

Synamedia MEG setup – HSN

HSN2 HD MP4 to SD MP2 - TSoip Out

Task- Configuring Synamedia MEG IRDs

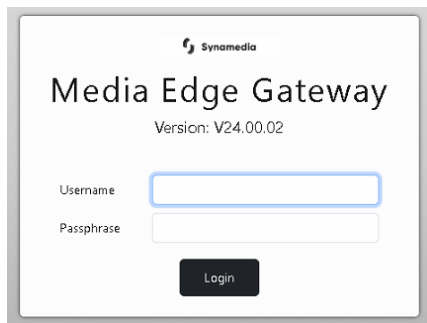
Condition- Transcoding HSN2 HD from MP4 to SD MP2 - TSoip Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

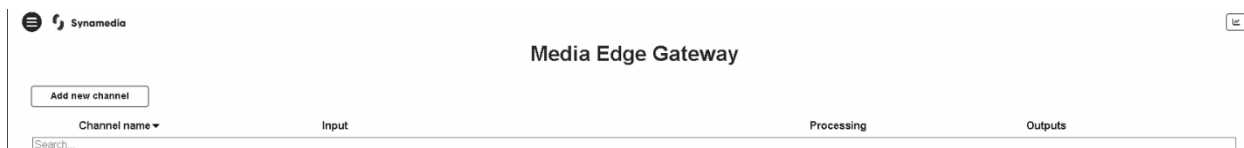
- Transcoding HD MP4 to SD MP2
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin; PW: Password)

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 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 search bar with 'Channel name' and 'Input'. There are also tabs for 'Processing' and 'Outputs'.

- Choose which option you would like to do
 - Select **Linear Transcode** for ASI 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 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 - (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 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: BYP602 HSN2HD ENC-8036-E-036(23)

Advanced Settings ▶

User Name: HSN2 SD MP4 to MP2 TSoip Out

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 default values for the remainder of settings (see figure 5)

figure 5 – Choose Format and Codec

Linear Transcode

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

Basic Video 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: Main

GOP Settings

Video Pre-Processing

- 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

ES: 2301 (MPEG1-L2) (eng)

Enable	Transcode
Decode	Auto
Encode	MPEG1-L2
Channels	Stereo
ES Rate (kbps)	192
Sample Rate (kHz)	48.0
Track Type	PID
PID	2301

Basic Audio Settings

ES: 2302 (Dolby Digital) (eng)

Enable	Passthrough
Decode	Auto
Encode	Dolby Digital
Channels	Stereo
ES Rate (kbps)	192
Sample Rate (kHz)	48
Track Type	PID
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 49152
 - Leave remaining fields as default values
 - Tick **Service ID** box
 - Enter **Service ID – 23** (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 (which is highlighted). Below the navigation bar, the 'Output' configuration is shown. It is divided into two sections: 'Output TS Configuration' and 'Output Service Configuration'.

Output TS Configuration:

- Type: Xgress (dropdown)
- Port: Port 1 (dropdown)
- Host: 225.1.1.5 (text input)
- UDP: 49152 (text input)
- ON ID: 1 (text input)
- TS ID: 1 (text input)
- Streaming: Active (dropdown)

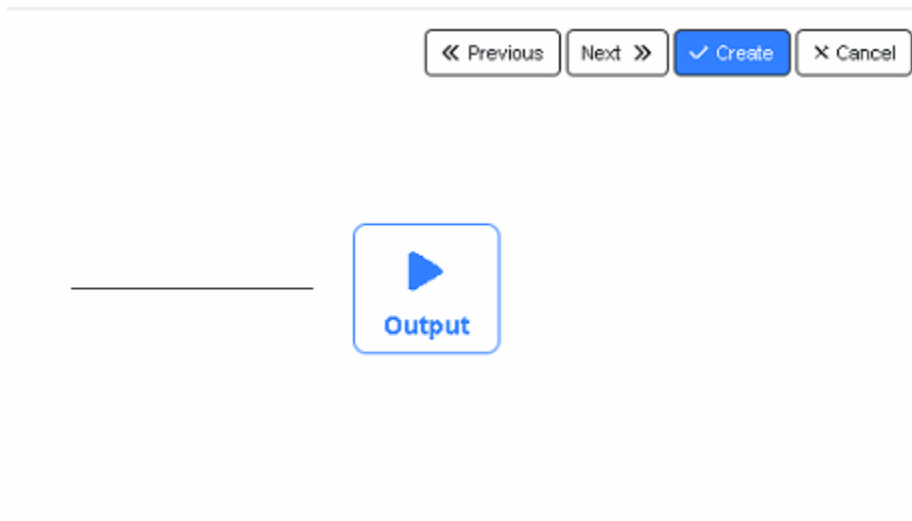
Output Service Configuration:

- Service ID: ☒ 23 (checkbox and text input)
- Service Name: Program 1 (dropdown)

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

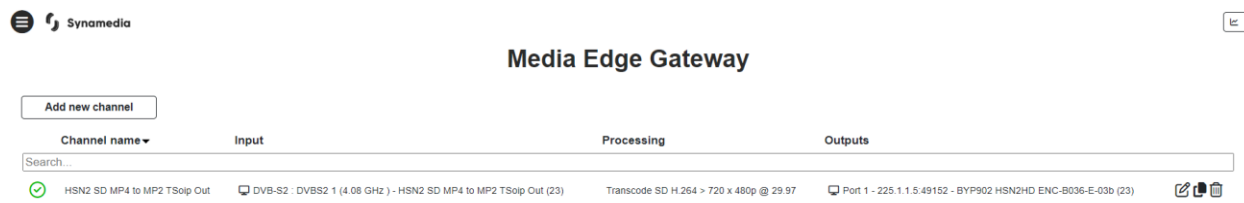
- Click on **Create** in upper right corner (see figure 9)

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.