

Synamedia MEG setup – HSN

HSN2 HD MP4 to SD MP4 - TSoip Out

Task- Configuring Synamedia MEG IRDs

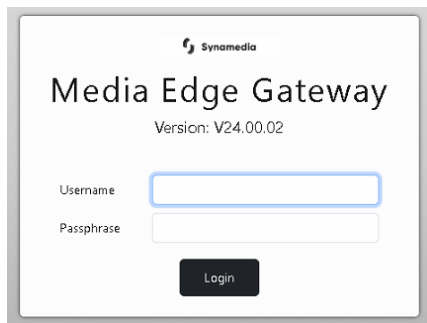
Condition- Transcoding HSN2 HD from MP4 to SD MP4 - TSoip Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

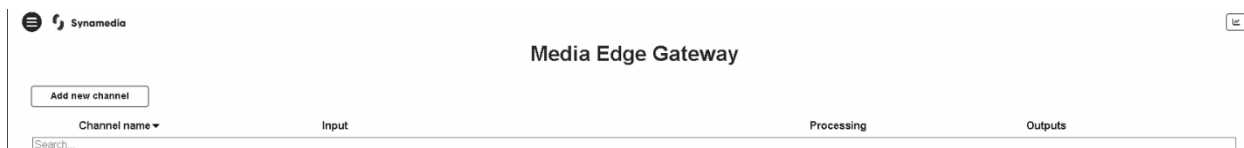
- Transcoding HD MP4 to SD MP4
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin; PW: Password)

figure 1 - Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo 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 table with columns: 'Channel name', 'Input', 'Processing', and 'Outputs'. The 'Channel name' column has a search bar with the text 'Search...'. There is also a 'Logout' button in the top right corner.

- 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 – ASI
 - Enter a **Channel Name (HSN2 HD MP4 to SD MP4 - TSoip Out)**
 - Select **Use Existing Input**
 - **Input Selection - DVB-S2:DVB-S2 1 (4.08GHz)**
 - Select which **Service ID** you would like to transcode by choosing the service in the **Dropdown Menu - (23) for HSN2 HD** (see figure 4)

figure 4 – Configure Transcode Options

Synamedia

Linear Transcode

Input Descrambling Video Audio Service Output

Channel Name: HSN2 SD MP4 TSoip Out

☐ Create new input ☒ Use existing input

Input TS Configuration

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

Input Service Configuration

Service ID: BYP802 HSN2HD ENC-8036-E-036(23)

User Name: ☐ HSN2 SD MP4 TSoip Out

Advanced Settings >

- **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

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, the 'Basic Video Settings' panel is visible, containing the following settings:

- Format: SD
- Codec: H.264
- Rate Mode: CBR
- ES Rate (Mbps): 1.5
- Resolution Mode: Manual
- Resolution: 720 x 480p
- Frame Rate: 29.97
- Profile: High

Buttons for '<< Previous', 'Next >>', 'Create', and 'Cancel' are located in the top right corner.

- Click on **Audio** tab next
 - Click on **Add ES: 2301 (MPEG1-L2) (eng)**
 - Enable - Select **Transcode** for MPEG1-L2 audio (see figure 6)
 - Leave defaults values for the remainder of settings
 - Click on **Add ES: 2302 (Dolby Digital) (eng)** for Dolby Digital Audio
 - Select **Dolby Digital** in the **Encode** dropdown
 - Enable - Select **Passthrough** for Dolby Digital audio (see figure 6)
 - Leave defaults values for the remainder of settings

Figure 6 – Configure Audio Settings

[Add Other Audio Component](#)

Basic Audio Settings		Basic Audio Settings	
ES: 2301 (MPEG1-L2) (eng)		ES: 2302 (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	2301	PID	2302

- 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)
 - Host 225.1.1.5
 - UDP 49153
 - Leave remaining fields as default values
 - Tick **Service ID** box
 - Enter **Service ID – 23** (see figure 8)

Figure 8 – Configure Output

Synamedia

Linear Transcode

Input Descrambling Video Audio Service Output

Output TS Configuration

Type	Xgress
Port	Port 1
Host	225.1.1.5
UDP	49152
ON ID	1
TS ID	1
Streaming	Active

Output Service Configuration

Service ID	<input checked="" type="checkbox"/> 23
Service Name	<input type="checkbox"/> Program 1

« Previous Next » **Create** X Cancel

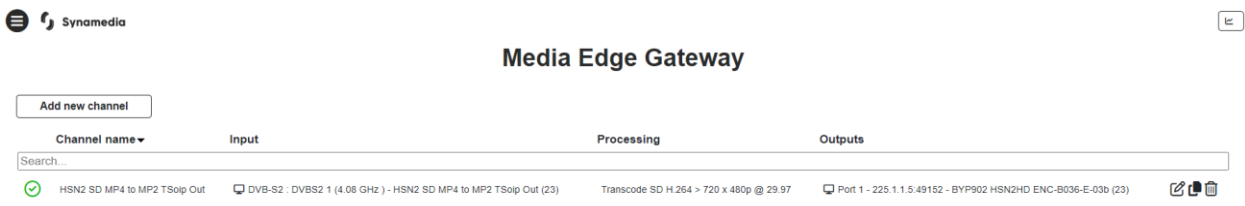
- Click on **Create** in upper right corner (see figure 9)

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.