

AMWA NMOS IS-08

Individual Audio Channel/Track Manipulation
in NMOS Systems with
Multi-Channel Essence Streams



What Problem does IS-08 Solve?

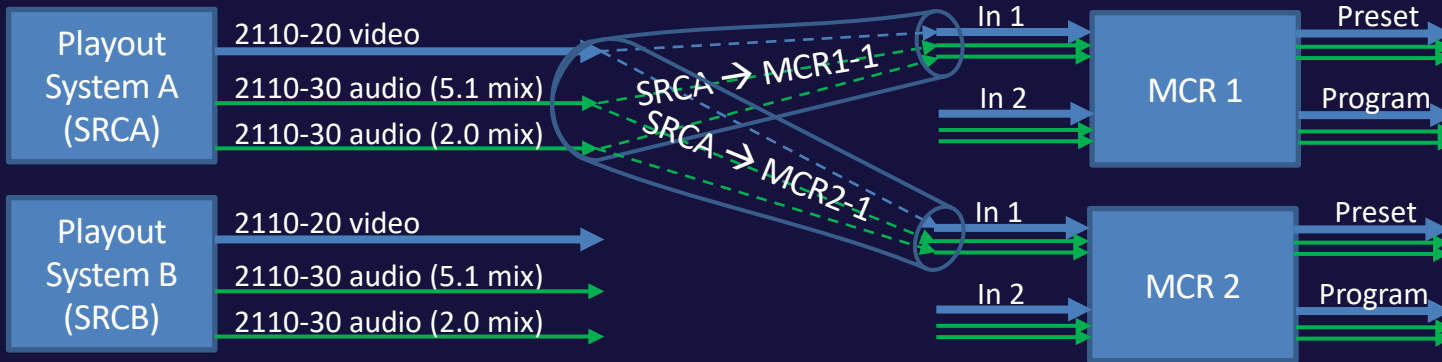
- IS-04 and IS-05 treat audio streams as monolithic essences – mixes or tracks to be kept together in the network, and switched together to the receiver
- Sometimes, operationally, there is a need to route the individual tracks more specifically – at the “mono” level
- IS-08 provides an open/public API for controllers to manipulate the individual tracks on receivers and senders, while retaining the general efficiency of keeping related tracks organized together into streams

Why not just make every mono channel into a separate multicast audio stream?

- Making each audio track its own stream is possible, except...
 - It creates a more complicated system overall because of the very large number of streams
 - Some receiving devices don't have a lot of separate audio stream receivers, so it limits their use
 - Overall signal switching time can suffer because of the number of separate stream "joins" in every operation

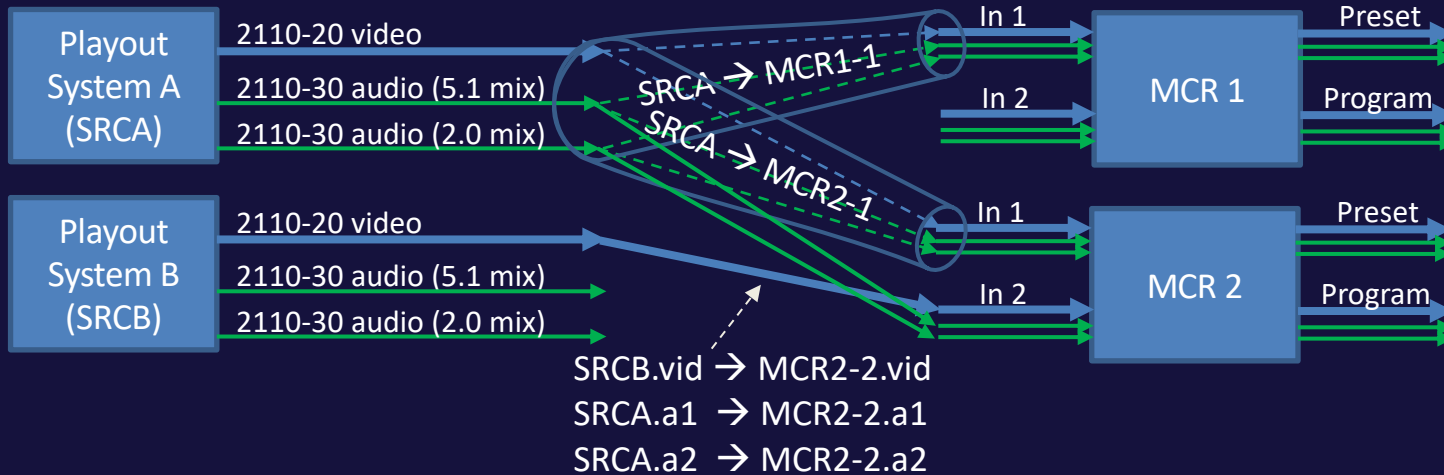
Audio Stream Routing

- What is Stream Routing? Its what 2110-30 + IS-05 does by default
 - Routes logical groupings of content easily



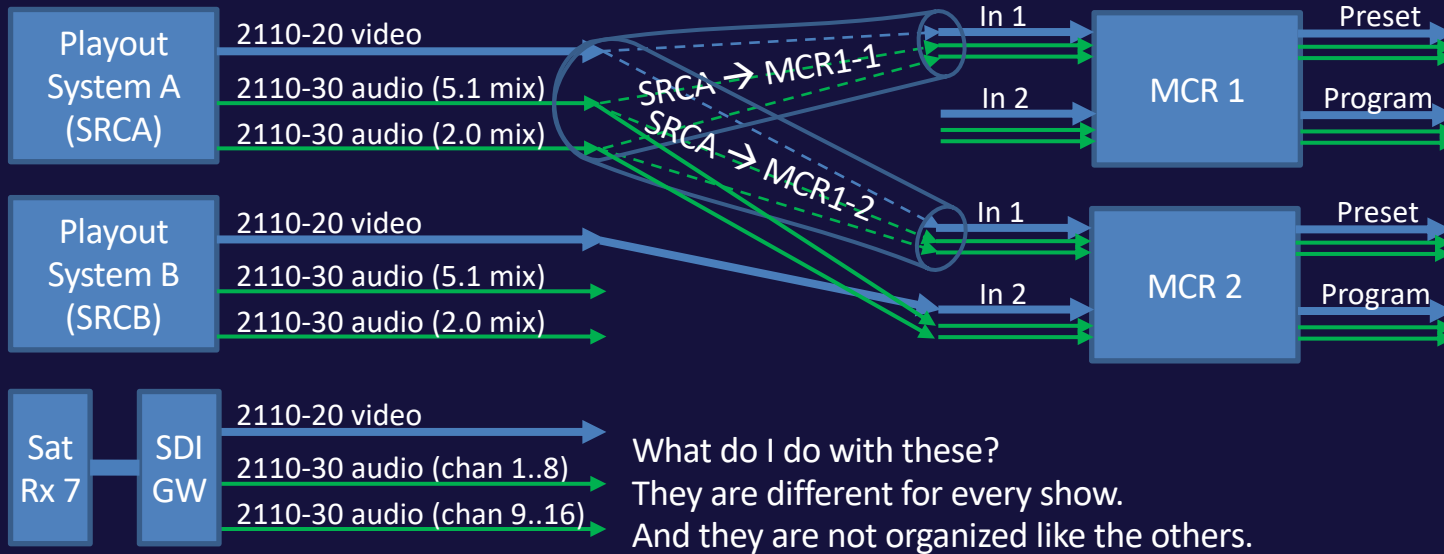
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- What is Stream Routing? Its what 2110-30 + IS-05 does by default
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 - Break-away routing at the stream level



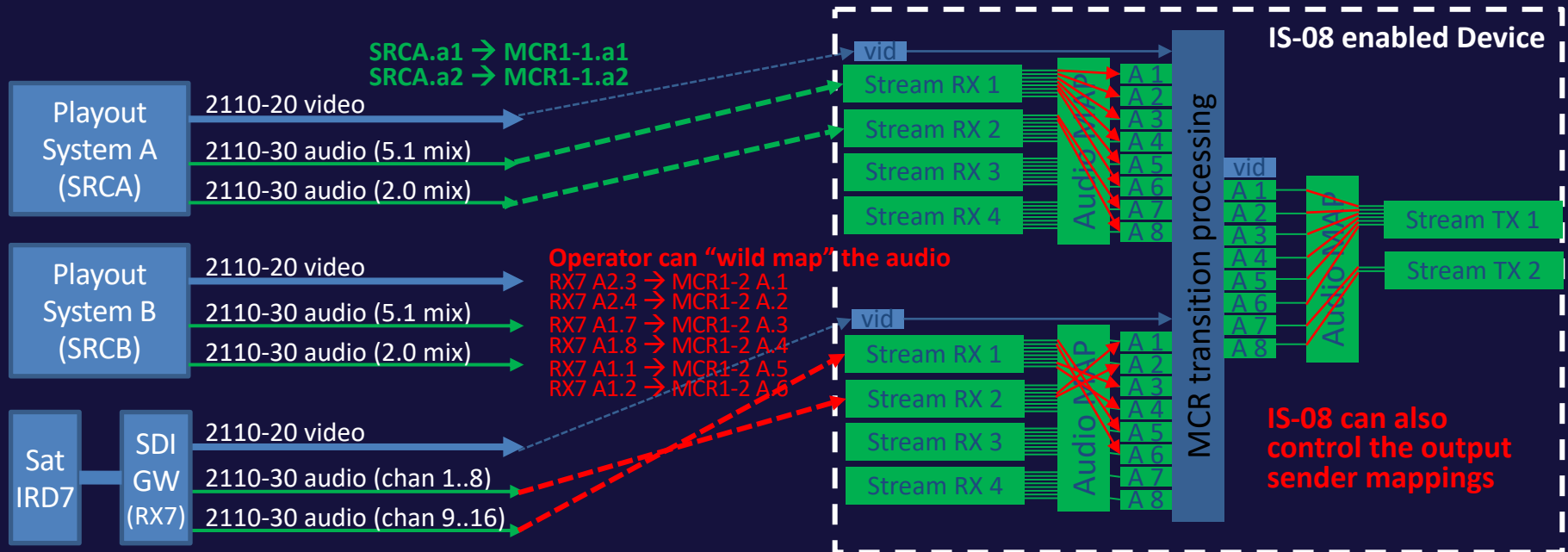
Audio Stream Routing

- What is Stream Routing? Its what 2110-30 + IS-05 does by default
 - Routes logical groupings of content easily
 - Break-away routing at the stream level
 - But how do you integrate signals that are not consistent?



Audio Stream Routing + Track Routing

- System can treat the internal audio channels as the routing destinations
 - Controller manages the device's stream receivers using **AMWA IS-05**
 - Controller manages the device's audio mappings using **AMWA IS-08**
 - User can have *total control in a logical way* through control system using both



What is the Status of AMWA IS-08?

- IS-08 has been tested at a workshop, and a last-call for comments was issued
- The comments in the last-call were addressed
- The Specification has been approved by the AMWA Board and is a published AMWA Interface Specification, IS-08

ALL AMWA Specifications are available for FREE at <https://amwa-tv.github.io/nmos/>

IS-08 Demo Participants



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A Special Thanks to



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