

Xenon™ Streamer



Available Product Tiers

- Xenon™ Streamer 15
- Xenon™ Streamer 50
- Xenon™ Streamer 100
- Xenon™ Streamer 250
- Xenon™ Streamer 500
- Xenon™ Streamer 1000

Advanced Live and VOD Mobile TV

Xenon Streamer is available in either Standard Package or Premium Package. Please contact a sales representative for more details.

What is Xenon Streamer?

Xenon™ Streamer supports on-demand and live broadcasting for mobile TV, music, and VOD services. Xenon Streamer is flexible, scalable, and can be integrated into existing customer infrastructures easily. Xenon delivers innovative features designed to support today's advanced mobile TV services. Xenon Streamer offers a range of flexible deployment options, working seamlessly with other Xenon components such as Xenon Live Encoder, in addition to third party encoding tools.

Features

- Streaming video: H.264, MPEG-4, H.263
- Streaming audio: AMR, AMR-WB, AAC, HE-AAC (v.1 and v.2), QCELP, EVRC
- Compatible with all 3GPP-compliant handsets
- Dynamic Bit-rate Adaptation (DBA) optimizes the stream quality to match the network conditions
- Real-time billing interfaces (SOAP, HTTP)
- Server-side playlists for advert insertion and music playlist streaming
- Server-side duration control to preview or limit content access
- Automatic bookmarking (return to a saved point in the stream easily)
- Fast Channel Switching (FCS) enables fast switching between live channels in just a few seconds
- Fast Track Switching (FTS) enables seamless switching between music tracks using a standard media player
- SNMP monitoring and comprehensive logging
- Easy integration into existing infrastructure through comprehensive APIs

Why Xenon Streamer?

Higher Quality Streaming with Dynamic Bit-rate Adaptation (DBA)

Xenon Streamer includes a powerful rate adaptation feature called Dynamic Bit-rate Adaptation (DBA), which constantly monitors and adapts the stream quality (such as increasing or decreasing the bit-rate) in response to network conditions. Due to the nature of mobile networks the available bandwidth often fluctuates, so DBA helps protect the end-user against disconnection and buffering, allowing content to be enjoyed without interruption. DBA works seamlessly with all 3GPP-based mobiles with no additional software required on the handset. Xenon Streamer's DBA has proven itself to be a critical technique to deliver high quality streams in all network conditions, and has been deployed for over 5 years in the field. Vidiator's DBA has been extensively fine-tuned based on real-world scenarios and in-depth knowledge about the radio network behaviour. A comprehensive optimization service can also be provided.

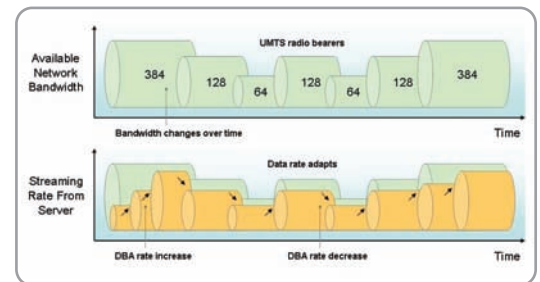


Figure 1 Dynamic Bit-rate Adaptation (DBA)

An Improved User Experience with Personal Playlists

Xenon makes it easy to create personalized playlists using a simple XML format. Personal Playlists are a great way to deliver multiple VOD clips as a single, uninterrupted stream with no buffering or disconnection between each clip. Because Personal Playlists are managed by the server only, this feature works on all handsets with no special client requirements. Personal Playlists can also be used to control the sequence of several clips, set the play duration, or perform a random play (shuffle). Through a suitable WAP portal or website, mobile users can even create their own playlists, for example to choose a selection of music tracks to play in a preferred order. Playlists can also be updated dynamically (mid-stream) in order to change the preferred play order or insert additional content in real-time.

Increase Revenue with Mobile Advertising

Xenon enables adverts to be delivered to mobile users via Personal Playlists, such as pre-roll or post-roll adverts, complete with a "no skip" option. The advert sequences can be created on-the-fly for each user because the playlist simply references the content to be delivered.



Figure 2 Adverts built using the personal playlist feature

A TV-like Experience with Fast Channel Switching

Fast Channel Switching (FCS) delivers a TV-like experience, enabling users to switch between live channels in seconds with no buffering or disconnection. FCS can be used with mobile TV clients (an HTTP API is provided to integrate with Xenon Streamer) or via a web page with an embedded media player. This feature requires Xenon Live Encoder.

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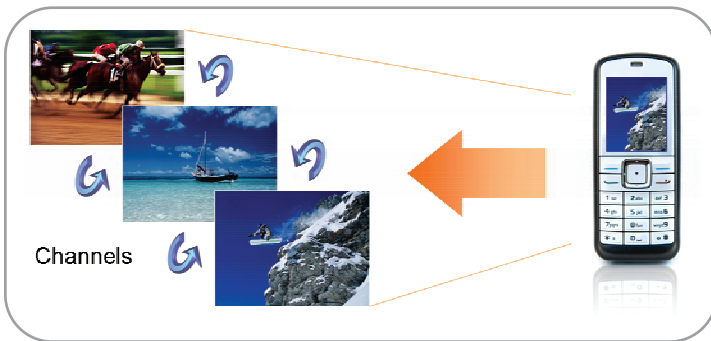


Figure 3 Fast Channel Switching

Carrier-Grade Reliability and Performance

Xenon Streamer is proven to be a rock-solid product with carrier-grade reliability and performance to match, and is the core technology delivering mobile TV services today's most demanding environments.

Detailed technical specifications can be provided on request

SUPPORTED OPERATING SYSTEMS

Xenon Streamer :

- Windows Server 2003 Standard/Enterprise
- Windows XP Pro
- Linux Red Hat 4
- Solaris 9 and 10

SUPPORTED HARDWARE

Xenon Streamer runs on common hardware platforms such as Intel and SPARC. A full list of recommended hardware and software can be provided on request

Enhanced Music Services with Fast Track Switching

Fast Track Switching (FTS) enables users to skip music tracks in a playlist during the streaming session without any buffering or disconnection. A simple to use HTTP API is provided to integrate with Xenon Streamer.

Simple Integration

Xenon Streamer can be easily integrated into existing network environments, through a comprehensive set of standard APIs (such as FCS and FTS), detailed logging and CDRs, and an extensible plug-in framework called Xenon Service Broker. The service broker provides interfaces to external systems such as Billing, Authentication and Authorization, Subscriber Management, and can also perform session control (including the ability to terminate a stream when the user's credit expires). Xenon Streamer provides all the necessary integration points, which can easily be extended to provide additional functionality.

Corporate Headquarters

Vidiator®
10900 NE 8th Street
Suite 1486
Bellevue, WA 98004 USA
Phone: +1 425 688 8811
Toll Free: +1 877 633 4202
Fax: +1 425 688 8338

Korea

Vidiator®
7th Floor
Ann Jay Tower, 718-2
Yeoksam-Dong, Kangnam-Gu
Seoul 135-920 Korea
Phone +82 70 7012 2512
Fax: +82 2 569 5348

China

Vidiator®
9th Floor
Hutchison Telecom Tower
99 Cheung Fai Road
Tsing Yi, Hong Kong
Phone: +852 2128 5375
Fax: +852 2128 5740

United Kingdom

Vidiator®
Chiswick Business Park Building 3
566 Chiswick High Road
London, W4 5YA United Kingdom
Phone: +44 870 351 1040
Fax: +44 870 351 1043

Japan

Vidiator®
Kasumigaseki Bldg. 26F
3-2-5 Kasumigaseki
Chiyoda-ku Tokyo 100-6026 Japan
Phone: +81 3 5251 3975