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μ MPX

MPX over IP

presented by:

Frank Foti

MPX over IP: μ MPX

- Broadcast infrastructure is all about connectivity
- Advent of AoIP (Livewire), now AES67 standard
- MPX transom via linear or data reduced method

MPX over IP: μ MPX

- Natural progression from MPX over AES
- Direct (Point-to-Point) or Distributed Point to Multipoint
- Linear implementation would consume extreme amounts of bandwidth: >3MB/s
- Very efficient data payload
- μ MPX slashes the amount of bandwidth needed for distribution by nearly 84% to a remarkable 320kbps!

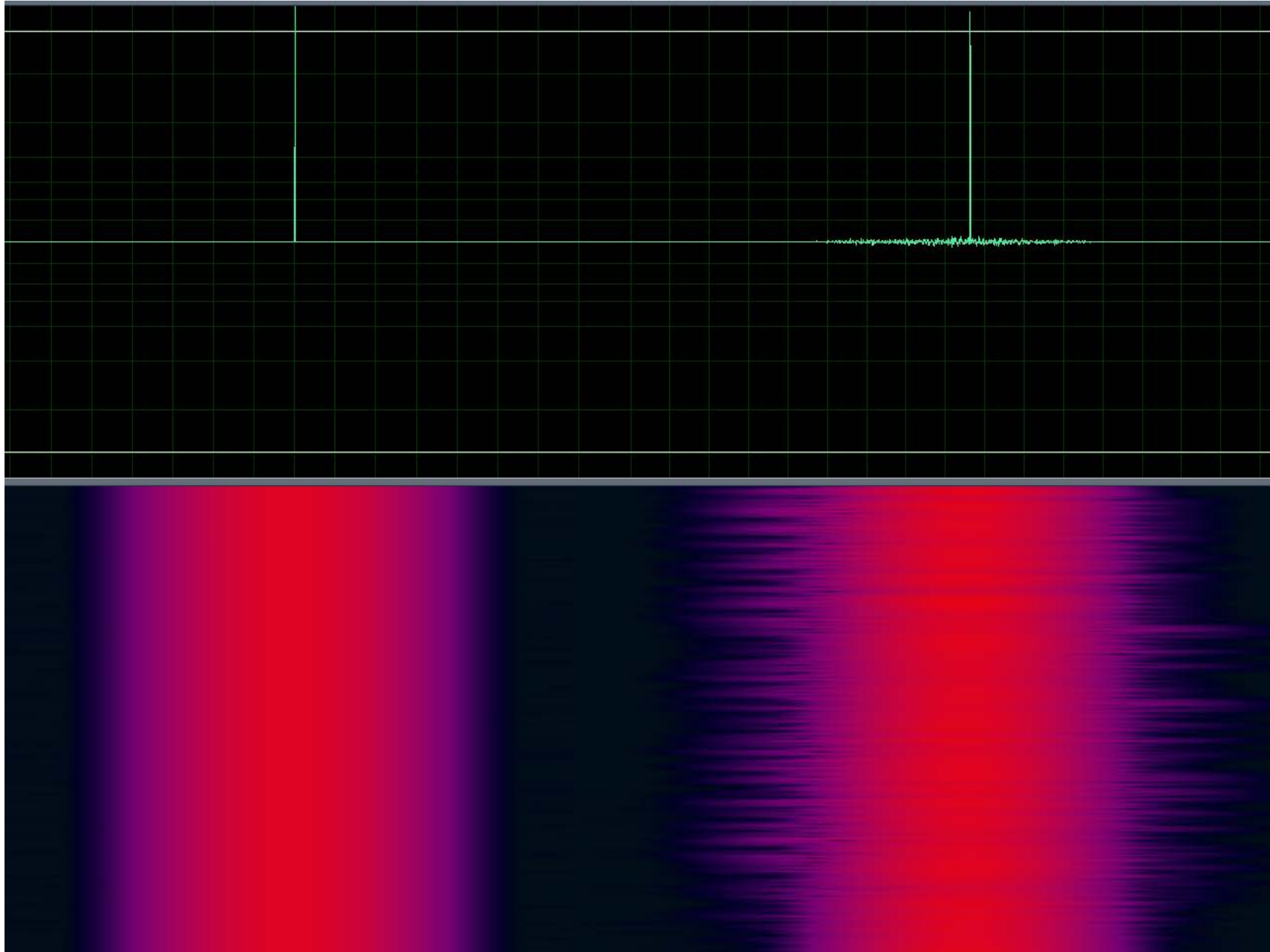
MPX over IP: μ MPX

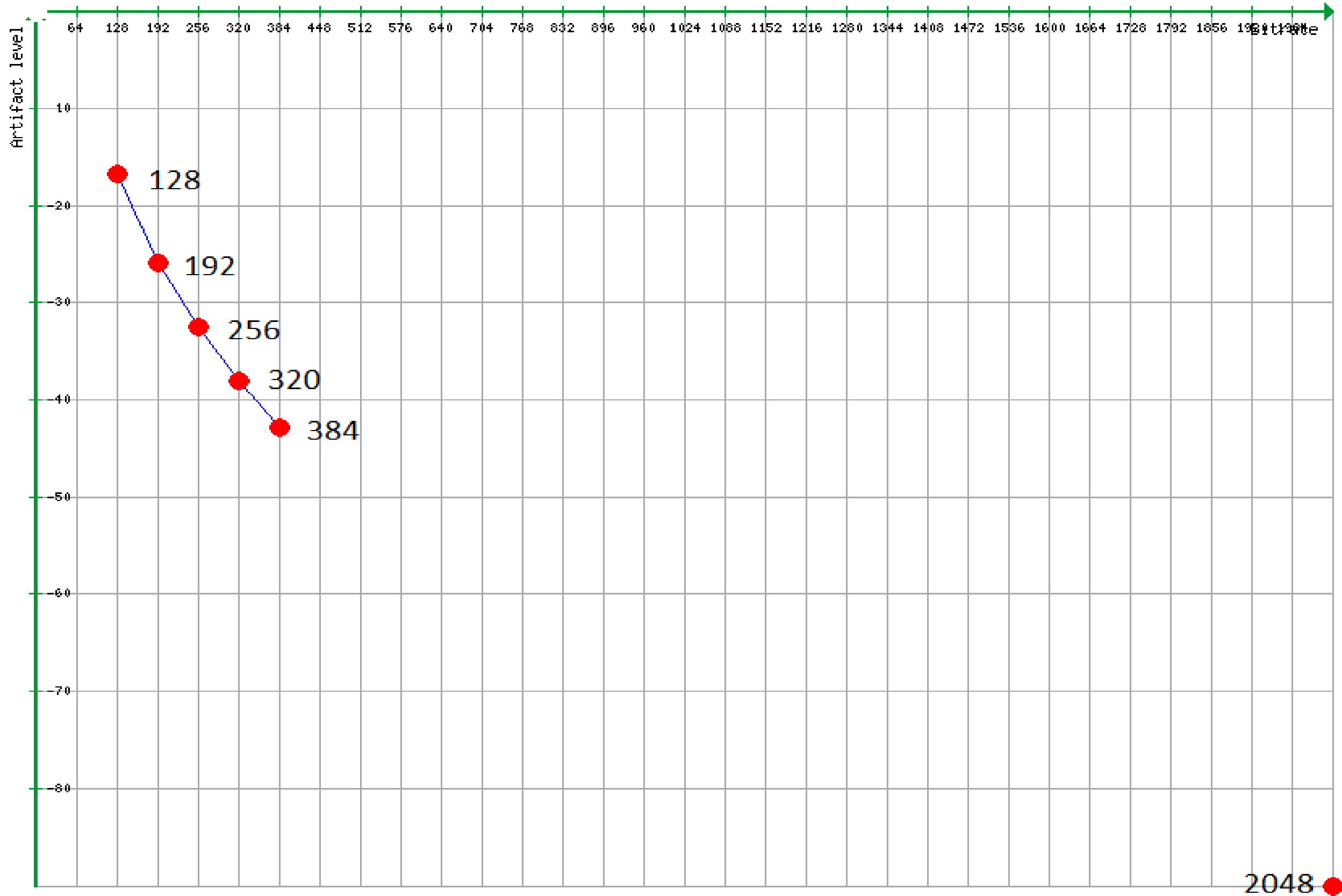
- Compatible with existing digital STL systems
- Lower cost data links
- Can be routed directly into the transmitter
- Collaboration with Nautel (at this time)

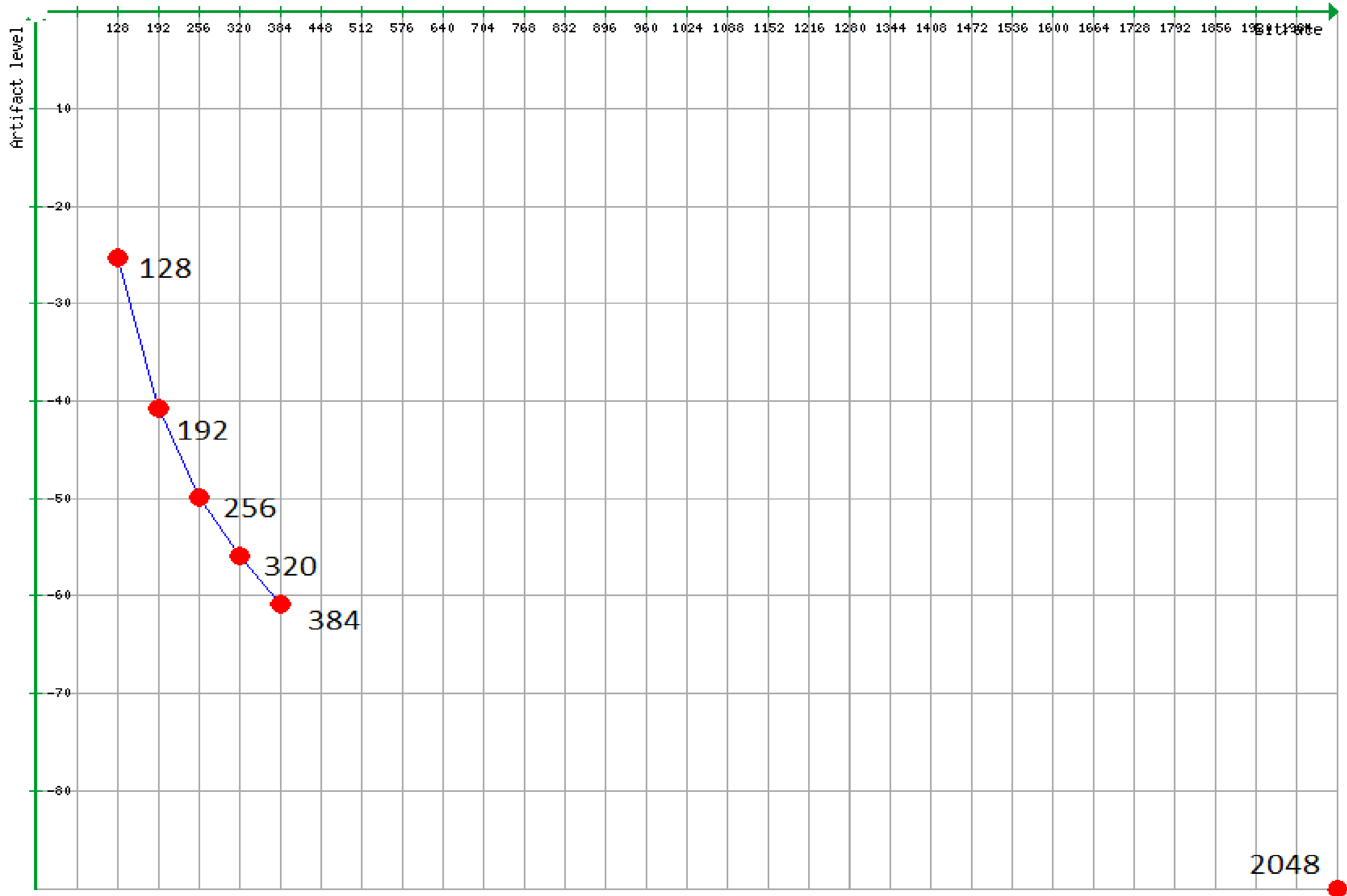
MPX over IP: μ MPX

New Codec Design

- High Definition coding yields transparent performance
- New Predictive analysis method
- Noise masking codec



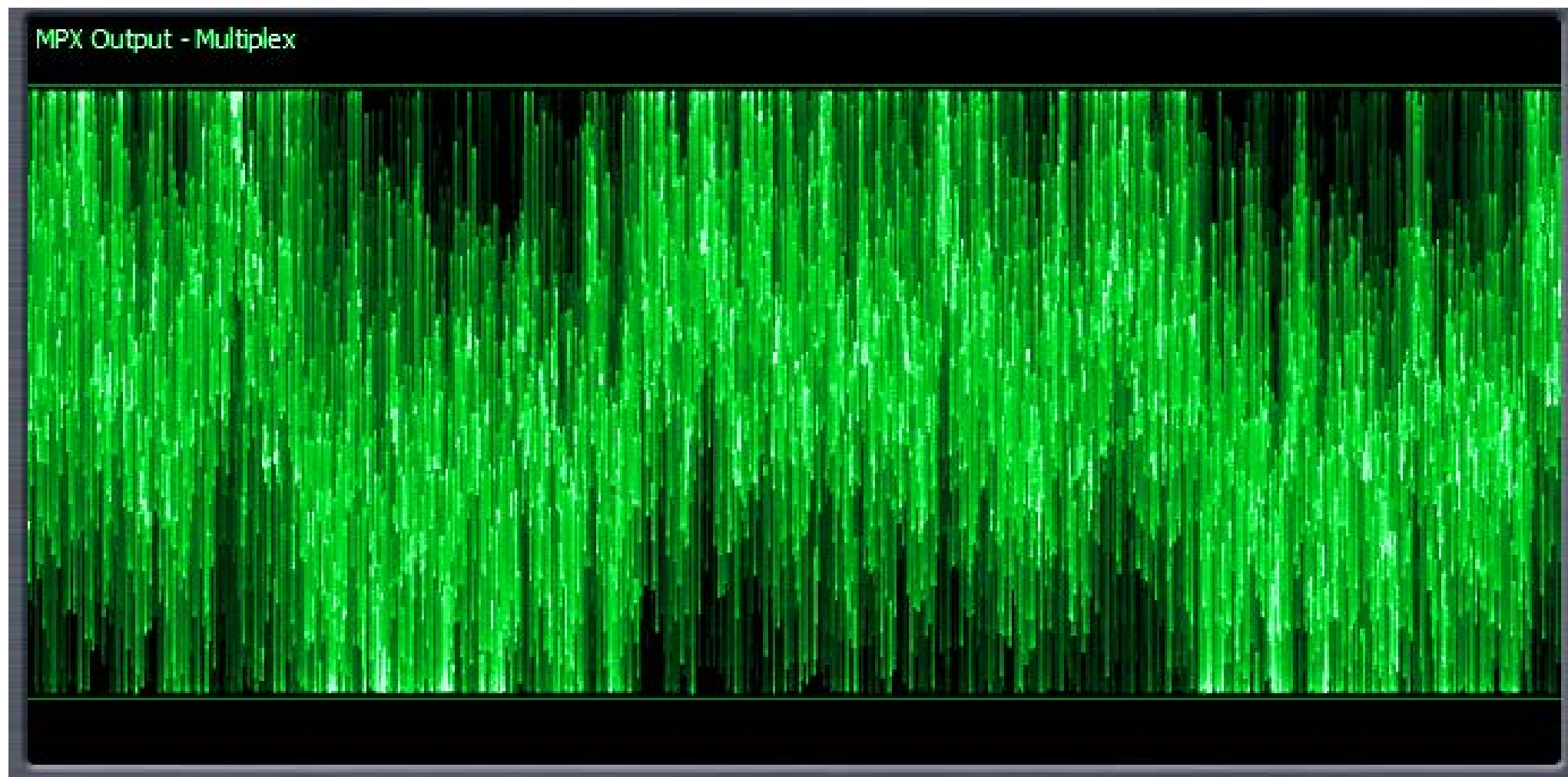


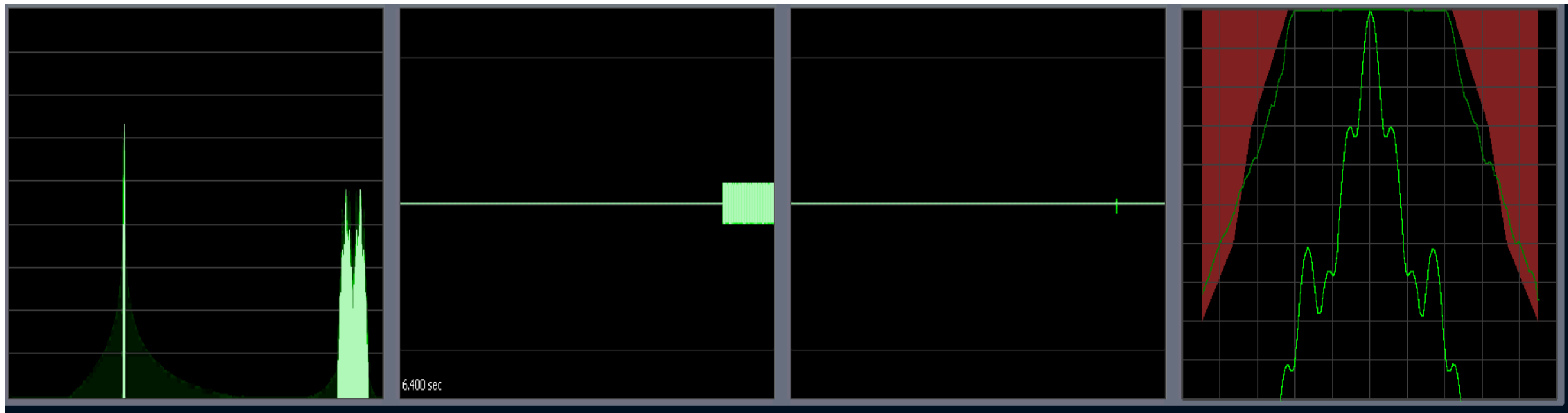


MPX over IP: μ MPX

- ***Zero overshoots***
- ***No aural artifacts***
- Low delay

MPX over IP: μ MPX





MPX spectrum

MPX waveform
100% modulation

Demodulated left channel
Upto 140% modulation

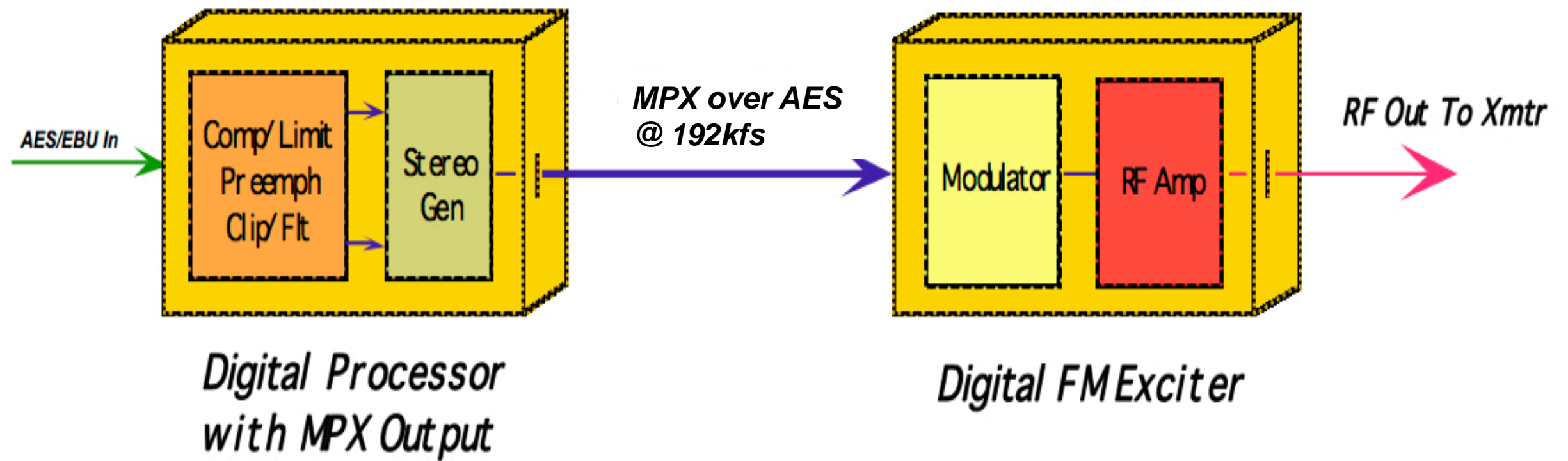
RF spectrum

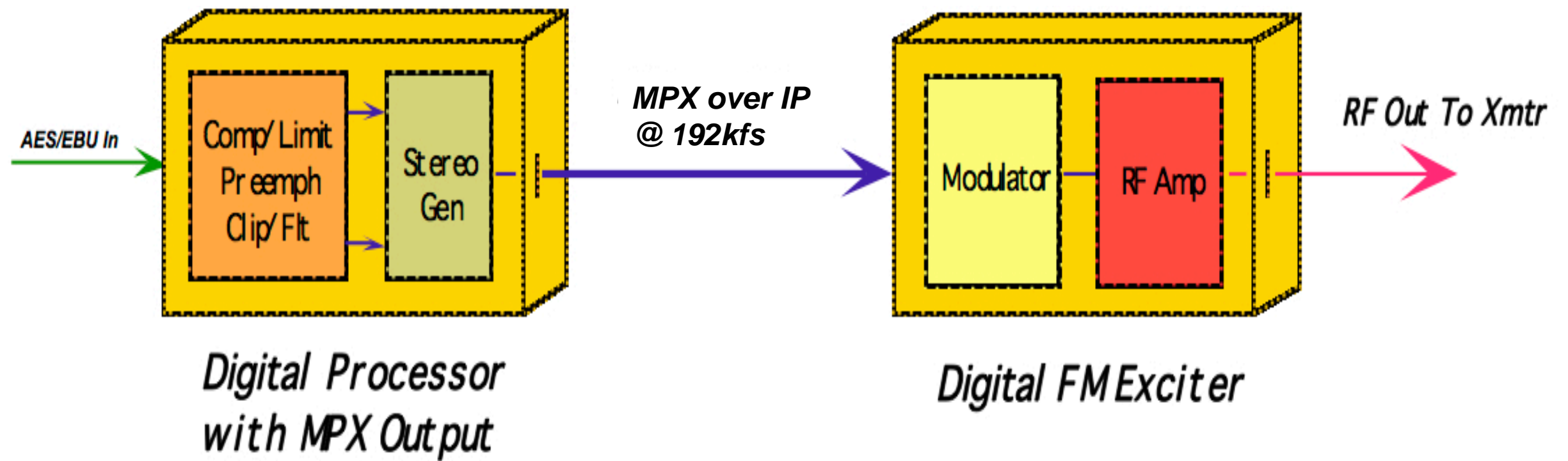
MPX over IP: μ MPX

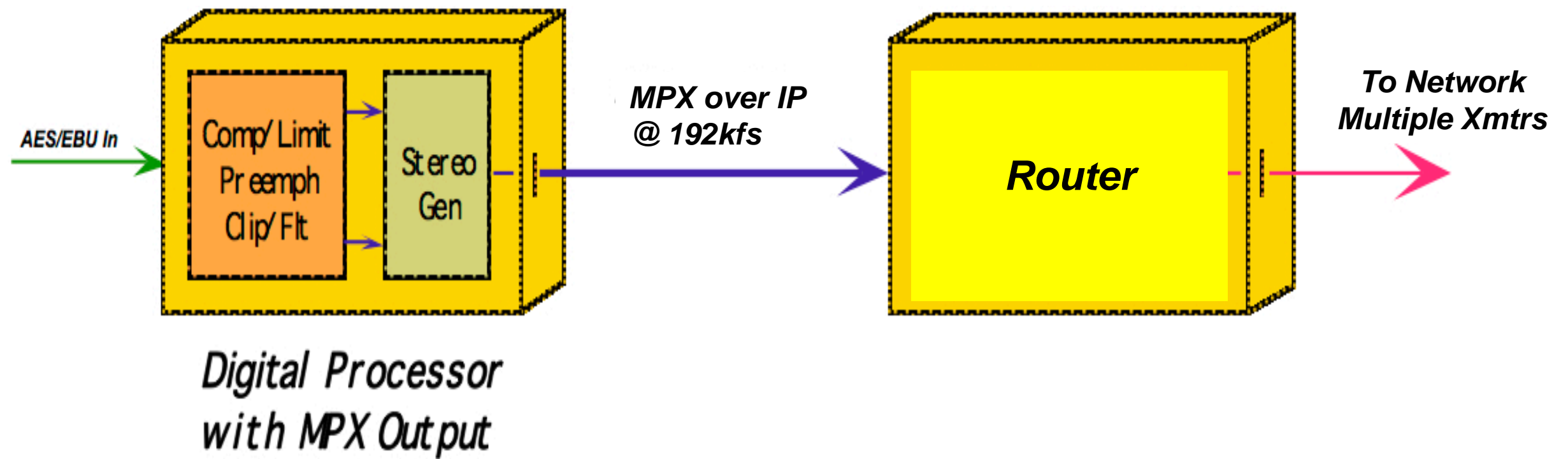
- Supports DSBSC/SSBSC FM-Stereo
- Supports RDS
- Supports Pilot embedding (It really is 1 louder!)

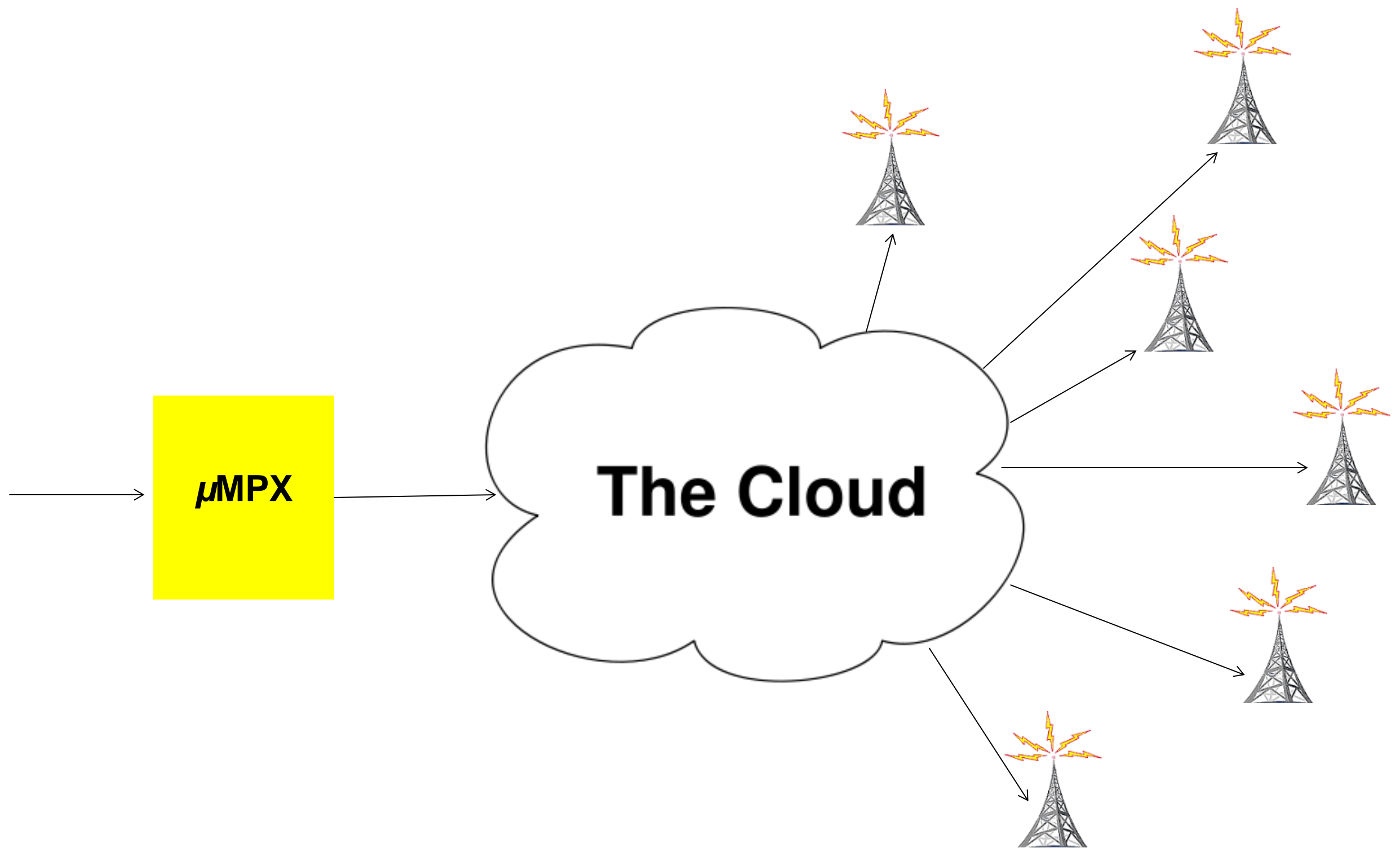
MPX over IP: μ MPX

- Still some work to do
- Synchronization for boosters/repeaters
- Time stamping....









Crystal Ball Stuff

- Innovation never sleeps
- The Cloud...
- Advancing the art of processing/transmission
- Processing, watermarks, and intelligence!!
- Broadcast META data?

Thank You!

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