

## Synamedia MEG setup – HSN

### HSN1 HD MP4 to MP2 ASI Out

**Task-** Configuring Synamedia MEG IRDs

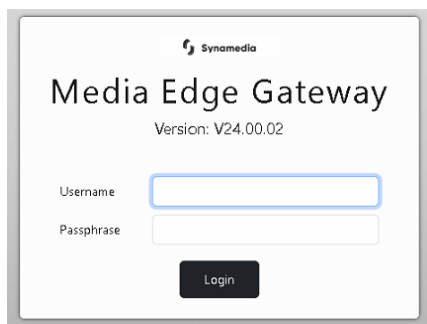
**Condition-** Transcoding HSN1 HD from MP4 to MP2 - ASI OUT

**Standard-** How to configure a Synamedia MEG IRD for transcoding

**Action Items:**

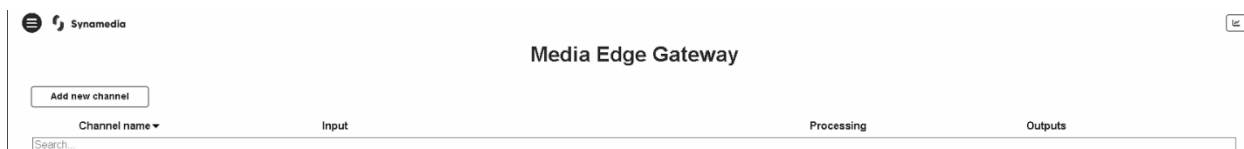
- Transcoding HD MP4 to HD MP2
  - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
    - **Enter UN & PW** (see figure 1) (UN: Admin ; PW: Password)

figure 1 - Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, the Synamedia logo is displayed. Below it, the text 'Media Edge Gateway' and 'Version: V24.00.02' are shown. There are two input fields: 'Username' and 'Passphrase'. A 'Login' button is located at the bottom of the form.

- Click on **Add New Channel** (see figure 2)

figure 2 – Add Channel

The image shows the main menu of the Synamedia Media Edge Gateway. The title 'Media Edge Gateway' is centered at the top. On the left, there is a sidebar with a menu icon and the Synamedia logo. Below the logo, there is a button labeled 'Add new channel'. Underneath this button, there is a section for 'Channel name' with a dropdown arrow. Below the channel name, there is a search bar. On the right side of the main menu, there are three tabs: 'Input', 'Processing', and 'Outputs'. The 'Input' 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** (HSN1 HD MP4 to MP2 ASI Out)
  - Select **Use Existing Input**
  - **Input Selection - DVB-S2:DVB-S2 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

Synamedia

Linear Transcode

Channel Name: HSN1 HD MP4 to MP2 ASI Out

☐ Create new input ☒ Use existing input

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

Input Service Configuration: Service ID: EYP802 HSN1HD ENC-8035-D-03b(20)

Advanced Settings >

User Name: HSN1 HD MP4 to MP2 ASI 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
    - 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 'Linear Transcode' interface with the 'Video' tab selected. The interface includes a progress bar at the top with steps: Input, Descrambling, Video (selected), Audio, Service, and Output. Below the progress bar, there are three main sections: 'Basic Video Settings', 'GOP Settings', and 'Video Pre-Processing'. The 'Basic Video Settings' section contains the following options:

Setting	Value
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: 2001 (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: 2002 (Dolby Digital) (eng)** for Dolby Digital Audio
    - Select **Passthrough** for Dolby Digital audio (see figure 6)
    - Enable - Select **Dolby Digital** in the **Encode** dropdown
    - Leave defaults values for the remainder of settings

Figure 6 – Configure Audio Settings

The screenshot shows the 'Basic Audio Settings' interface with two audio components configured. The 'Add Other Audio Component' button is at the top left. The settings are organized into two columns, each with a trash icon for deletion.

ES: 2001 (MPEG1-L2) (eng)		ES: 2002 (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	2001	PID	2002

- 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 – 20** (see figure 8)

Figure 8 – Configure Output

The screenshot shows the Synamedia Linear Transcode interface. At the top, there is a navigation bar with icons for Input, Descrambling, Video, Audio, Service, and Output. The Output tab is selected and highlighted. Below the navigation bar, there are two configuration 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 checkbox and the value 20, and a Service Name field with a checkbox and the value Program 1. In the top right corner, there are buttons for Previous, Next, Create, and Cancel. The Create button is highlighted in blue.

Synamedia

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

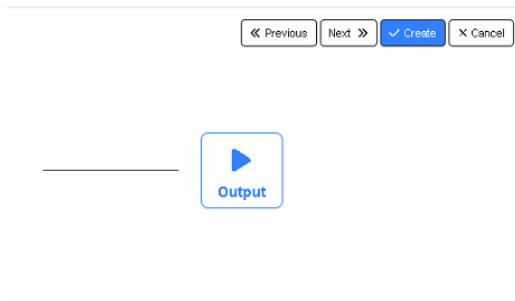
Service ID ☒ 20

Service Name ☐ Program 1

Previous Next Create 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.