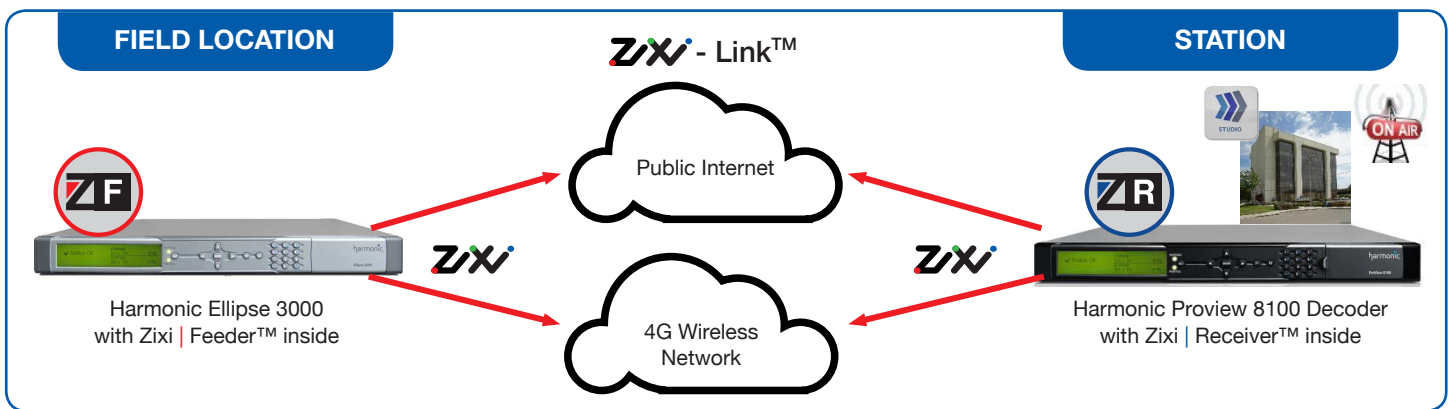


Solution Overview: Zixi and Harmonic

IP Broadcast Solutions

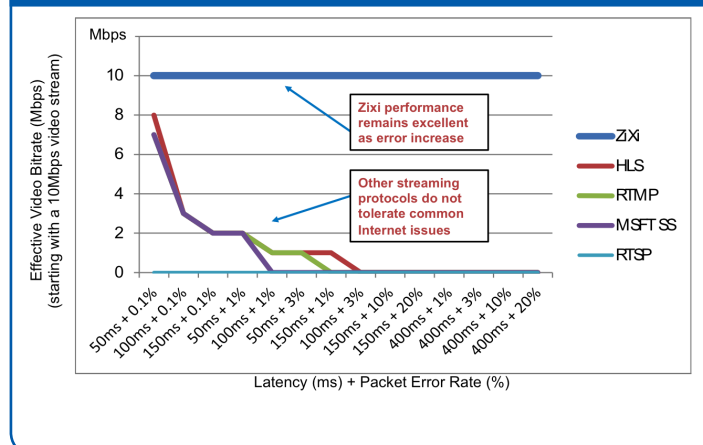
With Harmonic and Zixi, broadcasters, digital media companies, and content contributors now have a viable alternative to satellite and fiber. Leveraging the Zixi Transport, Harmonic Ellipse users can securely deliver broadcast-quality video over any distance leveraging public Internet connections. Zixi-Link™ enables a proven, point-to-point connection between Zixi-enabled Harmonic encoders and decoders. This enables a variety of workflows including Electronic news gathering (ENG), satellite back up, primary contribution, transmission to cable TV headends, live event production, and more.



Zixi-Link™

The point-to-point Zixi-Link solution is a one-way, secure, distance-agnostic connection between Zixi Edge Points™ (ZEP) – Zixi Feeder™ and Zixi Receiver™ – built inside Harmonic encoders and decoders. A Zixi-Link is simple to put in place and easy to configure. This combined solution can be leveraged for use cases such as satellite back up, disaster recovery, primary contribution for live events, and more. Leveraging the Zixi Transport Stream Protocol, Zixi-Link is an economical alternative for securely sending high-quality video over public Internet or private IP networks.

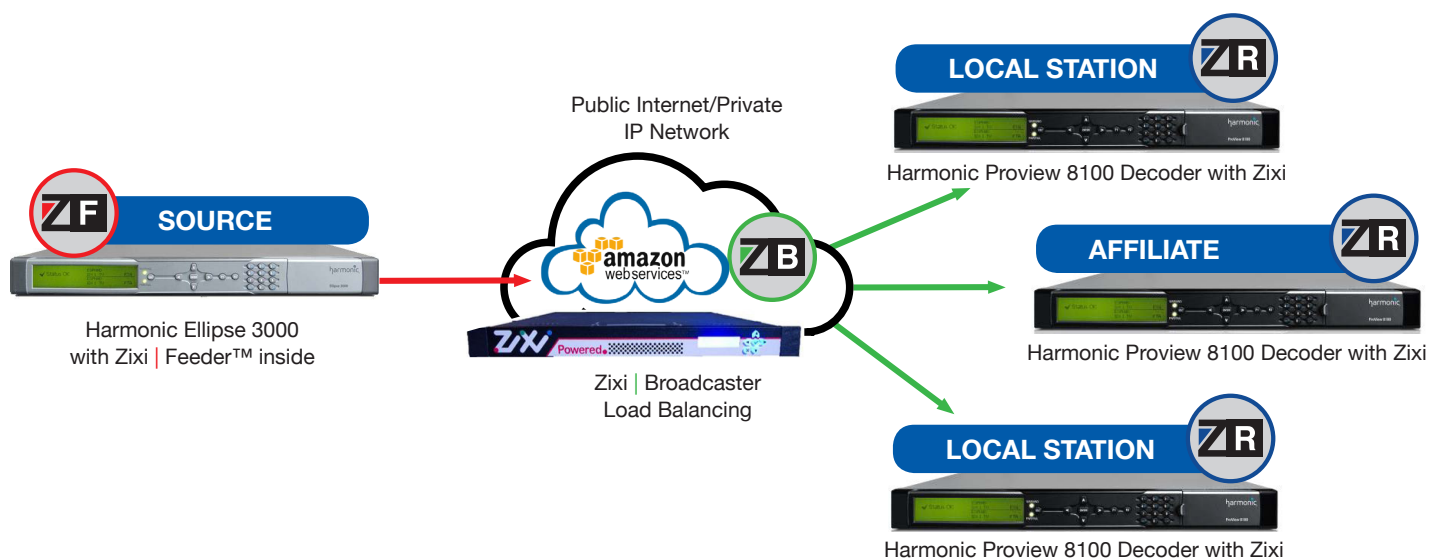
Zixi sustains highest quality even at 400ms latency and 20%packet errors



Solution Overview: Zixi and Harmonic

Broadcast Distribution with Harmonic and Zixi

A Zixi-enabled Harmonic encoder and decoder combined with the Zixi Broadcaster can enable broadcast distribution to multiple sites simultaneously through the cloud, replacing expensive satellite and fiber links with proven Zixi transport stream technology. A Zixi enabled Harmonic platform can augment or replace segments of a broadcaster's transmission infrastructure while lowering cost. Whether transmitting video between parent and affiliate networks, transferring to cable headends, or sending channels to local stations, a Zixi-enabled Harmonic platform can enable distribution at scale with load balancing capabilities for management of network capacity. Combined, Harmonic and Zixi offer an efficient, proven, end-to-end content delivery platform that is easy to provision and simple to operate.



Harmonic/Zixi Broadcast Solution

Benefits Include:

- Broadcast-quality video delivered over any distance
- Low cost, reliable video transmission over public Internet
- Simple to integrate into existing workflows and infrastructure
- Single box solution (Harmonic with Zixi inside)
- Low latency
- Proven Zixi technology in use by hundreds of media organizations
- Small form factor ideal for news gathering vehicles
- Near 100% bandwidth utilization for greater efficiency

Products



Harmonic Ellipse 3000 with Zixi Feeder™ inside



Harmonic Proview 8100 Decoder with Zixi Receiver™ inside

Zixi Feeder®



Zixi Broadcaster®



Zixi Receiver®

