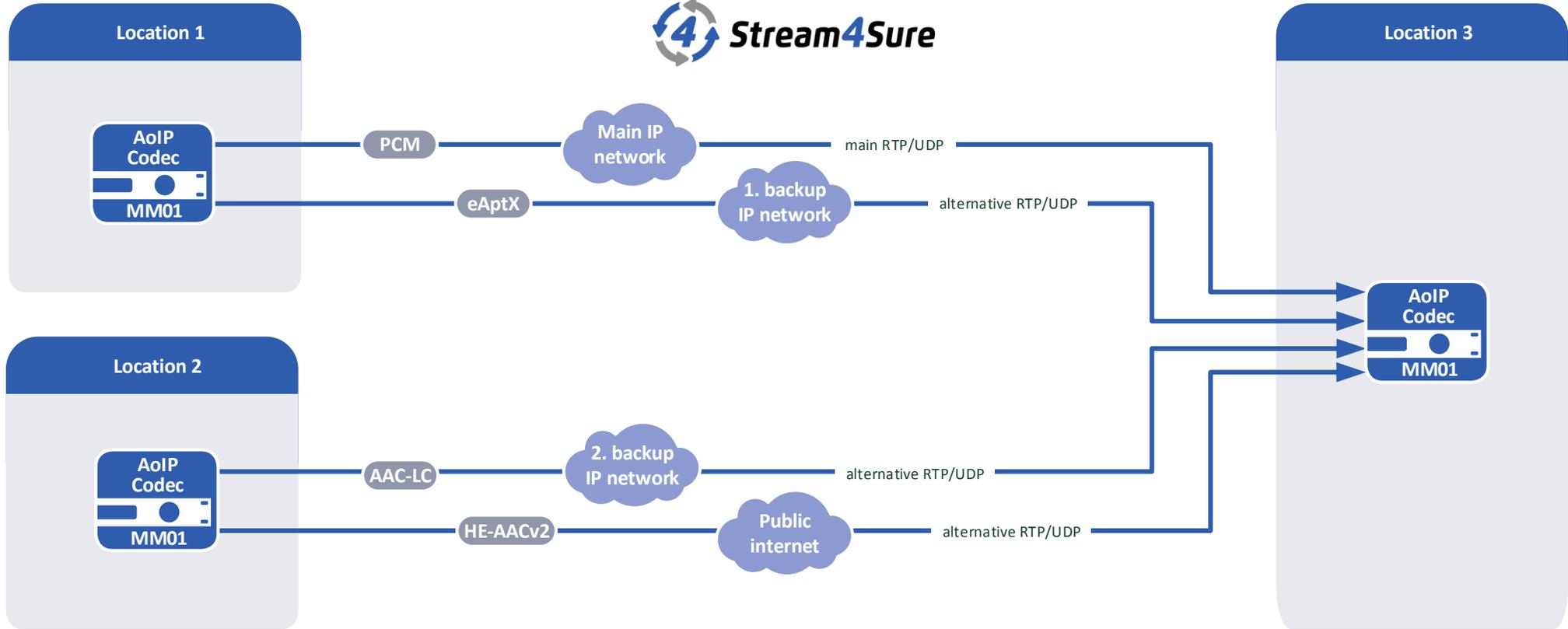


Audio over IP – Stream4Sure



Description

Precondition: Works only with AES/EBU in at the encoder. No analog in is at the encoder possible. All AES/EBU in at an encoder must use the same reference clock source. If two encoders are used, the encoder and decoder must be connected to 1PPS. Furthermore, Stream4Sure is combinable with SFN, Dual Streaming and FEC.

Using one encoder: The audio samples are marked with timestamps matched against an internal reference clock at the encoder. Additionally to the audio stream a second (low-bandwidth) stream that sends the timestamp information matching against the encoded audio samples is send to the decoder (for each audio stream). The decoder checks if there are lost packets for the main stream and repairs the lost samples from the backup streams. The repair is done by inserting the backup samples for the main stream with a short (1ms) crossfade.

Using two encoders: The audio samples are marked with timestamps matched against the 1PPS signal at the encoder. Additionally to the audio stream a second (low-bandwidth) stream that sends the timestamp information is send to the decoder. The decoder checks if there are lost packets for the main stream and repairs the lost samples from the backup streams. The repair is done by inserting the backup samples for the main stream with a short (1ms) crossfade. The repair is seamless even for a two encoder setup due to the sync of all encoders/decoders to 1PPS.

