

Maestro Management Suite

You have probably just explored the realm of BitBand **Vision™** servers and how they excel in serving video content to your consumers. BitBand **Maestro™** is the second component of the BitBand stream delivery system, complementing the streaming servers with management capability, creating a managed robust and scalable solution.

Providing high network bandwidth, for streaming quality video, usually requires that Vision server clusters are located 'close' to the users - in regional headends, DSLAMs, MDUs, hotels, hospitals and education centers. MPEG encoded video assets are usually received from content providers and stored in central repositories located at your central office, or master headends. Video must then be distributed to the remote streaming platforms.

Here are some of the issues related to content distribution, which make the process complex, unless an efficient, reliable and friendly tool is provided:

- Assets are centrally managed, even when distributed.
- Content distribution must be synchronized with the interactive TV application, which displays asset lists to consumers. Moreover, different content assets may be required at different distributed locations, to customize the content selection to local end-user population, hotel chain, hospital type etc.
- The distribution system must allow for content protection, before, during and after the distribution process.
- Distributed content will be watched many times over - it must reach the serves in its original high quality.
- Network types and constraints require network routing, different data rates, recovery methods and integration with 3rd party CDN solutions.

This is where BitBand Maestro comes in!

Maestro is primarily a content distribution system, specifically designed and optimized to distribute content to clustered BitBand Vision servers. It is designed to answer all the issues listed above, and more.

Maestro fulfills two additional functions in enabling the IP-TV system:

- Management of Vision servers - Maestro provides access, status display and manipulation of distributed servers, an essential tool, especially when high-end network and network-attached-devices management tools are not in use.
Maestro also collects the detailed logs created by Vision servers into its SQL DB, enabling their centralized processing for planning, control and operations purposes.
- Interface between the BitBand media delivery system and other components of the IP-TV system as well as service provider's information systems. Maestro provides interfaces to external applications. One example is iTV portals/applications, which can drive Maestro content distribution and map distributed content.

Throughout their functionality, we keep our solutions:

Simple

BitBand Maestro provides easy-to-use user interfaces for distribution of content and managing BitBand Vision servers.

Scalable

Maestro scales together with the stream delivery systems it manages. It allows management of multiple small and large distributed Vision clusters, automating many activities and functions.

Affordable

Maestro is priced as other BitBand products low entry, seamless growth, affordable acquisition and low total cost of ownership. Maestro is an evolving product. BitBand adds function, enhances performance and automation, over versions, which are released from time to time.

Its current operating environment is MS Win2K. A new major version, which is planned for release in the coming months, will migrate Maestro to Linux, greatly enhancing its reach, functionality, automation and accessibility, all in line with the market demand for larger, more distributed and easier to manage content delivery systems.