

Synamedia MEG setup – HSN

HSN1 HD MP4 to MP2 TSoip Out

Task- Configuring Synamedia MEG IRDs

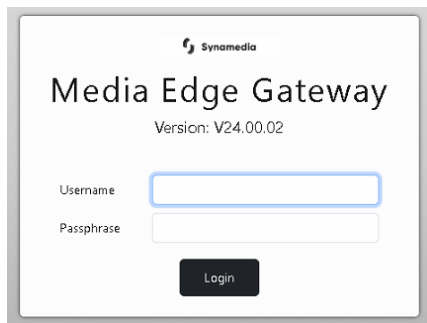
Condition- Transcoding HSN1 HD from MP4 to MP2 - TSoip OUT

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

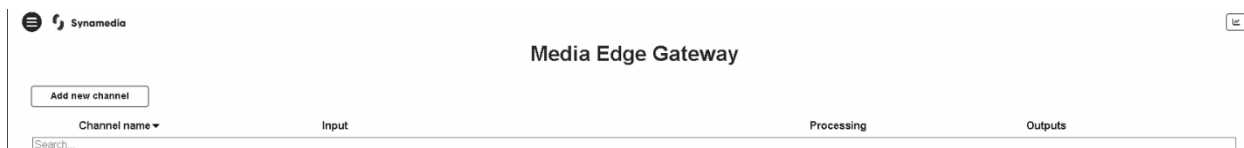
- Transcoding HD MP4 to HD MP2
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin ; PW: Password)

Figure 1 - Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo and 'Media Edge Gateway' with 'Version: V24.00.02' below it. There are two input fields: 'Username' and 'Passphrase'. Below these fields is a 'Login' button.

- Click on **Add New Channel** (see figure 2)

Figure 2 – Add Channel

The image shows the main interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo and 'Media Edge Gateway'. Below this, there is a 'Add new channel' button. Underneath, there is a 'Channel name' dropdown menu, followed by 'Input', 'Processing', and 'Outputs' sections. A search bar is located at the bottom left.

- Choose which option you would like to do
 - Select **Linear Transcode** for TSoip setup (see figure 3)

Figure 3 – Linear Transcode

What would you like to do?

Linear Transcode
Linear Encode
ABR Transcode
ABR Encode
Video Decoding
Service Routing

- Transcode – TSoip
 - Enter a **Channel Name (HSN1 HD MP4 to MP2 TSoip Out)**
 - Select **Use Existing Input**
 - **Input Selection - DVB-S2:DVBS2 1 (4.08GHz)**
 - Select which **Service ID** you would like to transcode by choosing the service in the **Dropdown Menu - (20) for HSN1 HD** (see figure 4)

Figure 4 – Configure Transcode Options

Synamedia

Linear Transcode - HSN1 HD MP4 to MP2 TSoip Out

Input Descrambling Video Audio Service Output

Channel Name: HSN1 HD MP4 to MP2 TSoip Out

☐ Create new input ☒ Use existing input

Input TS Configuration

Input Selection: DVB-S2: DVBS2 1 (4.08 GHz)

Input Service Configuration

Service ID: BYP802 HSN1HD ENC-8036-D-036(20)

User Name: HSN1 HD MP4 to MP2 TSoip Out

Advanced Settings ▶

<< Previous Next >> ✓ Save ✕ Cancel

- **Descrambling - Disabled**
- Click on **Video** tab next
 - Configure **Basic Video Settings**
 - Select the **Format** you would like to Transcode to
 - Leave as **HD**
 - Select **Codec** you would like to Transcode to
 - Select **MPEG2**
 - Select which **Resolution Mode** you would like to use
 - For HD services, select **Follow Input**
 - Leave defaults values for the remainder of settings (see figure 5)

Figure 5 – Choose Format and Codec

The screenshot shows the Synamedia Linear Transcode interface. At the top, there's a navigation bar with icons for Input, Descrambling, Video (selected), Audio, Service, and Output. Below this, there are three tabs: Basic Video Settings, GOP Settings, and Video Pre-Processing. The Basic Video Settings tab is active, showing the following options:

- Format: HD
- Codec: MPEG2
- Rate Mode: CBR
- ES Rate (Mbps): 15.9
- Resolution Mode: Follow input
- Profile: Main

- Click on **Audio** tab next
 - Click on **Add ES: 2001 (MPEG1-L2) (eng)**
 - Enable - Select **Transcode** for MPEG1-L2 audio
 - Leave defaults values for the remainder of settings
 - Click on **Add ES: 2002 (Dolby Digital) (eng)** for Dolby Digital Audio
 - Select **Dolby Digital** in the **Encode** dropdown
 - Enable - Select **Passthrough** for Dolby Digital audio
 - Leave defaults values for the remainder of settings (see figure 6)

Figure 6 – Configure Audio Settings

The screenshot shows the Basic Audio Settings interface for two audio components. At the top, there's a button labeled "Add Other Audio Component". Below it, there are two tabs: Basic Audio Settings (selected) and Basic Audio Settings. The Basic Audio Settings tab is active, showing the following settings for two audio components:

ES: 2001 (MPEG1-L2) (eng)		ES: 2002 (Dolby Digital) (eng)	
Enable	Transcode	Enable	Passthrough
Decode	Auto	Decode	Auto
Encode	MPEG1-L2	Encode	Dolby Digital
Channels	Stereo	Channels	Stereo
ES Rate (kbps)	192	ES Rate (kbps)	192
Sample Rate (kHz)	48.0	Sample Rate (kHz)	48
Track Type	PID	Track Type	PID
PID	2001	PID	2002

- Click on **Service** tab next
 - Enter 2000 for delay (2 seconds) (see figure 7)

Figure 7 – Configure Processing Delay

Service Settings

Processing Delay (ms)

2000

- Click on **Output** next
 - Select **Type**
 - Select **Xgress**
 - Select Xgress port you would like to use (Port-1)
 - Host 225.1.1.1
 - UDP 49152
 - Leave the remaining fields as default (see figure 8)

Figure 8 – Configure Output

The screenshot shows the Synamedia Linear Transcode configuration interface. At the top, there's a navigation bar with icons for Input, Descrambling, Video, Audio, Service, and Output. The Output step is currently selected and highlighted with a blue play button icon. Below the navigation bar, there are two configuration panels: 'Output TS Configuration' and 'Output Service Configuration'. The 'Output TS Configuration' panel has fields for Type (Xgress), Port (Port 1), Host (225.1.1.1), UDP (49152), ON ID (1), TS ID (1), and Streaming (Active). The 'Output Service Configuration' panel has a Service ID field with a dropdown menu showing '20' and a Service Name field with a dropdown menu showing 'Program 1'. In the top right corner, there are buttons for '< Previous', 'Next >', '✓ Create', and '✗ Cancel'.

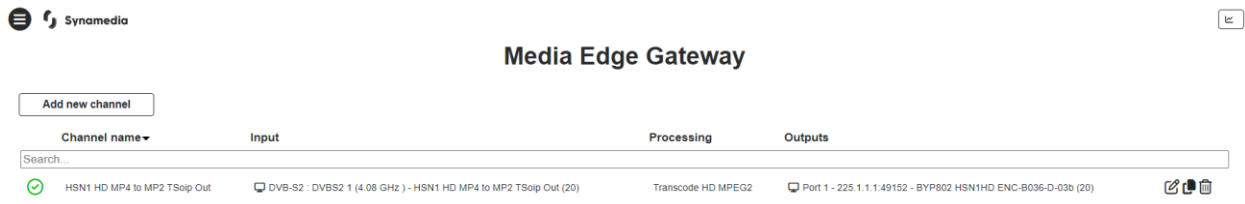
- Tick **Service ID** box
 - Enter **Service ID - 20**
- Click on **Create** in upper right corner (see figure 9)

Figure 9 – Create and Finish



- You should see a popup box that says “**Channel activated successfully**”
- **Setup complete** – There should now be 1 channel with a green check mark (see figure 10)

Figure 10 – Channel Created



*Advanced View configurations are beyond the scope of this document.