

Synamedia MEG setup – **HSN**

HSN1 OTA SD MP4 to SD MP2 - ASI Out

Task- Configuring Synamedia MEG IRDs

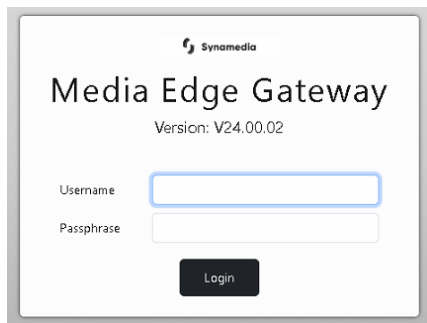
Condition- Transcoding HSN1 SD OTA from MP4 to SD MP2 - ASI Out

Standard- How to configure a Synamedia MEG IRD for transcoding

Action Items:

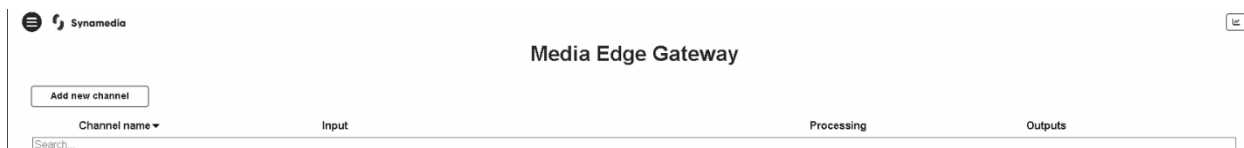
- Transcoding SD MP4 to SD MP2
 - Begin by **Browsing to IP** of MEG IRD (Default ip - 192.168.2.20)
 - **Enter UN & PW** (see figure 1) (UN: Admin; PW: Password)

figure 1 - Login

The image shows the login interface of the Synamedia Media Edge Gateway. At the top, it says 'Synamedia' with a logo, 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 and 'Media Edge Gateway'. Below this, there is a navigation bar with four tabs: 'Add new channel', 'Channel name', 'Input', 'Processing', and 'Outputs'. The 'Add new channel' 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 SD OTA MP4 to SD 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 - (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 ASI Out

☐ Create new input ☒ Use existing input

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

Input Service Configuration: Service ID: BYP806 HSN1SD OTA ENC-8036-D-08/22

Advanced Settings ▶

User Name: ☐ HSN1 SD OTA 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
 - 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

At the top right, there are navigation buttons: « Previous, Next », and a blue 'Create' button with a checkmark, followed by a 'Cancel' button with an 'X'.

- 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

[Add Other Audio Component](#)

Basic Audio Settings		Basic Audio Settings	
ES: 2201 (MPEG1-L2) (eng)		ES: 2202 (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	2201	PID	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 **ASI**
 - Select which **ASI port** you would like to use (Asi1)
 - 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 interface. At the top, there is a navigation bar with icons for Input, Descrambling, Video, Audio, Service, and Output. The Output icon is highlighted. Below the navigation bar, the 'Output TS Configuration' section is visible. It contains the following fields:

Output TS Configuration	
Type	ASI
Port	ASI1
ON ID	1
TS ID	1
Streaming	Active

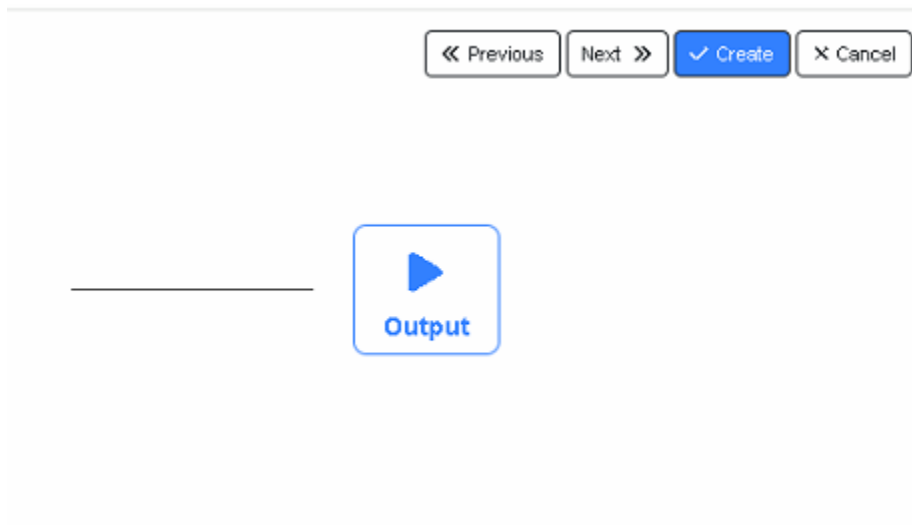
To the right of the 'Output TS Configuration' section is the 'Output Service Configuration' section. It contains the following fields:

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

In the top right corner of the interface, there are four buttons: '<< Previous', 'Next >>', '✓ Create', and 'X Cancel'. The 'Create' button is highlighted in blue.

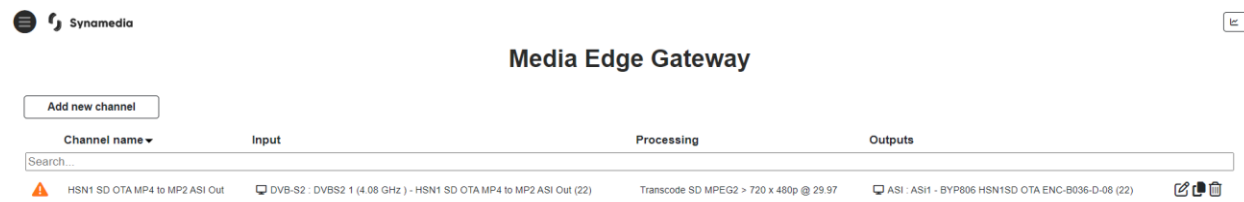
- Click on **Create** in upper right corner (see figure 9)

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.