aQua Video Server

For: Telecom Operators, TV Service Providers, Media & Entertainment, Hardware Manufacturers, System Integrators

- ⇒ 200Gbps Streaming Capacity
- ⇒ 50 000 Concurrent Subscribers to a Regular Server
- ⇒ Innovative Features for Managing Your Subscribers' Time

aQua Video Server is designed with maximum performance and scalability in mind. Video server is capable to utilize maximum amount of storage space available, RAM and CPU cores in one instance (multiple instances on one server is allowed). In real world cases one aQua Video Server is capable to stream up to 200 Gb/s to up to 50000 clients simultaneously.

Features of the aQua Video server are fully dedicated to video content effective and secure archiving and delivery of media information to the STB and other endpoints. Secure delivery of the content is empowered by integration with Google Widevine and Apple FairPlay DRM systems.
Unlimited horizontal scalability allows service providers to easily scale out, reduces expansion costs and conserves space while still allowing room to grow. In addition, aQua uses server hardware in a very efficient manner. The resulting aQua streams are very cost effective and double or triple stream capacity when compared to competitive offerings on the market.
Direct reception of a satellite feed and the ability to digest a Variable Bitrate feed without loss in quality reduces hardware costs by eliminating the necessity for transcoders. This means that one aQua Video Server can do the same amount of work that requires several competing video servers. This results in a low cost per stream making aQua Video Server even more efficient, space saving and cost effective.

Record Live Content Infinitely - Manage your favorite sports and movies in seconds

Qarva aQua technology allows one-touch instant rewind from the live TV without deterioration in quality. Our unique indexing method ensures absolute precision – playback starts from the exact moment when the viewer stops rewinding or resumes paused video.

DRM Supported, ABR HTML5 Player – Easy Integration to Existing Legacy Systems

⇒ Catch a Second & Manage Your Time
⇒ Play / Pause
⇒ One Touch Instant Rewind
⇒ Time-Shift (Catch-Up) TV
⇒ EPG
⇒ Bookmarking / Reminders

PIX – innovative way of Rewinding Live TV

Qarva has developed the ultimate in IP Television trick play; Qarva Pix. This is a unique feature providing "slide rewinding" similar to that seen on smart phones. Using a finger, the viewer can sweep the video content forward or back and stop. The amount of content the scrolling frames represent is user chosen; an hour, a minute, a second. It is a highly accurate and immersive way for the user to choose exactly where they want to be in the content. When a frame is chosen it can be expanded with a hand gesture and re-divided into smaller segments so the user can find what they are looking for down to the second.
The Qarva Pix server, part of the Qarva QoE ecosystem, receives frames from the aQua server and renders them as a linear sequence of 'film frames' that can be manipulated to and from. When the user chooses to stop and returns to the play mode the device is seamlessly returned to the aQua buffered recording or the live stream.

Key Features:

- source could be aQua media server, UDP/RTP multicast (with Qarva FCC/PLR support), HLS playlists or HTTP progressive sources
- supports static VOD content
- supports real-time content indexing for Multiformat and Trick Mode streaming
- streams indexed content in Qarva Proprietary or HLS/HTTP progressive format
- supports various content protection, such as DVB-CSA, Verimatrix, PlayReady, Widevine
- supports config file-based management and management from database
- supports client IP black/whitelisting
- supports client content scrambling with static keys
- supports client tokenization
- comprehensive statistic of sever usage (memory, storage, CPU, network, clients, contents)