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Methodology to acquire JOYNE Channel list in DVBS2 Television and/or Set Top Box

1. Manually channel scan methodology
2. Auto Joyne-Scan (**STB/Manufacturer instructions**)

Eutelsat Beacon information for high-end automatic systems only

DTH satellite : Eutelsat 9B

Orbital position : 9° East

Beacon position: 11701.20 POL X

: 12498,00 POL X

JOYNE Transponder information

Transponder 1 (Home TP)

Satellite : Eutelsat 9°E
 Frequency : 11746 Mhz.
 Polarization : Horizontal
 Symbol rate : 30.000
 FEC : 3/4
 Modulation : 8PSK

Transponder 2

Satellite : Eutelsat 9°E
 Frequency : 12072 Mhz.
 Polarization : Vertical
 Symbol rate : 30.000
 FEC : 3/4
 Modulation : 8PSK

Transponder 3

Satellite : Eutelsat 9°E
 Frequency : 11727 Mhz.
 Polarization : Vertical
 Symbol rate : 30.000
 FEC : 3/4
 Modulation : 8PSK

1. Manual Network Scan for STB and TV

A manual Network Scan with a signaling in the NIT typically would load the Joyne Channel list. The NIT is located on all 3 transponders. Executing a network NIT search after manually entering TP frequency 11746 H from a DVB compliant set-top box or TV should load the relevant LCN for the Netherlands. The same applies for Belgium when executing a network NIT search on TP 11727 V.

2. For STB/TV manufacturers

The JOYNE NIT with all the relevant streams and their downlink parameters descriptors will be broadcasted on all three TP's i.e. 11746 H, 12072 V, 11727 V. JOYNE generates a BAT with all the services that should go to the STB/TV channel list, including LCN descriptor that imposes channel order in the list and broadcast it on all transponders.

Script to be implemented in DVB-S2 Set Top Box/TV by manufacturer should execute the following functions of STB/TV (**Please include both JOYNE-Scan for the Dutch market (NL) and Belgium market (BE) selectable by user**):

JOYNE-SCAN NL (Netherlands)

- Scan for the Joyne Home transponder (11746 H)
- Read NIT
- Read BAT
- Scan all the transport streams introduced in NIT
- Insert all services described in BAT in the channel list
- Order the services in the channel list according to the BAT's LCN descriptor

JOYNE-SCAN BE (Belgium)

- Scan for the Joyne Home transponder (11727 V)
- Read NIT
- Read BAT
- Scan all the transport streams introduced in NIT
- Insert all services described in BAT in the channel list
- Order the services in the channel list according to the BAT's LCN descriptor