

NHK Fukushima Station Deploys AscenLink For WAN Load Balancing Solution To Ensure Performance of HDTV Video Traffic

Overview
<p>NHK Fukushima Station</p> <ul style="list-style-type: none"> Public Broadcasting Fukushima, Japan
<p>Challenge</p> <ul style="list-style-type: none"> Bandwidth and load balancing issues Poor performance of critical applications Avoid data lost and delays Improve link between branch offices and station in Fukushima
<p>Solution</p> <ul style="list-style-type: none"> Xtera AscenLink
<p>Benefit</p> <ul style="list-style-type: none"> Drastically improved bandwidth and transmission speed Elimination of downtime and data lost during file transfer Enhanced performance of critical applications Reduced management costs Critical data transfer secured and protected

Executive Summary

NHK Fukushima station needed to find a comprehensive solution that addresses the inherent vulnerabilities associated with the performance of critical HDTV video traffic. After an extensive evaluation of the leading WAN load balance products, AscenLink, from Xtera Communications, proved to be the answer. The AscenLink solution helped NHK Fukushima station to secure, optimize and deliver HDTV video traffic reliably and cost-effectively between its branches and stations.

Business Challenges

NHK station in Fukushima, Japan was experiencing bandwidth and load balancing problems in their IP network. The branch offices required connection speed of 25Mb/sec to transfer large files especially HDTV (MPEG2-TS) videos, but the round trip from local branch office to headquarters could only perform between 12-15Mb/sec. The limitation of bandwidth was causing severe data lost and unacceptable delays. This network strain has been one of the major issues that to needed to be solved for NHK Fukushima station.

Network Solution

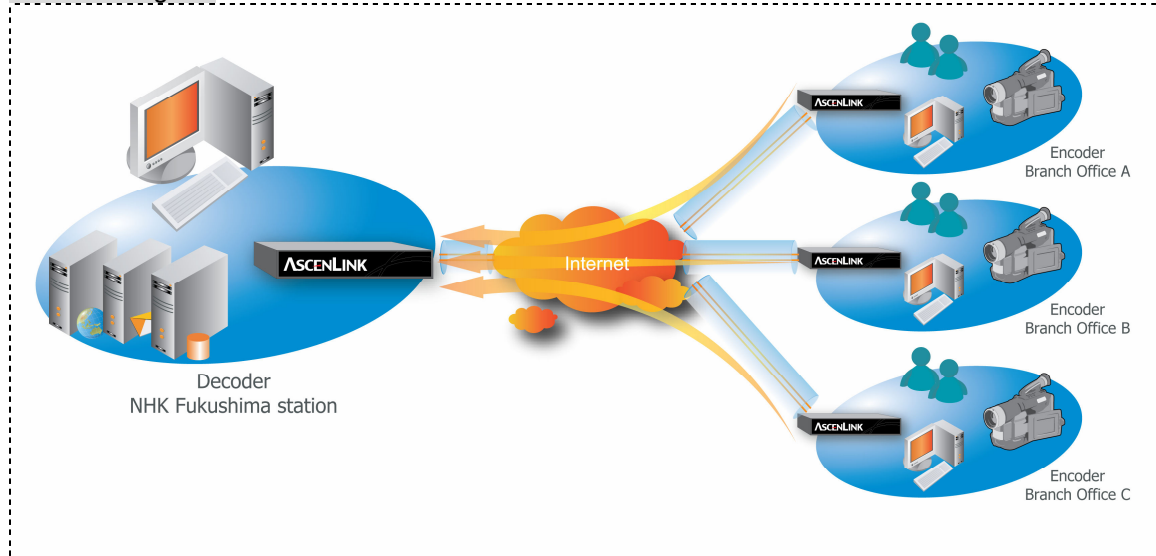
Always a leader in broadcasting innovations, NHK Fukushima station then turned to AscenLink due to its unique approach to load balancing and bandwidth optimization. Xtera's solution of using multiple WAN links was ideal for NHK Fukushima station to enhance bandwidth performance without additional investments.

NHK Fukushima station learned from industry insiders that Xtera AscenLink's patented Tunnel-Routing technology combined with WAN fault tolerance and load balancing techniques appear to be the ultimate solution to satisfy their needs. AscenLink offers Tunnel-Routing across multiple points to improve flexibility and provides encryption to secure data transit. Tunnel-routing improves transmission by breaking data down to packets for unmatched security, speed and stability.

NHK Fukushima station chose to deploy AscenLink after an extensive technical assessment of its optimization benefits. The decision was based on three factors:

- Significant cost savings over incremental hardware/software investments.
- The ability to deliver consistent bandwidth performance avoiding delays and data lost.
- Tunnel-routing guarantees the performance of critical data.

Network Diagram



Business Benefit

Once the Xtera AscenLink was implemented, the improvements were immediately apparent. The device managed to improve bandwidth to 25Mb/sec by aggregating several broadband lines that could only perform between 2-15Mb/sec.

Deploying AscenLink not only enhanced file transfers, but also significantly reduce expenses by allowing NHK Fukushima station to choose broadband lines over expensive leased lines. The AscenLink solution created a ripple effect of savings and efficiency for NHK station in Fukushima.



Xtera believes AscenLink has helped NHK Fukushima station move their applications faster, steadier and securer.

About Xtera Communications

Xtera Communications provides network solutions enabling communications companies to profitably deliver high-bandwidth tailored services at the lowest sustainable cost per bit. Xtera delivers value by combining sound business practice with compelling advantages in capacity, reach, simplicity and service.

To learn more about Xtera IP Networking, please visit: <http://www.xtera-ip.com>