

ProMGR User Manual

VERSION 1

2024

ProDVX reserves the right to update or modify the information in this User Manual at any time without prior notice. While we strive for accuracy, ProDVX is not liable for any errors or omissions in the content. Users are encouraged to consult the latest version of this manual and contact i.promgr@prodvx.com for any clarifications or additional information.

PM

- 1. Introduction5
- 2. Getting Started6
 - 2.1. License & Subscription Information6
 - 2.1.1. License Information for ProMGR Kiosk6
 - 2.1.2. Subscription Plans and Benefits6
 - 2.1.3. How to Obtain a License and Subscription7
 - 2.2. Installation and Activation7
 - 2.2.1. Installation Options for ProMGR Kiosk7
 - 2.2.2. Device Activation and Initial Setup.....8
 - 2.2.3. Installing ProMGR on Devices Without Pre-Installation8
 - 2.2.4. Activating on Devices with ProMGR Pre-Installed..... 11
 - 2.2.5. Logging into ProMGR Cloud..... 14
- 3. ProMGR Kiosk 15
 - 3.1. Kiosk Mode: Launcher, Browser, and Single App..... 15
 - 3.1.1. General Kiosk Mode Settings..... 16
 - 3.1.2. Kiosk Browser Mode Setup..... 18
 - 3.1.2.1. Web Content Settings:..... 19
 - 3.1.2.2. Web Browsing Settings: 22
 - 3.1.2.3. Web Zoom & Scaling.....23
 - 3.1.2.4. Web Auto Reload..... 23
 - 3.1.2.5. Advanced Web Setting..... 25
 - 3.1.3. Setting Up Single App Mode27
 - 3.1.4. Further Setup Information. Exit Single App Mode. 28
 - 3.1.5. Universal Launcher Capabilities 30
 - 3.2. Device Management Functions & Security 31
 - 3.2.1. Device Management Settings 31
 - 3.2.2. Power Settings 33
 - 3.3. Device Remote Control and Security Settings..... 33
 - 3.3.1. Remote Administration settings. 33

- 3.3.2. Device Owner Settings..... 34
- 3.4. Advanced Kiosk Security and Management 36
 - 3.4.1. Other Settings 36
 - 3.4.2. Toolbar and Appearance Settings 38
- 4. ProMGR Cloud 40**
 - 4.1. Key Benefits of ProMGR Cloud 40
 - 4.2. Example Use Cases..... 41
 - 4.3. Device Monitoring and Control 42
 - 4.3.1. Real-Time Monitoring Dashboard 42
 - 4.3.2. Device Status and Alerts 43
 - 4.3.3. Device Information 44
 - 4.3.4. Alarms..... 45
 - 4.4. User Management 46
 - 4.4.1. Account Configurations 46
 - 4.4.2. Sub-Account Management 47
 - 4.4.3. Delegating Permissions to other Accounts 47
 - 4.4.4. Action Logs 48
 - 4.5. Device Groups Management 48
 - 4.5.1. Adding and Removing Devices 49
 - 4.6. Remote Management 51
 - 4.6.1. Fast Admin Actions 51
 - 4.6.2. Scheduler 53
 - 4.6.2.1. User case: How to schedule the dally reboot for ProDVX devices. 53
 - 4.6.3. Remote Admin 55
 - 4.6.3.1. Additional Device Information 55
 - 4.6.3.2. Dedicated Functionality..... 56
 - 4.6.3.3. Further Setup Information. Set the Single App Mode Remotely. 56
 - 4.7. File Exchange 57
 - 4.7.1. Controlled Storage 57

- 4.7.2. Remote Application Management 58
- 4.7.3. Remote File System Access 59
- 5. Provisioning and Deployment 60
 - 5.1. Configuration Files 60
 - 5.1.1. How to Create a Configuration File 60
 - 5.1.2. How to Edit a Configuration File 60
 - 5.1.3. Importing and Exporting Configuration Files 60
 - 5.1.4. Example: Uploading Configuration from a Pre-prepared Device..... 61
 - 5.2. Easy Deployment 61
 - 5.2.1. Creating Activation Codes 61
 - 5.2.2. Editing Provisioning Profiles 62
 - 5.2.3. Example: Preparing an NFC Card/Tag for APPC-10SLBe Deployment 62

ProMGR user manual.

1. Introduction



ProMGR is a device management solution designed specifically for ProDVX hardware, providing centralized control, monitoring, and configuration options that simplify the deployment and ongoing management of ProDVX devices. Built to meet the needs of diverse industries—such as retail, hospitality, corporate, and public services—ProMGR streamlines device setup, facilitates efficient device monitoring, and enhances operational efficiency through a cloud-based platform.

With ProMGR, organizations can:

1. **Remotely Manage Devices:** Administrators can perform critical management tasks such as updating software, rebooting devices, adjusting settings, and monitoring device status—all from a single interface, regardless of the physical location of each device.
2. **Customize User Experiences:** ProMGR offers several operational modes, including Kiosk Mode and Single App Mode, allowing organizations to tailor the user experience on each device. Whether devices are used for interactive kiosks, digital signage, or secure information displays, ProMGR enables precise customization and content control.
3. **Enhance Security and Control:** ProMGR includes features like PIN access protection, and customizable idle timeouts, ensuring devices remain secure and are used as intended. These security options provide peace of mind and align with industry standards for device protection.
4. **Streamline Provisioning and Deployment:** Through easy-to-manage configuration files and activation codes, ProMGR makes it simple to set up and deploy multiple devices with pre-configured settings. This approach reduces setup time, minimizes configuration errors, and supports bulk deployments.

ProMGR user manual.

2. Getting Started

ProMGR user manual. Getting Started.

2.1. License & Subscription Information

ProMGR operates on a license and subscription model. A valid license and active subscription are required to unlock ProMGR's Cloud advanced capabilities.

A **ProMGR license is mandatory** to use both the ProMGR Kiosk and ProMGR Cloud versions. The license grants you the essential right to access and operate the ProMGR Kiosk version on your ProDVX device.

Once licensed, you have the **option to add a ProMGR Cloud subscription**. This subscription unlocks ProMGR's remote access and management capabilities, enabling features such as real-time device monitoring, remote commands, and centralized control.

ProMGR user manual. Getting Started. License & Subscription Information.

2.1.1. License Information for ProMGR Kiosk

A ProMGR license grants users permission to deploy ProMGR Kiosk software on their ProDVX devices, enabling access to essential device management and security features.

Devices:

- ProDVX devices in the **R23 Series or newer** are eligible for a complimentary ProMGR Kiosk license.
- **Older ProDVX models** (pre-R23) require a one-time activation fee of 10 EUR per device.

License Activation: Licenses are activated on each device individually, linked to the device's unique serial number, and allow for remote device management and monitoring.

ProMGR user manual. Getting Started. License & Subscription Information.

2.1.2. Subscription Plans and Benefits

A ProMGR subscription provides continuous access to ProMGR Cloud, offering enhanced features like remote monitoring, application control, and firmware updates.

1. **Subscription Options:** Users can select from **1-year or 3-year subscription plans**, both billed annually.

2. Benefits of Subscription:

- **Real-Time Device Monitoring:** Monitor devices from a single, centralized dashboard.
- **Remote Management:** Send commands, reboot, and manage device settings remotely.
- **Automatic Firmware Updates:** Ensure all devices run the latest software with scheduled updates.
- **User and Access Management:** Configure user permissions, create sub-accounts, and log administrative actions.

ProMGR user manual. Getting Started. License & Subscription Information.

2.1.3. How to Obtain a License and Subscription

1. **Contact Sales:** Reach out to your ProDVX account manager or email sales@prodvx.com to request licenses and select a subscription plan.
2. **Receive Activation Key:** Upon purchase, an activation key will be provided for each device license.
3. **Activate Subscription:** Your ProMGR account will be linked to the chosen subscription plan, and devices will be eligible for ProMGR Cloud access.

ProMGR user manual. Getting Started.

2.2. Installation and Activation

ProMGR provides flexible installation options to suit a range of deployment needs, whether you're installing it on a single ProDVX device or deploying across multiple devices. This section guides users through the installation process, device activation, and setting permissions to ensure the system is configured correctly for secure, streamlined management.

ProMGR user manual. Getting Started. Installation and Activation.

2.2.1. Installation Options for ProMGR Kiosk

ProMGR can be installed directly on compatible ProDVX devices, offering two primary methods for installation:

- **(Online or Offline) Direct Installation via Device Settings:** ProMGR can be installed by accessing the device's settings menu and selecting the software installation option. Although straightforward, this method is not recommended, as it does not set ProMGR as a Device Owner, resulting in missing key features.
- **(Online) Installation via NFC:** ProMGR supports installation using NFC configuration files. Administrators can create a standardized configuration file with preferred settings, enabling multiple devices to be installed simultaneously. This method also automatically sets the activation code, reducing setup time. For NFC installation, the device must be connected to the internet.
- **(Online or Offline) Installation via ADB:** Installing ProMGR via ADB is recommended and requires a computer connection. For successful installation, refer to the "Device Activation and Initial Setup" section below.
- **(Online or Offline) Installation via Start Up Wizard:** Devices equipped with the latest firmware include an Installation Wizard, which guides new devices through setup. This method is recommended for initial installations.

ProMGR user manual. Getting Started. Installation and Activation.

2.2.2. Device Activation and Initial Setup

Before beginning installation, ensure you have the required licenses and subscriptions for ProMGR. If you do not have these details, please contact your account manager. An internet connection is also required for activation.

ProMGR setup differs depending on the device you're working with:

- ProMGR comes pre-installed, via Start-Up Wizard, on all ProDVX devices equipped with firmware A24 or newer.
- For other devices, ProMGR requires a manual installation.

ProMGR user manual. Getting Started. Installation and Activation.

2.2.3. Installing ProMGR on Devices Without Pre-Installation

If your device does not come with ProMGR pre-installed, follow these steps for manual installation:

Step 1: Download the Correct ProMGR Application Package (APK)

ProDVX recommends downloading the latest ProMGR APK file from the [ProDVX Support Site](#) to ensure compatibility and access to the newest features.

Step 2: Install ProMGR Using ADB

To install the ProMGR application, use Android Debug Bridge (ADB) on your PC or Mac. In this example, we're using "ProMGR-Kiosk-Browser-v1.0e.apk" as the APK file name. Substitute this with the actual file name when performing the installation.

1. Start the ADB server:

```
adb start-server
```

2. Install the ProMGR APK:

```
adb install ProMGR-Kiosk-Browser-v1.0e.apk
```

command should return: Success

3. Set ProMGR as the device owner:

```
adb shell dpm set-device-owner com.prodvx.promgr/de.ozarov.fully.DeviceOwnerReceiver
```

command should return: Success

```
C:\ADBTool\CMD>adb start-server

C:\ADBTool\CMD>adb install ProMGR-Kiosk-Browser-v1.0e.apk
1654 KB/s (6112812 bytes in 3.608s)
Success

C:\ADBTool\CMD>adb shell dpm set-device-owner com.prodvx.promgr/de.ozarov.fully.DeviceOwnerReceiver
Success: Device owner set to package ComponentInfo{com.prodvx.promgr/de.ozarov.fully.DeviceOwnerReceiver}
Active admin set to component {com.prodvx.promgr/de.ozarov.fully.DeviceOwnerReceiver}

C:\ADBTool\CMD>adb reboot
```

Note: For further details on ADB installation and usage, please refer to the ADB user manual (coming soon).

Step 3: Reboot the Device

You can reboot the device using an ADB command or by powering the device off and back on manually.

Step 4: Start the ProMGR Application

After rebooting, ProMGR should start automatically. If it does not, manually start the app by tapping the ProMGR icon.

Step 5: Activate the Device

For the initial activation, enter the activation code provided by your account manager. For future installations, you may generate a provisioning-specific activation code—see the provisioning chapter for details.

Step 6: Enable Required Permissions

Follow on-screen prompts to enable the permissions required by ProMGR. Tap **“Get permissions”** to start this process. Below are the necessary permissions (for Android 12 AOSP models—permissions may vary by Android version):

- **Run in Background:** Select **“Allow”** to keep ProMGR running continuously.
- **Notification Access:** Grant **“Allow”** to receive required notifications.
- **Display Over Other Apps:** Switch **ProMGR Kiosk Browser** to **“Allowed”**.
- **Usage Access:** Enable **“Permit usage access”**.
- **Modify System Settings:** Set **“Allow modifying system settings”**.
- **Install Unknown Apps:** Enable **“Allow from this source”** for ProMGR.

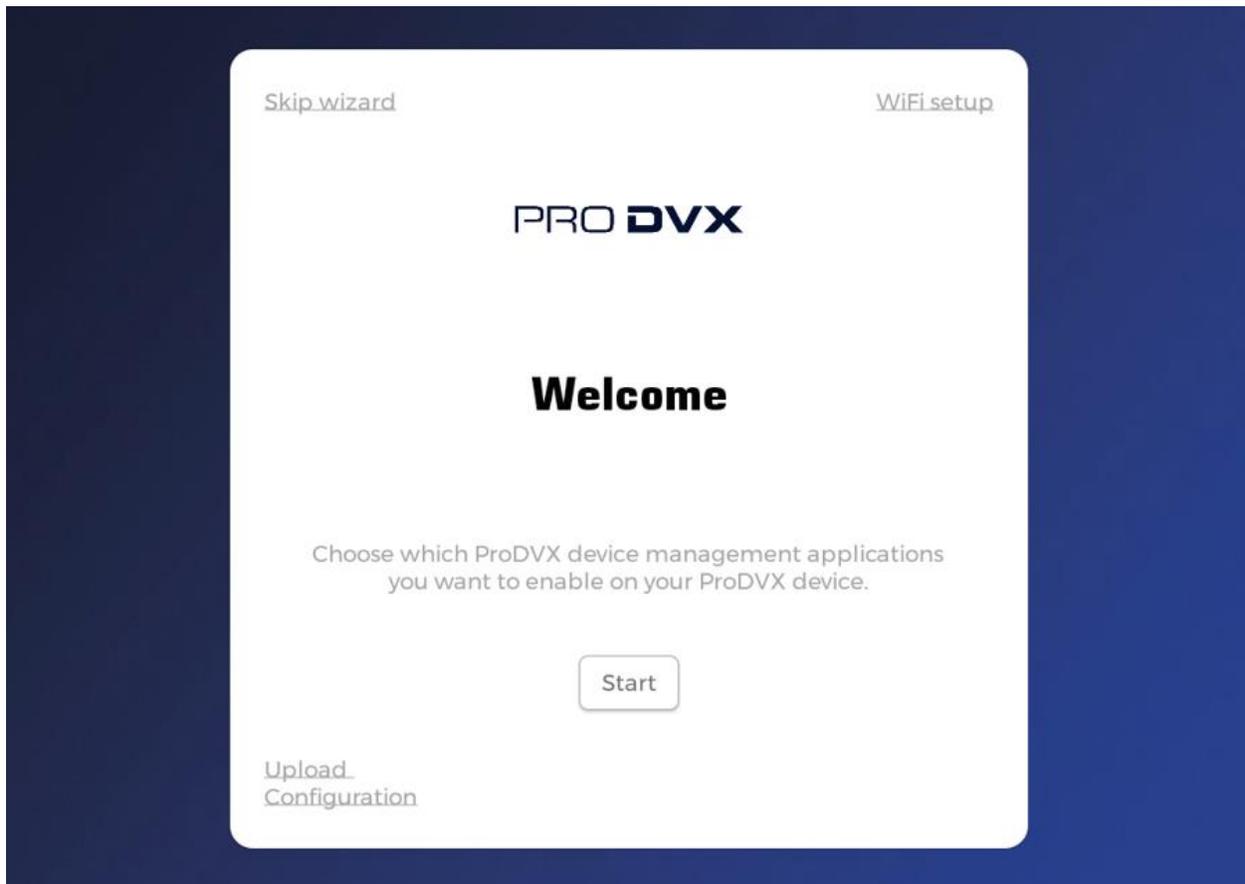
After enabling all permissions, tap **“Continue”** to complete setup. The device will load the ProDVX onboarding page.

ProMGR user manual. Getting Started. Installation and Activation.

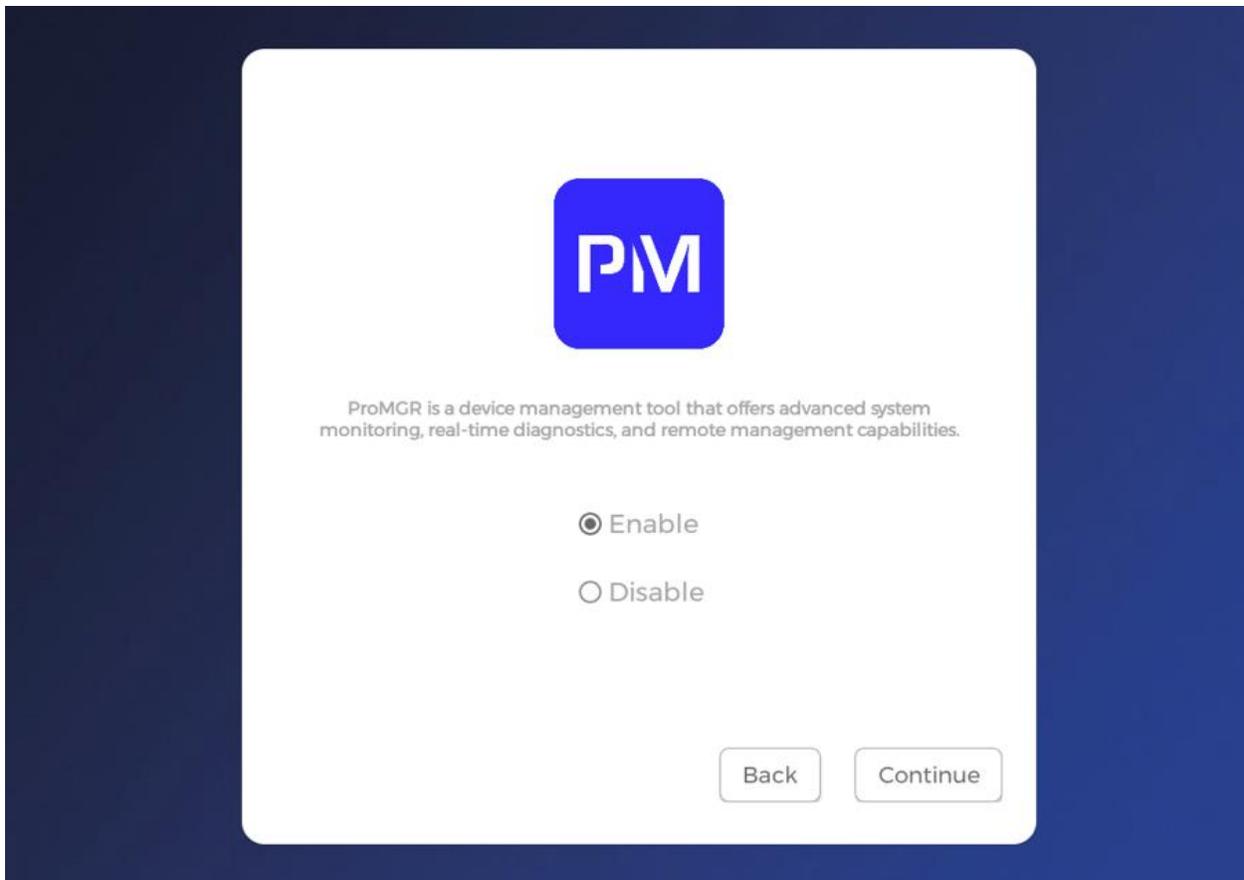
2.2.4. Activating on Devices with ProMGR Pre-Installed

For devices with ProMGR pre-installed, follow these steps to activate and configure ProMGR:

Step 1: Start the Configuration Wizard



Tap **“Start”** to begin configuration. When prompted, select **“Enable ProMGR”** and click **“Continue”**.



Step 2: Configure ProDVX API (Optional)

In most cases, the ProDVX API is optional. For this setup, select **“Disable”**. If your configuration requires API use, consult the ProDVX API manual (coming soon).

Step 3: ProDVX Autostart

If you are using ProMGR Kiosk Browser, Autostart is generally not needed. In this example, select **“Disable”**. If Autostart is needed for your setup, consult the ProDVX Autostart manual.

Step 4: Reboot the Device

Once configuration is complete, reboot the device to finalize setup.

Step 5: Activate the Device



Device Activation

Activity Log:
 ProMGR Kiosk Browser 1.0e
 Device SN: 10SLBR232300003
 Device Mac: B8:2D:28:69:92:F6
 Device ID:
 Starting provisioning activity

Activation Code

CONTINUE

Enter the activation code provided by your account manager to complete activation.

Step 6: Grant Permissions



Device Activation

Activity Log:
 ProMGR Kiosk Browser 1.0e
 Device SN: 10SLBR232300003
 Device Mac: B8:2D:28:69:92:F6
 Device ID:
 Starting provisioning activity
 Getting provisioning profile for
 Configuration !0ActivationProDVXzeroLicense will be imported, won't add to an enterprise, will add to ProMGR (group ProMGR_presentation)
 Importing settings... Done

Press Get Permissions button, grant missing runtime permissions and press Back Button to return

GET PERMISSIONS



Follow the instructions to enable permissions, as requested:

1. Tap **“Get permissions”** to start.
2. Respond to each prompt:
 - a. **Allow ProMGR Kiosk Browser to take pictures and record video:** Select **“While using the app”**.
 - b. **Allow ProMGR Kiosk Browser to record audio:** Select **“While using the app”**.
 - c. **Run in Background:** Select **“Allow”**.
 - d. **Notification Access:** Select **“Allow”**.
 - e. **Display Over Other Apps:** Change to **“Allowed”**.

- f. **Usage Access:** Enable **“Permit usage access”**.
- g. **Install Unknown Apps:** Set to **“Allow from this source”**.

Once permissions are granted, tap **“Continue”** to finish. The device will then load the ProDVX onboarding page.



Device Activation

Activity Log:
 ProMGR Kiosk Browser 1.0e
 Device SN: 10SLBR232300003
 Device Mac: B8:2D:28:69:92:F6
 Device ID:
 Starting provisioning activity
 Getting provisioning profile for
 Configuration ID ActivationProDVXzeroLicense will be imported, won't add to an enterprise, will add to ProMGR (group ProMGR_presentation)
 Importing settings... DoneDone

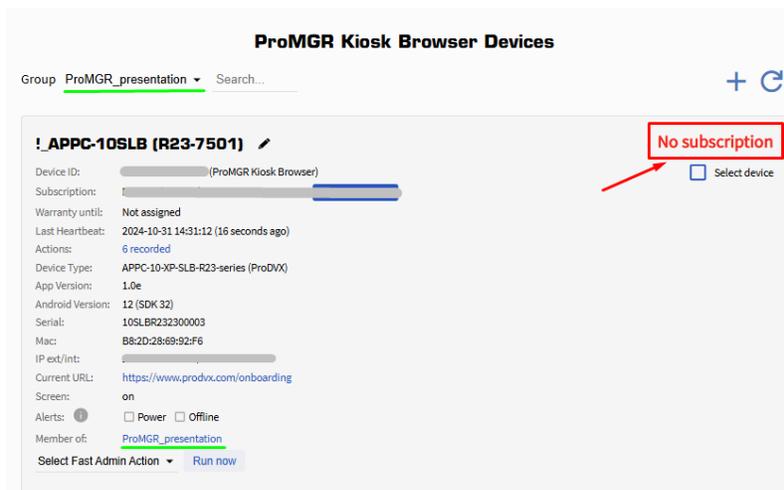
Device setup finished, press button to continue



ProMGR user manual. Getting Started. Installation and Activation.

2.2.5. Logging into ProMGR Cloud

Open your web browser and go to <https://promgr.prodvx.com>. Log in using your credentials to access ProMGR. Navigate to **“Devices”** from the main menu to view your devices. Note that remote management functions will depend on your subscription plan. For more details on cloud features, refer to Chapter 4.



If it is your first time logging into ProMGR, please change your temporary password.

ProMGR user manual.

3. ProMGR Kiosk

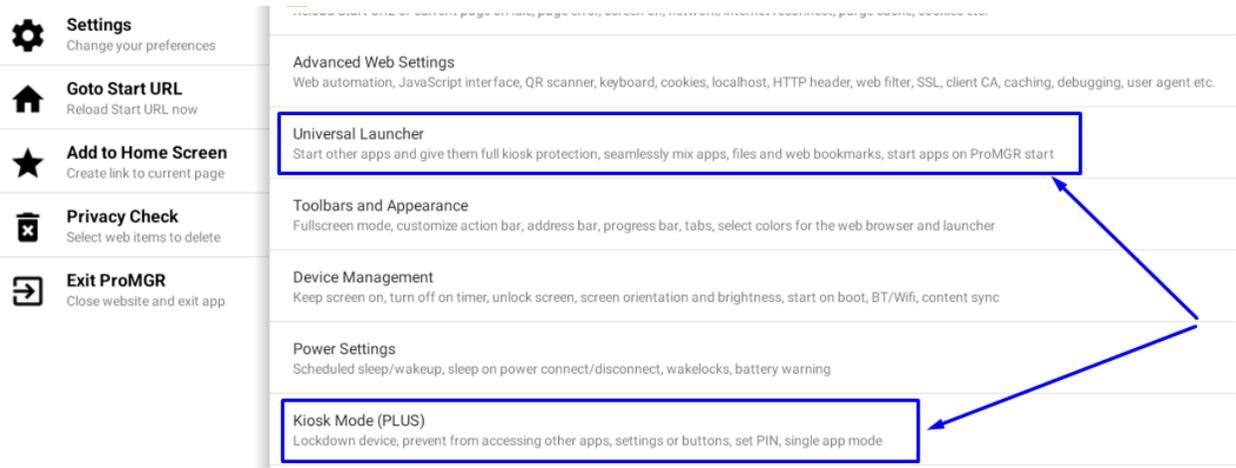
ProMGR provides flexible and secure options for deploying ProDVX devices in various environments. From interactive kiosks to digital signage, ProMGR Kiosk allows organizations to control device functionality and access, ensuring optimal performance and security.

ProMGR Kiosk offers a range of features to support versatile and secure kiosk applications, enabling organizations to configure devices for both public and restricted uses.

ProMGR user manual. ProMGR Kiosk.

3.1. Kiosk Mode: Launcher, Browser, and Single App

Configure devices in one of several modes to tailor access and functionality based on the device’s intended use. Please refer to ‘Kiosk Mode Configurations’ for further details on the different modes.



The most common use modes are ProMGR Browser Mode, ProMGR Single app Mode and Launcher Mode.

ProMGR Kiosk supports three main configurations: Kiosk Browser Mode, Single App Mode, and Universal Launcher, each offering different levels of control and customization.

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App.

3.1.1. General Kiosk Mode Settings

Enable Kiosk Mode	Locks down the device with an exit gesture and PIN. When enabled, ProMGR Kiosk will start automatically at device startup.
Kiosk Exit Gesture	<p>Sets the gesture for showing the PIN dialog. This option is inactive if Single App Kiosk mode is enabled.</p> <ul style="list-style-type: none"> • Swipe from Left: (default) or Long Press Back button; only works if ProMGR Kiosk is in the foreground. • Fast 5 Taps Anywhere: Easy to use; only works if ProMGR Kiosk is in the foreground. • Fast 7 Taps Anywhere: Works even if another app is in the foreground. • Double Tap Top Left, Double Tap Bottom Right: Done within 3 seconds; hard to guess; works only if ProMGR Kiosk is in the foreground.
Kiosk Mode PIN	PIN for leaving ProMGR Kiosk mode; leave empty to skip PIN dialog.
Wifi/Settings PIN	Sets a secondary PIN for accessing Wi-Fi, certain settings, or starting other apps only.
Wifi/Settings PIN Action	<p>Selects action to perform on entering Wifi/Settings PIN:</p> <ul style="list-style-type: none"> • Open Android Wi-Fi Settings (default) • Open Android Bluetooth Settings • Open Android Mobile Network Settings • Open Android Connection Settings • Open Android OTA Update Settings • Select Wi-Fi Network (experimental) • Custom Action Intent
Wifi/Settings PIN Custom Intent	Specifies the Intent URL for the custom action.
Disable Status Bar	Locks the status bar and restricts access to system settings, ensuring kiosk security.
Disable Volume Buttons	Restricts volume button functionality and blocks volume changes in Kiosk Mode.
Limit the Volume Level	Sets a maximum volume limit (in %) for all channels, if volume buttons are not disabled. Leave empty to disable.
Disable Power Button	Makes the power button mostly ineffective in Kiosk Mode. However, long presses will reboot the device.

	<p>Note: This option prevents the device from turning off the screen based on the display timer set in Android settings. To manage screen timeout, enable Keep Screen On and set the Screen Off Timer in ProMGR Kiosk's Device Management settings.</p>
Disable Home Button	Locks the Home button. If enabled, ProMGR Kiosk will prompt to set itself as the Home app and will start automatically on device startup.
Disable Context Menus	Disables system context menus (e.g., Copy/Share/Select All) within ProMGR Kiosk.
Disable Other Apps	Blocks all apps except those intentionally started by/from ProMGR Kiosk, making the Recent Task button unusable.
Advanced Kiosk Protection	Activates advanced protection against launching other apps. Renders the Recent Tasks and Power buttons unusable, even when other apps are foregrounded. Always enabled automatically when using the Universal Launcher and Single App Mode. Shows toast messages when blocking other apps. Use App Whitelist for permitted apps.
App Whitelist	Allows specific apps or activities in the foreground. Enter one package name (for apps) or component name (for activities) per line; * wildcard allowed. For example, use com.skype* to allow all Skype activities. Apps started directly by ProMGR Kiosk are whitelisted automatically.
App Blacklist	Blocks specific apps or activities, overriding the whitelist. Enter one package name (for apps) or component name (for activities) per line; * wildcard allowed.
Single App Mode	Auto-runs one selected app with kiosk protection. Refer to 3.1.2. Setting up Single App Mode for additional setup.
Disable Notifications	Blocks all status bar notifications from other apps.
Disable Incoming Calls	Blocks all incoming calls.
Disable Outgoing Calls	Blocks all outgoing calls (except emergency calls).
Disable Screenshots	Prevents taking screenshots and screen recording in ProMGR Kiosk (does not affect other apps). Also causes black screen in remote tools like AnyDesk or TeamViewer. Restart app after changing this setting.

<p>Lock Safe Mode</p>	<p>Locks Android safe mode. The device PIN lock screen is activated with your Kiosk PIN for this purpose but may interfere with other apps. Note: This setting cannot be reversed through ProMGR Kiosk; manually disable in Android Settings after removing ProMGR Kiosk’s administrator permission.</p>
<p>Disable Camera</p>	<p>Disables camera access for all apps (including ProMGR Kiosk, which disables Visual Motion Detection).</p>

Device-Specific Use Cases (e.g., Digital Signage, Interactive Kiosks):

- **Digital Signage:** Display static or dynamic content securely and continuously.
- **Interactive Kiosks:** Provide a controlled browsing experience, allowing users to interact with predefined web applications or content.
- **Dedicated App Devices:** Restrict the device to a single application, ideal for public check-in kiosks, order stations, and other single-purpose uses.

ProMGR Kiosk supports three main configurations: Kiosk Browser Mode, Single App Mode, and Universal Launcher, each offering different levels of control and customization.

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App.

3.1.2. Kiosk Browser Mode Setup

In Kiosk Browser Mode, users can access only pre-approved web pages or applications.

Use PIN protection, idle timeouts, and remote lockdown features to prevent unauthorized access and maintain device security.

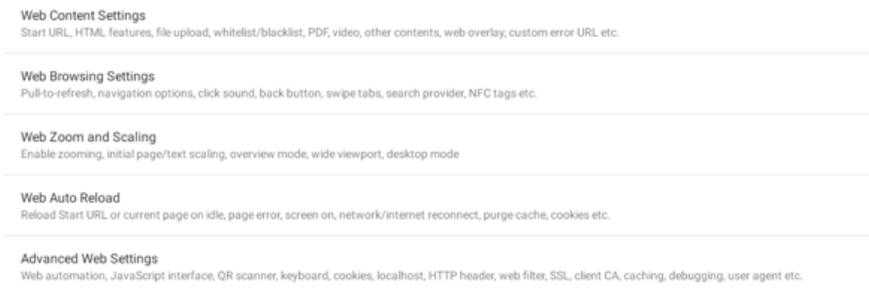
This setup is ideal for public information terminals or wayfinding kiosks:

1. **Access ProMGR Settings** and navigate to **Kiosk Mode > Enable Kiosk Mode**.

Note: “Show Launcher on Start” function should be disabled to better work in the Kiosk browser mode.

2. Configure **Allowed URLs** to restrict access to specified websites or applications.
3. Set a **Homepage** to automatically load on startup.
4. Adjust **Idle Timeout** to reset the browser to the homepage after a set period of inactivity.

To set up Kiosk Browser Mode correctly for your usage, please refer to the detailed functions descriptions below.



Please note that these settings are also related for web applications such as ‘web cache settings’

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App. Kiosk Browser Mode Setup.

3.1.2.1. Web Content Settings:

Function	Description
Start URL	the Home URL beginning with http: //, https: // or file: //. Always displaying after booting in Kiosk Browser mode.
Username (optional)	Sets username for Basic HTTP Authentication, applied only to hosts in the Start URL upon receiving a 401 auth request.
Password (optional)	Sets password for Basic HTTP Authentication, applied only to hosts in the Start URL upon receiving a 401 auth request.
Enable Fullscreen Videos	Allows videos to switch to fullscreen mode.
Autoplay Videos	Enables autoplay for embedded HTML5 videos; works only with static <video> tags (does not support YouTube).
Autoplay Audio	Enables autoplay for embedded HTML5 audio; works only with static <audio> tags.
Enable File Upload (PLUS)	Allows file uploads within web forms.
Enable Camera Capture Upload (PLUS)	Allows users to take photos with the camera and upload them within web forms.
Enable Video Capture Upload (PLUS)	Allows users to record videos and upload them within web forms.
Enable Audio Record Upload (PLUS)	Allows users to record and upload audio files within web forms.
Enable JavaScript Alerts	Allows JavaScript alert, prompt, and confirm dialog boxes.
Enable Popups (PLUS)	Supports popups and links that open in new frames, including those that do not require user interaction.

Enable Webcam Access (PLUS)	Enables HTML5 webcam access for secure origin websites (loaded by HTTPS).
Enable Microphone Access (PLUS)	Enables HTML5 microphone access for secure origin websites (loaded by HTTPS).
Enable Geolocation Access (PLUS)	Enables HTML5 geolocation access for secure origin websites (loaded by HTTPS).
View Local PDF Files (PLUS)	<p>Sets method for viewing local PDFs:</p> <ul style="list-style-type: none"> • Disabled – Ignores PDFs. • Use PDF.js – Renders PDFs directly in Webview with high quality, including clickable URLs, and supports iframes for most PDF files. It may experience slower performance with large files on slower devices. PDF.js is hosted on Unpkg by default, with options for alternate hosting or app integration available on request. Note that PDF.js does not support proper print output on Android. • Use Built-in PDF viewer – Fullscreen view only. • Launch Standard App – Opens PDFs in another app.
View Remote PDF Files (PLUS)	<p>Sets method for viewing remote PDFs:</p> <ul style="list-style-type: none"> • Disabled – Ignores PDFs • PDF.js – Renders PDFs directly in Webview with high quality, including clickable URLs, and supports iframes for most PDF files. It may experience slower performance with large files on slower devices. PDF.js is hosted on Unpkg by default, with options for alternate hosting or app integration available on request. Note that PDF.js does not support proper print output on Android. • Built-in PDF viewer – Fullscreen view only. • Google Docs – Not compatible with intranet files. • Download & Open – Opens in the standard PDF app. • Download & Pass Content – Passes content URL to PDF app, resolving issues with other options. • Just Download – Standard download
Play Videos in ProMGR (PLUS)	Plays Android-supported videos (including RTSP) within ProMGR's built-in player.
View/Open Other Files	Configures handling of non-PDF linked files, allowing disabling, passing URL to another app, downloading, or passing to an external app.
Links to Open in Other Apps	Lists specific http/https URLs (one per line) to open in other apps. URLs not on the list will open in ProMGR Kiosk Webview. Wildcards are supported.

Open Other URL Schemes	Enables tel:, mailto:, and intent: URLs to open in other apps.
URL Whitelist	Defines allowed URLs for Kiosk access (enter full URL including https://). Wildcards are supported.
URL Blacklist	Defines URLs to block, overriding the whitelist. Enter full URLs (including http://), wildcards supported.
Redirect Blocked to Start URL	Redirects blocked URLs (from whitelist/blacklist) back to the Start URL.
Web Overlay (PLUS)	Displays a non-interactive website as a transparent overlay on main content.
<i>Web Overlay URL</i>	URL for the overlay content, can be left blank for no overlay.
<i>Web Overlay Vertical Alignment</i>	Specifies overlay alignment (top or bottom of the main content).
Custom Error URL	URL for a custom error page, with error and url query string parameters for additional error details.
Load Error URL on Disconnection	Loads Custom Error URL on internet disconnection after a specified delay (default check is Google DNS at 8.8.8.8, customizable via JSON settings).

Additional specific configuration options available:

- **URL Variables:** You can use variables such as \$mac, \$deviceId, \$locale, \$hostname, \$hostname6, \$deviceName, \$ip4, \$ip6, \$sn, \$bssid, or \$ssid within the URL.
- **Multiple URLs:** Entering multiple URLs (one per line) will open each URL in a separate tab in ProMGR Kiosk.
- **Basic HTTP Authentication:** Credentials for Basic HTTP authentication can be included directly in the Start URL (e.g., http://user:pass@server:8084/fhem/ftui/) or entered under Web Content Settings Username and Password. Note that ProMGR Kiosk does not manage passwords for web form-based authentication; use Web Automation if web auto-login is needed.
- **File URLs for Local Files:** File URLs can be used for accessing local files (file:///sdcard/path/to/file.html). The /sdcard path typically refers to internal storage. Use the file picker in URL dialog boxes to select files, including those on an external SD card (saved as /sd_ext in settings, dynamically mapped to each device’s actual path). ProMGR Kiosk does not support write access to external SD cards due to Android OS restrictions.

- Local File Access for Embedded Content:** Links or embedded content from local files within HTTP/HTTPS documents are restricted by Android Webview security. However, you can use the **Localhost File Access** option in Advanced Web Settings to access local files using URLs like `https://localhost/sdcard/path/to/file.mp4`, allowing embedded local videos or images in HTTPS sites.

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App. Kiosk Browser Mode Setup.

3.1.2.2. Web Browsing Settings:

Function	Description
Enable Pull to Refresh	Allows page reload by pulling down on the screen. Resubmits form data if enabled in Advanced Web Settings. May interfere with websites requiring drag gestures.
Enable Back Button	Navigates one page back in history upon pressing the back button on the navigation bar.
Load Start URL on Home Button	Loads the Start URL when the Home Button is pressed (requires ProMGR Kiosk Browser Mode).
Enable Tap Sound	Plays a click sound with each tap within Webview.
Swipe to Navigate (PLUS)	Enables swiping left or right to navigate forward or backward in page history.
Animate Page Transitions (PLUS)	Adds slide animations for page transitions, creating an app-like experience. Requires a fast device and website.
Swipe to Change Tabs (PLUS)	Allows swiping left or right to switch between open browser tabs.
Wait for Network Connection	Prevents attempts to load a webpage without an active network connection.
Search Provider URL	Sets a URL as the search provider; requires Address Bar enabled. Keywords entered in the Address Bar are appended to this URL (default Google search URL: <code>https://www.google.com/search?q=</code>).
Read NFC Tags (PLUS)	Opens URLs from NDEF-formatted NFC tags when detected. Requires NFC enabled in Android settings and ProMGR Kiosk to be in the foreground. NFC tags won't read if the screen is locked.

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App. Kiosk Browser Mode Setup.

3.1.2.3. Web Zoom & Scaling

Function	Description
Enable Zoom	Allows zooming within the webpage, if supported by the site.
Load in Overview Mode	Loads the webpage scaled down to fit the device width; useful for older websites with fixed layouts.
Use Wide Viewport	Adheres to the viewport meta tag of the website, affecting scaling and layout.
Initial Scale	Sets the initial scale in percentage, beneficial for older sites. Only effective if Use Wide Viewport is disabled; otherwise, the viewport meta tag takes precedence.
Set Font Size	Adjusts font scaling in percentage (default is 100%).
View in Desktop Mode	Attempts to display the website in desktop mode rather than mobile mode.

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App. Kiosk Browser Mode Setup.

3.1.2.4. Web Auto Reload

Function	Description
Auto Reload on Idle	Automatically reloads the Start URL or current page after a specified period of user inactivity.
Auto Reload after Page Error	Reloads page automatically after a specified period following a page load failure.
Auto Reload on Screen On	Reloads the page automatically when the screen is turned on.
Auto Reload on Screensaver Stop	Reloads the page automatically when the screensaver stops.
Auto Reload on Network Reconnect	Reloads the page automatically when Wi-Fi, LAN, or LTE reconnects.
Auto Reload on Internet Reconnect (Experimental)	Reloads the Start URL when internet connection is reestablished. Internet check is done by pinging Google DNS server 8.8.8.8 every 10 seconds (customizable with JSON settings).
Delete Cache on Auto Reload	Clears the cache before each auto reload.
Delete Webstorage on Auto Reload	Clears web storage before each auto reload.
Delete History on Auto Reload	Clears browsing history and form data before each auto reload.
Delete Cookies on Auto Reload	Deletes cookies before each auto reload.

<p>Load Current Page on Auto Reload</p>	<p>Reloads the current page instead of the Start URL on auto reload; if multiple tabs are open, all tabs are refreshed. If using a Custom Error URL, it reverts to the last successful URL.</p>
<p>Skip Auto Reload if Showing the Start URL</p>	<p>Disables auto reload if the Start URL is already displayed (not effective if multiple Start URLs are set).</p>

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App. Kiosk Browser Mode Setup.

3.1.2.5. Advanced Web Setting

Function	Description
Basic Web Automation	Automatically fills text in forms, toggles checkboxes, and clicks links/buttons. Configure actions per page URL (wildcard * supported). Supports auto-login and data clearing (cookies, cache, etc.).
Enable JavaScript Interface (PLUS)	Allows websites to access app/device info through ProMGR's JavaScript Interface. Use only if websites are trusted; otherwise, all local files may be exposed.
Detect iBeacons (PLUS)	Scans for iBeacons and triggers JavaScript interface events upon detection (works reliably when ProMGR Kiosk is foregrounded and screen is on).
Enable QR Code Scanner (PLUS)	Enables integrated barcode scanner via JavaScript interface.
Inject JavaScript (PLUS)	Runs custom JavaScript code after each page load to modify uneditable website code.
Enable Text Input	Enables text input in editable form fields.
Always Hide Keyboard	Keeps soft keyboard hidden. May need app restart to apply on some devices.
Enable Form Autofill	Allows Android Autofill Manager to populate forms in Webview (requires configuration in Android settings).
Enable Touch Interaction	Enables touch interaction within Webview.
Enable Long Tap	Enables long-press actions like text selection and context menus.
Enable Dragging	Allows dragging objects within Webview. Disabling also disables scrolling.
Enable Scrolling	Allows page scrolling within Webview.
Enable Overscroll	Enables overscroll animation effect.
Enable Third Party Cookies	Allows third-party cookies.
Recreate Tabs on Reload	Closes and reopens web tabs on each Start URL load.
Resubmit Form Data on Reload	Resends form data (POST) with each page reload.
Localhost File Access (PLUS)	Allows local file access via https://localhost/... or http://localhost/... in Webview. Be cautious, as all local files may be exposed.
Add Referer Header	Adds the Referer header to HTTP GET requests.
Add XFF Header	Adds X-Forwarded-For header to HTTP GET requests.

Add DNT Header	Adds Do Not Track header to HTTP GET requests (ignored by most servers).
Remove X-Frame, CSP, and CORS protection (PLUS)	Removes X-Frame, Content-Security-Policy, and CORS restrictions for specified URLs. Use cautiously, as it may affect caching.
Enable Web Filter (PLUS)	Loads /sdcard/fully-blackhosts.txt to block specified hosts. Useful as an ad blocker.
Enable Safe Browsing (Experimental)	Blocks websites flagged as threats by Google.
Ignore SSL Errors	Ignores SSL errors, usable with self-signed certificates (TLS/SSL security is compromised).
Pause Webview while in Background (Experimental)	Pauses Webview when ProMGR Kiosk is in the background or screen is off.
Enable DRM Protected Content (Experimental)	Enables DRM-protected content in Webview.
Mixed Content Mode	Allows secure origin documents to load resources from insecure origins. Note: Webview 111+ blocks some mixed content despite this setting.
Client Certificate File (PLUS)	URL or file path for client CA authentication certificates (P12 or PFX). Compatibility may vary with encryption types.
Client Certificate Password	Password for client certificate private key.
Restart on Unresponsiveness (Experimental)	Restarts app after a specified period of Webview unresponsiveness (set to 0 to disable).
Cache Mode	Sets Webview caching behavior.
Clear Cache After Each Page	Clears cache after each page load.
Resume Playback when Getting to Foreground	Resumes embedded media playback when ProMGR Kiosk returns to the foreground.
Keep Screen On while in Fullscreen Mode	Disables screensaver and screen off timer while in fullscreen Webview.
Enable Webview Contents Debugging	Enables remote debugging with Chrome Developer Tools.
Fake User Agent String	Allows selection of a user-agent string from another web browser.
Custom User Agent String (PLUS)	Sets a custom user-agent string.
Default Webview Background Color	Selects background color for Webview (default is white, applies only if website lacks a background color).
Graphics Acceleration Mode	Selects Webview rendering mode: hardware, software, or no acceleration. Hardware mode required for video playback.
Select Webview Implementation	Opens developer options to select the Webview provider (Webview, Chrome, or Chrome Beta, if installed).

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App.

3.1.3. Setting Up Single App Mode

Single App Mode restricts device functionality to a single application, preventing access to other features:

1. Open **Settings > Kiosk Mode > Single App Mode** in ProMGR Kiosk.
2. Select the application to run exclusively on the device.
3. Adjust additional settings such as **Idle Timeout** and **Screen Orientation** as required.

Function	Description
Single App Mode	Activates single app mode, restricting device use to a single selected app.
Select Single App	Chooses the app to run in single app mode from installed apps or by specifying an Intent URL. If Remote Admin is enabled, use the command <code>intent:#Intent;component=packagename/classname;end</code> to select the app via Remote Admin settings.
Single App Exit by Remote Admin only	Disable single app mode exit by 7 fast taps. You will only be able to exit from single app mode by the Remote Admin Unlock Kiosk button. Remote Admin must be activated in order for this option to have an effect.
Wait for Boot Completed	Delays single app launch until the device has completed its boot process.
Pause for Updates (Experimental)	Pauses the single app for 15 minutes after scheduled wakeup to allow for potential updates. Requires Scheduled Wakeup/Sleep in Power Settings to take effect.

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App.

3.1.4. Further Setup Information. Exit Single App Mode.

To exit **Single App Mode**, follow these steps:

1. Default Exit Method:

- **Tap the Screen Rapidly:** Tap anywhere on the screen 7 times quickly to display the PIN dialog.
- **Note:** The **Kiosk Exit Gesture** option is **disabled** and will not work.

2. Alternative Exit Options:

If tapping **7 times rapidly** is prone to accidental triggers during normal app usage, consider the following alternatives:

- **Option 1: Remote Admin Only Exit**
 - **Enable Remote Admin Only Exit:**
 - Navigate to **Kiosk Mode > Single App Mode Settings**.
 - Enable the “**Single App Exit by Remote Admin Only**” option.
 - **Effect:**
 - Disable the PIN dialog triggered by rapid taps.
 - Allows exiting Single App Mode **only** via the **Remote Admin Unlock Kiosk** button.
 - **Requirements:**
 - **Remote Admin** must be activated for this option to function.
- **Option 2: Customize Tap Requirements via JSON Configuration**
 - **Adjust Number of Taps:**
 - Modify the JSON configuration file to change the number of taps required to display the PIN dialog.
 - **Example Configuration:**

```
{
  "tapsToPinDialogInSingleAppMode": "10"
}
```
 - **Steps:**
 1. Edit the JSON file with the desired number of taps.
 2. Import the updated settings file to your device.
 - **Restrict Tap Detection Timing**
 - Configure the system to detect rapid taps only within a specific timeframe after the screen is turned on.
 - **Example Configuration:**

```
{
  "millisScreenOnToPinDialogInSingleAppMode": "3000"
}
```

- **Steps:**
 1. Edit the JSON file to set the timeframe (in milliseconds).
 2. Import the updated settings file to your device.
- **Note:** Users must **turn the screen off and on** before performing the taps to trigger the PIN dialog.

Summary of Exit Options

Option	Description	Requirements
Default Exit Method	Tap the screen 7 times rapidly to display the PIN dialog.	None
Remote Admin Only Exit	Exit Single App Mode only via the Remote Admin Unlock Kiosk button.	Remote Admin must be activated
Customize Tap Requirements	<ul style="list-style-type: none"> - Increase Taps: Change the number of taps needed to display the PIN dialog. - Restrict Timing: Only detect taps within a set timeframe after screen on. 	Access to and ability to modify JSON configurations

ProMGR user manual. ProMGR Kiosk. Kiosk Mode: Launcher, Browser, and Single App.

3.1.5. Universal Launcher Capabilities

The Universal Launcher allows for a flexible but controlled environment where users have access to multiple pre-defined applications:

1. In ProMGR, go to **Settings > Kiosk Mode > Universal Launcher**.
2. Select **Applications** to specify which apps are accessible.
3. Customize **App Permissions, Screen Locking, and Navigation Controls** as needed.

Note: When using the Universal Launcher, the Advanced Kiosk Protection will always be activated automatically.

Universal Launcher Settings:

Function	Description
Select Items to Show	Choose apps from the list of installed apps or add URLs for web bookmarks to display on the launcher.
Show Launcher on Start	Displays the launcher page (fully://launcher) on startup instead of the Start URL.
Launcher Background Color	Sets the background color for the launcher page.
Launcher Text Color	Sets the color of app/bookmark labels on the launcher page.
Launcher Background Image URL	Loads a background image for the launcher page from a specified URL or file.
Launcher Page Scaling	Sets scaling for the launcher page as a percentage; default is 100%.
Inject HTML Code in Launcher	Enables custom launcher layout design by injecting CSS or JavaScript code in the <head> of the launcher page.
Application to Run on Start in Foreground	Selects an app to run in the foreground on ProMGR start. For single-app use, it's recommended to use Single App Mode in Kiosk Mode Settings.
Applications to Run on Start in Background	Specifies apps to run in the background at ProMGR Kiosk start. Enter one package name per line (experimental). Apps are started on device startup, with ProMGR Kiosk pushed to the foreground after launch.

ProMGR user manual. ProMGR Kiosk.

3.2. Device Management Functions & Security

This section details functionalities for IT administrators to control, secure, and enforce policies on ProDVX devices. It includes management options for I/O ports and external equipment such as SD cards, microphones, keyboards, printers, USB ports, video cameras, scanners, and other accessories.

ProMGR user manual. ProMGR Kiosk. Device Management Functions & Security.

3.2.1. Device Management Settings

Function	Description
Keep Screen On	Keeps the screen on continuously, preventing the device from going to sleep. Use Screen Off Timer and Scheduled Wakeup/Sleep in Kiosk Mode settings to manage screen off and sleep.
Keep Screen On (Advanced)	For cases where Keep Screen On fails to prevent screen off in other apps.
Screen Brightness	Sets screen brightness (0–255); leave empty for system default.
Force Screen Orientation	Sets screen orientation (only applies to Kiosk Browser mode).
Force Screen Orientation Globally	Attempts to set screen orientation across Android OS and all apps (experimental).
Unlock Screen	Displays ProMGR Kiosk above the lock screen (only applies to ProMGR Kiosk). Using other apps may return to lock screen.
Unlock Swipe Screen Lock (experimental)	Tries to unlock swipe screen lock automatically, which can take 3–4 seconds on some devices.
	NOTE. Some features like NFC scan or hardware barcode scan can be unavailable is this option is enabled until you manually unlock the device.
Screen Off Timer	Sets a timer for screen off after user inactivity. Screen reactivates on power button press, wakeup timer, motion detection (if enabled), or an API screenOn command.
Turn Screen Off on Proximity	Turns screen off when the proximity sensor detects an object nearby.
Launch on Boot	Launches ProMGR Kiosk at startup. This is not needed if Kiosk Mode with Home Button disabled is enabled.
Set Volume Levels	Sets initial volume levels upon app start using stream
	format. Example: 2:80,3:50 (ring at 80%, music at 50%).

Force Immersive Fullscreen (experimental)	Sets system bars to immersive mode for other apps (keyboard and back key may not function). Use Toolbars and Appearance settings instead of this option for ProMGR.
Remove Navigation Bar (experimental)	Removes navigation bar across all apps (Android 10+).
Remove Status Bar (experimental)	Removes status bar across all apps (Android 10+).
Bluetooth Mode	Forces Bluetooth on or off at app start.
Wifi Mode	Forces Wifi on or off at app start.
Hotspot Mode (experimental)	Forces Hotspot on or off at app start.
Reset Wifi on Internet Disconnection	Switches Wifi off and on with a 5-second delay if Internet connection is lost (detected by pinging 8.8.8.8, customizable via JSON settings).
Forced Wifi SSID	Pre-configures Wifi to connect to a specified SSID. SSID should not be added manually in Android settings; ProMGR will manage the connection.
Forced Wifi Keyphrase	WPA keyphrase for specified SSID.
Wifi Type	Sets Wifi type: WPA PSK (default), WPA EAP, or Open (no password).
Enterprise Wifi Identity	Identity for WPA EAP networks.
Enterprise Wifi Password	Password for WPA EAP networks.
WiFi Settings	Opens Android's Wifi settings.
Load Content from ZIP File	Loads a ZIP file from a URL and unpacks it to /sdcard, checking for updates hourly. Be cautious: existing files will be overwritten, and zero-size files will be removed. Non-Latin characters may require UTF-8 encoding.

ProMGR user manual. ProMGR Kiosk. Device Management Functions & Security.

3.2.2. Power Settings

Function	Description
Schedule Wakeup and Sleep	Set sleep and wakeup times for each day of week or whole week or weekend only, please use 24h time format HH:MM for settings and note that not each device is capable of waking up on schedule. On scheduled sleep time the motion detection is deactivated. Pressing a power button or restarting the device after that however reactivates them. As well as they get reactivated on wake up time, of cause.

ProMGR user manual. ProMGR Kiosk.

3.3. Device Remote Control and Security Settings

This section covers features that allow administrators to remotely manage ProDVX devices and enforce security policies. It includes tools for controlling device behavior, restricting access, and maintaining data protection, ensuring secure and efficient operation across deployments.

ProMGR user manual. ProMGR Kiosk. Device Remote Control and Security Settings.

3.3.1. Remote Administration settings.

Function	Description
Enable Remote Administration	Show info, configure and control ProMGR remotely in any web browser.
Remote Admin Password	Set password, required for Remote Admin site and for the REST Interface.
Remote Admin from Local Network	Enable remote admin and REST interface in the local network or via VPN at http://ip-address:2323. You can establish HTTPS connection to Remote Admin if you put a valid SSL certificate file on device. If you disable this option, connection to Remote Admin will be accepted only from this device (localhost).
Enable File Management on Remote Admin	Allow listing and downloading local files using Remote Admin web interface.
Enable Screenshot on Remote Admin	Allow getting a screenshot on Remote Admin, this option can't be changed on Remote Admin.
Enable Camshot on Remote Admin	Allow getting a camshot on Remote Admin (requires Motion Detection), this option can't be changed on Remote Admin.
Remote Admin from Cloud	Disable/Enable Remote Administration Worldwide (manually on device only)
Add Device to Cloud	Specify account and password to add this device to ProMGR Cloud (manually on device only)

ProMGR user manual. ProMGR Kiosk. Device Remote Control and Security Settings.

3.3.2. Device Owner Settings.

Function	Description
Lock Task Mode	Better kiosk mode protection, disable home and recent task button, disable status bar (in Kiosk mode only).
Enable Lock Task Mode	Enable/Disable Lock Task Mode function.
App Lock Task Whitelist	Allow selected apps to enter the lock task mode, one package name per line. Apps started by ProMGR Kiosk will be whitelisted automatically.
Enable Home Button	Force show home button in lock task mode.
Enable Recent Task Button	Force show recent task button in lock task mode.
Enable Notifications	Enable status bar and notifications in lock task mode.
Enable System Info	Enable system info in the task bar in lock task mode.
Enable Showing Global Actions	Enable showing global actions on long power button press in lock task mode.
Disable Status Bar	Disable/ Enable Status Bar function for ProMGR Browser Mode.
Disable Keyguard	Enabling this option has the same effect as choosing “None” for the Screen Lock type.
	Note. <i>This option has no effect if a password, pin or pattern is currently set. You must enable this option if you want to disable Screen Lock. Look for experimental Unlock Swipe Screen Lock option in Device Management Settings for alternative or set the Screen Lock to None by hand.</i>
Disable Volume Buttons	Disable/ Enable Volume Buttons function.
Disable Screen Capture	Disable/ Enable Screen Capture function.
Disable USB Storage	Disable/ Enable USB Storage access function.
Disable ADB	Disable/ Enable debugging over ADB function and ADB connection.
Disable Boot in Safe Mode	Disable/ Enable Boot in Safe Mode.
System Update Policy	Select policy for over-the-air system updates: <ul style="list-style-type: none"> • as soon as possible, • postpone for 30 days, • only in time window 10pm-2am

Password Quality	Available password quality options: <ul style="list-style-type: none"> • Unspecified, • Something, • Numeric, • Numeric Complex, • Alphabetic, • Alphanumeric, • Complex
Minimum Password Length	Field to specify the minimum password length.
App Runtime Permission Policy	Default runtime permission policy: <ul style="list-style-type: none"> • Prompt, • Grant, • Deny
Additional User Restrictions	Apply other user restrictions by policy, one restrictions per line, check developer.android.com for IDs (use values like no_add_user, no_add_wifi_config, no_adjust_volume etc.)
Disable Apps From Unknown Sources	Disable app install from APK file
APK Files to Install	Enter one FILE per line for silent apps install.
	Note. Please check Disable Apps from Unknown Sources status.
APK File Update Interval	Check for APK updates according to Last-Modified server response header each X minutes, min. 15 minutes, set 0 for disabled.
APK File Update Time	Check for APK updates according to Last-Modified server response daily at this time HH:MM, empty: disabled
System Apps to Enable	Enable selected system apps, one package name per line. By default most pre-installed apps are disabled.
Apps to Disable	Disable access to selected apps, one package name per line
APN Config	Add custom APN configuration, one per line, like this: entryName=APN1;apnName=mbb.mobi-data.com;operatorNumeric=26006;protocol=2;roamingProtocol=2 entryName=APN2;apnName=mbb2.mobi-data.com;operatorNumeric=26006;protocol=2;roamingProtocol=2 Also supports optional apnTypeBitmask und carrierEnabled fields.
Global Proxy Config	Provide global proxy address as host:port or provide a full pac URL
Daily System Restart	Scheduled time (HH:MM in 24h format) for automatic system restart, keep empty for disabled
Remove Device Owner	Unregister ProMGR as Device Owner. (EXPERIMENTAL)

ProMGR user manual. ProMGR Kiosk.

3.4. Advanced Kiosk Security and Management

To enhance security and interactivity, ProMGR Kiosk use advanced security options:

Advanced Security Options: Utilize features like **PIN Protection** to secure device settings, **Idle Reset** to return the device to the homepage or locked mode after inactivity, and **Remote Lockdown** via ProMGR Cloud to prevent unauthorized access.

ProMGR user manual. ProMGR Kiosk. Advanced Kiosk Security and Management.

3.4.1. Other Settings

Function	Description
Barcode Scanner Integration	Configures barcode scanner options, including app selection, keyboard input, broadcast intents, and URL actions.
Barcode Scan App	Selects the barcode scanning app or specifies an intent URL. Leave empty to use the embedded QR scanner.
Listen for Keyboard Input	Detects keystrokes from a hardware barcode scanner simulating keyboard input. May not work with all scanner apps.
Barcode Scan Broadcast Intent Action	Sets broadcast intent action from the scanner app. Leave empty if none. For Datawedge, use user-defined or a format like <code>com.datalogic.decodewedge.decode_action</code> .
Barcode Scan Broadcast String Extra	Specifies broadcast intent string extra for scanner code. For Datawedge, formats include <code>com.symbol.datawedge.data_string</code> or <code>com.datalogic.decode.intentwedge.barcode_string</code> .
Barcode Scan Target URL	Loads specified URL on QR scan read using <code>\$code</code> as a placeholder. Leave empty to avoid opening any URL.
Insert Barcode Into Website	Attempts to insert the scanned code into the first input field on the current page.
Submit Form after Inserting Barcode	Tries to submit the web form for the first input field after barcode insertion.
MQTT Integration	Enables sending device information and events to an MQTT broker (Android 7+ only).
Enable MQTT	Activates MQTT communication.

MQTT Broker URL	Specifies the MQTT broker URL (e.g., tcp://farmer.cloudmqtt.com:18075 or ssl://farmer.cloudmqtt.com:28075).
MQTT Broker Username	Sets the MQTT broker username.
MQTT Broker Password	Sets the MQTT broker password.
MQTT Client ID	Client ID for MQTT broker connection; leave empty to use a random ID. Variables like \$deviceId are supported.
MQTT Device Info Topic	Customizes the device info topic name. Placeholders such as \$deviceId and \$mac can be used. Default is \$appId/deviceInfo/\$deviceId.
MQTT Event Topic	Customizes the event topic name. Placeholders such as \$event, \$deviceId, and \$mac are supported. Default is \$appId/event/\$event/\$deviceId.
Restart ProMGR After Crash	Attempts to restart ProMGR Kiosk after any crash.
Restart ProMGR After Update	Attempts to restart ProMGR Kiosk after an update to ProMGR, Android System WebView, or Google Chrome. Note: Kiosk Mode must be enabled.
Run as Priority App	Attempts to prevent Android from killing ProMGR when resources are low, with automatic restarts if it is killed.
Consider Device in Use While Keyboard Visible	Prevents screensaver, screen off, and reload-on-idle features when the keyboard is visible.
Consider Device in Use While Audio Playing	Prevents screensaver, screen off, and reload-on-idle features during audio or video playback.
Consider Device in Use While Using Another App	Prevents screensaver, screen off, and reload-on-idle features when another app is foregrounded or the screen is off.
Touching Other Apps Restarts Idle Timer	Prevents idle features (e.g., screensaver, screen off timer) from starting if the user touches the screen, even if another app or keyboard is foregrounded.
Regain Focus Timer	Brings ProMGR to the foreground after a set idle time; set 0 to disable.
Go To Background Timer	Sends ProMGR Kiosk to the background after a set idle time (in seconds); set 0 to disable.
Custom Text Variable	Value can be used as \$customVariable in all URLs for configuration.

Custom Locale	Sets a custom language tag (IETF BCP 47, e.g., en-US or de-CH) to override the system locale in ProMGR, affecting Webview and end-user dialogs. App menus/settings remain in English. Re-open tabs to apply changes.
Show Menu Hint on Start	Displays demos and hints when ProMGR starts. Disabling also removes outdated Webview warnings.
Render in Cutout Area	Enables content display in the device’s notch area.
Export Settings	Exports all settings to a JSON file.
Import Settings	Imports settings from a selected JSON file.
Reset Settings	Resets all settings to their defaults.
Get All Runtime Permissions	Requests all missing runtime permissions, regardless of immediate need.
Device ID	Displays the device ID.
Device Info	Shows a summary of device information; include a copy when reporting issues.

ProMGR user manual. ProMGR Kiosk. Advanced Kiosk Security and Management.

3.4.2. Toolbar and Appearance Settings

Function	Description
Show Navigation Bar	Displays the system navigation bar (bottom bar) permanently; keep disabled for fullscreen mode. No effect on devices with hardware home/back buttons.
Navigation Bar Color	Sets background color for the navigation bar; supports alpha transparency and hex ARGB color codes.
Show Status Bar	Displays the system status bar (top bar) permanently; keep disabled for fullscreen mode.
Status Bar Color	Sets background color for the status bar.
Show Action Bar	Displays the action bar with control buttons.
Action Bar Title	Sets text for the action bar title; supports variables like \$mac, \$deviceId, \$locale, \$hostname, \$deviceName, \$ip4, \$ip6, \$sn, \$bssid, or \$ssid.
Action Bar Background Color	Sets the background color for the action bar.
Action Bar Text Color	Sets text and icon color for the action bar.

Custom Icon URL	Loads a custom icon for the action bar (positioned left of the text) from a URL; supports local files with file:///sdcard/path/to/filename.png.
Custom Background Image URL	Loads a background image for the action bar from a URL.
Show Back Button	Displays a back button on the action bar.
Show Forward Button	Displays a forward button on the action bar.
Show Refresh Button	Displays a refresh button on the action bar.
Show Home Button	Displays a home button on the action bar.
Show Print Button	Displays a print button on the action bar.
Show Share Button	Displays a share button on the action bar.
Show Barcode Scan Button	Displays a QR scan button on the action bar. Note: See Other Settings for barcode scanner configuration.
Custom Button Action	Defines a URL to load on pressing the custom button; use fully://launcher for Universal Launcher. Leave empty for no custom button action.
Action Bar Size (Experimental)	Sets scaling for the action bar in percentage (default is 100%).
Show Action Bar in Settings	Displays the action bar within Settings.
Show Tabs	Displays tab flaps for browser frames. Multiple pages can be loaded by defining multiple Start URLs (one URL per line).
Show Close Buttons on Tabs	Allows users to close individual web tabs.
Show New Tab Button	Allows users to open a new web tab; requires address bar to enter the URL.
New Tab URL	Sets the default URL to open for user-created new tabs.
Active Tab Color	Sets background color for the active tab.
Inactive Tab Color	Sets background color for inactive tabs.
Tab Text Color	Sets color for tab text and close buttons.
Show Address Bar	Displays the address bar with the current URL; auto-hides when scrolling.
Address Bar Color	Sets background color for the address bar.
Show Progress Bar	Displays a progress bar at the top of the screen while loading pages.
Progress Bar Color	Sets color for the progress bar.

ProMGR user manual.

4. ProMGR Cloud

ProMGR Cloud provides a centralized platform for managing, monitoring, and configuring ProDVX devices remotely. Designed for scalability and efficiency, ProMGR Cloud is ideal for organizations with multiple devices across different locations, enabling administrators to perform essential tasks without the need for physical access to each device. This cloud-based solution enhances control, reduces on-site maintenance needs, and ensures devices remain secure and operational.

ProMGR user manual. ProMGR Cloud.

4.1. Key Benefits of ProMGR Cloud

- **Remote Device Monitoring:** ProMGR Cloud offers real-time insights into device status, performance, and health metrics. Administrators can monitor critical information, such as battery levels, network connectivity, and app performance, ensuring devices remain fully functional.
- **Centralized Control and Configuration:** Through a single interface, administrators can apply configuration changes, update settings, and push new content to devices in different locations. This streamlined approach simplifies setup and management, reducing the need for on-site intervention.
- **Automated Scheduling and Actions:** ProMGR Cloud supports scheduling tasks like reboots, software updates, and content refreshes. Automating these actions helps maintain device performance and security, ensuring that devices run optimally without requiring manual maintenance.
- **Enhanced Security Management:** With ProMGR Cloud, administrators can apply security policies and settings across all devices, such as setting idle timeouts, enabling device lockdowns, and monitoring for unauthorized access. In case of security threats, administrators can remotely lock or wipe devices as needed.
- **User Management and Role-Based Access:** ProMGR Cloud allows for the creation of user roles and permissions, enabling secure, role-based access to specific features and functions. This flexibility ensures that only authorized personnel can perform critical actions, enhancing overall security and reducing the risk of unauthorized changes.
- **Scalability for Multi-Location Deployments:** ProMGR Cloud is designed for organizations managing devices across multiple sites, whether in the same city or globally. This scalability simplifies device deployment and maintenance across diverse environments, making it easy to scale up as business needs evolve.

ProMGR user manual. ProMGR Cloud.

4.2. Example Use Cases

For End Users (Customers)

Retail and Hospitality: Update promotional content and manage kiosks across locations in real-time, ensuring devices are operational and current.

Corporate Offices: Control digital signage and meeting room displays remotely for consistent information and seamless operations across facilities.

Education and Public Sector: Remotely manage information kiosks and displays, keeping content updated without on-site maintenance.

For Distributors

Client Device Monitoring: Proactively monitor device health and performance under support contracts, reducing downtime for clients.

Efficient Provisioning: Set up and deploy multiple devices for clients with ProMGR's centralized provisioning, supporting rapid scaling.

For Integrators

Retail and Hospitality: Remotely configure, manage, and troubleshoot devices at client sites, reducing the need for on-site visits.

Corporate and Public Sector: Install and maintain displays and kiosks across locations, adjusting settings and updating content as needed for large-scale deployments.

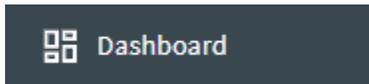
ProMGR user manual. ProMGR Cloud.

4.3. Device Monitoring and Control

ProMGR Cloud offers a variety of tools for remotely monitoring and managing ProDVX devices in real time. Through the ProMGR Cloud interface, administrators can access essential device information, manage settings, and perform remote actions that help keep devices operational and secure across multiple locations.

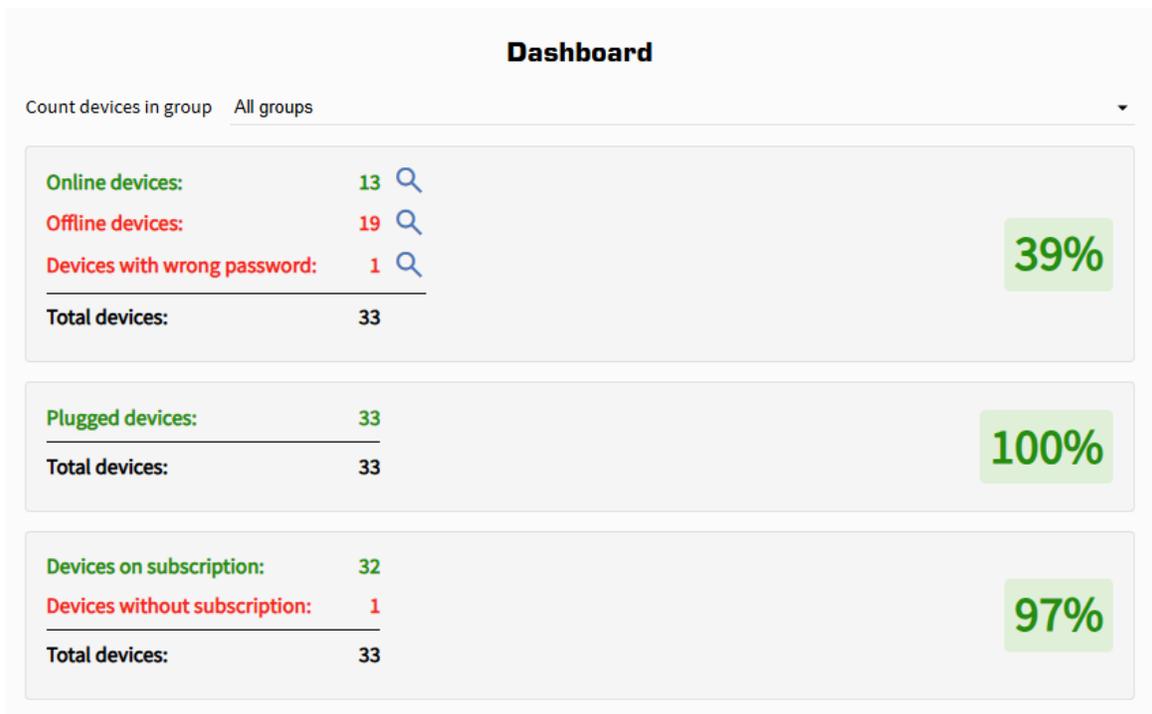
ProMGR user manual. ProMGR Cloud. Device Monitoring and Control.

4.3.1. Real-Time Monitoring Dashboard



The ProMGR Cloud dashboard offers a visual overview of real-time data for all connected ProDVX devices. This dashboard provides a quick summary, including:

- **Online Devices:** Devices that are connected and ready for remote management.
- **Offline Devices:** Devices that are currently disconnected or switched off.
- **Devices with Active Subscriptions:** Devices with subscriptions, allowing remote management features.
- **Devices without Subscriptions:** Devices that cannot be remotely managed due to lack of a subscription.
- **Total Devices:** The overall number of devices connected to the account.



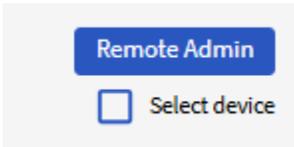
Administrators can view data across all devices or filter by specific groups for easier monitoring and control.

ProMGR user manual. ProMGR Cloud. Device Monitoring and Control.

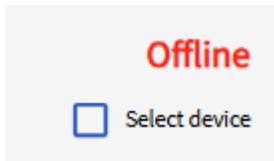
4.3.2. Device Status and Alerts

In the **Devices** section, ProMGR provides a list of all connected devices, along with their connection status:

- **Remote Admin:** Indicates that the device is online and ready for remote management.



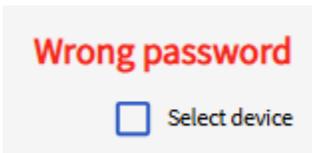
- **Offline:** Shows that the device is disconnected, powered off, or facing connectivity issues.



- **No Subscription:** Devices without a subscription, limiting remote control functionality.

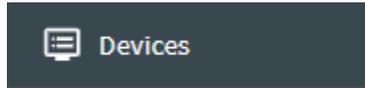


- **Wrong Password:** This error indicates that the remote access password has been changed (manually on the device or via an imported configuration file). To resolve this, use the **Change Saved Password** command in Fast Admin Actions.



ProMGR user manual. ProMGR Cloud. Device Monitoring and Control.

4.3.3. Device Information



Within the **Devices** section, administrators can access detailed information for each device, including:

APPC-15XP R23 A11 ✎

Remote Admin

Device ID: [REDACTED] (ProMGR Kiosk Browser) Select device

Subscription: Active

Warranty until: 2027-09-25

Last Heartbeat: 2024-10-31 15:47:21 (5 seconds ago)

Actions: [141 recorded](#), [1 queued](#)

Device Type: APPC-15XP_R23-series (ProDVX)

App Version: 1.0e

Android Version: 11 (SDK 30)

Serial: A157FN220600205

Mac: cc:4b:73:f4:15:26

IP ext/int: 213.206.216.116 / 192.168.10.144

Current URL: [REDACTED]

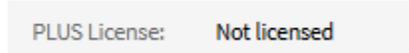
Screen: on

Alerts: i Power Offline ⚙️ ⬇️

Member of: [ProDVX_test](#), [ProMGR_presentation](#)

Select Fast Admin Action ▼ Run now

- **Device Name:** A customizable name for easy identification; by default, the device ID is used.
- **Pulse License:** Shows if a device lacks a license or had issues during activation. Contact your account manager to resolve license-related issues.



- **Subscription Status:** Indicates whether the device’s subscription is **Active** (enabling remote control) or **Inactive**.
- **Warranty Information:** Displays warranty status, with three possible values:
 - **End Date:** Warranty end date for registered devices.
 - **Ended:** Warranty has expired. For renewal, contact support@prodvx.com.
 - **Not Assigned:** Device is unregistered; contact support@prodvx.com for registration.



- **Last Heartbeat:** Shows the last communication timestamp, typically updated every 20 seconds.
- **Actions:** Displays recent and scheduled actions on the device.

- **Device Type:** Lists the device series (model information).
- **App and Android Versions:** Provides the current version of ProMGR and Android OS.
- **Serial:** Device’s serial number.
- **MAC Address:** Lists the device's MAC address.
- **External/Internal IP:** Displays both internal and external IP addresses.
- **Current URL:** Shows the URL configured as the device’s Start URL.
- **Screen Status:** Indicates whether the device screen is on or in sleep mode.
- **Alerts:** Specifies alert types for which email notifications are enabled.
- **Group Membership:** Lists groups that the device is a part of.

Note: If certain features are unavailable (e.g., “unknown” messages), ProMGR Kiosk may not be running as a Device Owner app. For assistance, contact support@prodvx.com.

ProMGR user manual. ProMGR Cloud. Device Monitoring and Control.

4.3.4. Alarms

ProMGR Cloud enables administrators to receive email notifications for important status changes, such as when a device powers on or off. Options for configuring alarms include:

- **Status Change:** Choose specific statuses to receive notifications.
- **Log Download:** Download logs of status changes in CSV format.



Configure alert emails in **Cloud Settings > Alert Email** to receive timely status updates.



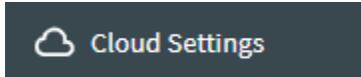
ProMGR user manual. ProMGR Cloud.

4.4. User Management

ProMGR Cloud offers comprehensive user management features to control access levels and permissions for different users within the organization.

ProMGR user manual. ProMGR Cloud. User Management.

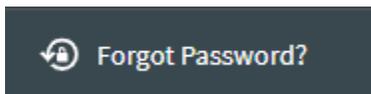
4.4.1. Account Configurations



Account settings in the Cloud Settings section enable administrators to configure various parameters for improved management:

- **Common Settings:**
 - **Homepage:** Choose a default page to load after login.
 - **File Load Timeframe:** Control file upload schedules to manage server load.
 - **Time Zone:** auto-detected Time zone
- **Device Info Settings:** Enable/disable specific data fields in the device information block, such as **Subscription Status**, **Last Heartbeat**, **App Version**, and **more**.
- **Alert Settings:**
 - **Offline Alert Threshold:** Set offline alert timing.
 - **Anti-Theft Alert Interval:** Manage frequency for anti-theft notifications.
 - **Alert Email:** Set an email address to receive alerts.
 - **Post Alerts URL:** Configure a URL for receiving alerts as push notifications.
- **Two-Factor Authentication (2FA):** Add an extra layer of security by requiring a code from an authenticator app during login.
- **Change Password:** Update the account password using the current password.

Note: For password recovery, use the “Forgot your password?” option on the login page.



- **Sub-Accounts:** Manage sub-accounts with specific permissions and access levels.

ProMGR user manual. ProMGR Cloud. User Management.

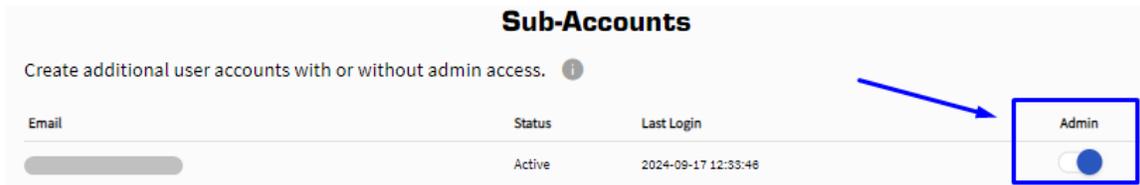
4.4.2. Sub-Account Management

Administrators can add sub-accounts and control their permissions:

- **Create Sub-Account:** Add a new user by providing an email, which triggers an activation link.

Add new user account:

- **Grant/Remove Admin Permissions:** Admin-level sub-accounts have full access to the workspace, except for sub-account management.

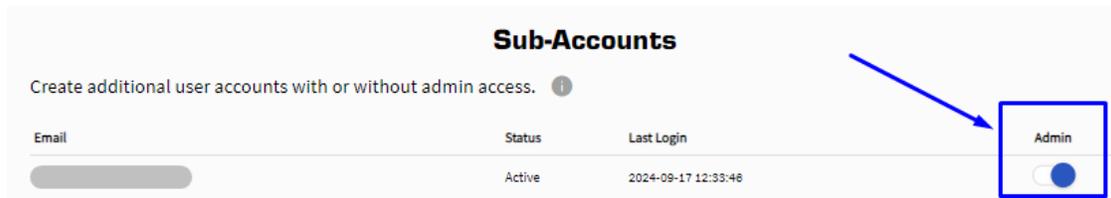


- **Group-Specific Access:** Grant sub-accounts limited access to specific device groups.

ProMGR user manual. ProMGR Cloud. User Management.

4.4.3. Delegating Permissions to other Accounts

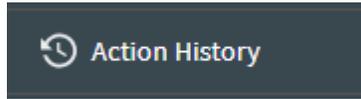
ProMGR allows management and monitoring of devices to be delegated to sub-accounts or other designated accounts.



Enable Admin Access for Sub-Account: Grants sub-accounts admin access to your entire workspace and all devices, excluding access to Sub-Account management.

ProMGR user manual. ProMGR Cloud. User Management.

4.4.4. Action Logs



The **Action History** section logs actions performed by main and sub-accounts, with details like:

- **Action Time:** Timestamp of the action.
- **Action:** Description of the action taken.
- **Status:** Completion status of the action.
- **Device:** Device on which the action was executed.
- **Account:** Account responsible for the action.

Use date filters and the search box for easy navigation.

Note: Only the latest 500 actions are shown. Include “Sub-Accounts” to view actions taken by sub-accounts.

ProMGR user manual. ProMGR Cloud.

4.5. Device Groups Management

ProMGR Cloud enables administrators to organize devices into groups, simplifying bulk management:

- **Add New Group:** Create a new device group.



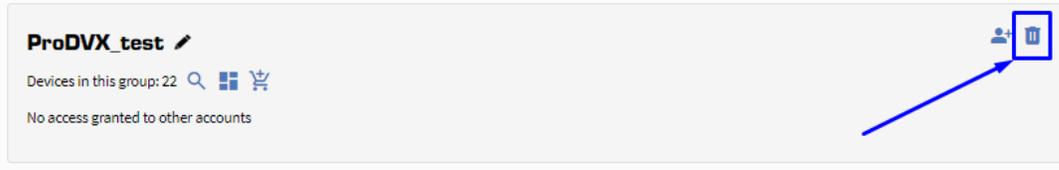
- **Edit Group Name:** Modify group names as needed.



- **View Device List and Dashboard:** Access device-specific data and status views for each group.



- **Remove Group:** Delete a group; devices will move to **No Groups** automatically.

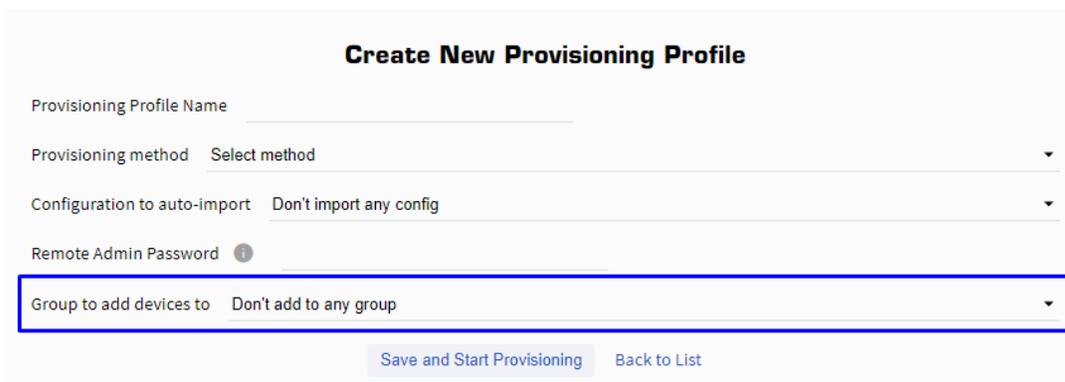


ProMGR user manual. ProMGR Cloud. Device Groups Management.

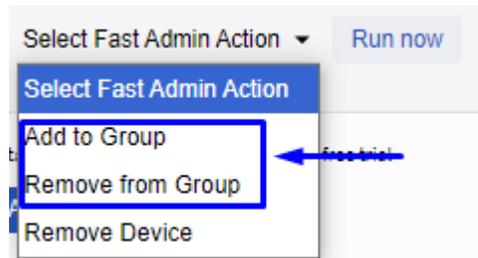
4.5.1. Adding and Removing Devices

Add devices to groups using multiple methods:

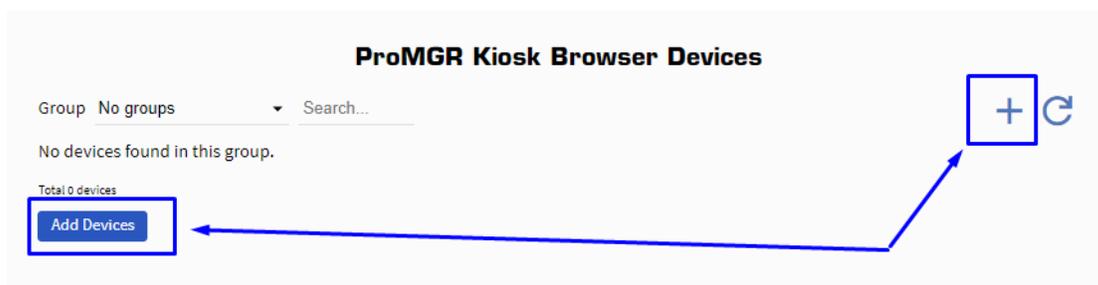
- **Provisioning Profile:** Assign groups during the provisioning process.



- **Fast Admin Action:** Add/remove devices from groups regardless of their online status.



- **Manual Addition:** Use **Device ID** or **Volume Key** for manual grouping.



Add Devices

Add devices to your ProMGR account.

Select method Add devices by Device ID ▾

Enter Device IDs to add to ProMGR account, one per line

ProMGR Kiosk Browser Device IDs

Kiosk App ProMGR Kiosk Browser ▾

Remote Admin Password

Skip devices never seen

Skip wrong pass devices

Add new devices to Don't add to any group ▾

Add Devices

Note: Devices can belong to multiple groups simultaneously.

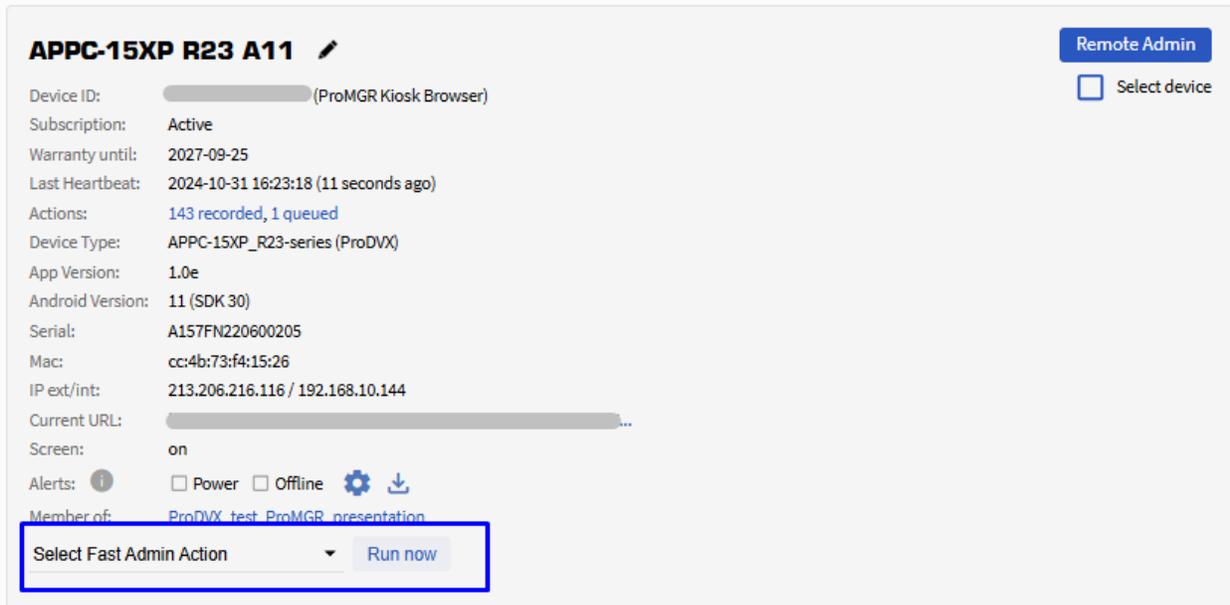
ProMGR user manual. ProMGR Cloud.

4.6. Remote Management

ProMGR Cloud provides a Remote Control feature, allowing real-time configuration and monitoring of devices globally.

ProMGR user manual. ProMGR Cloud. Remote Management.

4.6.1. Fast Admin Actions



In **Devices**, administrators can execute quick commands, including:

- **Upload & Import Settings:** Apply configuration files.
- **Push Configuration:** Send saved configurations to devices.
- **Screen Control:** Turn screen on/off, clear cache, restart apps, lock/unlock device, and more.
- **Reboot or Factory Reset:** Remotely reboot or reset devices.

Select multiple devices to apply Fast Admin Actions in bulk.

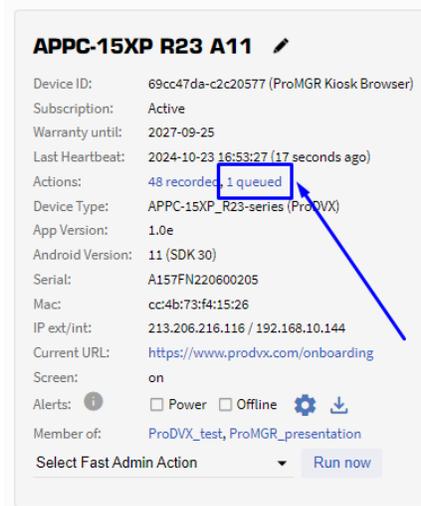
Command	Description
Upload & Import Settings File	Imports a prepared JSON settings file from your device to the selected device.
Get Configuration from Device	Retrieves the current configuration file from the device remotely and saves it to the Configurations section.
Push Configuration to Device	Remotely imports the selected configuration file from the Configurations section to the device.
Load Start URL	Returns the browser to the saved Start URL (for Kiosk Browser Mode).
Load Other URL	Sets the browser to load an alternative URL remotely (for Kiosk Browser Mode).
Install APK from URL	Remotely installs third-party applications on the device in "silent" mode from a URL.*
Load/Unpack ZIP from URL	Remotely loads and unpacks ZIP files from a URL on the device. Note: ZIP files or third-party applications must have a direct URL, which can be generated in the Files section.
Show Message	Displays a text message on the device.
Turn Screen On	Puts the selected device into sleep mode.
Turn Screen Off	Disables sleep mode on the selected device.
Clear Cache	Clears the device's cache remotely (for Kiosk Browser Mode and web-based applications).
Maintenance Mode On	Locks the selected device in maintenance mode.
Maintenance Mode Off	Unlocks the selected device from maintenance mode.
Move App to Foreground	Brings the ProMGR Kiosk app to the foreground (for Kiosk Launcher Mode).
Restart ProMGR Kiosk App	Quickly switches between different operating modes by restarting ProMGR Kiosk.
Wipe Device	Performs a factory reset on the selected device.
Reboot Device	Reboots the device remotely.
Remove Queued Actions	Clears all queued actions for the selected device.

ProMGR user manual. ProMGR Cloud. Remote Management.

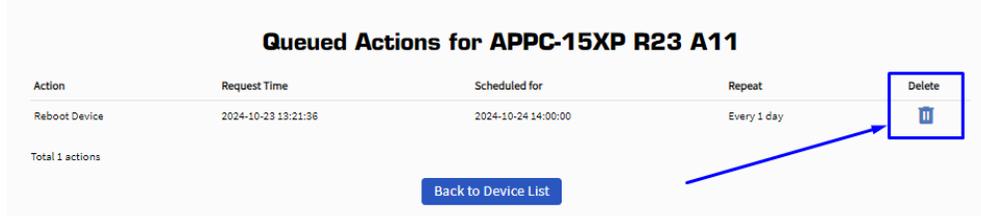
4.6.2. Scheduler

Schedule routine actions like reboots, updates, or content refreshes. For example, schedule daily reboots to optimize performance by:

1. Selecting devices in **Devices**.
2. Choosing **Reboot Device**.
3. Setting a date/time and repeat frequency.
4. Confirming with **Run**.



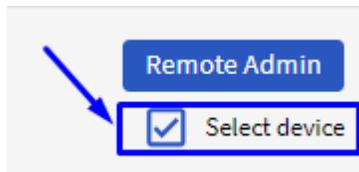
Users can review the list and delete any scheduled actions that are no longer needed.



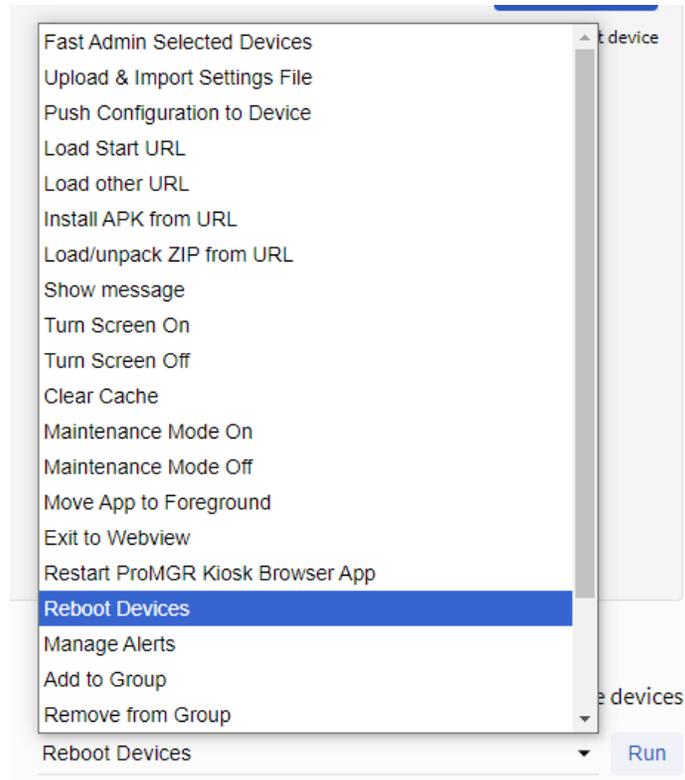
ProMGR user manual. ProMGR Cloud. Remote Management. Scheduler.

4.6.2.1. User case: How to schedule the daily reboot for ProDVX devices.

1. Select the target devices from the device list.



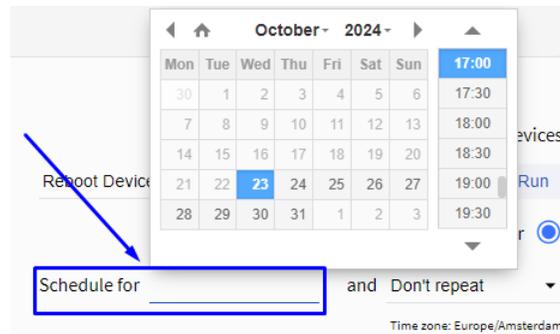
2. In the popup menu, choose the **"Reboot Device"** function



3. Check the 'Later' box



4. Set the date and time for the scheduled reboot



5. Choose a repeat option if needed: **Don't Repeat, Repeat Every Day, Repeat every week.**



6. Pres “Run” button.



ProMGR user manual. ProMGR Cloud. Remote Management.

4.6.3. Remote Admin

ProMGR’s Remote Admin function provides an extended toolset for in-depth device management, including screen sharing, file access, and more.

ProMGR user manual. ProMGR Cloud. Remote Management. Remote Admin.

4.6.3.1. Additional Device Information

Each ProDVX device provides detailed technical information accessible remotely. Available information includes:

- **ProMGR Kiosk Details:** Device ID, app package name, app version, license status, Start URL, current page, maintenance mode status, kiosk mode status, motion detection status, acoustic detection status, movement detection status, device admin permissions, device owner status, root status, last app start info, active fragment, app RAM (free/total), storage mode, and cloud status.
- **Device Information:** Device name, hostname, IPv4/IPv6 addresses, MAC address, WiFi SSID, screen brightness level, screen status, screen size, keyguard lock status, wakelock (full/partial/up), foreground app, foreground activity, RAM (free/total), internal storage (free/total), Android version, Webview provider/version, Webview user agent, device model, serial number, Android ID, and encryption status.

ProMGR user manual. ProMGR Cloud. Remote Management. Remote Admin.

4.6.3.2. Dedicated Functionality

Additional admin commands are available when remotely connected to the device:

Command	Description
Get Screenshot	Captures a screenshot of the browser window (available only in Kiosk Browser mode).
Start/Stop Screensaver	Enables or disables the screensaver on the device (full functionality coming soon).
Clear Web Cookies	Provides a quick way to clear only cookies.
Unlock/Lock Kiosk	Allows access to the ProMGR Kiosk menu/settings without requiring a PIN.
Close Menu/Settings	Returns the device to working mode after manual maintenance.

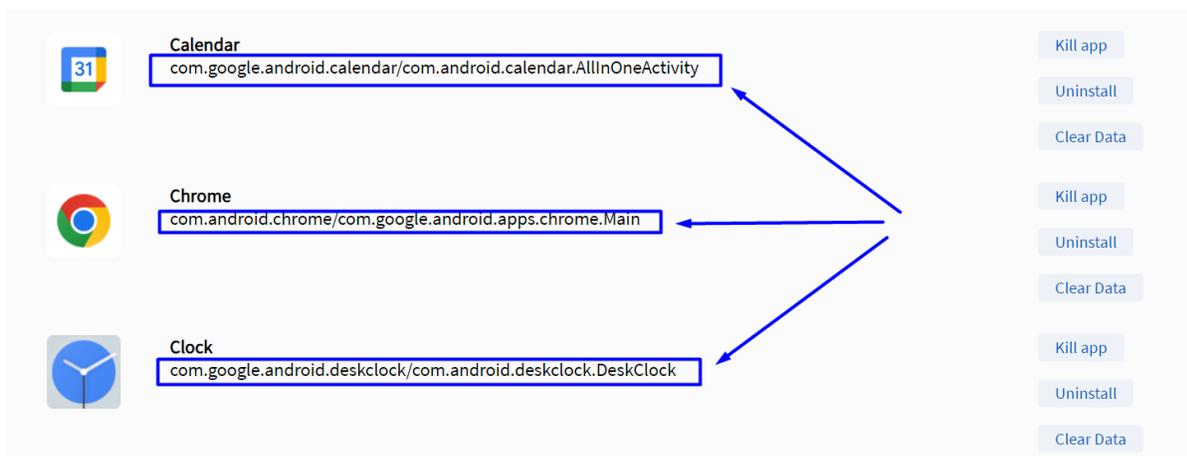
ProMGR user manual. ProMGR Cloud. Remote Management. Remote Admin.

4.6.3.3. Further Setup Information. Set the Single App Mode Remotely.

In Remote Admin mode, the option to select an app is not available through the standard interface. To choose your applications, you must enter the following command:

“intent:#Intent;component= packagename/classname;end”

You can find the required packagename and classname in the **Remote Admin → Manage Apps** section.



ProMGR user manual. ProMGR Cloud.

4.7. File Exchange

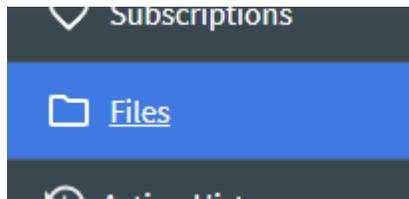
ProMGR Cloud provides account storage, allowing administrators to upload, download, and manage files for remote distribution to devices.

ProMGR user manual. ProMGR Cloud. File Exchange.

4.7.1. Controlled Storage

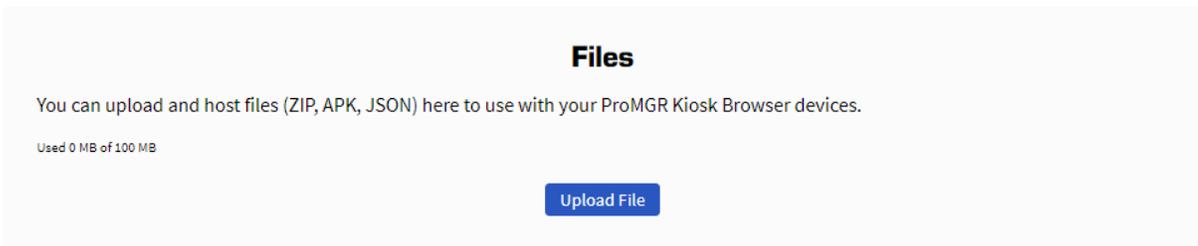
Each file uploaded receives a secure download link accessible only through ProMGR, ensuring files are protected.

Access storage through the **Files** section in the ProMGR Cloud menu.



The **Files** section displays:

- **File Information:** file name, file size (in bytes), and date and time of upload.



- **Available Actions:** upload files, delete files, and copy download links.

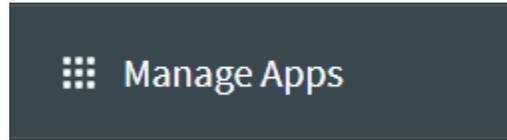
File Size (Bytes)	Uploaded	Delete	Download Link
27,355,339	2024-09-12 10:41:27		
3,375,827	2024-09-24 10:38:35		

Each stored file is assigned a direct download link, accessible only within the ProMGR environment. This link can be used solely by the ProMGR Kiosk app for secure file downloads.

ProMGR user manual. ProMGR Cloud. File Exchange.

4.7.2. Remote Application Management

ProMGR Cloud Remote Admin allows for easy monitoring and management of applications installed on a specific device.



In the **Manage Apps** section of each device (accessible by connecting through the **Remote Admin** button), you can view the list of installed applications. Available actions for each app include **Kill App**, **Uninstall**, and **Clear Data**.

Note: The foreground app cannot be killed, and system apps cannot be uninstalled.

ProMGR user manual. ProMGR Cloud. File Exchange.

4.7.3. Remote File System Access

With Remote Admin, you can access and manage the device's file system through the **Manage Files** section.



Available actions include:

- **View** folder contents
- **Create/Delete** folders
- **Upload/Download/Delete** files

Manage Files

/storage/emulated/0

Name	Date	Size	Download	Delete
..				
Alarms	2024-10-21 11:28	<DIR>		Delete
Android	2024-10-21 11:28	<DIR>		Delete
Audiobooks	2024-10-21 11:28	<DIR>		Delete
DCIM	2024-10-21 11:28	<DIR>		Delete
Documents	2024-10-21 11:28	<DIR>		Delete
Download	2024-10-21 11:28	<DIR>		Delete
Movies	2024-10-21 11:28	<DIR>		Delete
Music	2024-10-21 11:28	<DIR>		Delete
Notifications	2024-10-21 11:28	<DIR>		Delete
Pictures	2024-10-21 11:28	<DIR>		Delete
Podcasts	2024-10-21 11:28	<DIR>		Delete
Ringtones	2024-10-21 11:28	<DIR>		Delete
ProDVXmeetingroom_v1.apk	2024-10-24 15:50	7479599	Download	Delete

Note: Upload/download file size is limited to max. 8 MB if using Cloud. Please use the **Load ZIP File** feature for large uploads.

Upload file:

Enter ZIP file URL to load and unpack to this folder. Be careful, existing files will be overwritten!

ZIP File URL:

New folder:

Note: File uploads and downloads are limited to a maximum of 8 MB when using Cloud. For larger uploads, use the **Load and Unzip File** feature with a direct download link.

ProMGR user manual.

5. Provisioning and Deployment

This section outlines the steps for configuring, deploying, and managing ProMGR on ProDVX devices, including setting up configuration files, provisioning profiles, and activation codes for easy deployment.

ProMGR user manual. Provisioning and Deployment.

5.1. Configuration Files

ProMGR's configuration files are essential for defining device settings, including network configurations, application permissions, and other operational preferences. These can be managed directly through the ProMGR Cloud interface or locally on devices.

ProMGR user manual. Provisioning and Deployment. Configuration Files.

5.1.1. How to Create a Configuration File

1. **Navigate to Configurations:** In ProMGR Cloud, go to the "Configurations" section and click **Add New Configuration**.
2. **Define Settings:** Complete all required fields with device-specific settings.
3. **Save Configuration:** Click **Save** to store the configuration file, ready for deployment to devices.

ProMGR user manual. Provisioning and Deployment. Configuration Files.

5.1.2. How to Edit a Configuration File

5. **Edit in ProMGR Cloud:** Open the configuration from the list and select **Edit JSON** to directly modify configuration parameters.
6. **External Editing:** Alternatively, download the JSON file, edit in a JSON editor, and re-upload as needed.

ProMGR user manual. Provisioning and Deployment. Configuration Files.

5.1.3. Importing and Exporting Configuration Files

Configuration files can be transferred in two ways:

- **Remotely via Cloud:** Use ProMGR's **Fast Admin Actions** to upload, export, or push configurations to devices.
- **Manual USB Transfer:** From ProMGR Kiosk, go to Settings > Other Settings to export or import configurations using a USB stick.

ProMGR user manual. Provisioning and Deployment. Configuration Files.

5.1.4. Example: Uploading Configuration from a Pre-prepared Device

1. **Configure Device Settings:** Ensure the device is set up with the intended ProMGR configuration.
2. **Upload Configuration to Cloud:** In the **Devices** section, select the device, choose **Get Configuration from Device**, and save this configuration to use across similar devices.
3. **Apply Configuration:** This saved configuration can now be pushed to new devices through the ProMGR Cloud.

ProMGR user manual. Provisioning and Deployment.

5.2. Easy Deployment

ProMGR supports streamlined deployment methods for activating and provisioning devices. This section covers creating and managing activation codes and provisioning profiles.

ProMGR user manual. Provisioning and Deployment. Easy Deployment.

5.2.1. Creating Activation Codes

To generate an activation key, create a new profile in the **Provisioning** section:

1. Enter a **Provisioning Profile Name**.
2. Select one of the available methods: **NFC** (for APPC-10SLBe) or **Pre-Install Devices** (for ProDVX devices with A24 firmware).
3. Choose a configuration for **auto-import**.
 - a. If auto-import is not selected, set a **Remote Admin Password** to enable ProMGR connection for the device.
4. Select a **Group** where new devices will appear.

For NFC Provisioning:

5. **Kiosk App to Install:** Provide a direct URL to the APK file (a direct link can be generated in the **Files** section of the ProMGR portal).
6. Set **Language** and **Country** for device setup.
7. Set the **Timezone** of the device's location.
8. **Enable/Disable System Apps** (default Android apps).

9. If using a WiFi connection for deployment, enter **SSID** and **Password**. Leave these fields empty for LAN connections.
10. **Save and Start Provisioning.**

The **Provisioning** section displays a list of saved device provisioning profiles.

ProMGR user manual. Provisioning and Deployment. Easy Deployment.

5.2.2. Editing Provisioning Profiles

Provisioning profiles can be updated to accommodate configuration changes:

1. In **Provisioning**, select the profile, click **Change Profile**, and modify necessary fields.
2. The activation code remains valid across profile updates.

Note: The activation code will remain unchanged after editing the provisioning profile.

ProMGR user manual. Provisioning and Deployment. Easy Deployment.

5.2.3. Example: Preparing an NFC Card/Tag for APPC-10SLBe Deployment

For NFC-based provisioning, follow these steps:

1. **Install ProMGR NFC Deployer** on a device capable of NFC.
2. **Write the Profile to an NFC Tag:** Use the Deployer app to import the provisioning profile and write it to an NFC Tag.
3. **Activate Target Device:** Start the APPC-10SLBe device, bring the NFC Tag close, and let the ProMGR Kiosk install and configure settings automatically.