

Synamedia MEG setup – HSN

HSN2 HD MP4 to MP2 ASI Out

Task- Configuring Synamedia MEG IRDs

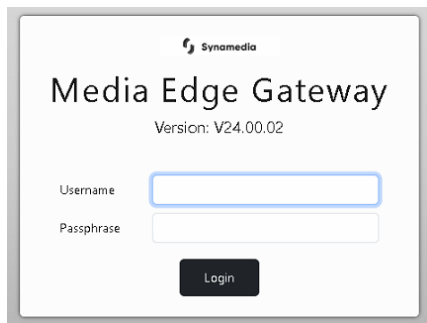
Condition- Transcoding HSN2 HD from MP4 to MP2 - ASI OUT

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

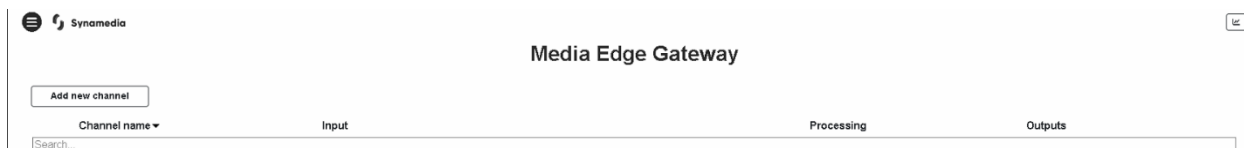
- Transcoding HD MP4 to HD MP2
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin ; PW: Password)

Figure 1 -Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo, 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 menu 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 a search bar. The main content area has a header with 'Add new channel' and a search bar. Below the header, there are four tabs: 'Channel name', 'Input', 'Processing', and 'Outputs'. The 'Channel name' tab is currently selected.

- 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 MP2 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 HD MP4 to MP2 ASI Out

☐ Create new input ☒ Use existing input

Input TS Configuration

Input Selection: DVB-S2: DVBS2 1 (4.08 GHz)

Input Service Configuration

Service ID: BYP002 HSN2HD ENC-0036-E-03b(23)

User Name: HSN2 HD MP4 to MP2 ASI Out

Advanced Settings >

- **Descrambling - Disabled**
- Click on **Video** tab next
 - Configure **Basic Video Settings**
 - Select the **Format** you would like to Transcode to
 - Leave as **HD**
 - Select **Codec** you would like to Transcode to
 - Select **MPEG2**
 - Select which **Resolution Mode** you would like to use
 - For HD services, select **Follow Input**
 - 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, there are three main sections: Basic Video Settings, GOP Settings, and Video Pre-Processing. The Basic Video Settings section is expanded, showing the following options:

- Format: HD
- Codec: MPEG2
- Rate Mode: CBR
- ES Rate (Mbps): 15.0
- Resolution Mode: Follow Input
- Profile: Main

- 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 **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 configuration interface. At the top, there is a navigation bar with icons for Input, Descrambling, Video, Audio, Service, and Output. The Output icon is highlighted with a blue border. Below the navigation bar, the title "Linear Transcode" is centered. Underneath, there are two configuration panels: "Output TS Configuration" and "Output Service Configuration".

Output TS Configuration:

- Type: ASI (dropdown)
- Port: ASI1 (dropdown)
- 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 (checkbox and text input)

In the top right corner, there are four 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.