Minerva Roku Client 2.6 GA Deployment Guide

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To deploy the Minerva Roku Client, follow the requirements and steps in these sections:

Deploying the Roku Client 2.6.0 GA

Deployment Requirements Roku Client 2.6.0 GA

The following requirements must be met prior to deploying version 2.6.0 GA:

Requirements
Minerva iTVFusion server release 10.5.8 LA Patch 6 or greater.
Minerva nDVR version 2.7.5 or greater (required for Restart and CatchUp TV services).

Widevine DASH Protected Deployment Through Verimatrix Multirights DRM

> **Note:**
>
> The RokuOS arguments must be present if decrypting Widevine DASH protected content through Verimatrix Multirights DRM. The Native builds option must be enabled in the Roku build for Verimatrix Multirights DRM deployments.

In the Back-Office Admin there must be valid Verimatrix Multirights Server details in the **mw_args** configuration for the RokuOS argument.

1. Log in to the Back-Office Admin and navigate to System Setup Configuration **mw_args**.
2. Add/verify there is a valid RokuOS argument.

Example:
RokuOS.mw_args="-wvbaseurl=VCASSERVERIP:VCASSERVERPORT -casname=VCASNAME"

Widevine DASH Protected Deployment Through Axinom DRM

> **Note:**
>
> The RokuOS arguments must be present if decrypting Widevine DASH protected content through Axinom DRM. The Bitmovin builds option must be enabled in the Roku build for Axinom DRM deployments

In the Back-Office Admin the value of **AXINOMDRM** must be in the **mw_args** configuration for the RokuOS argument.

1. Log in to the Back-Office Admin and navigate to System Setup Configuration **mw_args**.
2. Add/verify there is a valid RokuOS argument.

Example:
RokuOS.mw_args="-casrv=AXINOMDRM -casname=AXINOMDRM"

> **Note:**
>
> Roku does not support Verimatrix HLS-encrypted content.

Deployment Configurations Roku Client 2.6.0 GA

Roku Channel Submission 2.6.0 GA

The Roku Client 2.6.0 GA is only available through private channel invitation administered by Minerva at this time.

Channel Line-ups and Packaging 2.6.0 GA

Minerva recommends a channel lineup with up to 250 channels. Each channel requires associated metadata to be loaded to populate the program guide and infobar. The more channels added to the lineup, the longer it takes to load and populate the guide. Users might begin to experience a performance degradation with lineups with more than 250 channels.

> **Note:**
>
> If there are existing STB deployments, the Minerva Roku Client 2.6.0 GA is currently configured to have the device type as Stationary. It inherits the same channel line-up assigned to the account even if not all channels are configured for DASH or HLS playback.
>
> Channels must have a DASH or HLS source configured, otherwise they will not be displayed in the Roku channel list.

Content Rights 2.6.0 GA

Confirm the appropriate content rights to distribute content to devices such as the Roku. Also ensure that the required rights are in place for offering CatchUp TV and Restart TV services.

RS-DVR, CatchUp and Restart TV 2.6.0 GA

RS-DVR, CatchUp TV and Restart TV services can be enabled on a per-channel basis. To comply with programmer requirements, trick-play functions such as rewind and fast forward on the client are not available. (Pausing is available.)

Resolution, Frame Rate, and Bit Rate 2.6.0 GA

Please refer to the Roku SDK Documentation for details of supported Video and Audio configurations.

- Roku SDK Documentation

> **Important:**
>
> If CatchUp TV/Reverse EPG is implemented, ensure that the value of **reverseEpgDays** in the **Global_Settings** configuration asset is no more than 3 (days). For more information on this parameter, refer to document *iTVBackOffice Administrator Guide*.
>
> If **reverseEpgDays** is set to a value greater than "0," customers can use reverse EPG and play CatchUp TV while watching programs enabled for it. (Note: Restricting the use of these features on a per- account basis is not available at this time.)

Roku Pay Support 2.6.0 GA

To enable Roku Pay support, the operator must have an agreement with Roku and have integration between its OSS/BSS and the Roku service. The operator must create purchasable items in the Roku Operator Portal. Those items must have corresponding Purchase Pages as part of the UI Configuration. Purchase pages should be configured with the Roku SKU in the Promo Code field and a HTTPPOST endpoint to allow client to confirm the transaction.

There are three build-time options that must be set on the client to properly enable Roku Pay:

- Roku Pay enablement: Instructs client to use Roku Pay workflows when Purchase Pages are properly configured for Roku Pay.
- Transaction wait time: This setting determines how long the client polls the back office waiting for entitlement updates to be pushed in by the operator's OSS/BSS system
- Ignore PIN option: Disables presentation of the Minerva PIN during a purchase via Roku Pay (Roku prompts for the user PIN separately).

Time-Out Behavior Roku Client 2.6.0 GA

The idle timeout is specified by parameter **idle_timeout** in file **manifest**.
After the amount of time specified by parameter **idle_timeout** expires, the client:

1. Prompt user with on screen message of "Are you still watching?"
2. If the user confirms they are still watching, playback continues, timer is reset
3. If the user is inactive does not confirm, the STB:
   a. Stops streaming the video.
   b. Displays the message: "The application timed out due to inactivity. Press OK to continue."
   c. User is sent back to previous entry module.

Settings Options Roku Client 2.6.0 GA

Auto Log In 2.6.0 GA

By default, Auto Log In to the Roku Client 2.6.0 GA is enabled. To disable Auto Log In, the user must Log Out.

Parental Controls 2.6.0 GA

By default, Parental Controls the Roku Client 2.6.0 GA are disabled. To enable/disable Parental Controls:

1. In Main Sidebar, navigate to and select the user avatar/on-screen name.
2. Select "Settings" "Users".
3. Select "Profile" "Edit User".
4. Enter the Personal Identification Number (PIN).
5. Select "Parental Controls".
6. Choose "Enable".
7. Set the specific Parental Control levels for the user.
8. Click "Back" to exit.

Closed Captions 2.6.0 GA

By default, Closed Captions are disabled. To enable/disable them:

1. Press the "HOME" button on the remote to go to Roku Home page.
2. Navigate to "Settings" -> "Captions".
3. Select various captioning options by pressing the "OK" button.

Use "Back" or "HOME" to return to the main page.

The Roku Premier, Roku Premier +, and Roku Ultra have the option to enable/ disable Closed Captions from fullscreen video:

- When viewing fullscreen video, select the "Option" button to open the Roku Options pane.
    - To enable Closed Captions, select "On".
    - To disable Closed Captions, select "Off".

Error Messages Roku Client 2.6.0 GA

The following table lists the Roku error numbers that can appear on screen when viewing Roku content, and a description of those errors:

Error Message/Code	Description	Corrective Action
Current device is assigned to different customer.	n/a	Log in using correct customer account.
The information entered was incorrect or the server is unavailable. Please try again.	n/a	Check the Roku connection and YourTV server information.
0	Network error: server down or unresponsive, server is unreachable, network setup problem on the client.	The video channel might be unreachable. Retry the video playback.
-1	HTTP error: malformed headers or HTTP error result.	Check video settings.
-2	Connection timed out	The video channel might be unreachable. Retry the video playback. Check video server.
-3	Unknown error	N/A
-4	Empty list; no streams were specified to play	The video channel might be unreachable. Retry the video playback. Check video server.
-5	Media error; the media format is unknown or unsupported	Check video server settings.
-6	DRM error	Retry the video playback. Check video server.
999	Video Buffering Timeout	The video channel might be unreachable. Retry the video playback. Check video server.

Branding the Roku Client Interface

Branding is available for this release. Contact your Minerva Professional Services representative.

Change Log

Version	Date	Change Details
00	2023-07-28	Initial release.