

Synamedia MEG setup – HSN

HSN1 HD MP4 to SD MP2 - TSoip Out

Task- Configuring Synamedia MEG IRDs

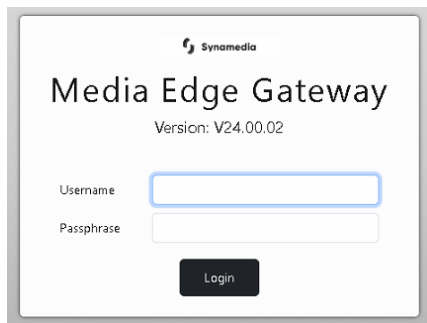
Condition- Transcoding HSN1 HD from MP4 to SD MP2 - TSoip Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

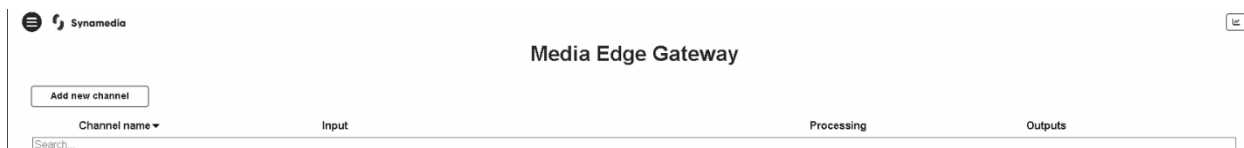
- Transcoding HD MP4 to SD MP2
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin ; PW: Password)

figure 1 - Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo. 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 interface 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'. There is a search bar under the 'Channel name' column.

- 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 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

Linear Transcode

Channel Name: HSN1 SD 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-03b(Q0)

User Name: HSN1 SD MP4 to MP2 TSoip Out

Advanced Settings ▶

Navigation: Previous Next Create Cancel

- **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 **MPEG2**
 - 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 for the task "Linear Transcode - HSN1 SD MP4 to MP2 TSoip Out". The "Video" tab is selected in the top navigation bar. Below the navigation bar, there are three main sections: "Basic Video Settings", "GOP Settings", and "Video Pre-Processing". The "Basic Video Settings" section contains the following fields:

Field	Value
Format	SD
Codec	MPEG2
Rate Mode	CBR
ES Rate (Mbps)	3
Resolution Mode	Manual
Resolution	720 x 480p
Frame Rate	29.97
Profile	Main

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

Figure 6 – Configure Audio Settings

The screenshot shows the Synamedia Linear Transcode interface for the task "Linear Transcode - HSN1 SD MP4 to MP2 TSoip Out". The "Audio" tab is selected in the top navigation bar. Below the navigation bar, there are three main sections: "Basic Audio Settings", "Basic Audio Settings", and "Basic Audio Settings". The "Basic Audio Settings" section contains the following fields:

Field	Value
Enable	Transcode
Decode	Auto
Encode	MPEG1-L2
Channels	Stereo
ES Rate (kbps)	192
Sample Rate (kHz)	48.0
Track Type	PID
PID	2001

- 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 225.1.1.4
 - UDP 49152
 - Leave remaining fields as default values
 - Tick **Service ID** box
 - Enter **Service ID - 20** (see figure 8)

Figure 8 – Configure Output

Output TS Configuration

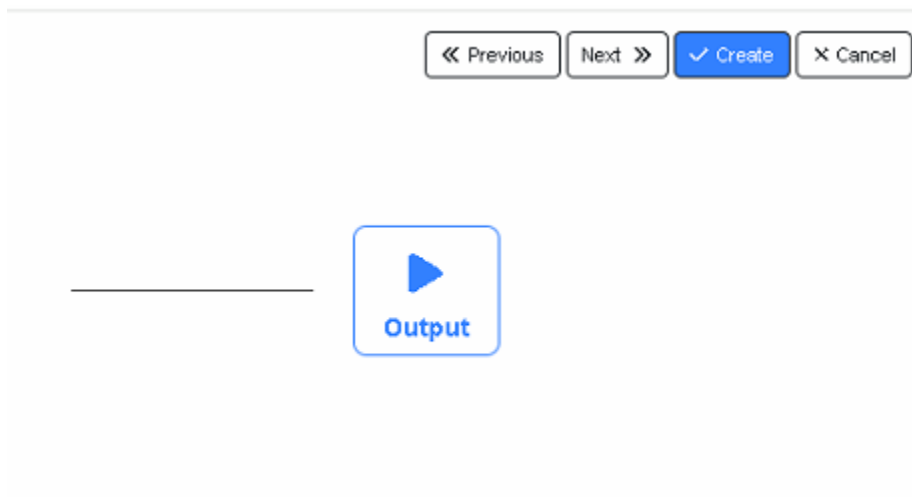
Type	Xgress
Port	Port 1
Host	225.1.1.4
UDP	49152
ON ID	1
TS ID	1
Streaming	Active

Output Service Configuration

Service ID	<input checked="" type="checkbox"/> 20
Service Name	<input type="checkbox"/> BYP802 HSN1HD ENC-B036-D-03b

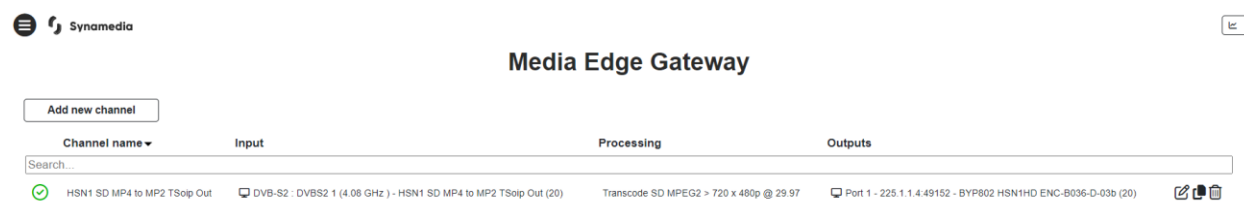
- Click on **Create** in upper right corner (see figure 9)

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.