



**zBand® is SkyStream Networks' multi-cast content delivery platform. Built on open standards and a massively scalable secure server-client architecture, zBand is the ideal content delivery platform for network operators, service providers, and large enterprises.**

**FEATURES:**

- NEW in zBand 4.1 – Stream Encapsulation – zBand will schedule, announce, protect and multi-cast all IP stream formats
- NEW in zBand 4.1 – integration with Windows® Media Server for full stream service automation
- Easy-to-use GUIs with comprehensive system and network schedule, history, diagnostics, policies, and information at-a-glance
- Fully compatible with all digital content formats
- Open APIs for rapid customization, integration, and deployment with existing solutions
- Supports full confirmed delivery, transaction logging, and billing interfaces
- Fully scalable server architecture supports up to 480 Mbps total system performance and automatic redundant fail-over for mission-critical service deployments
- Multi-OS client support, including Windows, Linux®, Solaris®, VxWorks®, embedded OS platforms, and cross-platform deployments
- zBand system components are Unicode (UTF-8) compliant for full support of international languages
- Secure web interface allows content uploading and access to all zBand server functions from any where on the Internet
- Multiple reliable delivery protocols, including userdefined carousels, customizable forward error correction (FEC), Pragmatic General Multicast (PGM), real time and asynchronous negative acknowledgements (NAKs and ANAKs)
- Supports major caches and caching protocols (Apache, Inktomi®, Internet Explorer®, ICP, HTTP Push)
- SNMP integration for management of network hardware, and full integration with SkyStream hardware platforms
- Integration with major IP and DVB conditional access systems and major digital rights management systems for end-to-end content security

zBand gives you the power to manage your content, bandwidth, and network in a single software platform. zBand's open API architecture provides easy integration with other systems and gives you the competitive edge to implement the solutions that fit your business and your customers. zBand's flexible platform and innovative features scale with your network infrastructure as your requirements and business grow.

**KEY zBAND APPLICATIONS:**

**Integrated Content Delivery Services**

- Use extensive APIs to integrate zBand with your existing Content Delivery Solution

**Enterprise data and streaming services**

- File delivery
- Corporate communications
- Retail display
- Distance learning
- Database updates
- Sales support

**Video asset delivery**

- Digital cinema
- Video-on-Demand (VOD) backhaul

**Entertainment services**

- Set-top box (STB) asset delivery
- Streaming service management

**ZBAND PERFORMS FIVE ESSENTIAL PARTS OF CONTENT DELIVERY:**

**Aggregation** – zBand aggregates any kind of digital content from local or remote locations in preparation for delivery. Program zBand to fetch content on a one-time or regularly scheduled basis. Upload content securely into the zBand server from remote locations via the Internet. Fetch any IP stream and programmatically control Windows Media Servers from zBand.

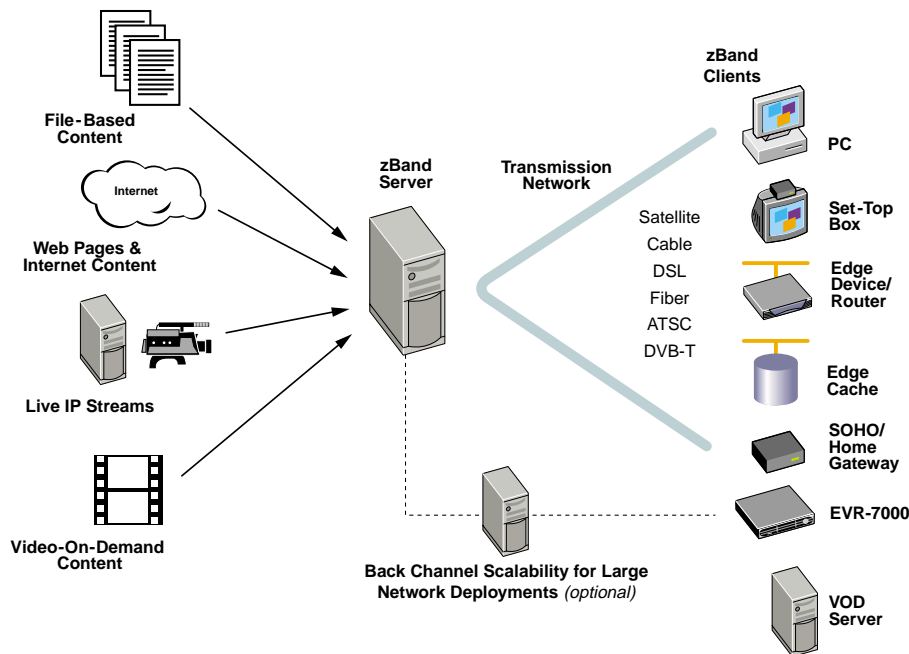
**Management** – zBand gives you the power to manage your content and network using an intuitive set of server applications, or using zBand's XML-based APIs and SDK. Manage and monitor content scheduling, transmission priorities, bandwidth allocation, channel and service creation, quality of service, logging, delivery confirmation, content expiration, cache management, and network attributes.

**Targeting** – zBand gives you the power to target your content to specific clients. Organize your subscribers into tiered classes of service. Give each of your customers a private customized channel. Give clients the ability to set their individual reception preferences or manage client privileges remotely from the zBand server. Or use zBand's SDK to control zBand targeting from your SMS or billing system.

**Delivery** – zBand's content delivery architecture guarantees that content will be delivered reliably and securely. Depending upon your specific network attributes, pick from a laundry list of zBand resources such as customizable forward error correction (FEC), pragmatic general multicast (PGM) protocols, digital rights management, back-channel management, and QoS management to guarantee reliable and secure content transmission.

**Presentation** – zBand organizes delivered data within a completely customizable XML-based client guide. Customers and subscribers can be given custom views of their delivered data. The client and the content in its cache can be queried remotely and controlled from the zBand server or another management utility.

Figure 1 - zBand network topology



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