

Audio over IP - New Stream Defaults

The **New Stream Defaults** page defines the initial settings used when new AoIP receiver or sender streams are created.

Changing these settings affects newly created streams only. Existing receivers and senders are not modified.

Select the protocol under **Protocol Selection** to configure the corresponding defaults. The available parameters may vary depending on the selected protocol.

Protocol

Parameter	Values	Default	Description
Protocol Selection	Available AoIP protocols	-	Selects the AoIP protocol for which the new-stream defaults are being configured. The available Receiver and Sender parameters may change with the selected protocol.

SMPTE ST2110 and AES67

Interfaces

▼

AoIP

●

Setup

●

New Stream Defaults

●

Receivers (RX)

+ ADD ▼

●

Senders (TX)

+ ADD ▼

▼

NDI

●

Setup

●

New Stream Defaults

●

Receivers (RX)

●

Senders (TX)

▼

tieLight / MADI

●

Setup

●

SFP 1: MADI

●

SFP 2: MADI

●

AES3

●

Analog

●

Headphones

Protocol

Protocol Selection

ST 2110 ▼

Receiver

Enable

☐

Name Prefix

Name Suffix

Name Preview

Receiver 01 AIXpressor-00103

Channel Count

2

Seamless Protection Switching (ST 2022-7)

☐

Leg 1

Start Destination IP Address Prefix

239.69.

Leg 2

Start Destination IP Address Prefix

239.70.

Sender

Enable

☐

Name Prefix

Name Suffix

Name Preview

Stream 01 AIXpressor-00103

Channel Count

2

Packet Time

1 (-A) ms ▼

Seamless Protection Switching (ST 2022-7)

☐

Leg 1

Start Destination IP Address Prefix

239.69.

Leg 2

Start Destination IP Address Prefix

239.70.

Receiver Defaults

These parameters define the initial configuration of newly created AoIP receivers.

Parameter	Values	Default	Description
Enable	On / Off	-	Defines whether newly created receivers are enabled by default.
Name Prefix	Text	-	Defines an optional prefix added to the name of newly created receivers.
Name Suffix	Text	-	Defines an optional suffix added to the name of newly created receivers.
Name Preview	Status	-	Shows a preview of the resulting receiver name.

Parameter	Values	Default	Description
Channel Count	Supported channel counts	-	Defines the default number of audio channels for a newly created receiver.
Seamless Protection Switching (ST 2022-7)	On / Off	-	Enables SMPTE ST 2022-7 seamless protection switching for newly created receivers. When enabled, redundant stream legs can be received over separate network paths.
Start Destination IP Address Prefix - Leg 1	Multicast IP prefix	-	Defines the starting multicast destination address prefix used for automatic address assignment. When multiple streams are created, the destination addresses are incremented automatically.
Start Destination IP Address Prefix - Leg 2	Multicast IP prefix	-	Defines the starting multicast destination address prefix used for the redundant second stream leg. When multiple streams are created, the destination addresses are incremented automatically.

Sender Defaults

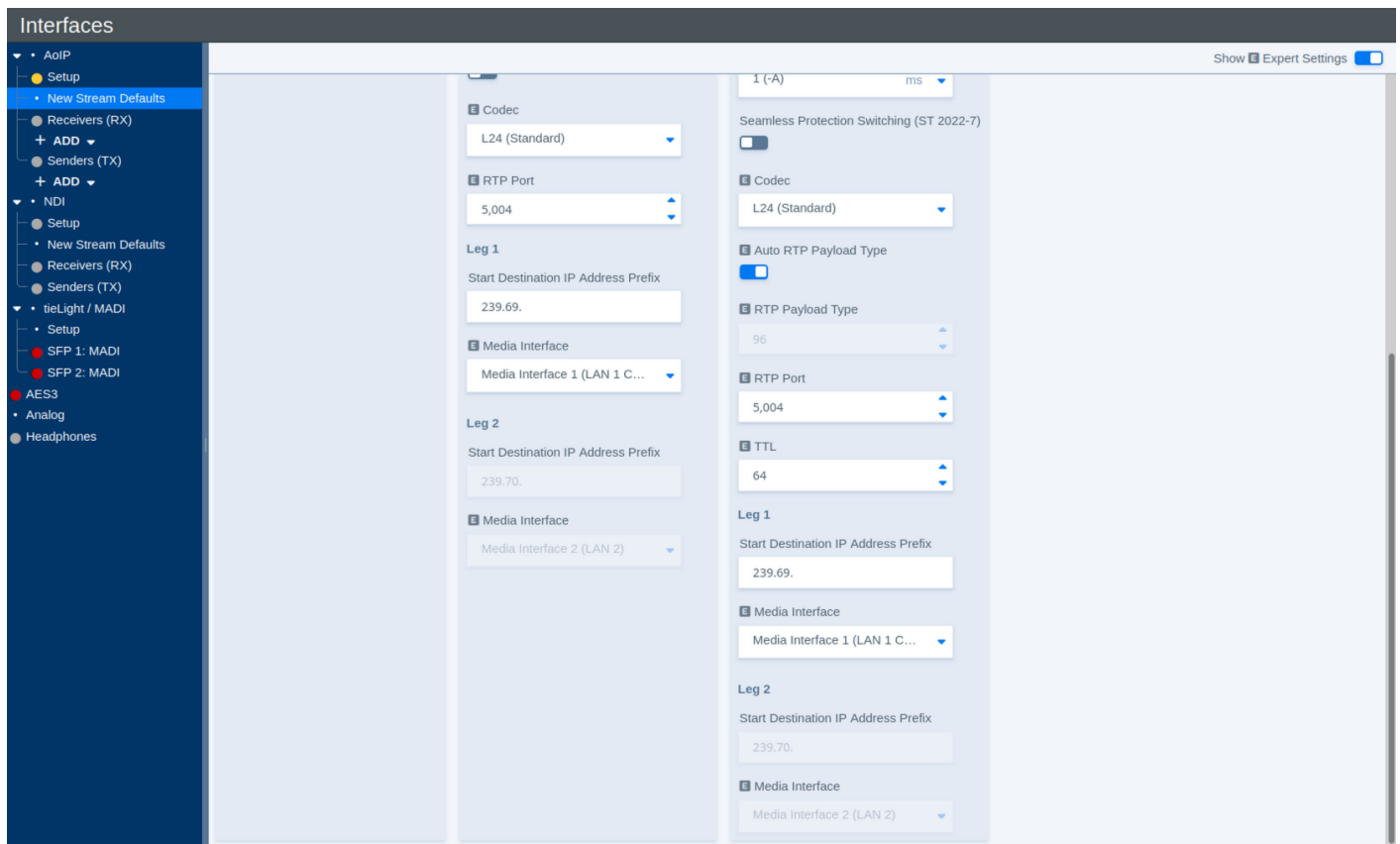
These parameters define the initial configuration of newly created AoIP senders.

Parameter	Values	Default	Description
Enable	On / Off	-	Defines whether newly created senders are enabled by default.
Name Prefix	Text	-	Defines an optional prefix added to the name of newly created senders.
Name Suffix	Text	-	Defines an optional suffix added to the name of newly created senders.
Name Preview	Status	-	Shows a preview of the resulting sender name.

Parameter	Values	Default	Description
Channel Count	Supported channel counts	-	Defines the default number of audio channels for a newly created sender.
Packet Time	Supported packet times	-	Defines the packet time used for newly created sender streams. Shorter packet times reduce transport latency but increase the packet rate and processing load.
Seamless Protection Switching (ST 2022-7)	On / Off	-	Enables SMPTE ST 2022-7 seamless protection switching for newly created senders. When enabled, two equivalent stream legs can be transmitted over separate network paths.
Start Destination IP Address Prefix – Leg 1	Multicast IP prefix	-	Defines the starting multicast destination address prefix used for automatic address assignment. When multiple streams are created, the destination addresses are incremented automatically.
Start Destination IP Address Prefix – Leg 2	Multicast IP prefix	-	Defines the starting multicast destination address prefix used for the redundant second stream leg. When multiple streams are created, the destination addresses are incremented automatically.

Additional Settings

Additional parameters are available when **Show Expert Settings** is enabled.



The Expert View adds further Receiver and Sender defaults.

Receiver – Additional Settings

Parameter	Values	Default	Description
Codec	Available codecs	-	Defines the default audio codec or sample format used for newly created receivers.
RTP Port	Port number	-	Defines the RTP port used for newly created receiver streams.
Media Interface – Leg 1	Available Media Interfaces	-	Selects the Media Interface used for the first stream leg.
Media Interface – Leg 2	Available Media Interfaces	-	Selects the Media Interface used for the redundant second stream leg when ST 2022-7 is enabled.

Sender – Additional Settings

Parameter	Values	Default	Description
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Codec	Available codecs	-	Defines the audio codec or sample format used for newly created sender streams.
Auto RTP Payload Type	On / Off	-	Automatically assigns a suitable RTP payload type to newly created streams. Disable this option to specify the payload type manually.
RTP Payload Type	RTP payload type	-	Defines the RTP payload type when automatic assignment is disabled.
RTP Port	Port number	-	Defines the RTP port used for newly created sender streams.
TTL	Number of network hops	-	Defines the IP multicast Time To Live (TTL). The value limits how many routed network hops a multicast stream can traverse.
Media Interface – Leg 1	Available Media Interfaces	-	Selects the Media Interface used to transmit the first stream leg.
Media Interface – Leg 2	Available Media Interfaces	-	Selects the Media Interface used to transmit the redundant second stream leg when ST 2022-7 is enabled.

Livewire

When **Livewire** is selected under **Protocol Selection**, some of the New Stream Defaults differ from those available for ST 2110.

Instead of assigning multicast destination addresses directly, Livewire uses **Livewire Channel** numbers. These channel numbers determine the corresponding multicast destination used by the Livewire stream.

Interfaces

- AoIP
 - Setup
 - New Stream Defaults
 - Receivers (RX)
 - + ADD ▾
 - Senders (TX)
 - + ADD ▾
 - DEL
 - 01: Stream 01 AIXpre...
 - 02: Stream 02 AIXpre...
- NDI
 - Setup
 - New Stream Defaults
 - Receivers (RX)
 - Senders (TX)
- tieLight / MADI
 - Setup
 - SFP 1: MADI
 - SFP 2: MADI
- AES3
- Analog
- Headphones

Show Expert Settings

Protocol

Protocol Selection

Livewire

Receiver

Enable

Name Prefix

Name Suffix

Name Preview

Receiver 01

Seamless Protection Switching (ST 2022-7)

Leg 1

Start Livewire Channel

26,265

Media Interface

Media Interface 1 (LAN 1 C...

Leg 2

Start Livewire Channel

26,265

Media Interface

Media Interface 2 (LAN 2)

Sender

Enable

Name Prefix

Name Suffix

Name Preview

Stream 01

Channel Count

2

Packet Time

5 (Standard) ms

Seamless Protection Switching (ST 2022-7)

TTL

64

Leg 1

Start Livewire Channel

26,265

Media Interface

Media Interface 1 (LAN 1 C...

Leg 2

Receiver Defaults

Parameter	Values	Default	Description
Enable	On / Off	-	Defines whether newly created Livewire receivers are enabled by default.
Name Prefix	Text	-	Defines an optional prefix added to the name of newly created receivers.
Name Suffix	Text	-	Defines an optional suffix added to the name of newly created receivers.
Name Preview	Status	-	Shows a preview of the resulting receiver name.
Seamless Protection Switching (ST 2022-7)	On / Off	-	Enables SMPTE ST 2022-7 seamless protection switching for newly created receivers.

Parameter	Values	Default	Description
Start Livewire Channel – Leg 1	Livewire channel number	-	Defines the first Livewire Channel number used for automatically created receiver streams. When multiple streams are created, the channel number is incremented automatically.
Media Interface – Leg 1	Available Media Interfaces	-	Selects the Media Interface used for the first stream leg.
Start Livewire Channel – Leg 2	Livewire channel number	-	Defines the starting Livewire Channel number for the redundant second stream leg. When multiple streams are created, the channel number is incremented automatically.
Media Interface – Leg 2	Available Media Interfaces	-	Selects the Media Interface used for the redundant second stream leg when ST 2022-7 is enabled.

Sender Defaults

Parameter	Values	Default	Description
Enable	On / Off	-	Defines whether newly created Livewire senders are enabled by default.
Name Prefix	Text	-	Defines an optional prefix added to the name of newly created senders.
Name Suffix	Text	-	Defines an optional suffix added to the name of newly created senders.
Name Preview	Status	-	Shows a preview of the resulting sender name.
Channel Count	Supported channel counts	-	Defines the default number of audio channels for a newly created Livewire sender.

Parameter	Values	Default	Description
Packet Time	Supported packet times	-	Defines the packet time used for newly created Livewire streams. Shorter packet times reduce transport latency but increase the packet rate and processing load.
Seamless Protection Switching (ST 2022-7)	On / Off	-	Enables SMPTE ST 2022-7 seamless protection switching for newly created senders.
TTL	Number of network hops	-	Defines the IP multicast Time To Live (TTL). The value limits how many routed network hops a multicast stream can traverse.
Start Livewire Channel - Leg 1	Livewire channel number	-	Defines the first Livewire Channel number used for automatically created sender streams. When multiple streams are created, the channel number is incremented automatically.
Media Interface - Leg 1	Available Media Interfaces	-	Selects the Media Interface used to transmit the first stream leg.
Start Livewire Channel - Leg 2	Livewire channel number	-	Defines the starting Livewire Channel number for the redundant second stream leg. When multiple streams are created, the channel number is incremented automatically.
Media Interface - Leg 2	Available Media Interfaces	-	Selects the Media Interface used to transmit the redundant second stream leg when ST 2022-7 is enabled.

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