

Synamedia MEG setup – **HSN**

HSN2 HD MP4 to SD MP4 - ASI Out

Task- Configuring Synamedia MEG IRDs

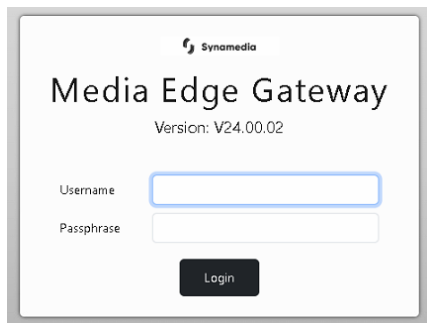
Condition- Transcoding HSN2 HD from MP4 to SD MP4 - ASI Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

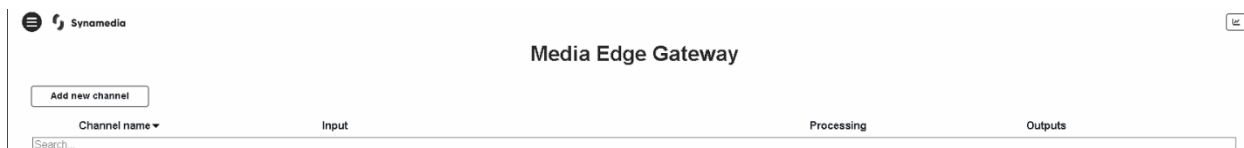
- Transcoding HD MP4 to SD MP4
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1)(UN: Admin; PW: Password)

figure 1 - Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo, followed by 'Media Edge Gateway' and 'Version: V24.00.02'. Below this, there are two input fields: 'Username' and 'Passphrase'. A 'Login' button is positioned below the 'Passphrase' field.

- 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 this, there is a 'Media Edge Gateway' title. On the left, there is a sidebar with a menu icon and an 'Add new channel' button. Below the sidebar, there is a search bar labeled 'Channel name'. The main content area is divided into three sections: 'Input', '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 MP4 - ASI 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 ASI Out

☐ Create new input ☒ Use existing input

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

Input Service Configuration: Service ID: BYP902 HSN2HD ENC-8036-E-03b(23)

User Name: ☐ HSN2 SD MP4 ASI 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, showing the following configurations:

Setting	Value
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

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 **ASI**
 - Select which **ASI port** you would like to use (Asi1)
 - 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 is a navigation bar with a menu icon, the Synamedia logo, and buttons for « Previous, Next », **Create**, and X Cancel. Below the navigation bar, a progress bar shows five steps: Input, Descrambling, Video, Audio, and Service, with the final step, Output, highlighted in blue. The main content area is divided into two sections: Output TS Configuration and Output Service Configuration. The Output TS Configuration section has fields for Type (ASI), Port (ASI1), ON ID (1), TS ID (1), and Streaming (Active). The Output Service Configuration section has a Service ID field with a checked checkbox and the value 23, and a Service Name field with a checked checkbox and the value Program 1.

Linear Transcode

Input Descrambling Video Audio Service **Output**

Output TS Configuration

Type: ASI
Port: ASI1
ON ID: 1
TS ID: 1
Streaming: Active

Output Service Configuration

Service ID: ☒ 23
Service Name: ☒ Program 1

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

Figure 8 – Configure Output

Linear Transcode

Input Descrambling Video Audio Service **Output**

Output TS Configuration

Type: ASI
Port: ASI1
ON ID: 1
TS ID: 1
Streaming: Active

Output Service Configuration

Service ID: 23
Service Name: Program 1

Previous Next Create Cancel

- 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

Media Edge Gateway

Add new channel

Channel name	Input	Processing	Outputs
Search...			
HSN2 SD MP4 ASI Out	DVB-S2 : DVBS2 1 (4.08 GHz) - HSN2 SD MP4 ASI Out (23)	Transcode SD H.264 > 720 x 480p @ 29.97	ASI : ASI1 - BYP902 HSN2HD ENC-B036-E-03D (23)

*Advanced View configurations are beyond the scope of this document.