	✓	✓	✓	

Module	Feature	Org Admin	Admin	Operator	Viewer
	Group Edit (Move to, Rename)	✓	✓	✓	
	Group Delete	✓	✓	✓	
	Remove Device	✓	✓	✓	
	Export to CSV	✓	✓	✓	✓
Device Detail	Screen Setting	✓	✓	✓	
	User Management	✓	✓	✓	
	Policy	✓	✓	✓	
	App Info	✓	✓	✓	
Device Actions	Unit Action	✓	✓	✓	
	Power Action	✓	✓	✓	
	Configuration Action	✓	✓	✓	
	Device Setting	✓	✓	✓	
Policy Management	Usage Rule	✓	✓	✓	
	Kiosk Mode	✓	✓	✓	
	Local Profile	✓	✓	✓	
	Workflow	✓	✓	✓	
Resource Management	App	✓	✓	✓	
	App Management Action	✓	✓	✓	
	Message	✓	✓	✓	
	File	✓	✓	✓	
	Remote Execute	✓	✓	✓	
	Schedule & Trigger	✓	✓	✓	
Firmware Update	OTA Package	✓	✓	✓	
	Firmware Update	✓	✓	✓	

Module	Feature	Org Admin	Admin	Operator	Viewer
Reports	Report	✓	✓	✓	
System Settings	Settings	✓	—	—	
	User Management	✓	✓	—	
	Role Management	✓	✓	—	

Note: ✓ indicates the permission is granted; — indicates no permission.

2.2.2 Data Permissions

Data permissions are scoped by **Device Group**, defining the range of data a user can view and edit. Administrators can assign different group-level data access permissions to users based on the organizational structure.

Part II: System Access and Quick Start

3. System Access and Login

NDM PRO consists of two client applications, each designed for different usage scenarios.

3.1 Web Console Access

The Web console is the primary management interface of NDM PRO, providing full device management functionality.

Access Method 1: Direct Access

- Access the platform URL via a web browser
- Recommended browsers: Chrome, Edge, Firefox

Access Method 2: Via Newline Central

1. Log in to Newline Central
2. Click the shortcut to navigate to NDM PRO

3.2 App End (Display End) Access

The NDM PRO App is pre-installed in the display firmware. To use it:

1. Open the NDM PRO App on the display device
2. Complete the device binding process

4. Quick Start

4.1 System Requirements

Before using the NDM PRO platform, ensure your equipment meets the following system requirements.

4.1.1 Web Console Browser Requirements

The NDM PRO Web console is a browser-based management interface that supports mainstream browsers.

Recommended Browsers:

Browser	Rating	Notes
Google Chrome	★★★★★	Best experience, highly recommended
Microsoft Edge	★★★★☆	Recommended
Mozilla Firefox	★★★☆☆	Fully functional
Apple Safari	★☆☆☆☆	Basic support

Screen Resolution Requirements:

Type	Requirement
Recommended Resolution	1920 × 1080 or higher

4.2 Account Registration and Login

NDM PRO uses an enterprise account management model where user accounts are created and assigned by organization administrators.

How to Obtain an Account

Method	Description
Administrator Creation	Contact your organization administrator to request account creation
Invitation Registration	Complete registration via an invitation email sent by the administrator

Tip: If you are unsure how to obtain an account, contact your organization's IT administrator or system administrator.

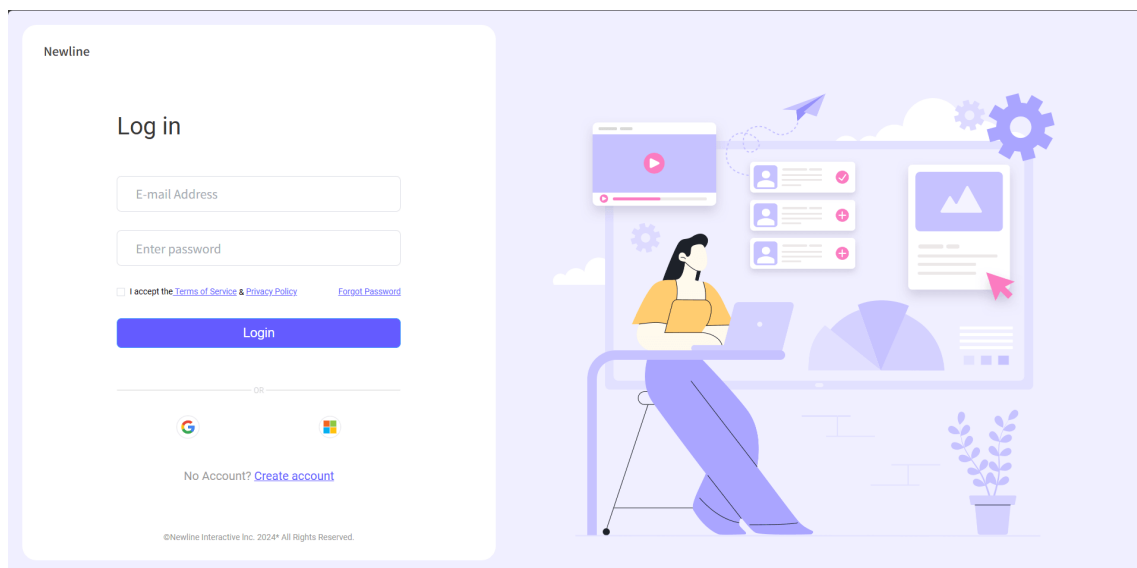
4.2.1 Web Console Login Process

Step 1: Access NDM PRO

1. Open a browser and enter the NDM PRO platform URL in the address bar
2. Press Enter to access the homepage

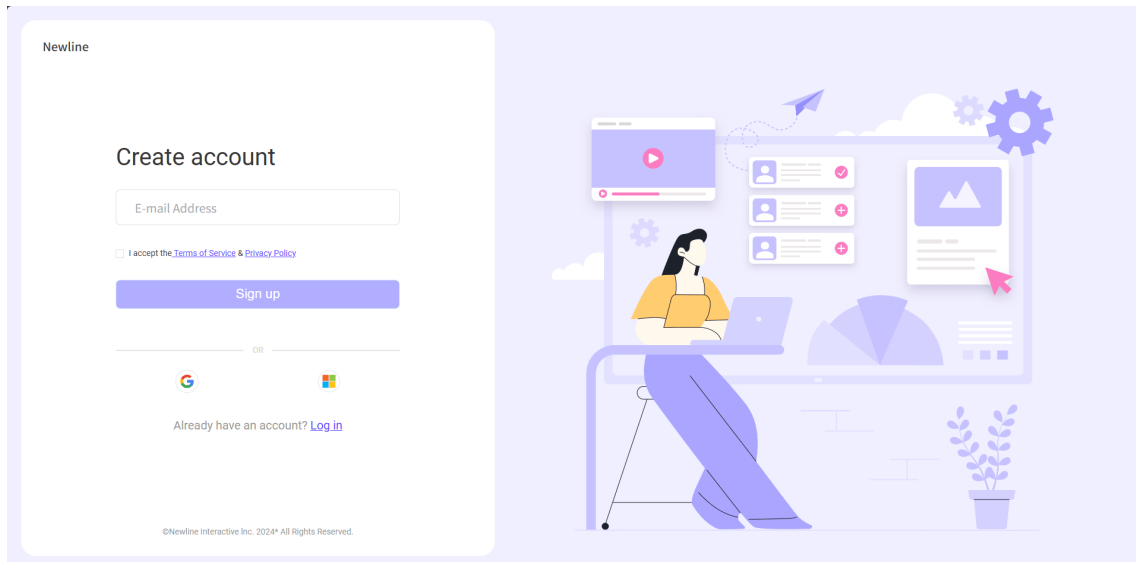
Step 2: Enter Login Information

For first-time login, the system will automatically redirect to Newline Central for authentication:



Field	Description
Username/Email	Enter the username or email assigned by the administrator
Password	Enter your account password
User Agreement	Check to agree to the user agreement

To create a new account, click **Create account:**



Field	Description
Username/Email	Enter your registration email
Password	Set your account password
Organization Name	Choose to join an existing organization or create a new one

Step 3: Complete Login

1. Click the **Login** button
2. Upon successful login, you will be automatically redirected to the Dashboard page

Common Login Issues

Issue	Solution
Forgot password	Click the "Forgot Password" link on the login page to reset via email
Can log in to Newline Check if the Newline Device Management Pro switch is Central but not NDM enabled under Newline Central → Central Management → PRO	Organization Management → Organization Accessibility
Unable to access the Check your network connection, verify the URL is correct, page	and try clearing the browser cache

4.3 First-time Use Notes

Step 1: Confirm Basic Information

- Review and confirm organization information
- Set interface language

Step 2: Add Your First Device (Optional)

Method 1: Via Web Console

- Enter the device SN number
- Batch import using a template

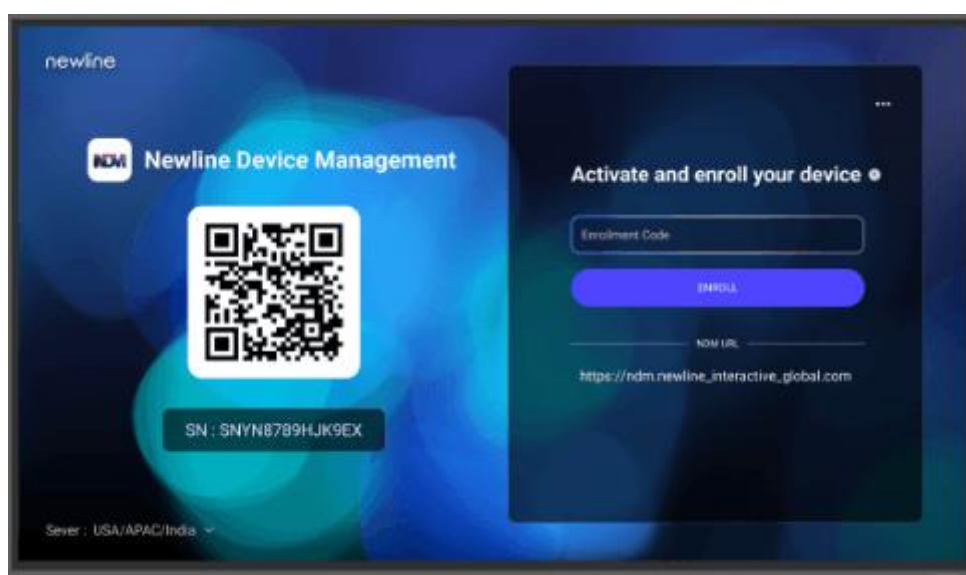
Method 2: Via App End

- Scan the QR code displayed on the screen
- Enter the Enrollment Code from the Web console

5. Device Enrollment

Device enrollment is the first step in connecting display devices to the NDM PRO platform for management. The system supports the following three enrollment methods:

5.1 QR Code Enrollment



Steps:

1. Use a mobile device to scan the QR code displayed on the screen
2. Log in to your Newline Central account

3. Complete the device enrollment process

5.2 Manual Enrollment



Method 1: Enter Enrollment Code

- Manually enter the Enrollment Code shown on the Web console into the display App to complete enrollment

 Zero touch

Import Type: ☒ Single Device ☐ Multiple Device

Device Name

Serial Number

Cancel

NEXT

Method 2: Via Zero Touch Menu

- Click the Zero Touch menu on the Web console
- Enter the device name and SN number to complete enrollment

5.3 Batch Enrollment

 Zero touch ×

Import Type: ☐ Single Device ☒ Multiple Device

1 Please download the link first
[↓ Download Template.xlsx](#)

2 Supports batch upload in Excel file format (*.xls and *.xlsx file can be uploaded)


Drop to Excel files here

Cancel IMPORT

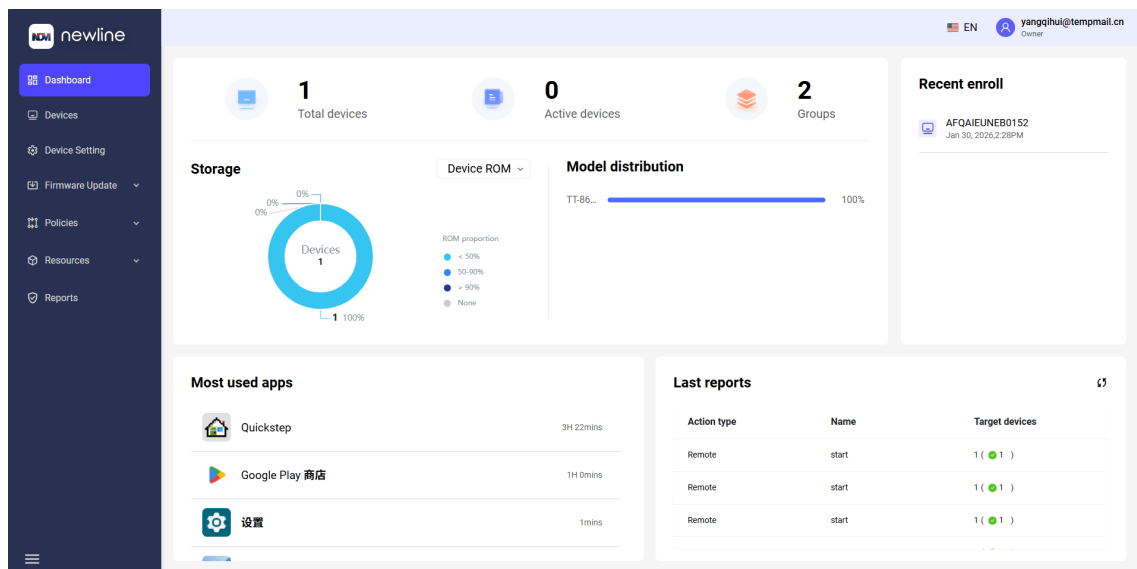
Steps:

1. Click the Zero Touch menu on the Web console
2. Click **Multiple Device**
3. Download the import template
4. Fill in the device information
5. Upload the template to complete batch enrollment

Part III: Feature Guide

6. Dashboard

The Dashboard is the homepage of the NDM PRO platform and the first page you see after logging in. It presents key device management data through intuitive visualizations, helping you quickly grasp the overall operational status.



6.1 Statistics Cards

Total Devices

Item	Description
Display Content	Total number of registered devices on the platform
Data Scope	Includes devices of all statuses (online, offline, pending activation, etc.)
Click Action	Click the card to navigate to the device list page
Update Frequency	Real-time

Online Devices

Item	Description
Display Content	Number of currently online devices
Criteria	Device has reported a heartbeat within the past 10 minutes

Item	Description
Click Action	Click to navigate to the device list
Device Groups	
Item	Description
Display Content	Number of groups added to the platform
Data Scope	Includes all groups under the organization

6.2 Data Visualization Charts

Device Storage Status

- Pie chart showing ROM and RAM space usage for all devices under the organization
- Click to toggle between views

Device Model Distribution

- Bar chart showing the proportion of different device models under the organization
- Displays up to 5 models

6.3 List Information

Most Used Apps

- Displays apps with the longest usage time
- Content: App icon, name, usage duration
- Up to 5 apps displayed

Recently Registered Devices

- Displays recently registered devices
- Content: Device SN number, registration time
- Up to 10 devices displayed

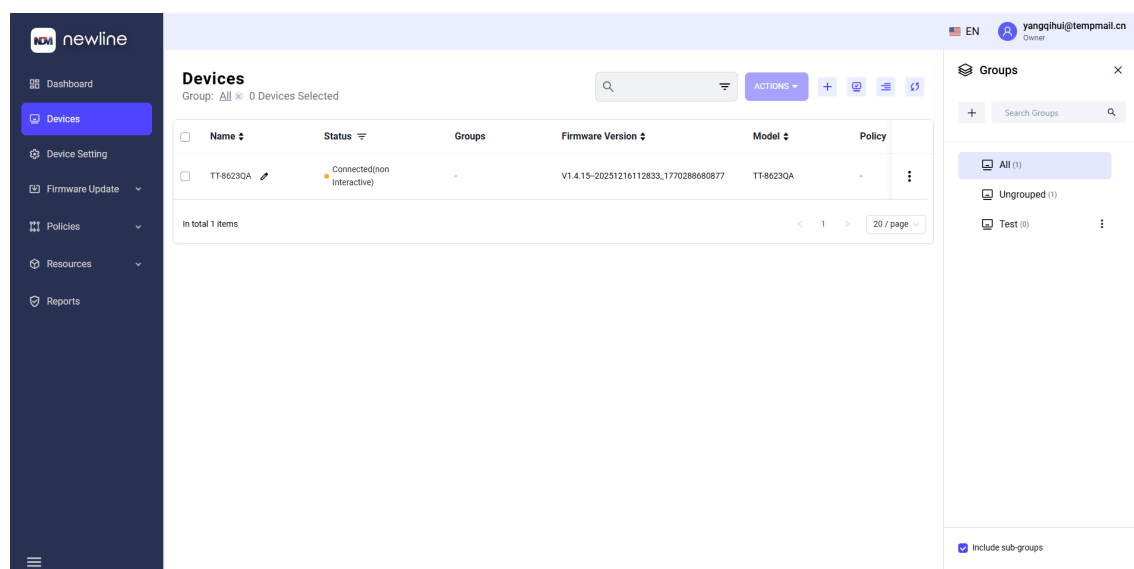
Recently Executed Commands

- Displays recently executed commands
- Content: Command type, number of target devices

- Up to 10 commands displayed

7. Device Management

7.1 Device List



7.1.1 Device List Field Descriptions

Field	Description
Device Name	Displays the device name; supports sorting; can be edited directly
Device Status	Connection status: Connected / Connected (non-interactive) / Disconnected; supports filtering
Groups	Displays the group(s) the device belongs to, including hierarchy information
Firmware Version	Displays firmware version information (version + timestamp)
Model	Displays the device model; supports sorting
Policy	Displays the applied policy name; hover to show all
Email Account	Displays the email account bound in device settings; supports sorting
Tags	Displays all device tags; hover to show all

Field	Description
Wi-Fi	Displays the connected/last connected Wi-Fi name
IP Address	Displays the IP address; supports ascending/descending sorting
Local IP	Displays the local IP address
Serial Number	Displays the serial number; supports ascending/descending sorting
Last Connection Time	Displays the last cloud connection time; supports time-based sorting
APK Version	Displays the display-end APK Agent version; supports sorting
OS Version	Displays the Android OS version; supports multi-select filtering
Registration Time	First registration time; format: YYYY-MM-DD HH:MM
Location	Location information displayed in Country-State/Province format
WLAN Mac Address	Displays the WLAN MAC address
Ethernet Mac Address	Displays the Ethernet MAC address
CPU ABI	Displays CPU ABI information
CPU Info	Displays detailed CPU information
More	Additional action buttons providing Device Actions functionality

7.1.2 Device Filtering

Conditions relation

+

☒ AND
☐ OR

Tags

▼

Contains

▼

Test

▼

🗑️

Status

▼

Contains

▼

Connected

▼

🗑️

SAVE FILTER

Search

Saved filters

Search

🔍

Supports multi-condition device filtering with **And** and **Or** logical operators between conditions.

Supported Filter Fields:

Filter Field	Filter Methods	Description
Tags	is / Contains / Exclude / Doesn't exist	Fuzzy search existing tags; supports multi-select dropdown
Group	is / Contains / Exclude	Fuzzy search device groups; supports multi-select dropdown
Status	Contains / Exclude	Supports multiple status selection
Policy	is / Contains / Exclude / Doesn't exist	Fuzzy search existing policies
Model	is / Contains / Exclude / Doesn't exist	Fuzzy search device models
Android Version	is / Contains / Exclude / Doesn't exist	Search Android OS versions; supports multi-select dropdown
Firmware Version	is / Contains / Exclude / Doesn't exist	Up to 25 characters
Signed-in Email	is / Contains / Exclude / Doesn't exist	Up to 25 characters

Filter Field	Filter Methods	Description
App Installed	Text input	Filter devices with the specified app installed
App Not Installed	Text input	Filter devices without the specified app installed
Last Seen	Later than / Sooner than / Equal / Between	Date picker; minimum unit: day
First Register	Later than / Sooner than / Equal / Between	Date picker; minimum unit: day
WLAN Mac Address	is / Contains / Exclude / Doesn't exist	Up to 25 characters
Ethernet Mac Address	is / Contains / Exclude / Doesn't exist	Up to 25 characters

7.1.3 Device Group

 Groups
 ×

+

🔍

 All (1)

 Ungrouped (1)

 Test (0)
 ⋮

☒ Include sub-groups

The Device Group feature helps you categorize and manage devices by organizational structure, geographic location, or business purpose.

Creating a Group:

1. Click the "+" button in the **Groups** module
2. Enter the group name
3. Click Add to complete

Group Hierarchy:

NDM PRO supports up to **5 levels** of group hierarchy for organized device management.

All Devices

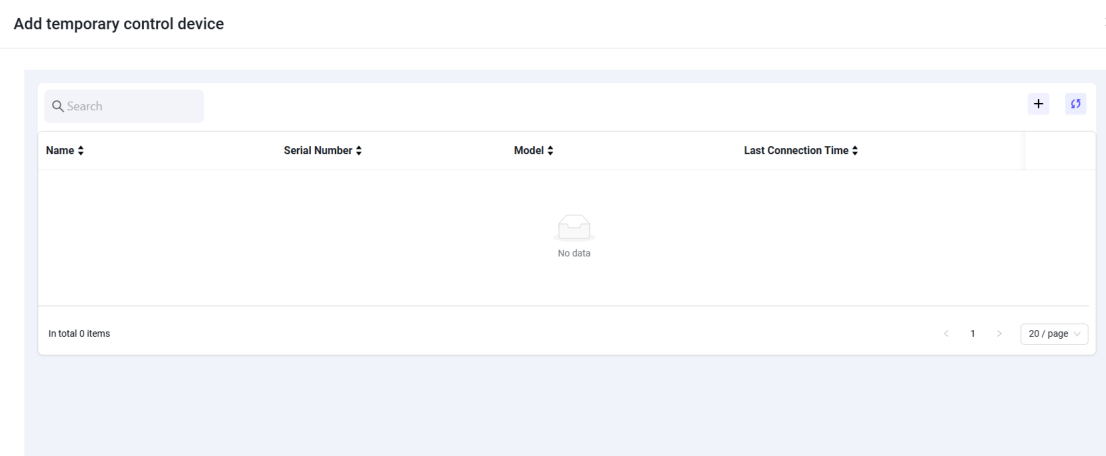


Tip: It is recommended to keep the group hierarchy within 3–4 levels for ease of management.

Editing Groups:

1. Select the target group in the group list
2. Click "..." at the end of the row to open the **Action** menu
3. Select the desired command for batch editing
4. Drag and drop between groups to change hierarchy relationships

7.1.4 Temporary Control



NDM PRO supports cross-organization temporary device control, ideal for administrators remotely assisting with device configuration issues in other organizations.

Adding a Temporary Control Device:

1. Click the "+" button
2. Enter the controlled device's Token (obtain the App-end Token via "..." → "Temporary Control")
3. Once added, the device appears on the Temporary Control page
4. Commands can be issued to devices on the Temporary Control page

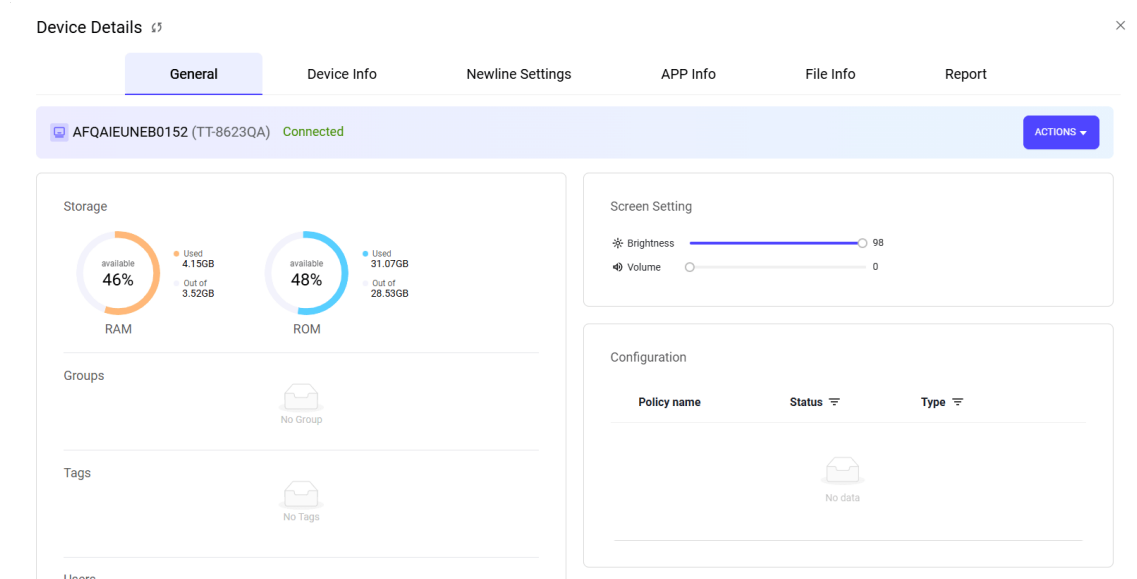
Removing a Temporary Control Device:

- Method 1: Click the device's More button and select **Stop Control**
- Method 2: Temporary control automatically disconnects after 24 hours

7.2 Device Detail

Click a specific device in the Device List to open the Device Detail page. Device details include the following 6 information modules:

7.2.1 General



Field	Description
Top Status Bar	Displays SN (Device Name)
Connection Status	Connected / Connected (non-interactive) / Disconnected
Volume	Current device volume; supports remote adjustment
Brightness	Current device brightness; supports remote adjustment
Configuration	Displays the currently applied policy
Tags	Displays tags bound to the device
Groups	Displays the groups the device belongs to
Multi Users	Displays all users created on the display and the currently logged-in user
Registration Time	Displays the registration date and time
Storage (ROM)	Displays storage usage (Used/Free/Total percentage)

Field	Description
Memory (RAM)	Displays memory usage (Used/Free/Total percentage)
Uptime	Displays device uptime (Days/Hours/Minutes/Seconds)

Multi Users Supported Operations:

- Remove User: Delete a user
- Add User: Add a user
- Switch to: Switch to a different user

7.2.2 Device Info

Device Details

General

Device Info

Newline Settings

APP Info

File Info

Report

AFQAIEUNEB0152 (TT-8623QA) Connected

ACTIONS

Serial Number

AFQAIEUNEB0152

Device Name

TT-8623QA

Model

TT-8623QA

Manufacturer

HHT

Resolution

3840x2016

OS Version

Android 14

APK Version

V 1.0.5

USB Devices

USB Billboard Device , USB Billboard Device .

Ethernet MAC Address

dc:62:94:3a:82:87

Ethernet

On

Ethernet Config

DHCP

IP Address (IPv4)

10.0.32.81

IP Address (IPv6)

fe80::317d:bee:ebd1:2b0b

Gateway

10.0.32.1

Network Mask

255.255.255.0

DNS 1

10.0.52.52

Current Firmware Version

V1.4.15-20251216112833

Location

China,Beijing

Time Zone

GMT+08:00 中国标准时间

Registration Date

2026-01-30 14:28:27

Last Connection Time

2026-02-06 09:47:14

Language

Basic Information:

Field	Description
Serial Number	Device SN
Device Name	Device name
Model	Device model
OS Version	Android version
Email Account	Email account added to the device
APK Version	Display-end APK version
USB Devices	USB device information (device name, product name)

CPU Information:

FieldDescription

ABI Preferred ABI

Info Processor brand + clock speed

Bluetooth Information:**Field Description**

BT Mac Address Bluetooth module MAC address

Bluetooth Status Bluetooth on/off status

Connected DeviceName of currently connected Bluetooth device

Ethernet Information:**Field Description**

Ethernet Mac AddressWired NIC MAC address

Ethernet Wired connection status (On/Off)

Ethernet Config Configuration mode (DHCP/Static)

IP Address (IPv4) IPv4 address

IP Address (IPv6) IPv6 address

Gateway Gateway address

Network Mask Subnet mask

DNS 1 / DNS 2 Primary/Secondary DNS servers

Wi-Fi Information:**Field Description**

Wi-Fi Mac Address Wi-Fi module MAC address

Wi-Fi State Wi-Fi module on/off status

Wi-Fi Connected Wi-Fi name

Wi-Fi Frequency Wi-Fi band (2.4G/5G)

Wi-Fi Signal StrengthWi-Fi signal strength

Public IP Address Public IP address

Local IP Address Private IP address

Other Information:

Field	Description
Current Firmware Version	Current firmware version
Location	Latitude/longitude and location; click to view on map
Time Zone	Device time zone
Registration Date	Registration time
Last Connection Time	Last connection time
Language	Current system language
Lock Status	Device lock status (Locked/Unlocked)

7.2.3 Newline Setting

Device Details [↗](#)

General Device Info **Newline Settings** APP Info File Info Report

AFQAIEUNE0152 (TT-8623QA) Connected ACTIONS

OTA Management

OTA Notification
On

OTA Background Download
On

Date & Time

Set Time Zone Automatically
-

Time Zone
GMT+08:00 中国标准时间

Set Time Automatically
On

Date Format

Profile Management

Enable Guest User
Off

Multi User Mode
On

Admin Password
*** **

Set User Password
-

Automatically Log Out After Inactivity
Now

Automatically Log Out When Shutdown
Off

Enforce Password When Create a New User
Off

Enable Factory Menu Password
-

OTA Management

Setting	Description
OTA Notification	Whether the App end displays OTA reminders
OTA Background Download	Whether OTA downloads silently

Date & Time

Setting	Description
Set Time Zone Automatically	Whether to automatically set the time zone
Time Zone	Current time zone
Set Time Automatically	Whether to automatically obtain the time
Date Format	Date display format
Date & Time	Current time on the App end
Use 24-hour Format	Whether to use 24-hour format

Security

Setting	Description
Settings Lock	When enabled, Settings cannot be accessed
USB Lock	When enabled, USB devices cannot be recognized
Installation Lock	When enabled, apps cannot be installed
Newline Account Service	Cloud account service toggle
Disable Touch	Disables the device's touch functionality
Disable Power Button	Child lock feature
Disable Menu/Brightness/Volume/Home Buttons	Disables front panel buttons

Power

Setting	Description
Auto Power On Time	Auto power-on time configuration
Auto Power Off Time	Auto power-off time configuration
Power Option	Power Off or Sleep

Setting	Description
Energy Saving	Energy saving mode trigger time
Tap to Wake Screen	Touch to wake the device
Signal Source Wake-up	Wake device when a signal source is connected

Screen Eye Filter

Setting	Description
Writing Mode Filter	Enable/disable eye protection mode while writing
Brightness Mode Filter	Enable/disable eye protection based on ambient light
Bluelight Filter	Blue light filter toggle

Language & Input

Setting	Description
Languages	App end system language
Virtual Keyboard	Keyboard used on the App end

Embedded OS

Setting	Description
Embedded OS	When enabled, the display enters non-Android mode

Profile Management

Setting	Description
Enable Guest User	Whether to allow Guest user creation
Multi User Mode	Whether to enable multi-user mode
Admin Password	Admin password (masked display)
Set User Password	Password type setting
Automatically Log Out After Inactivity	Auto logout time after inactivity

Setting	Description
Automatically Log Out When Shutdown	Auto logout on shutdown
Enforce Password When Create New User	Require password when creating new users
Enable Factory Menu Password	Factory menu password toggle
Shared Folder	Shared folder toggle
Shared Folder Clearance Frequency	Shared folder cleanup frequency

Input and Output

Setting	Description
CEC Auto Power On/Off	CEC auto power on/off
Starting Source	Default signal source on startup
HDMI & DP EDID Switch	HDMI/DP EDID version switch
New Input Source	New input source toggle
App Auto-launch	Auto-launch app on startup

Whiteboard Management

Setting	Description
Newline Whiteboard AI	Whiteboard AI feature toggle
Whiteboard Data Removal Frequency	Whiteboard and screenshot data cleanup frequency

Toolbar

Setting	Description
Right/Left Toolbar	Right/Left toolbar display toggle
Quick Settings	Quick settings display toggle
Picture Mode	Picture mode settings

Sound

Setting	Description
Sound Output Selections	Audio output selection
Volume Filter	Current volume
Brightness Filter	Current brightness

7.2.4 App Info

Device Details

General

Device Info

Newline Settings

APP Info

File Info

Report

AFQAIUNE0152 (TT-8623QA) Connected

ACTIONS

Search

App	Status	Usage Time	App Size	User Data	Cache Size	Total Size	Type
NDM Pro / 1.0.5 com.newline.ndmpro	enabled	0 hours 0 minutes	2.36 GB	6.01 MB	5.31 MB	2.37 GB	System
Newline Broadcast / 2... com.newline.broadcastapp	enabled	0 hours 0 minutes	7.11 MB	0 Bytes	0 Bytes	7.11 MB	System
Google 助理 / 0.1.474... com.google.android.apps.googleassistant	enabled	0 hours 0 minutes	0 Bytes	220 KB	204 KB	424 KB	System
文件极客 / 1.7853.77... com.google.android.apps.nbu.files	enabled	0 hours 0 minutes	0 Bytes	2.99 MB	1.1 MB	4.09 MB	System
个人安全 / 2025.06.1... com.google.android.apps.safetyhub	enabled	0 hours 0 minutes	16.14 MB	3.08 MB	1.11 MB	20.33 MB	System
数字健康 / 1.26.7586... com.noodle.android.anns.wellbeing	enabled	0 hours 0 minutes	12.45 MB	4.31 MB	1.23 MB	18 MB	System

Displays the list of installed apps on the display end. The list includes:

Field	Description
Status	Whether the app is disabled
Usage Time	Usage duration
App Size	App storage size
User Data	App user data storage size
Cache Size	App cache storage size
Total Size	Total app storage size
Type	System / 3rdParty

Available Actions via More Menu:

- Start/Stop App: Launch/stop the app
- Enable/Disable App: Enable/disable the app
- Clear App Data: Clear app data
- Uninstall App: Uninstall the app

7.2.5 File Info

Device Details [↗](#)

General Device Info Newline Settings APP Info **File Info** Report

an40090595058120f06 (TT-8623QA) Connected **ACTIONS** ▾

Internal shared s... 22.84 GB / 59.6 GB Used/Total

Search  

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/block/by-name/cust	247.85 MB	7.85 MB	234.88 MB	4%	/mnt/cust
/dev/block/by-name/oem_a	24.11 MB	28 KB	23.19 MB	1%	/oem
/dev/block/dm-0	1.79 GB	1.79 GB	0 B	100%	/
/dev/block/dm-10	15.78 MB	15.75 MB	0 B	100%	/apex/com.android.tethering@341610020
/dev/block/dm-11	720 KB	692 KB	16 KB	98%	/apex/com.android.sdext@341510000
/dev/block/dm-12	232 KB	104 KB	124 KB	46%	/apex/com.android.scheduling@341510000

- Supports switching file sources via dropdown: Internal Storage / SD Card
- Supports search, export, and viewing **Property**

7.2.6 Reports

Device Details [↗](#)

General Device Info Newline Settings APP Info File Info **Report**

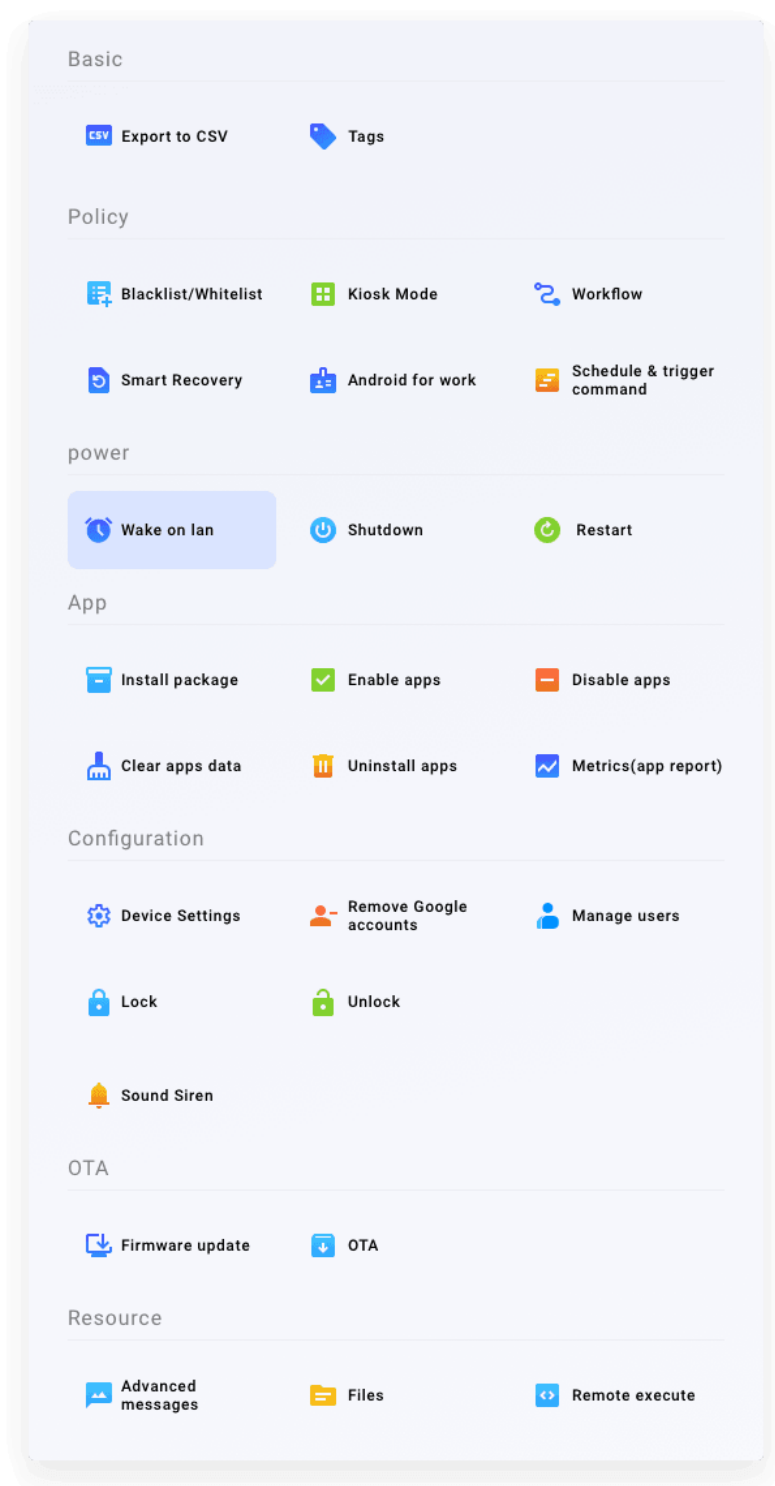
AFQAIEUNE0152 (TT-8623QA) Connected **ACTIONS** ▾

Action Type	Name	Activation Type	Status	User	Operator Email	Actions
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	
Remote	start	One-off	Success	1 (1)	yangqihui@tempmail.cn	

In total 30 items < 1 2 > 20 / page Go to

Displays the execution status and results of commands received by the device.

8. Device Action



Device Action supports issuing commands to individual devices, as well as batch command issuance via multi-select or group-based methods.

8.1 Basic

Action	Description
Export to CSV	Export device information as CSV; choose to export all columns or currently displayed columns
Edit Tags	Add/remove device tags; supports fuzzy search and multi-select
Move to	Move devices to another group

8.2 Power

Action	Description
Restart	Restart the display device
Power Off	Shut down the display
Wake on LAN	Network wake-up; devices must be on the same LAN

8.3 Configuration

Action	Description
Remove Account	Remove the email account logged in on the device
Manage Device Users	Add/delete device users
Lock	Enter lock screen mode
Unlock	Unlock the device
Device Settings	Open the Device Setting library for configuration
Change APK Password	Change the App-end password
Siren	Trigger an alarm sound on the device

8.4 App Management

Action	Description
Enable App	Enable an app
Disable App	Disable an app
Clear Apps Data	Clear app data

Action	Description
Uninstall App	Uninstall an app
Install Apps	Install apps; opens the Resource - App page
App Reports	View app usage data

8.5 Policy

Action	Description
Usage Rules	Opens the Policy - Usage Rules page
Kiosk	Opens the Policy - Kiosk page
Local Profile	Opens the Policy - Local Profile page
Workflow	Opens the Policy - Workflow page

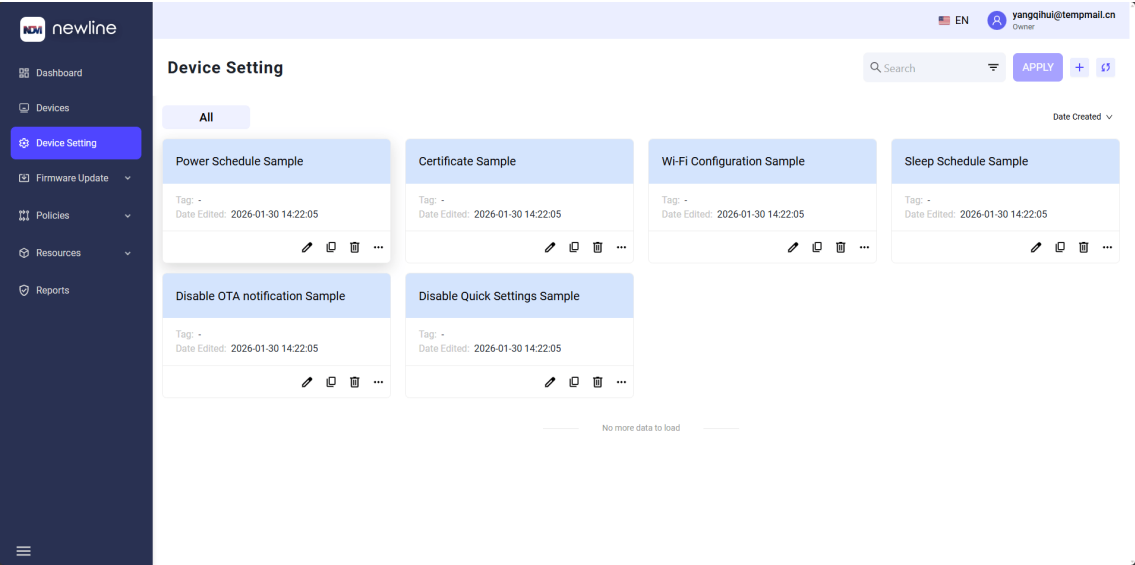
8.6 Firmware Update

Action	Description
Firmware Update	Opens the Firmware Update page
OTA	Opens the OTA Package Deployment page

8.7 Resource

Action	Description
Remote Execute	Opens the Resource - Remote Execute page
Message	Opens the Resource - Message page
Files	Opens the Resource - Files page

9. Device Setting



The Device Setting feature allows you to remotely configure device system parameters without on-site operation. Through the NDM PRO platform, you can push settings to individual or multiple devices simultaneously.

9.1 Key Features

Feature	Description
Remote Configuration	Configure devices remotely without physical access
Batch Deployment	Push the same configuration to multiple devices simultaneously
Configuration Templates	Create templates for quick application to new devices

9.2 Delivery Mechanism

Device Status	Behavior
Online	Configuration is delivered and applied immediately
Offline	Configuration is saved and automatically synced when the device comes online

9.3 Workflow

1. Log in to the NDM PRO platform
2. Click **Device Settings** in the left navigation menu
3. Enter the Device Settings management page
4. Select a preset template to deploy, or create a new Device Setting and deploy it

Note: Each organization account comes with preset templates that can be used directly.

9.4 Creating a New Device Setting

Device Setting

Basic

Device Setting

Name

Tags

+

Color

Description

Read only

NEXT CONFIRM

Step 1: Fill in Basic Information

1. Click the "+" button
2. Enter a name
3. Select Tags (optional)
4. Choose a display color
5. Add a description
6. Set as read-only (optional)
7. Click **Next**

Step 2: Configure Network Settings

Setting	Description
Wi-Fi	Configure Wi-Fi connection (network name, security type, password, proxy, etc.)
Forget Wi-Fi	Configure Wi-Fi networks to forget
Wi-Fi Hotspot	Configure hotspot (name, security type, band) and USB tethering
Install Certificate	Upload certificates (Wi-Fi / CA / VPN certificates)
Other Settings	Ethernet, Wake on LAN, LAN Control, Bluetooth toggle

Wi-Fi Security Type Options:

- None / Enhanced Open (no password required)
- WEP / WPA/WPA2-Personal / WPA3-Personal
- WPA/WPA2-Enterprise / WPA3-Enterprise / WPA3-Enterprise 192-bit

Step 3: Configure Wallpaper & Display

1. Upload wallpaper image (≤10MB)
2. Set wallpaper fill mode: Stretch / Fill
3. Select Theme: Google theme / Newline Q theme / Newline Z theme / Don't Change
4. Set Logo: Upload a Launcher logo image

Step 4: Configure Newline Setting

- Configure various Newline Setting parameters
- Each setting supports three states: **On** / **Default** / **Off**

9.5 Deploying a Device Setting

Apply to devices or users

Select and apply settings to specific Devices or Groups. This is a one-time configuration; no automatic updates will

Group: All Devices
0 Devices Selected

Current user

Search

☐	Name	Serial Number	Device ID	Tags
☐	TT-8623QA	AFQAIUNE0152	2017122721875767297	-

In total 1 items

20 / page

All (1)
Ungrouped (1)
Test (0)

☐ Included sub-groups

CANCEL

APPLY

1. Select a Device Setting
2. Click **Apply**
3. Select devices in the popup (single or multi-select)
4. Click **Apply** to complete deployment

10. Policy

10.1 Introduction

newline

EN yangqihui@tempmail.cn

Usage Rules

Search APPLY +

All Date Created

Disable Account Modification Sample

Target devices: 0
Date Edited: 2026-01-30 14:22:05

✎ 📄 ⋮

Settings Lock Sample

Target devices: 0
Date Edited: 2026-01-30 14:22:05

✎ 📄 ⋮

Block Streaming Apps Sample

Target devices: 0
Date Edited: 2026-01-30 14:22:05

✎ 📄 ⋮

Webpage Blocking Policy Sample

Target devices: 0
Date Edited: 2026-01-30 14:22:05

✎ 📄 ⋮

Google Blocking Sample

Target devices: 0
Date Edited: 2026-01-30 14:22:05

✎ 📄 ⋮

No more data to load

In multi-device management scenarios, administrators need a centralized approach to uniformly apply rules and restrictions across different devices or users to ensure security, compliance, and operational efficiency. The **Policy module** enables centralized, standardized, and reusable configuration management.

10.2 Policy Categories

Policy Type Description

Usage Rules	Deploy restriction/prohibition policies to display devices
Kiosk	Transform devices into single-purpose terminals
Local Profile	Batch-apply scenario-based policies for improved deployment efficiency and consistency
Workflow	Support flexible and multi-combination scenario deployments

10.3 Policy Application Rules

- Each device can only bind **one policy per category**
- Binding a new policy of the same category will automatically replace the existing one
- Example: Device A can simultaneously bind Usage Rule B, Kiosk C, Local Profile D, and Workflow E

10.4 Policy Application Methods (Apply Target)

Method	Description
Devices	Associate policies with user-selected devices
Smart Groups	Automatically apply policies to all devices within a group

Smart Groups Characteristics:

- When devices are added to or removed from a group, policies are automatically applied or removed accordingly
- Only affects the selected group node; does not affect unselected subgroups

- Moving a device group under a policy-linked group does not trigger automatic policy association
- The two application methods are mutually exclusive

10.5 Policy Trigger Methods

Trigger	Description
Immediate	Policy is delivered and takes effect immediately
Schedule & Trigger	Triggered by conditions configured in Resource - Schedule & Trigger

10.6 Workflow

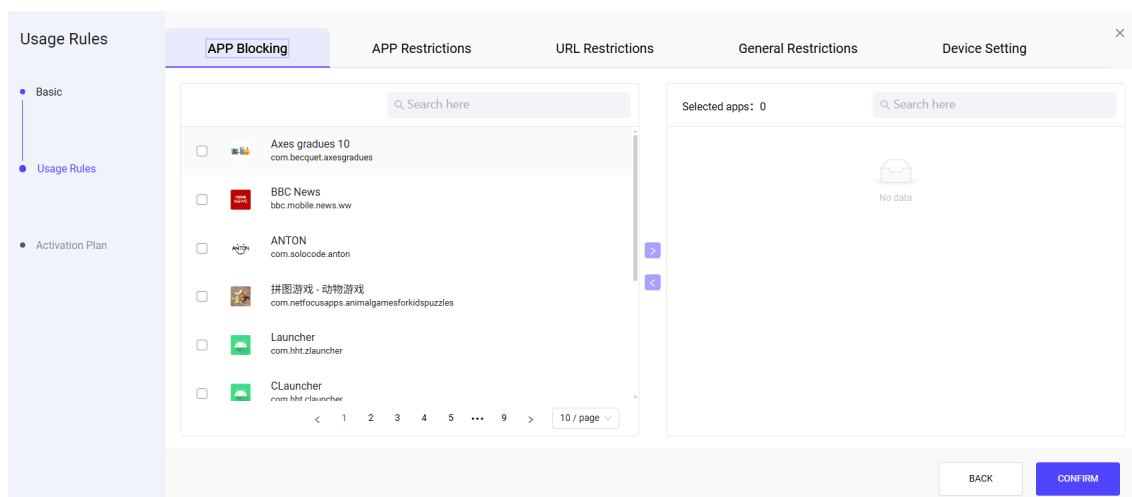
1. Log in to the NDM PRO platform
2. Click **Policy** in the left navigation menu
3. Select Usage Rules / Kiosk / Local Profile / Workflow
4. Select a preset template to deploy, or create a new Policy

10.7 Creating a New Policy

Common Steps:

1. Click the "+" button
2. Enter a name
3. Set availability (enabled by default)
4. Choose a display color
5. Add a description
6. Set as read-only (optional)
7. Click **Next** to proceed to specific configuration

10.7.1 Usage Rules



App Blocking

- Select installed apps to restrict access
- Functions similarly to Disable App

Apps Restrictions

Restriction	Description
Enforce App Verification	Prevent users from disabling app verification
Block App Uninstallation	Prevent app uninstallation
Block Unknown Sources Installation	Prevent installation from unknown sources
Block App Installation	Prevent app installation
Block App Control	Prevent app control

URL Restrictions

Option	Description
None	No URL restrictions
Allow List	Website whitelist
Block List	Website blacklist

General Restrictions

Account Restrictions:

Restriction	Description
Block User Removal	Prevent user removal
Block User Addition	Prevent user addition
Block User Management	Prevent user management
Block Credential Configuration	Prevent credential configuration (CA certificates, etc.)
Block Location Sharing	Prevent sharing of geographic location information

Connectivity:

Restriction	Description
Block USB File Transfer	Prevent USB file transfers
Block Network Reset	Prevent network reset
Block Wi-Fi Configuration	Prevent Wi-Fi configuration
Block Wi-Fi Toggle	Prevent Wi-Fi on/off toggle
Block VPN Configuration	Prevent VPN configuration
Block Tethering Settings	Prevent tethering and hotspot configuration

Panel Restrictions:

Restriction	Description
Block Password Changes	Prevent user login password changes
Block Settings Access	Hide and disable settings entry
Block Background & Theme Changes	Prevent background and theme changes
Block Roaming Profile Apply	Prevent Roaming Profile from modifying background/theme

Restriction	Description
Lock Volume	Lock volume level
Force Microphone Mute	Force microphone mute

Data Storage:

Restriction	Description
Block Factory Reset	Prevent factory reset
Block External Storage Access	Prevent external storage device access

Debug:

Restriction	Description
Block Developer Mode	Prevent access to developer mode
Block Safe Boot Mode	Prevent entering safe boot mode

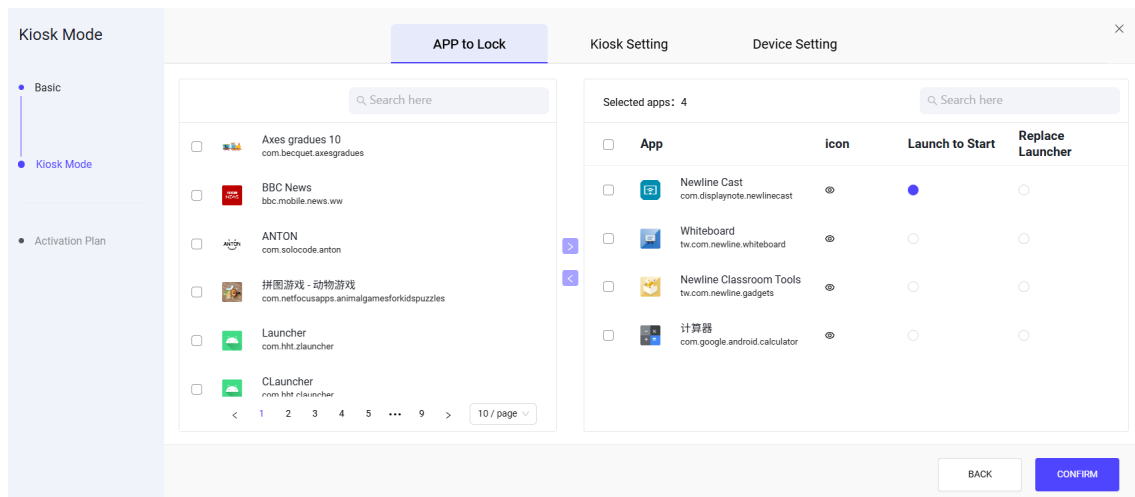
Device Setting

- Select a configuration from the saved Device Setting library

Schedule & Trigger

- Choose Sync Right Now or select a trigger condition from Schedule & Trigger

10.7.2 Kiosk



Apps to Lock

- Provides an immersive mode allowing only selected apps to be used on the device
- Supports showing or hiding app icons on the Kiosk desktop
- Supports setting a default startup app (Launch on Start)
- Supports replacing the default Launcher (Replace Launcher)

Kiosk Setting

Setting	Description
Wallpaper	Wallpaper settings (≤10MB); configurable fill mode
Enable Wi-Fi Selector	Wi-Fi selector toggle
Enable Bluetooth Selector	Bluetooth selector toggle

Device Setting & Schedule&Trigger

- Same as Usage Rules

10.7.3 Local Profile

Local Profile

- Basic
- Local Profile
- Activation Plan

APP

Files

Remote Execute

Device Setting

APP

+ Add App

BACK

CONFIRM

Setting	Description
App	Opens Resource - App; supports multi-select
Files	Opens Resource - Files; supports multi-select
Remote Execute	Opens Resource - Remote Execute; supports multi-select
Device Setting	Select a configuration from the Device Setting library

10.7.4 Workflow

Workflow

- Basic
- Workflow
- Activation Plan

+ Add action

Time out

applyDeviceSettings

Wi-Fi Configuration Sample

☐ Stop on failure
 ☐ Wait until done

timeOut

Wait for 00:05

☐ Stop on failure
 ☐ Wait until done

Install App

ILA

☐ Stop on failure
 ☐ Wait until done

timeOut

Wait for 00:05

☐ Stop on failure
 ☐ Wait until done

Install App

Spotify

☐ Stop on failure
 ☐ Wait until done

timeOut

Wait for 00:05

☐ Stop on failure
 ☐ Wait until done

BACK

CONFIRM

Supported Actions:

Category	Actions
Power	Restart / Power Off / Wake on LAN

Category	Actions
Configuration	Remove Account / Manage Device Users / Lock / Unlock / Device Settings / Change APK Password / Sound Siren
App Management	Enable App / Disable App / Clear Apps Data / Uninstall App / Install App
Update	OTA / Firmware Update
Resource	Remote Execute / Message / Files

Workflow Configuration Options:

- **Timeout:** Each Action can have a timeout of up to 59 seconds
- **Maximum Actions:** Up to 20 Actions can be added
- **Stop if Failed:** Whether to stop the entire Workflow if a step fails
- **Wait for Completion:** Whether to wait for each step to complete before executing the next

10.8 Deploying a Policy

Apply to Device

Apply to devices or users

Group: All Devices
0 Devices Selected

Current user
Search

☐	Name ↕	Serial Number ↕	Device ID ↕	Tags
☐	TF-8623QA	AFQAIELINEB0152	2017122721875767297	-

In total 1 items
1 / 20 / page

CANCEL
APPLY

1. Select a Policy
2. Click **Apply → Device**
3. Select devices (single or multi-select)
4. Click **Apply**

Apply to Smart Group

Apply to devices or users

✕

0 Group Selected

Current user

Search

Name	Serial Number	Device ID	Tags
TF-8623QA	AFQAIUEUNE80152	2017122721875767297	-
In total 1 items			

Test (0)

CANCEL

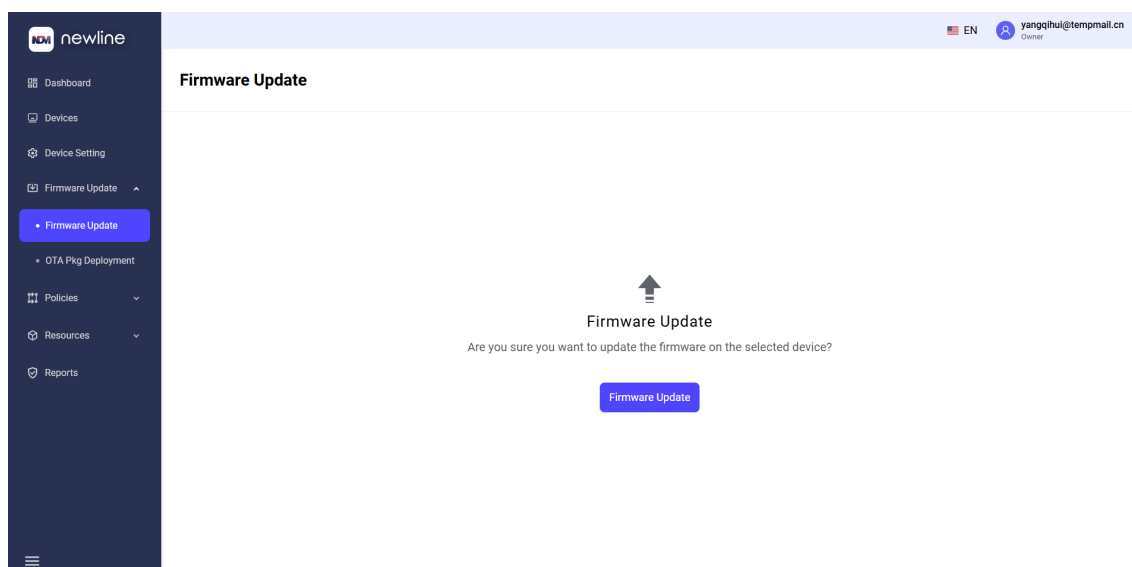
APPLY

1. Select a Policy
2. Click **Apply** → **Smart Group**
3. Select groups
4. Click **Apply**

11. Firmware Update

The Firmware Update module provides two update methods: **Firmware Update** (interface detection) and **OTA Package Deployment** (push update packages).

11.1 Firmware Update

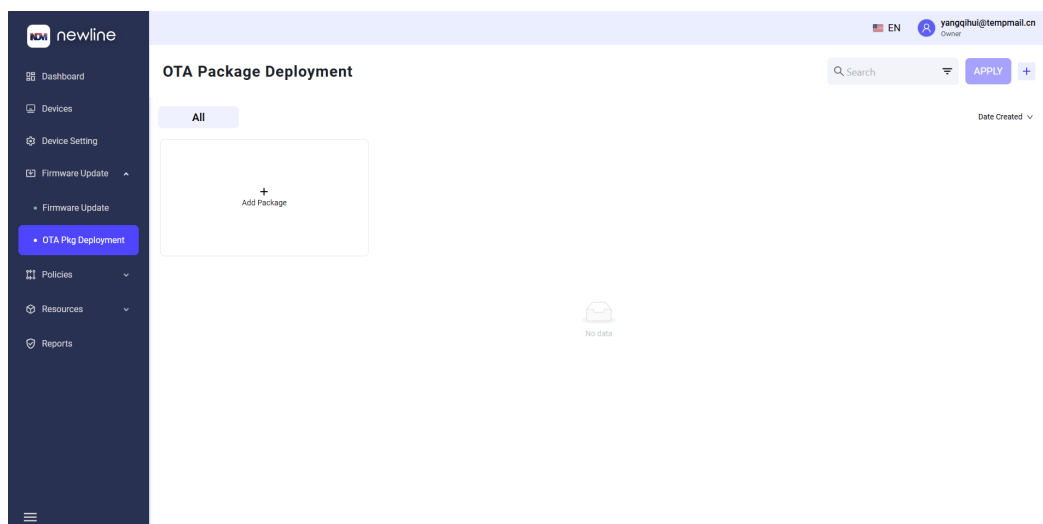


Steps:

1. Click the **Firmware Update** button

2. Select the devices to upgrade
3. Click **Apply** to issue the update command

11.2 OTA Package Deployment



Add Firmware Update

×

Name

URL

Hash Value

Version Number

Description

Tags

+

Color

Read only

CANCEL

CONFIRM

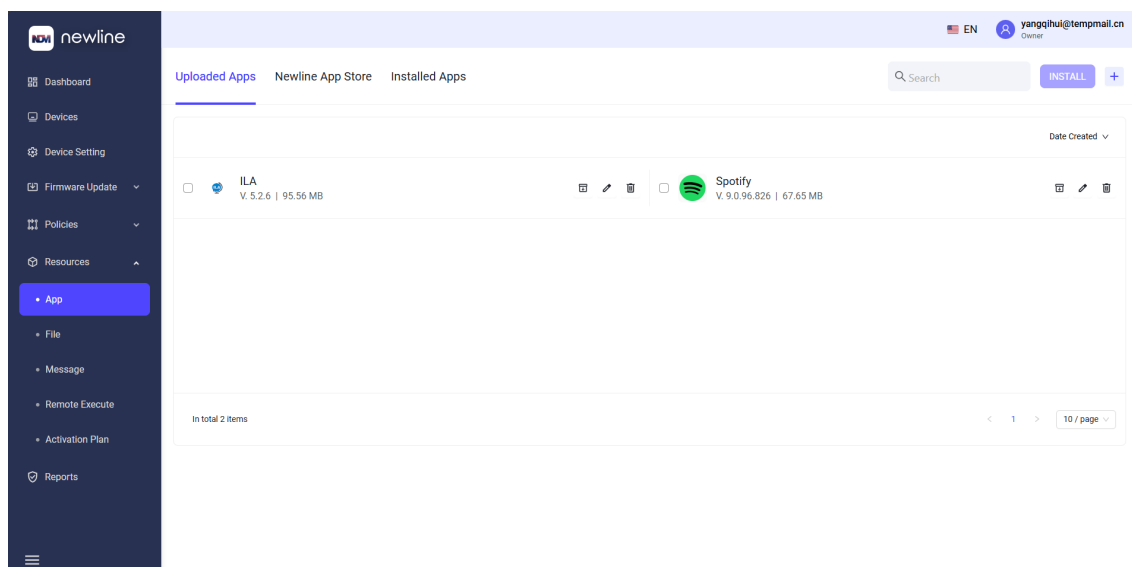
Steps:

1. Enter the OTA command name
2. Enter the OTA package URL
3. Enter the OTA package hash value
4. Enter the OTA package version number
5. Add a description
6. Enter a Tag
7. Choose a display color
8. Set as read-only (optional)

9. Click **Confirm** to deploy

12. Resource

12.1 App



The App module supports three methods for management and distribution:

Method	Description
Manual Upload	Upload APK files locally / via Google Store URL / via third-party URL
Newline App Store	Select apps from the Newline App Store
Installed Apps	View only; cannot deploy for installation

12.2 Message

Message

Basic

Message

Message Type

Popup Message

Popup Message

Media Message

Video

Embed URL/HTML

BACK

CONFIRM

The Message module supports four message types:

Type	Description
Text	Push text messages
Image/Audio	Push image or audio files
Video	Upload video files locally or enter a YouTube URL
URL/HTML	Push web links or HTML content

12.3 File

File

Basic

File

Create File

Select upload method

Upload

Upload

File from URL

Drop to Excel files here

Destination Path

BACK

CONFIRM

The File module supports two upload methods:

Method	Description
Local Upload	Select local files and specify the target path
URL Upload	Upload via URL and specify the target path

12.4 Remote Execute

Edit Remote Execute

×

Name

Check User ID List Sample

* Command

pm

Arguments

list users | awk -F[{:}] ' /UserInfo/{print \$2 "\t" \$3}'

Description

☒ Collect result ?

Color

Read only

☐

CANCEL

CONFIRM

Remote Execute supports issuing commands to display devices via ADB Shell.

- You can choose to return execution results in the Report

⚠ Warning: Ensure you understand the consequences of a command before issuing it. Executed commands are **irreversible**.

12.5 Schedule & Trigger

Activation Plan

Basic

Activation Plan

Select trigger

Power on

Geofencing

Network connection

Application

Power on

Timing

BACK CONFIRM

Schedule & Trigger provides 5 trigger methods:

Trigger	Configuration
Geofencing	Select a region on the map; set actions for entering/exiting the geofence
Network Connection	Set a network name; configure actions for connecting/disconnecting
App	Specify an app; set actions for opening/closing the app
Power On	Triggered when the device powers on
Time Range	Set time range, execution time, and whether to repeat

13. Report

As platform capabilities grow, the volume of commands, tasks, and events increases significantly. The **Report module** provides a unified log page for recording, querying, and analyzing all system actions.

Report

01/07/2026 -- 02/06/2026 Search

Action Type	Name	Activation Type	Target Devices	Operator Email	Update Time
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 13:56
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 13:51
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 13:51
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 13:43
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 11:41
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 11:40
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 11:38
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 11:25
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 11:14
Remote	start	One-off	1 (1)	yangqihui@tempmail.cn	02-03-2026 11:13
Remove policy	-	One-off	1 (1)	yangqihui@tempmail.cn	01-30-2026 15:01

13.1 List View

Field	Description
Action Type	Command type (Temporary Control commands are marked with TC)
Name	Command template name
Activation Type	Activation type (One-off / Timing / Geofencing / Network Connection / App / Power On)
Target Devices	Number of target devices; Smart Group displays a group icon
Success	Number of devices where execution succeeded
Failure	Number of devices where execution failed
Pending	Number of devices waiting/executing/partially succeeded
Operator Email	Email of the administrator who issued the command
Updated Time	Last updated time
Creation Time	Creation time
Operation	Additional actions (Stop Action / Resend Action / Resend to Unsuccessful Devices)

13.2 Detail View

Report Devices (One-off_remoteControl: start)

Search

X

1 Succeed 0 Error 0 Pending



Name	Serial Number	Groups	Status	User	Update Time	Action
TT-8623QA	AFQAIEUNE0152	ungrouped	Success	1 (1)	02-03-2026 13:56	

In total 1 items

< 1 > 20 / page

Devices View:

Field	Description
Device Name	Target device name
Device SN	Device serial number
Device Group	Group the device belongs to
User	User execution status (shows user count and respective execution statuses)
Execution Status	Overall judgment based on device and user status
Update Time	Supports time-based sorting
Detail	Detailed return content or error reasons

Smart Group View:

- Displays Group list
- Shows devices within the selected group
- Other fields are the same as the Devices view

14. Users

14.1 Users

< Users Roles

Search



☐	Name	Email	Role	Access groups	Status	Creation time
☐	yangqihui@tempmail.cn	yangqihui@tempmail.cn	Owner	2	Enable	Jan 30, 2026, 2:22 PM

In total 1 items

< 1 > 20 / page

Adding a User:

1. Click the "+" button
2. Enter the email address
3. Select a role
4. Click **ADD** to send an invitation email

14.2 Roles

<	Users	Roles	Q Search	+	📄	🔗
☐	Role	Description				
☐	Owner	owner				👁
☐	Org Admin	org Admin				👁
☐	Admin	admin				👁
☐	Operator	operator				👁
☐	Viewer	Viewer				👁
In total 5 items			< 1 > 20 / page ▾			

Adding a Custom Role:

1. Click the "+" button
2. Enter the role name
3. Add a description
4. Set feature permissions

15. Settings

Organization Tags Android Enterprise Logs ×					
Search logs for Email, Operati... ⬇ ⬅					
☐	User Email	Operation Time ↕	Operation	Description	Type ≡
☐	yangqihui@tempmail.cn	2026-02-06 16:01:08	Log in	-	None
☐	yangqihui@tempmail.cn	2026-02-06 15:52:28	Log in	-	None
☐	yangqihui@tempmail.cn	2026-02-06 15:34:12	File	User Manual	Edit
☐	yangqihui@tempmail.cn	2026-02-06 15:32:47	Message	Alert	Edit
☐	yangqihui@tempmail.cn	2026-02-06 13:45:16	Log in	-	None
☐	yangqihui@tempmail.cn	2026-02-05 19:49:00	Group	Test	Edit
☐	yangqihui@tempmail.cn	2026-02-05 19:30:35	Log in	-	None
In total 44 items < 1 2 3 > 20 / page ▾ Go to 					

15.1 Organization

Setting	Description
Organization Name	Current organization name
Region	Organization's region
Require Users Permission for Remote	When enabled, the display shows a confirmation dialog before remote control starts (disabled by default)
Reset All Enrollment Code	Reset all enrollment codes under the organization

15.2 Tags

- Displayed by category: Device Tags / OTA Tags / Device Setting Tags
- Supports tag search and creation
- Supports editing tag names and deleting tags

15.3 Android Enterprise

Android Enterprise related configurations.

15.4 Logs

- Records operation logs from Web console users
- Displays: operator email, operation time, and operation details

Appendix Glossary

Term	Description
NDM PRO	Newline Device Management Pro, an enterprise-grade device management platform
Device	A managed display device
Policy	A set of rules for unified device behavior management
Kiosk	Kiosk mode; locks devices into single or multi-app mode
OTA	Over-The-Air; wireless firmware update
Workflow	An automated task execution flow
Smart Group	An intelligent device group that supports automatic policy application
Schedule & Trigger	A condition-based policy execution plan

Document Information

Item	Details
Document Name	NDM PRO User Manual
Version	V1.0
Target Audience	End Users
Created	February 2026

Item	Details
Last Updated	16/09/2026

This manual is subject to updates based on product version releases. For any questions, please contact technical support.

newline



Thank You

Newline Device Management PRO
User Manual