



AminoOS H200 25.3.2330.7R Release Note

Version: 25.3.2330.7R

Date of Release: Sept 11, 2023

Applicable Device Models: H200

Introduction

These are the latest release notes for Enable Enterprise on our H200. This contains information relating to exciting new and updated features, bug fixes, and open issues.

Subcomponent Bill of Materials

This software contains the following bill of materials on subcomponents:

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 - Android: 10 (29)
 - Security Patch Level: 2022-10-05
 - Amino Browser (v1.8.0)
 - Amino System Service (v1.3.0)
 - Enable Enterprise Local Management (EELM) (v2.5.0)
 - Engage Device Management (v1.2.1)
 - Amino Resolve (v2.3.6-Q)
 - Amino System Update (v2.3.2)
 - Amino Optimize (v2.3.0)
 - Amino Customizer (v1.1.0)
 - Amino RCU Service (v2.6.0)
 - Omni SCI Service (4.0.5f6b02b3.5f89575b)
 - Omni Simple Setup (v1.9.Amino)
 - EnableJS (v1.2.0)

Security Updates

- [Android Security Patch Information on 2022-09-05](#)
 - [Android Security Patch Information on 2022-10-05](#)
 - Note: All tests in Android STS (Security Test Suite) version "android-sts-10_sts-r11" are passed.
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What's new?

Notice

- Android WebView upgraded from 74 to 113. This is an important new change that enhances security, adds new web features, and deprecates some older features. It is important for users that are utilizing the built-in browser to fully test the functionality of their web application before upgrading production deployments to this release.
- The method of authentication for EELM via HTTPs has been updated to simplify the management of multiple devices in a single deployment. Beginning with this release, authentication will use Amino's Root CA cert instead of the device generated cert. This means that only a single certificate is now required to authenticate for HTTPs connections to multiple devices. The EELM API will now require the URL to use the device serial number with an extra "1". (example: 107-99999999 should use 107-999999991). This replaces the previously required local IP address (and implies that some DNS mapping will be required). The root CA cert can be obtained from Amino support.

Highlights

Feature Name	Description
EELM HDMI CEC Control APIs	We've added a whole set of APIs that allow interaction with the HDMI CEC connected device. You can control power status and volume, cycle the active input and retrieve the status.
EELM Event Scheduler	A powerful set of API's that enable a multitude of use cases. With the event scheduler APIs, EELM users can now schedule other EELM API calls to take place at a specified time in the future. This includes the ability to schedule Android Intents to be sent to installed applications.

New and updated features

ENAFR-24 For EELM API users, we've now added APIs that allow generation and retrieval of bug reports directly from the device.

GET	<code>/debug/bugreports</code> Get list of bug reports	∨
POST	<code>/debug/bugreports/generate</code> Initiate bugreport generation	∨
GET	<code>/debug/bugreports/{name}</code> Download generated bug report	∨

ENAFR-74 H200 authentication by EELM API client will now use the root CA instead of the device generated cert. This change was made to allow a single certificate to be trusted for multiple devices. The change also requires the API URI to use the device's Serial Number with an additional "1" at the end (example: 105-99999999 should use 105-999999991 and the full URL would be `https://107-999999991:104441/api/v2`). DNS mapping may be required. This change only affects users requiring HTTPs authentication and no change is made to HTTP requests.

ENAFR-112 CEC Control API Set - a whole new set of APIs have been introduced to allow control and communication with the HDMI CEC connected device. See the EELM API documentation for complete details.

GET	/device/hdmiCec/standbyMode	Get the HDMI CEC standby mode of the device	▼
PUT	/device/hdmiCec/standbyMode	Set the HDMI CEC standby mode of the device	▼
GET	/device/hdmiCec/tv	Get TV status via HDMI CEC	▼
PUT	/device/hdmiCec/tv	Update power mode and active HDMI port for TV via HDMI CEC	▼
POST	/device/hdmiCec/tv/cycleInput	Cycle through the available inputs on the TV. If HDMI CEC is not enabled, this action will enable it.	▼
POST	/device/hdmiCec/tv/volumeDown	Simulate pressing the 'volume down' button on the TV 5 times to reduce the volume.	▼
POST	/device/hdmiCec/tv/volumeUp	Simulate pressing the 'volume up' button on the TV 5 times to increase the volume.	▼

ENAFR-134 Update version of webview used in H200 firmware from version 74 to version 113

ENAFR-142 We've added a set of event scheduling APIs to the EELM set.

commandScheduler ^

POST	/commandScheduler/schedule	Schedule command(s) to be executed on the device	▼
DELETE	/commandScheduler/schedule/{id}	Cancel scheduled command(s)	▼
GET	/commandScheduler/schedule/{id}	Get status of the scheduled command(s).	▼
GET	/commandScheduler/schedules	Get the list of scheduled command(s).	▼

ENAFR-153 Extend EELM API to include App management - Several new API's have been added to EELM that facilitate application management (installing/uninstalling, stopping and clearing data).

POST	/system/application/install	Install / Re-Install / Downgrade APK on the device.	▼
POST	/system/application/install-via-url	Install / Re-Install / Downgrade APK on the device.	▼
GET	/system/application/{app}	Get the information of a installed Android package.	▼
POST	/system/application/{app}/clear	Clear the data of a installed Android package.	▼
POST	/system/application/{app}/force-stop	Forcing of a installed running Android package to stop	▼
POST	/system/application/{app}/uninstall	Uninstall a installed Android package.	▼

ENAFR-155 an INI Boolean flag has been added to enable support for disabling Recovery Menu access via GPIO Reset Pin. See the INI documentation for more details.

ENAFR-159 An INI has been added to allow configuring mouse pointer speed. See the INI documentation for complete details.

ENAFR-170 In order to improve the experience when the device is scanning for WiFi networks, we've added a "Scanning for Wifi Networks" message and animated spinner during SSID scan.

Bug fixes

ENA-1706/ENASP-44 - We fixed an issue where if a static IP was set, a black screen would be shown on bootup.

ENA-1184- An issue was resolved where some latency was noticed when tuned to a low latency HLS stream for many hours.

ENA-1589 - We fixed an issue where sometimes setting the EELM_Enable INI to "0" would not take effect.

Known issues

ENA-1790 STB it is noticed on some TVs that when "Auto wakeup from Standby" is set to "off" on the H200, power cycling the TV can still wake up the H200.

ENA-1789 EELM it is noticed on some TVs that using the EELM API to cycle HDMI inputs back to the H200 will sometimes fail.

ENA-1788 EELM it is noticed on some TVs that the EELM API get TV status returns the incorrect power_on status after cycling the available TV input or waking STB from standby from the EELM API.

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