

Synamedia MEG setup – HSN

HSN1 HD MP4 to SD MP4 - TSoip Out

Task- Configuring Synamedia MEG IRDs

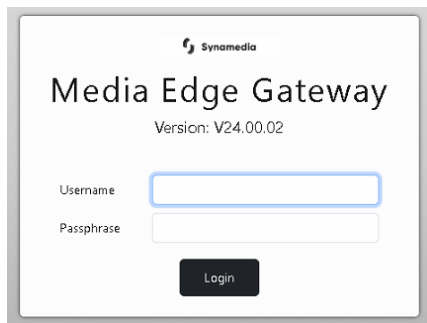
Condition- Transcoding HSN1 HD from MP4 to SD MP4 - TSoip Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

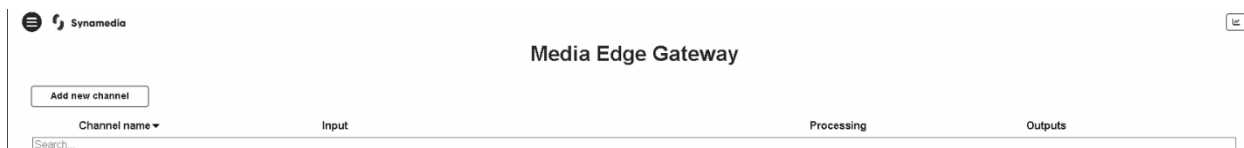
- Transcoding HD MP4 to SD MP4
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin ; PW: Password)

figure 1 - Login

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

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

figure 2 – Add Channel

The image shows the main menu of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo. Below that is 'Media Edge Gateway'. There is a button 'Add new channel'. Below that is a table with columns: 'Channel name', 'Input', 'Processing', and 'Outputs'. The 'Channel name' column has a search bar.

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

figure 3 - 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 SD MP4 - 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

Channel Name: HSN1 SD MP4 TSoip Out

☐ Create new input ☒ Use existing input

Input TS Configuration: DVB-S2: DVBS2 1 (4.08 GHz)

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

Advanced Settings >

User Name: HSN1 SD MP4 TSoip Out

- **Descrambling - Disabled**
- Click on **Video** tab next
 - Configure **Basic Video Settings**
 - Select the **Format** you would like to Transcode to
 - Select SD
 - Select **Codec** you would like to Transcode to
 - Select H.264
 - Select which **Resolution Mode** you would like to use
 - For SD services, select **Manual**
 - Verify the **Resolution** is set to **720x480p**
 - Verify **Frame Rate** is set to **29.97**
 - Leave defaults values for the remainder of settings (see figure 5)

figure 5 – Choose Format and Codec

- 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

[Add Other Audio Component](#)

Basic Audio Settings		Basic Audio Settings	
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 which **Xgress port** you would like to use (Port-1)
 - Leave remaining fields as default values
 - Tick **Service ID** box
 - Enter **Service ID – 20** (see figure 8)

Figure 8 – Configure Output

The screenshot shows the Synamedia Linear Transcode 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 box. 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 (225.1.1.4), UDP (49153), ON ID (1), TS ID (1), and Streaming (Active). The Output Service Configuration panel has a Service ID field with a checked checkbox and the value 20, and a Service Name field with a checked checkbox and the value Program 1. In the top right corner, there are navigation buttons: << Previous, Next >>, << Create, and X Cancel.

Linear Transcode

Input — Descrambling — Video — Audio — Service — **Output**

Output TS Configuration

Type	Xgress
Port	Port 1
Host	225.1.1.4
UDP	49153
ON ID	1
TS ID	1
Streaming	Active

Output Service Configuration

Service ID	<input checked="" type="checkbox"/> 20
Service Name	<input checked="" type="checkbox"/> Program 1

<< Previous Next >> << Create X Cancel

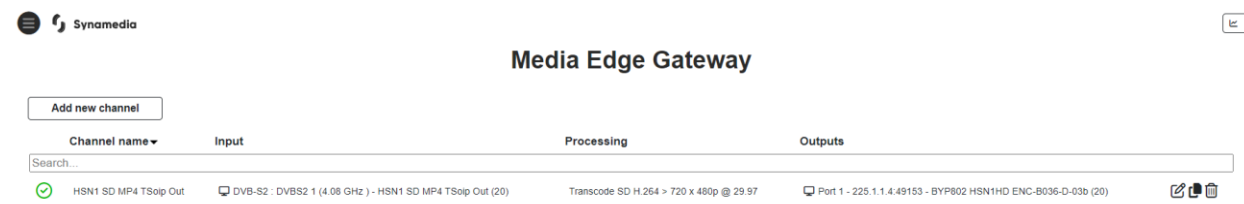
- Click on **Create** in upper right corner (see figure 9)

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.