

SUMMARY

Proliferation of portable digital devices is creating a new video market, adding new revenue stream to the existing telecommunications landscape. In this market trend, IPTV is poised to bring not only new opportunities by challenges on existing network infrastructure long optimized for data and voice communication-oriented services.

Hanaro Telecom, a leading IPTV market in Korea, wanted to deploy a video distribution system for its IPTV service that can be adaptable to the current capacity of IP network, interoperable with operations support systems, and highly available.

AMS Korea provided integrated solution that seamlessly interconnects newly-introduced video distribution systems to its incumbent nation-wide IP network.

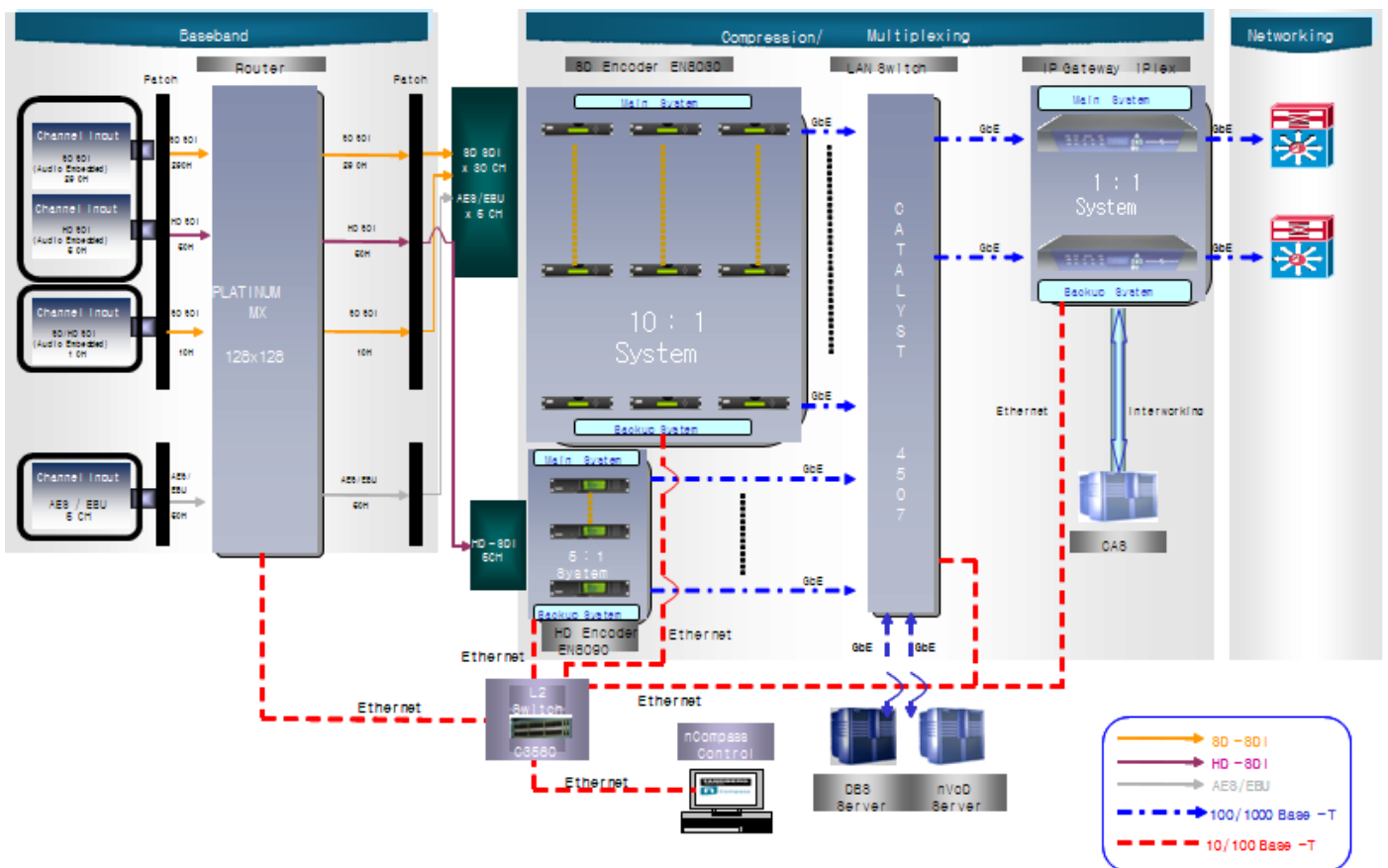
CHALLENGES

The IP network of Hanaro Telecom is not fully optimized for IPTV service, a common issue in all Telco or ISP around the World. Hence, an efficient encoding system is required so that video contents can be appropriately compressed and smoothly exchanged within its nationwide IP network.

Another challenge is the interconnection of legacy video systems.

And the system must provide high availability through redundancy for stable operations in a cost- effective manner.

SOLUTIONS



Responding to Hanaro IPTV requirements, a three-tier system is proposed: Baseband, Compression/Multiplexing, and Networking.

- Baseband part interconnects and routes channel inputs to encoders.
- Compression/Multiplexing part encodes channel inputs, aggregates by multiplexing and adapts into IP network.
- Networking part interconnects components in a standard way.

Key features of the solutions are significant bandwidth reduction by applying advanced encoding technology(H.264 AVC), simplified adaptation of video systems into IP network by introducing integrated IP gateway, stable but cost-effective operation by applying N+1 redundancy.

BENEFITS

The company is expected to provide high quality of IPTV service even under the current capacity of IP network, achieve stable operation by simplified but redundant integration of the components, and be able to expand systems easily in flexible but standard way.

CUSTOMER INFORMATION

Hanaro Telecom, Inc. [Kosdaq: 033630] is one of the largest providers of high-speed broadband internet access in South Korea. The company is also the second largest fixed line service provider, including local telephone access.

Originally a Korean domestic fixed-line carrier, Hanaro Telecom has since transformed to become a so-called 'triple-play' communications company with broadband Internet access and the new IP-based television services (HanaTV).