Synamedia MEG setup – **HSN**

HSN2 HD MP4 to SD MP2 - ASI Out

Task- Configuring Synamedia MEG IRDs

Condition- Transcoding HSN2 HD from MP4 to SD MP2 - ASI 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)

Synamedia Media Edge Gateway Version: V24.00.02				
Username Passphrase				
	Login			

- Click on Add New Channel (see figure 2)
 - Choose which option you would like to do

figure 2 – Add Channel

Synamedia					٣
		Media Edge Gateway			
Add new channel					
Channel name -	Input		Processing	Outputs	
Search					

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 (see figure 4)
 - Enter a Channel Name (HSN2 HD 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 (23) for HSN2 HD

figure 4 – Configure Transcode Options

🖨 💪 Syname	dia					« Previous Next » Create × Cancel
			Linear T	ranscode		
	Input	Descrambling	Video	● 》 Audio	Service	Output
Channel Name H	SN2 SD MP4 to MP2 ASI Out					
O Create new input	t 🧿 Use existing input					
Input TS Config	uration	Input Servi	ce Configuration	Advanced Settings >		
Input Selection	DVB-S2 : DVBS2 1 (4.08 GHz)	✓ Service ID	BYP902 HSN2HD ENC-B036-E-03b(23)			
		User Name	HSN2 SD MP4 to MP2 ASI Out			

- Descrambling Disabled
- Click on **Video** tab next
 - Configure Basic Video Settings (see figure 5)
 - Select the Format you would like to Transcode to
 - Select SD
 - Select Codec you would like to Transcode to
 - Select MPEG2
 - o 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

figure 5 – Choose Format and Codec

🖨 💪 Synamedia						<pre></pre>
			Linear Tra	nscode		
Input		G	Video	()	Service	Output
Basic Video Setting	5	GOP Settings	N N	/ideo Pre-Processing >		
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	~				

- 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 Comp	ponent				
Basic Audio Setti	ngs 🛍		Basic Audio Settings 🗐		
ES: 2301 (MPEG1-L2) (eng)			ES: 2302 (Do	lby 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
 - o Select Type
 - Select ASI
 - Select which **ASI port** you would like to use (Asi1)
 - Leave remaining fields as default values (see figure 8)

Figure 8 – Configure Output

🛢 💪 Syna	media						(
				Linear	Franscode		
	Input	Descram	bling	Video	▲功) Audio	Service	Output
Output TS Co	onfiguration	01	utput Service Configu	ration			
Туре	ASI	✓ Se	rvice ID 23				
Port	ASI1	✓ Se	rvice Name Pr	igram 1			
ON ID	1						
TS ID	1						

- Enter Service ID 23
- 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

🖨 🖒 Synamedia	Media E	dge Gateway		۲
Add new channel	logut	Processing	Outputs	
Search	input	Frocessing	Outputs	
HSN2 SD MP4 to MP2 ASI Out	UVB-S2 : DVBS2 1 (4.08 GHz) - HSN2 SD MP4 to MP2 ASI Out (23)	Transcode SD MPEG2 > 720 x 480p @ 29.97	ASI : ASI1 - BYP902 HSN2HD ENC-B036-E-03b (23)	C 🗭 🛍

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