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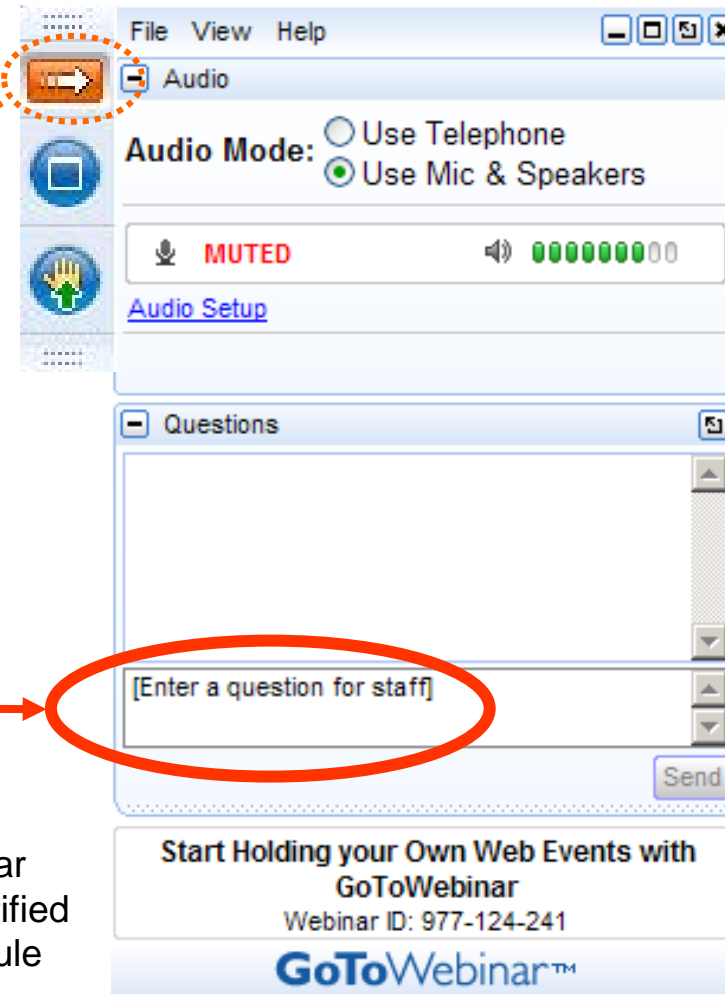
Episode #43

MPX Over AES and IP Audio

Your questions please?

(if you don't see the control panel, click on the orange arrow icon to expand it)

Please enter your questions in the text box of the webinar control panel (remember to press send)



The screenshot shows a GoToWebinar control panel window. At the top, there is a menu bar with 'File', 'View', and 'Help'. Below the menu bar, there are several icons: a blue square, a blue square with a white square inside, a green hand icon, and a blue square with a white square inside. An orange arrow icon is circled in red, and a dotted orange line points from it to the 'Audio' section. The 'Audio' section has a title bar 'Audio' and a menu icon. Below the title bar, there are two radio buttons: 'Use Telephone' (unselected) and 'Use Mic & Speakers' (selected). Below the radio buttons, there is a 'MUTED' indicator with a microphone icon and a volume level indicator with a speaker icon and a progress bar. Below the volume indicator, there is a link 'Audio Setup'. Below the 'Audio' section, there is a 'Questions' section with a title bar 'Questions' and a menu icon. Below the title bar, there is a large text box with the placeholder text '[Enter a question for staff]'. The text box is circled in red, and a solid red arrow points from the text in the previous block to it. Below the text box, there is a 'Send' button. At the bottom of the window, there is a promotional banner for GoToWebinar with the text 'Start Holding your Own Web Events with GoToWebinar' and 'Webinar ID: 977-124-241'.



Remember: The completion of a Nautel webinar qualifies for ½ SBE re-certification credit, identified under Category I of the Re-certification Schedule for SBE Certifications.

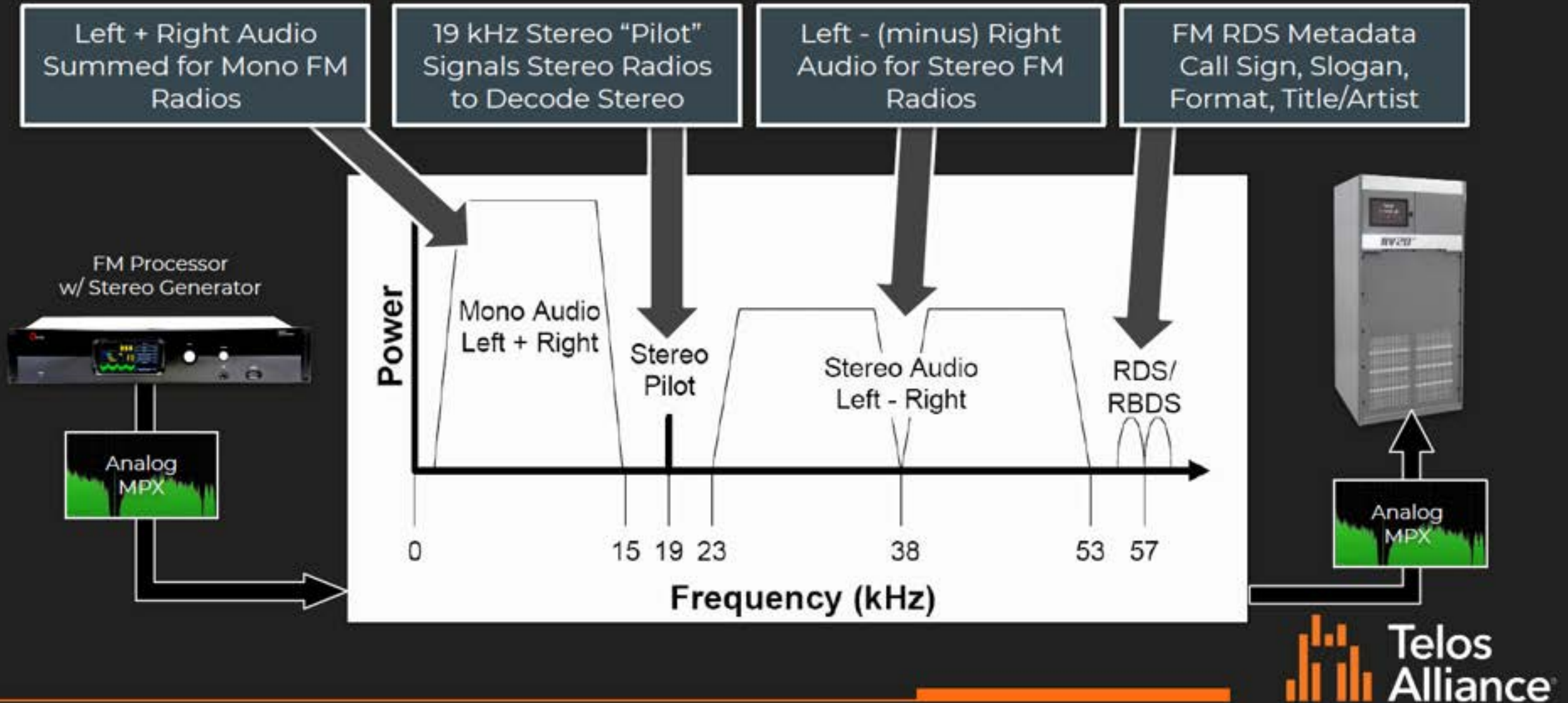


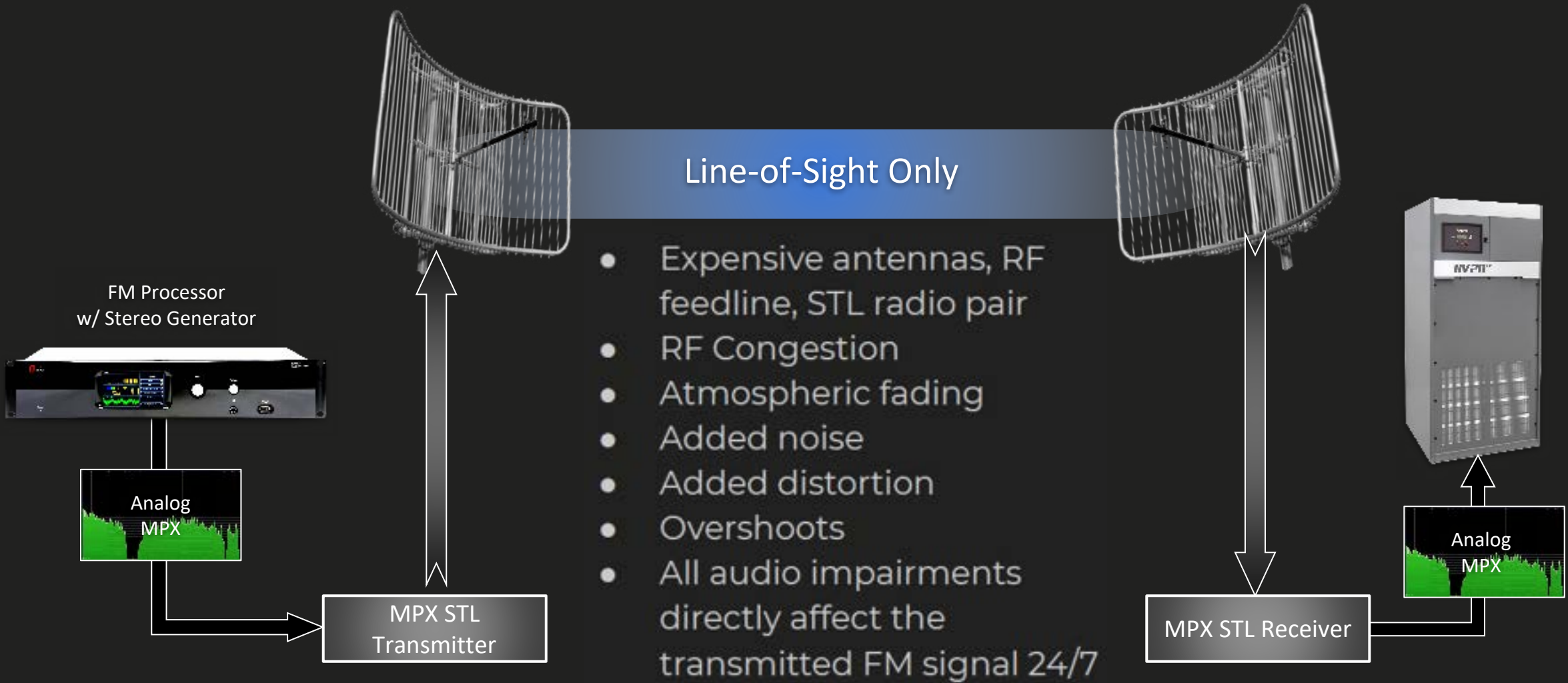
Ideas for things to discuss

- **How did this happen?**
 - A story of napkins and lasagna.
- **Live Demo**
 - Let's see it in action!
- **Benefits**
 - MPX over AES, MPX over IP, AES67, Dante, Livewire, etc., what are the differences, the pros and cons?
- **Other thoughts**
 - What are the things you do differently as a result of this?
 - Thoughts on the future?



The FM Composite "MPX" Signal



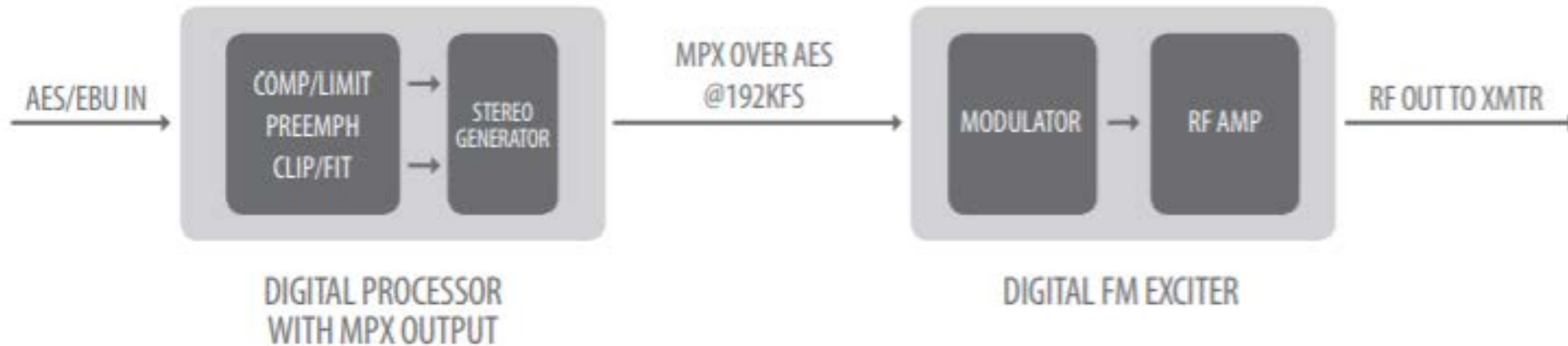


ENTER OMNIA DIRECT

The desired goal for the digital interconnect between audio processor and exciter, has been to emulate the older analog method, where the audio processor generates the FM-Stereo MPX signal, and then connect to a wide spectral input on the exciter... a digital BNC-to-BNC connection so to speak.

Omnia Direct generates the FM-Stereo MPX signal inside the

audio processor, and scales the sampling rate to 192kHz. Through recent firmware developments, the AES/EBU transom can accommodate a sampling rate at 192kHz, making it possible to transport the MPX signal directly from the audio processor to the input of the exciter... MPX over AES. Now it is possible to create a digital version of the older analog method. Below is an illustration of this concept.



https://www.nautel.com/content/user_files/2018/07/Nautel-Omnia-Direct-Spec-Sheet.pdf

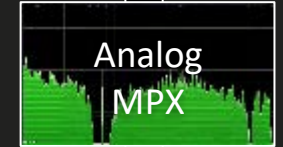
Any FM Processor
with Stereo Generator



Omnia MPX
Node (Encoder)

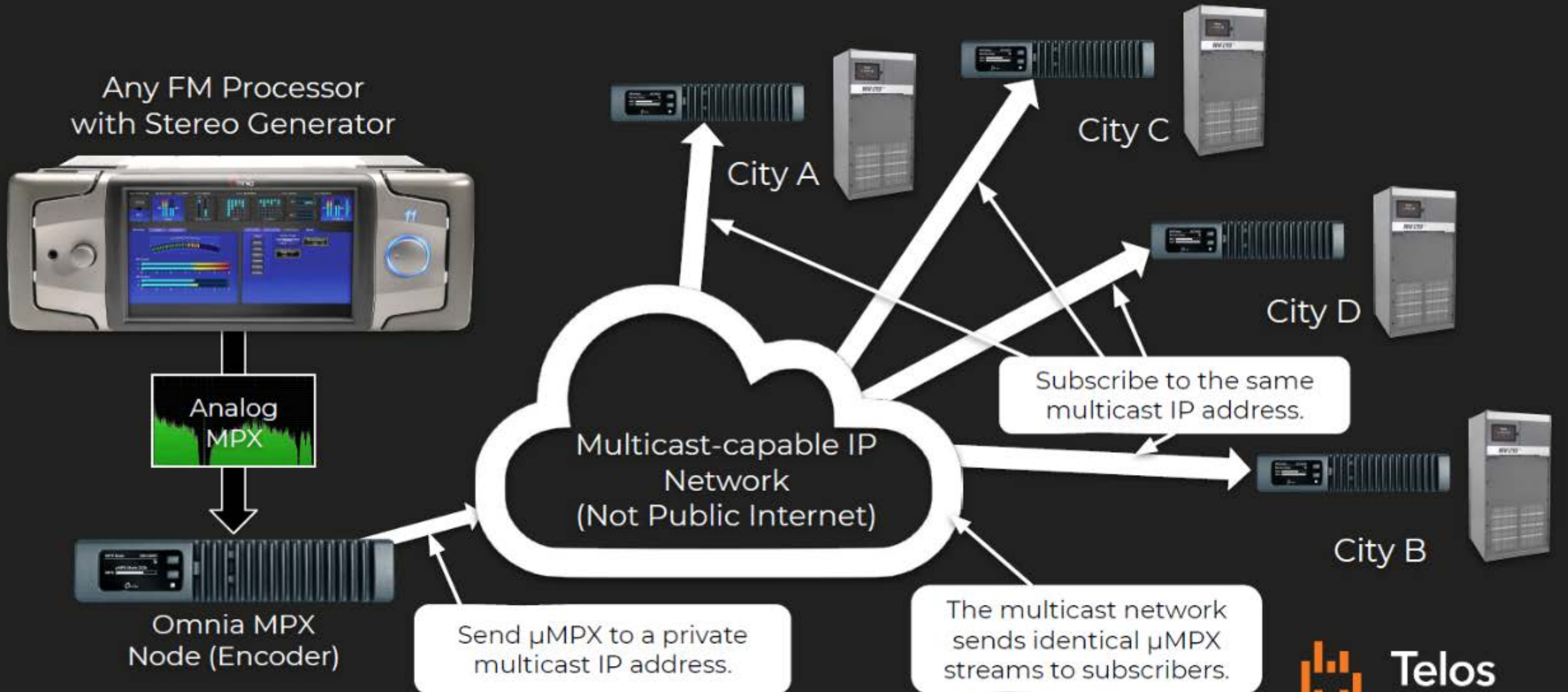


FM Transmitter



Omnia MPX
Node (Decoder)

Omnia MPX Node - Multicast IP Distribution





FM Transmitter



IP Decode to MPX



Online Information



Webinars

<https://www.nautel.com/resources/webinars/>



Nautel Waves Newsletter

<https://www.nautel.com/newsletters/>



YouTube

<http://www.youtube.com/user/NautelLtd>



Online Info, such as the Broadcasters' Desktop Resource

<https://www.thebdr.net/>



THANK YOU!

