

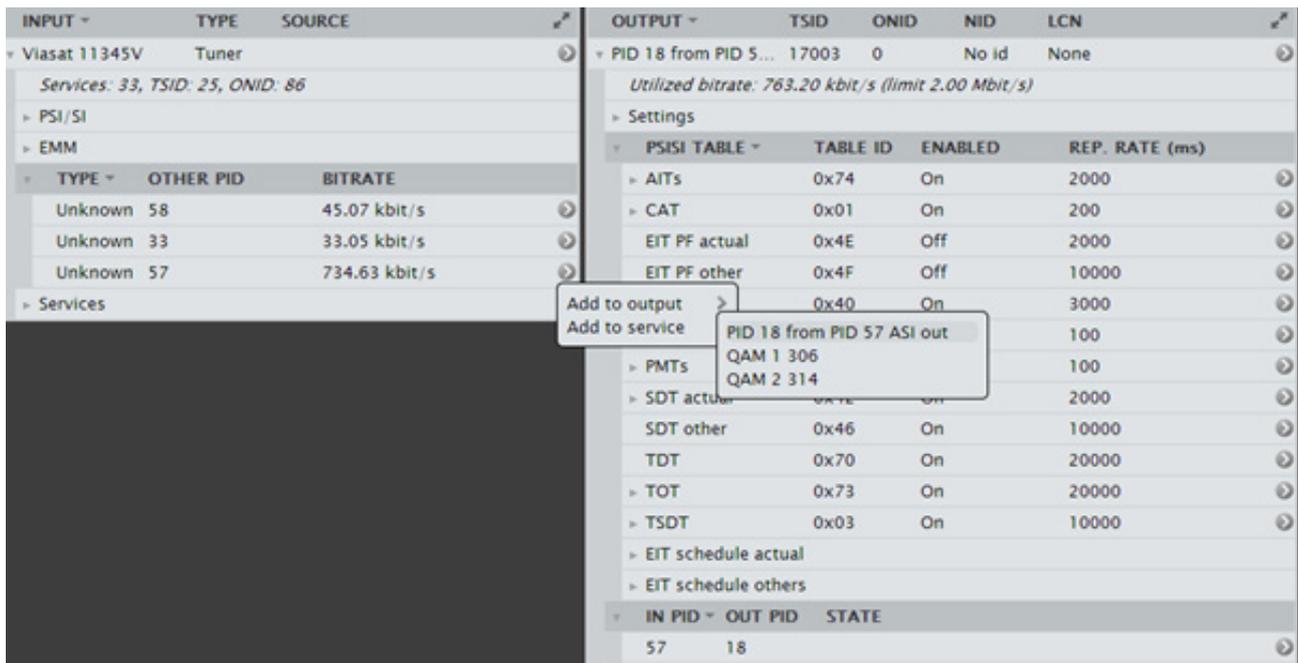
Settings for being able to get 7 days EIT (EPG) in Chameleon for Viasat channels.

1. All Chameleons in the installation must have FW version 2.1.1 or later and sw option GNSYMUX must be uploaded. Every Chameleon must be added into same Group in Headend System Management and have same ONID, NID for all created outputs (QAM or COFDM) and different TSID's. In one Chameleon that are used for receiving programs from Viasat there must also be the sw option GNDASI and the BNC connectors must be available (not used for other purposes).

NOTE! One must use only Viasat services in this QAM/COFDM output.

2. The 7 days EIT is transmitted on PID 57 on all Viasat satellite transponders with HD content and one of them must be received in one of the Chameleon in the network (headend). To be able to get the EPG one must create an ASI loop in the Chameleon unit to get the EIT work for 7 days EIT (EPG).

3. Create an ASI out on BNC 1 and connect PID 57 to that ASI output in the Service management. Change PID number from 57 to 18. Also Disable all EIT's in this ASI output. Add services that shall be in the "Viasat" QAM output.



The screenshot displays the Chameleon service management interface. On the left, the 'INPUT' section shows a 'Viasat 11345V Tuner' with services 33, 57, and 58. On the right, the 'OUTPUT' section shows 'PID 18 from PID 57 ASI out' with a utilized bitrate of 763.20 kbit/s. A table lists various PSI/SI tables and their settings:

PSI/SI TABLE	TABLE ID	ENABLED	REP. RATE (ms)
AITs	0x74	On	2000
CAT	0x01	On	200
EIT PF actual	0x4E	Off	2000
EIT PF other	0x4F	Off	10000
	0x40	On	3000
PMTs			100
SDT actual		On	2000
SDT other	0x46	On	10000
TDT	0x70	On	20000
TOT	0x73	On	20000
TSDT	0x03	On	10000
EIT schedule actual			
EIT schedule others			

At the bottom, an 'IN PID - OUT PID STATE' table shows the mapping:

IN PID	OUT PID	STATE
57	18	

A context menu is visible over the output settings, with options 'Add to output' and 'Add to service'. The 'Add to service' option is selected, showing a list of services: 'PID 18 from PID 57 ASI out', 'QAM 1 306', and 'QAM 2 314'.

INPUT	TYPE	SOURCE	OUTPUT	TSID	ONID	NID	LCN
Viasat 11345V	Tuner		PID 18 from PID 5...	17003	0	No id	None
Services: 33, TSID: 25, ONID: 86			Utilized bitrate: 760.20 kbit/s (limit 2.00 Mbit/s)				
PSI/SI			Settings				
EMM			PSISI TABLE				
TYPE	OTHER PID	BITRATE	TABLE ID	ENABLED	REP. RATE (ms)		
Unknown	58	45.07 kbit/s	AITs	0x74	On	2000	
Unknown	33	31.55 kbit/s	CAT	0x01	On	200	
Unknown	57	733.15 kbit/s	EIT PF actual	0x4E	Off	2000	
			EIT PF other	0x4F	Off	10000	
			NIT actual	0x40	On	3000	
			PAT	0x00	On	100	
			PMTs	0x02	On	100	
			SDT actual	0x42	On	2000	
			SDT other	0x46	On	10000	
			TDT	0x70	On	20000	
			TOT	0x73	On	20000	
			TSDT	0x03	On	10000	
			EIT ACTUAL SCH				
			TABLE ID	ENABLED	REP. RATE (ms)		
			0-3 days	0x50	Off	10000	
			4-7 days	0x51	Off	10000	
			8-11 days	0x52	Off	30000	

4. Create an ASI input on BNC 2 and connect to the BNC 1 with a ASI loop cable. Go into Service management menu and Add services into the QAM output. Make sure that EIT actual p/f, EIT other p/f are enabled and that EIT actual schedule and EIT other schedule are enabled for 0-3 days and for 4-7 days in the Viasat QAM/COFDM output.

Inputs				Services				Outputs				Services						
INPUT	TYPE	SOURCE		OUTPUT	TSID	ONID	NID	LCN		TSID	ONID	NID	LCN		TSID	ONID	NID	LCN
ASI Viasat EPG in	BNC			PID 18 from PID...	17003	0	No id	None		QAM 1 306	306	41001	41001	Nordig				
Services: 2, TSID: 17003, ONID: 0				Utilized bitrate: 19.59 Mbit/s (limit 50.69 Mbit/s)														
PSI/SI				Settings					PSISI TABLE									
EMM									TABLE ID				ENABLED					
SERVICE	SID	TYPE	STATUS	TABLE ID	REP. RATE (ms)													
TV2 HD Lorry	1730			AITs	0x74	On	2000											
TV3 SPORT 1 HD	1720			CAT	0x01	On	200											
				EIT PF actual	0x4E	On	2000											
				EIT PF other	0x4F	On	10000											
				NIT actual	0x40	On	3000											
				PAT	0x00	On	100											
				PMTs	0x02	On	100											
				SDT actual	0x42	On	2000											
				SDT other	0x46	On	10000											
				TDT	0x70	On	20000											
				TOT	0x73	On	20000											
				TSDT	0x03	On	10000											
				EIT schedule actual														
				EIT schedule others														
EMM									SERVICE				PROVIDER					
				SID	LCN	HD LCN												
				TV2 HD Lorry	1730	Not set	Not set											
				TV3 SPORT 1 HD	1720	Not set	Not set											

5. In all Chameleons in the headend (network) must the EIT p/f actual, EIT p/f other, EIT actual schedule and EIT other schedule be enabled for 0-3 days and for 4-7 days. See below.

TYPE	PSI/SI PID	BITRATE
CAT	1	3.00 kbit/s
EIT	18	6.00 Mbit/s
NIT	16	14.02 kbit/s
PAT	0	7.51 kbit/s
PMT	265	7.51 kbit/s
PMT	257	7.51 kbit/s
PMT	386	7.51 kbit/s
PMT	658	7.51 kbit/s
PMT	285	7.51 kbit/s
PMT	228	7.51 kbit/s
PMT	270	7.51 kbit/s
PMT	268	7.51 kbit/s
PMT	264	7.51 kbit/s
PMT	263	7.51 kbit/s
PMT	258	7.51 kbit/s
PMT	262	7.51 kbit/s

PSISI TABLE	TABLE ID	ENABLED	REP. RATE (ms)
AITs	0x74	On	2000
CAT	0x01	On	200
EIT PF actual	0x4E	On	2000
EIT PF other	0x4F	On	10000
NIT actual	0x10	On	3000
PAT	0x00	On	100
PMTs	0x02	On	100
SDT actual	0x42	On	2000
SDT other	0x46	On	10000
TDT	0x70	On	20000
TOT	0x73	On	20000
TSDT	0x03	On	10000

EIT ACTUAL SCH	TABLE ID	ENABLED	REP. RATE (ms)
0-3 days	0x50	On	10000
4-7 days	0x51	On	10000
8-11 days	0x52	Off	30000

EIT OTHER SCH	TABLE ID	ENABLED	REP. RATE (ms)
0-3 days	0x60	On	10000
4-7 days	0x61	On	10000
8-11 days	0x62	Off	30000
12-15 days	0x63	Off	30000

6. Under "Settings" in the Output one must also write a Network name.

SETTING	VALUE
TSID	306
ONID	41001
Network ID	41001
Network name	QAM headend
LCN	Nordig

! NOTE! It can take some minutes before all 7 days EIT (EPG) are uploaded into STB's or TV Set's.

! NOTE! Due to the way Viasat is signalling the Info button might not work on some STB's and TV set's but EPG/Guide button does work!