



Managed Streaming Devices

Fulfill the Promise of Streaming Video

When it comes to enjoying video content, one device continues to outshine all others – the TV. Even as mobile devices provide portability, the combination of screen size, video quality and communal enjoyment has led to a renaissance for the TV, which has been the centerpiece of the consumer home for decades.

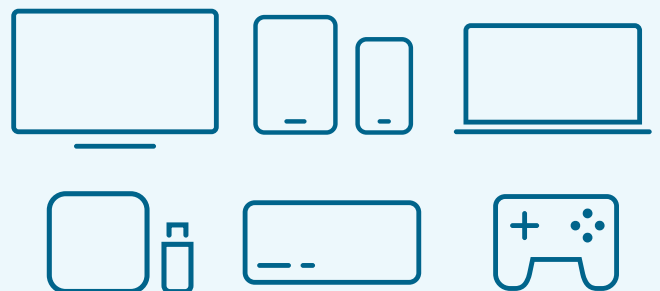
Streaming is displacing legacy TV delivery methods while TV itself is being redefined as any kind of linear or on-demand video experience. Amino, as a provider of IPTV set-top boxes, has been enabling delivery of streaming content for over 20 years. IPTV is defined as the delivery of TV content over an internet protocol (IP) network. Instead of receiving TV programs as broadcast signals that are delivered to the consumer home via a rooftop antenna, QAM cable, satellite dish, or fiber-optic cable, they are streamed, downloaded and played through your Internet connection.

Even as the TV has slimmed down quite a bit, making it easier to incorporate into our homes, it is often paired with another device that enables streaming content to be displayed on the TV's screen. These streaming devices are designed to give consumers access to high-end audio/video via a graphically appealing, easily navigated user interface.

What is a Streaming Device?

Whatever the size, shape or color a streaming device takes they all share similar baseline features:

- Simple set up, typically via an on-screen guide
- A variety of Premium, SVOD and AVOD apps
- Connectivity to the TV via an HDMI port
- Audio and video content (with gaming content emerging)
- Ability to display content cast from mobile devices



The Streaming Challenge



The challenge with many streaming devices is that they are designed for retail sale and use. While they are easily obtained, the consumer has limited recourse should they experience buffering, poor video quality, video start failures, out of sync audio/video, or other performance issues. Additionally, these retail devices restrict the ability for video service providers (e.g., Pay TV operators, streaming app providers) to manage or validate the quality of the service delivered.



*Rebuffering is the most frustrating aspect of online viewing (Limelight2020)

The TV's big screen continues to dominate viewing time garnering 73% of global viewing time. However, even as consumers subscribe to more streaming services, they still face service quality issues, which become more apparent on the TV screen. One of the biggest issues impacting the streaming subscriber experience, leading to stream abandonment and reduced monetization is the challenge of buffering.

While streaming providers can and do capture quality metrics, they are limited in identifying the root cause or remedying service quality issues. However, Operators who offer pay TV services and deploy set-top boxes have invested in service management for decades. Set top boxes are, in fact, managed streaming devices that provide operators the ability to view, diagnose and resolve performance issues.



Amino Devices when combined with Amino Engage, our cloud-based SasS management platform, give Pay TV operators centralized control of deployed devices. With tools to identify and address issues, operators ensure that their subscribers enjoy their favorite streaming programs on their TVs without delay or interruption.

Managed Streaming Device Benefits



Reinforce operator brand in the consumer home

- Physical branded device
- Operator branded UI
- Operator branded remote control



Customer Support

- Someone to call
- Knowledge of network and devices
- Amino Engage as tool enhancing support agent responsiveness



Enhance operator visibility of deployed devices

- Diagnostic data about device performance
- Validate video delivery



Extend life of device and connected TV

- Centrally managed software, firmware, app updates/upgrades
- Ensure support for latest video delivery technologies

Amino's managed streaming devices are the key to extending customer lifetime value.

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We would love to know more about your video plans.

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