

Synamedia MEG setup – HSN

HSN1 SD OTA MP4 to SD MP2 - TSoip Out

Task- Configuring Synamedia MEG IRDs

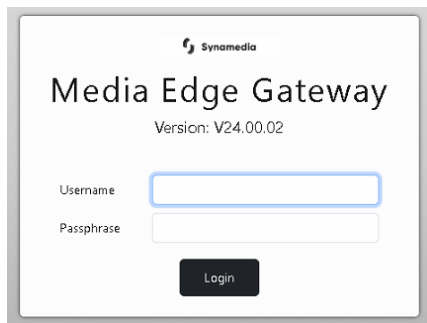
Condition- Transcoding HSN1 SD OTA from MP4 to SD MP2 - TSoip Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

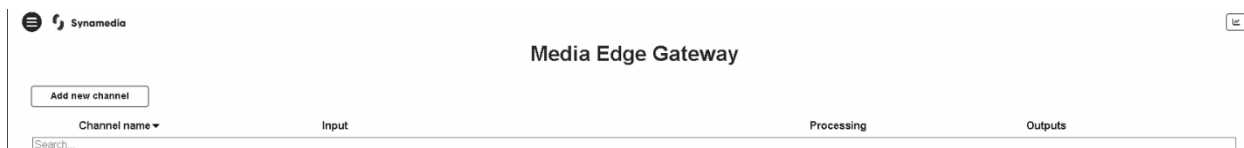
- Transcoding SD OTA MP4 to SD MP2
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin; PW: Password)

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 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'. There is a search bar at the bottom left.

- 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 SD OTA 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 - (22) for HSN1 SD OTA** (see figure 4)

figure 4 – Configure Transcode Options

Synamedia

Linear Transcode

Input Descrambling Video Audio Service Output

Channel Name: HSN1 SD OTA 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: BYP808 HSN1SD OTA ENC-8036-Q-0822

User Name: HSN1 SD OTA MP4 to MP2 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 **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. 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: MPEG2
- Rate Mode: CBR
- ES Rate (Mbps): 3.0
- Resolution Mode: Manual
- Resolution: 720 x 480p
- Frame Rate: 29.97
- Profile: Main

Buttons at the top right include '<< Previous', 'Next >>', 'Create', and 'Cancel'.

- Click on **Audio** tab next
 - Click on **Add ES: 2201 (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: 2202 (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

The screenshot shows the 'Basic Audio Settings' interface for two audio components. The left panel is for 'ES: 2201 (MPEG1-L2) (eng)' and the right panel is for 'ES: 2202 (Dolby Digital) (eng)'. Both panels have a trash icon in the top right corner.

Setting	ES: 2201 (MPEG1-L2) (eng)	ES: 2202 (Dolby Digital) (eng)
Enable	Transcode	Passthrough
Decode	Auto	Auto
Encode	MPEG1-L2	Dolby Digital
Channels	Stereo	Stereo
ES Rate (kbps)	192	192
Sample Rate (kHz)	48.0	48
Track Type	PID	PID
PID	2201	2202

- 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** 225.1.1.3
 - **UDP** 49152
 - Leave remaining fields as default values
 - Tick **Service ID** box
 - Enter **Service ID – 22** (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 (which is highlighted with a blue border). Below this, the 'Output TS Configuration' and 'Output Service Configuration' sections are visible.

Output TS Configuration:

Type	Xgress
Port	Port 1
Host	225.1.1.3
UDP	49152
ON ID	1
TS ID	1
Streaming	Active

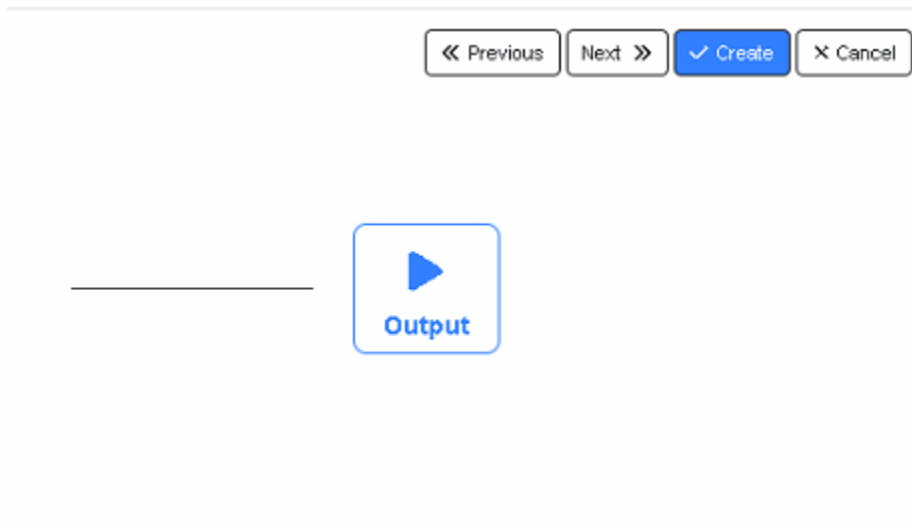
Output Service Configuration:

Service ID	<input checked="" type="checkbox"/> 22
Service Name	<input type="checkbox"/> Program 1

At the top right of the interface, there are navigation buttons: '<< Previous', 'Next >>', '✓ Create' (highlighted in blue), and 'X Cancel'.

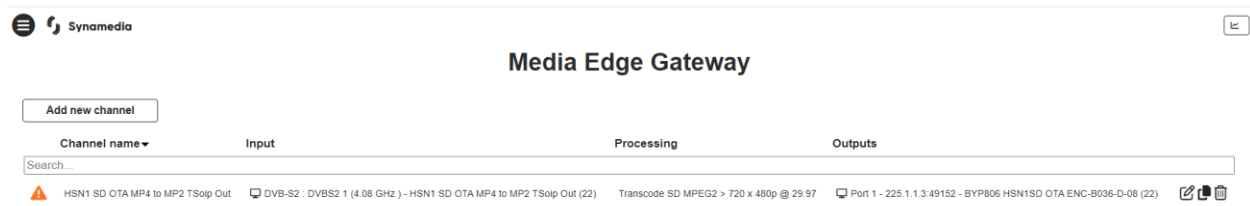
- Click on **Create** in upper right corner (see figure 9)

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.