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FlySat

Astra 1KR/1L/1M/1N @ 19.2° East TV Channels

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Txp No Source Date	Freq Pol Mode	SR-FEC	Provider Name Channel Name	web FTA Live	V.PID	A.PID Language	SID Encryption ONID-TID	FootPrints EIRP(dBW)	Comments
49 Hendrik satmaat Tururu D.Shimoni 21.12.2017	10714 H DVB-S2/8PSK MPEG-2 MPEG-4	22000 2/3	Beta Digital				1-1049	1KR	
			Main TV HD (01-02 & 03-04 & 07-08 & 09-10 & 13-14 & 15-16 & 19-20 & 21-22)	W F	2010	2011 Ger	5900 MPEG-4/HD		
			TV Touring Mainfranken/Würzburg HD (00-01 & 04-05 & 06-07 & 10-11 & 12-13 & 16-17 & 18-19 & 22-23)	W F	2010	2011 Ger	MPEG-4/HD		
			TV Touring Main-Rhön/Schweinfurt (02-03 & 05-06 & 08-09 & 11-12 & 14-15 & 17-18 & 20-21 & 23-00)	W F	2010	2011 Ger	5900		
			Franken Fernsehen HD	W F	1020	2021 Ger	5901 MPEG-4/HD		
			TVA Ostbayern HD	W F	2030	2031 Ger	5902 MPEG-4/HD		
			TV Oberfranken HD	W F	2040	2041 Ger	5903 MPEG-4/HD		
			Niederbayern HD	F	2050	2051 Ger	5904 MPEG-4/HD		
50 Tururu G.Abdelhamid M.Ahmed 12.08.2019	10729 V DVB-S2/8PSK MPEG-4	22000 2/3	Movistar+ AXN España HD - M. Comedia HD - M. LaLiga 2 HD Alquiler HD - Alquiler HD 2 TVE La 1 Madrid HD - LaLiga TV Bar HD Movistar Liga de Campeones HD 1/2	W			Nagravision3 1-1050	1KR	
51 Hendrik 30.09.2016	10744 H DVB-S/MPEG-2	22000 5/6	ARD Digital	W			1-1051	1M Europe	
			Tagesschau 24	W F	101	102 Ger	28721		
			One (ARD)	W F	201	202 Ger 203 Org 206 Ger	28722		
			Arte Deutsch	W F	401	402 Ger 403 Fre 407 Fre 408 Fre	28724		
			Phoenix	W F	501	502 Ger 503 Org	28725		
52 Tururu Hendrik 20.12.2017	10758 V DVB-S/MPEG-2	22000 5/6	Movistar+ Divinity - Fox News Channel - Baby TV Europe Boing Spain - Energy - Barça TV - MTV España Gol - M. Formula 1 - Eurosport 1 España M. Disney	W			Mediaguard2 Nagravision2 Nagravision3 1-1052	1M Europe	
53 Hendrik	10773 H DVB-S2/8PSK	22000 3/4	HD+ Comedy Central HD Welt HD Deutschland	W			IrdeTo2 Nagravision3 VideoGuard 1-1053	1KR	
					255	259 Ger	21100		
			Anixe HD Serie	W F			MPEG-4/HD		
			QVC Deutschland HD	W F	1023	1027 Ger	21103 MPEG-4/HD		

Tururu 01.03.2019	MPEG-4		HSE 24 HD	W F	1279	1283 Ger	MPEG-4/HD 21104		
			SES 75 (HD+ Info Card)		2815	Ger	21111		
			Sophia TV	W F	3071	3072 Ger	21112		
			Genius Plus TV	W F	3327	3328 Ger	21113		
54 Tururu 22.08.2019	10788 V DVB-S/MPEG-2	22000 5/6	Movistar+ Alquiler 1/2/** - MultiDeporte M. Series - Mezzo - Canal Orbe 21 Sundance TV España - Nick Jr. España MultiFútbol 9 - M. LaLiga 3/4/8 LaLiga TV Bar 2 - LaLiga 123 TV M4 Movistar Liga de Campeones 1/6 M. Deportes 6/7	W			Mediaguard2 Nagravision3 1-1054	1M Europe	
55 Hendrik 08.02.2018	10803 H DVB-S2/8PSK MPEG-4	22000 3/4	BetaDigital				1-1055	1KR	
			Disney Channel Deutschland HD	W F	255	259 Ger	MPEG-4/HD Nagravision3 VideoGuard 5500		
			HSE 24 Extra HD	W F	511	515 Ger	MPEG-4/HD 5501		
			1-2-3.TV HD	W F	767	771 Ger	MPEG-4/HD 5502		
			Deluxe Music HD	W	1023	1027 Ger	MPEG-4/HD Nagravision3 VideoGuard 5503		
			QVC 2 Deutschland HD	W F	1279	1283 Ger	MPEG-4/HD 5504		
			Sport 1 HD Deutschland	W	1535	1539 Ger	MPEG-4/HD Nagravision3 VideoGuard 5505		
			Disney Channel Austria HD	W F	255	259 Ger	MPEG-4/HD Irdeto2 VideoGuard 5510		
			Deluxe Music HD Austria	W	1023	1027 Ger	MPEG-4/HD Irdeto2 Viaccess5.0 VideoGuard 5513		
56 Tururu G.Abelhamid 12.08.2019	10818 V DVB-S2/8PSK MPEG-4	22000 2/3	Movistar+ M. LaLiga HD - M. LaLiga 1 HD M. Acción HD - M. Drama HD Fox España HD - Hollywood HD	W			Nagravision3 1-1056	1M Europe	
57 G.Fawaz 01.04.2014	10832 H DVB-S2/8PSK MPEG-4	22000 2/3	HD+ RTL HD Deutschland - Vox HD Deutschland N-TV HD - RTL 2 HD Deutschland	W			Nagravision3 VideoGuard 1-1057	1KR	
58 Hendrik 15.09.2019	10847 V DVB-S/MPEG-2	22000 5/6	Movistar+	W			1-1058	1M Europe	LTC left
			Bajo Demanda	W	163	400 Spa	30110		
59 Hendrik 05.10.2019	10862 H DVB-S2/8PSK	23500 2/3	test carrier					1KR	
60 Tururu G.Abelhamid 12.08.2019	10876 V DVB-S/MPEG-2	22000 5/6	Movistar+ M. Golf - Odisea - PTV Iberia National Geographic España - #Vamos Bar M. Deportes 1 HD - M. LaLiga - Calle 13 Canal Decasa - Syfy Universal España	W			Mediaguard2 Nagravision3 1-1060	1M Europe	M. LaLiga on beIN LaLiga left
61 Nicolas A. Vintaj D.Shimoni 20.03.2014	10891 H DVB-S2/8PSK MPEG-4	22000 2/3	ARD Digital	W			1-1061	1M Europe	
			RBB Brandenburg HD	W F	5311	5312 Ger 5313 mis 5316 Ger	10350 MPEG-4/HD		
			RBB Berlin HD	W F	5311	5312 Ger 5313 mis 5316 Ger	10351 MPEG-4/HD		
			MDR Fernsehen Sachsen HD	W F	5331	5332 Ger 5333 mis 5336 Ger	10352 MPEG-4/HD		
			MDR Fernsehen Sachsen-Anhalt HD	W F	5331	5332 Ger 5333 mis 5336 Ger	10353 MPEG-4/HD		
			MDR Fernsehen Thüringen HD	W F	5331	5332 Ger 5333 mis 5336 Ger	10354 MPEG-4/HD		
			HR Fernsehen HD	W F	5351	5352 Ger 5353 mis 5356 Ger	10355 MPEG-4/HD		

62 Tururu 15.07.2019	10906 V DVB-S2/8PSK MPEG-4	22000 2/3	Movistar+ M. Formula 1 HD - M. Deportes 1 HD Antena 3 HD - Cuatro HD - Telecinco HD La Sexta HD - AMC España HD	W			Nagravision3 1-1062	1KR	
63 Hendrik 01.08.2019	10921 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 7/8	SES Astra	W			133-15	1KR	MediaShop Meine Einkaufswelt on
			Genius Family	W F	255	256 Ger	33		
			Zee One Deutschland	W F	511	512 Ger	35		
			Sky Sport News Deutschland	W F	767	768 Ger	37		
			HGTV Deutschland	W F	1023	1024 Ger	38		
			MediaShop-Meine Einkaufswelt	W F	1279	1280 Ger	39		
64 Hendrik 20.09.2016	10936 V DVB-S2/8PSK MPEG-4	22000 2/3	Movistar+ Mezzo Live HD - Calle 13 Universal HD M. Deportes 1 HD - Nickelodeon España HD National Geographic España HD M. Toros HD - Eurosport 1 España HD	W			Nagravision3 1-1064	1M Europe	
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33 Hendrik 05.06.2018	10964 H DVB-S2/8PSK MPEG-4	22000 2/3	SES Astra	W			1-1033	1L	Handystar TV HD on Sparhandy TV HD left
			TLC HD Deutschland	W	255	259 Ger	10100 MPEG-4/HD Nagravision3 VideoGuard		
			Zee One HD Deutschland	W F	511	515 Ger	10101 MPEG-4/HD		
			Handystar TV HD	W F	767	771 Ger	10102 MPEG-4/HD		
			MTV HD Deutschland	W	1023	1027 Ger	10103 MPEG-4/HD Nagravision3		
			Channel 21 HD	W F	1279	1283 Ger	10104 MPEG-4/HD		
			QVC Style HD	W F	1535	1539 Ger	10105 MPEG-4/HD		
			TLC HD Austria	W	255	259 Ger	10110 MPEG-4/HD VideoGuard		
			MTV HD Austria	W	1023	1027 Ger	10113 MPEG-4/HD Irdeto2		
34 Hendrik 30.08.2018	10979 V DVB-S/MPEG-2	22000 5/6	Movistar+ Factoria de Ficción - Clan TVE - La Sexta TVE La 1 Madrid - Canal Hollywood España TVE La 2 - Telecinco - Cuatro - TNT España M.CineDoc&Roll - Nat Geo Wild España	W			Mediaguard2 Nagravision3 1-1034	1L	
35 Hendrik Ranja 12.12.2017	10995 H DVB-S2/8PSK HEVC	22000 5/6	SES Astra	W			1-1035	1L	
			SES UHD Demo Channel	W F	511	515 Eng	1 HEVC/4K/UHD		
			UHD1 by ASTRA / HD+ (8.00 - 20.00)	W F	101	102 Ger	2 HEVC/4K/UHD		
			UHD1 by ASTRA / HD+ (20.00 - 8.00)	W	101	102 Ger	2 HEVC/4K/UHD Nagravision		
			TravelXP 4K	W	767	768 Ger	6202 HEVC/4K/UHD Nagravision VideoGuard		
36 Eheimz 14.01.2018	11009 V DVB-S2X/QPSK HEVC							1L	Dolby Labs Test Stream left
37 F.Schenk Hendrik Tururu 06.05.2019	11023 H DVB-S2/8PSK HEVC	23500 3/4	test carrier					1L	NRJ Pole UHD HD+ left
38 Tururu 22.08.2019	11038 V DVB-S/MPEG-2	22000 5/6	Movistar+ M. Estrenos - Disney Channel España TCM España - Comedy Central España - Viajar M. Seriesmania - Tele Deporte - Canal Cocina AMC España - POP - LaLiga TV Bar 1	W			Mediaguard2 Nagravision3 1-1038	1L	LaLiga TV Bar 1 on
39 Hendrik Dr Feeds Tururu Chadli_sat 07.01.2019	11053 H DVB-S2/8PSK MPEG-4	22000 2/3	ARD Digital	W			1-1039	1L	
			Tagesschau 24 HD	W F	5401	5402 Ger 5406 Ger	10375 MPEG-4/HD		
			One HD (ARD)	W F	5411	5412 Ger 5413 mis	10376 MPEG-4/HD		
			ARD Alpha HD	W F	5421	5416 Ger 5422 Ger 5423 mis 5426 Ger	10377 MPEG-4/HD		
			SR Fernsehen HD	W F	5431	5432 Ger 5433 mis 5436 Ger	10378 MPEG-4/HD		
			Radio Bremen TV HD	W	5441	5442 Ger	10379		

40 Hendrik 14.10.2019	11068 V DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	TSA	W			1-1040	1L	Télé Maroc left
			RT Español	W F	1450	1550 Spa	1150		
			TV Record	W	33	32 Por	31301		
			Telesur	W F	2101	2102 Spa	31304		
			TBN España	W F	8002	8102 Spa	31305		
			Galicia TV Europa	W F	1701	1702 Gal	31306		
			I24 News (French)	W F	1081	1082 Fre	31307		
41 Hendrik 24.07.2018	11082 H DVB-S2/8PSK MPEG-4	22000 3/4	CBC				1-1041	1N Europe	
			RTL HD Österreich	W	100	110 Ger	11911 MPEG-4/HD Irdeto2 Viaccess5.0 VideoGuard		
			Vox Österreich HD	W	200	210 Ger	11921 MPEG-4/HD Irdeto2 Viaccess5.0 VideoGuard		
			Super RTL HD Deutschland	W	300	310 Ger	11931 MPEG-4/HD Nagravision3 VideoGuard		
			RTL 2 HD Österreich	W	400	410 Ger	11941 MPEG-4/HD Irdeto2 Viaccess5.0 VideoGuard		
			Nitro Deutschland HD	W	500	510 Ger	11951 MPEG-4/HD Nagravision3 VideoGuard		
42 Tururu 22.08.2019	11097 V DVB-S/MPEG-2	22000 5/6	Movistar+ Alquiler 3-5-6-8-*.** - #Vamos Bar 1 M. Deportes 2/3/4/5 - LaLiga TV Bar 3/4 MultiFútbol 6 - Movistar Liga de Campeones M. LaLiga 1/2/5/6/7/9/10 - M. Toros Movistar Liga de Campeones 3/4/5/7	W			Mediaguard2 Nagravision3 65280-1042	1L	
43 Hendrik 18.11.2019	11112 H DVB-S2/8PSK MPEG-4 HEVC	22000 2/3	SES Astra	W			1-1043	1L	Fashion 4K encrypted now
			Sat.1 Gold HD	W	255	259 Ger	12500 MPEG-4/HD Nagravision3 VideoGuard		
			Eurosport 1 HD Deutschland	W	767	771 Ger	12502 MPEG-4/HD Nagravision3 VideoGuard		
			Eurosport 2 HD Xtra	W	1023	1027 Ger	12503 MPEG-4/HD Nagravision3		
			Fashion 4K	W	2815	2816	12510 HEVC/4K/UHD Conax Irdeto Nagravision Viaccess		
			Sat.1 Gold HD Austria	W	255	259 Ger	12520 MPEG-4/HD Viaccess5.0 VideoGuard		
			Eurosport 1 HD Austria	W	767	771 Ger	12522 MPEG-4/HD Viaccess5.0		
44 Hendrik 01.06.2016	11127 V DVB-S2/8PSK MPEG-4	22000 2/3	Movistar+ TNT HD - Nat Geo Wild Spain HD Disney Channel España HD - TCM HD - 0 HD Caza y Pesca HD - M. Series HD	W			Nagravision3 1-44	1KR	
45 Hendrik 15.06.2017	11141 H DVB-S/MPEG-2 DVB-S/MPEG-4							1KR	All Promo Channels left
46 Tururu 15.07.2019	11156 V DVB-S/MPEG-2	22000 5/6	Movistar+ Blaze - Disney XD España - M. Deportes 1 Caza y Pesca - Canal de Historia - Crimen+Inves Cosmopolitan TV - Canal 24 Horas - M. Cine Español Discovery Channel España - Nickelodeon España	W			Mediaguard2 Nagravision3 1-1046	1KR	M. Wimbledon left M. Deportes 1 back on
			Canal Sur Andalucía	W F	166	104 Spa	30505		
47 William-1 Tururu Hendrik 28.08.2019	11171 H DVB-S2/8PSK MPEG-4	22000 3/4	Sky Deutschland Universal TV HD - Sky Cinema Action HD - TNT Serie HD DAZN 1 HD - Sky Sport Austria 1 HD Sky Sport Bundesliga 9 HD - Jukebox Eurosport 360 HD 4	W			VideoGuard 133-9	1KR	CNBC Europe HD on
			CNBC Europe HD	W	2047	2051 Eng	125 MPEG-4/HD		
48 Hendrik 12.04.2019	11186 V DVB-S/MPEG-2	22000 5/6					1-1048	1L	
			TV TRWAM	W F	33	3606 Pol	4310		
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1 Hendrik 07.10.2019	11214 H DVB-S2/8PSK HEVC	22000 2/3	ORS				Irdeto	1KR	new
			RTL UHD Austria	W	4110	4111 Ger	1-1001 13410 HEVC/4K/UHD		
2	11229 V		SES Astra	W			1-1002		
			BBC World News Europe HD	W F	2091	2092 Eng	5001 MPEG-4/HD		
			Insight HD	W	255	62 Eng 256 Eng	5010 5011 MPEG-4/HD Irdeto2		

Hendrik Kalman2007 15.11.2017	11250 V DVB-S2/8PSK MPEG-4	22000 2/3				257 Ger 259 Eng	Nagravision3 Viaccess VideoGuard	1KR	
			NHK World Japan HD	W F	1760	1720 Eng 1722	5021 MPEG-4/HD		
			Al Jazeera English HD	W F	3101	3103 Eng	5031 MPEG-4/HD		
			Mont Blanc Live HD	F	101	201 Fre	5081 MPEG-4/HD		
3 Hendrik 02.05.2019	11244 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	ORF Digital ATV 2 - ORF Sport + - ATV HD	W			Betacrypt Cryptoworks Irdeto2 1-1003	1KR	Freenet Shopping left
			StarParadies Deutschland	F	2220	2221 Ger	13222		
			Bibel TV HD	W F	2240	2241 Ger	13224 MPEG-4/HD		
			Schau TV HD	W F	2250	2251 Ger	13225 MPEG-4/HD		
			StarParadies TV Österreich	W F	2260	2261 Ger	13226		
			Hope Channel Deutsch HD	W F	2270	2271 Ger	13227 MPEG-4/HD		
			RTL Plus Österreich	F	2290	2291 Ger	13229		
4 Hendrik 30.08.2018	11259 V DVB-S2/8PSK	22000 2/3	Movistar+ Fox Life HD España - Canal+ Golf HD M.Seriesmania HD - Cosmopolitan TV Europa HD Comedy Central España HD Movistar Liga de Campeones HD	W			Nagravision3 1-1004	1KR	
5 Hendrik 01.07.2019	11273 H DVB-S2/8PSK MPEG-4	22000 2/3	ORF Digital ORF2St HD - ORF2K HD - ORF2B HD ORF2O HD - ORF2S HD - ORF2T HD ORF2V HD - ORF III HD - ORF Sport + HD	W			Betacrypt Cryptoworks Irdeto2 1-1005	1KR	Schweiz 5 left
			Flimmit HD		3100		13310 MPEG-4/HD		
			Aristo TV	F	3110	3111 Ger	13311		
			R9 Österreich HD	W F	3120	3121 Ger	13312 MPEG-4/HD		
			oe24 TV HD	W F	3140	3141 Ger	13314 MPEG-4/HD		
			StarParadies TV Österreich	F	3150	3151 Ger	13315		
			GoTV	W F	3160	3161 Ger	13316		
			MelodieTV	W F	3170	3171 Ger	13317		
6 Hendrik G.Abdelhamid Eduard 03.12.2019	11288 V DVB-S2/8PSK MPEG-2 MPEG-4 HEVC	22000 2/3	SES Astra	W			1-1006	1L	D7 TV on
			RAI News 24	W F	520	690 Ita	4216		
			Deutschland Vozrozhdenie	W F	7686	7687 Ger	4225		
			QVC Deutschland UHD	W F	255	256 Ger	4230 HEVC/4K/UHD		
			D7 TV		4241	4242 Rus	4240		
7 Hendrik 01.03.2015	11303 H DVB-S2/8PSK	22000 2/3	ORF Digital ORF 1 HD - ORF2 W HD - ORF2 N HD	W			Betacrypt Cryptoworks Irdeto2 Nagravision3 VideoGuard 1-1007	1L	
			ServusTV HD Oesterreich	W F	3583	3584 Ger 3585 Eng 3586 Ger 3587 Ger	4913 MPEG-4/HD Cryptoworks Irdeto2 VideoGuard		
			ServusTV HD Deutschland	W F	4920	4921 Ger 4922 Eng 4923 Ger 4924 Ger	4914 MPEG-4/HD		
8 Hendrik 30.08.2018	11318 V DVB-S/MPEG-2	22000 5/6	Movistar+ Fox Life España - Nova - Canal Iberalia Disney Junior España - M. Acción - 0 Spain M. Comedia - M.Drama - Fox España AXN White España - AXN España	W			Mediaguard2 Nagravision3 1-1008	1KR	
9 Hendrik Tururu 25.03.2019	11332 H DVB-S2/QPSK	22000 3/4	test carrier					1KR	ESS package left
10 Hendrik E.Markham 30.04.2012	11347 V DVB-S2/8PSK	22000 2/3	ZDF Vision	W			1-1010	1KR	
			3 Sat HD	W F	6510	6520 Ger 6521 mis 6523 mul 6522 Ger	11150 MPEG-4/HD		
			KiKa HD (06-21)	W F	6610	6620 Ger 6622 Ger	11160 MPEG-4/HD		
			ZDFinfo HD	W F	6710	6720 Ger 6721 mis 6723 mul 6722 Ger	11170 MPEG-4/HD		
11 Hendrik 30.09.2016	11362 H DVB-S2/8PSK	22000 2/3	ZDF Vision	W			1-1011	1KR	
			ZDF HD	W F	6110	6120 Ger 6121 mis 6122 Ger 6123	11110 MPEG-4/HD		
			ZDF Neo HD	W F	6310	6320 Ger 6321 mis 6323 mul 6322 Ger	11130 MPEG-4/HD		
12 Hendrik Tururu 09.05.2018	11377 V DVB-S2/8PSK MPEG-4	22000 2/3	GlobeCast	W			1-1012	1L	
			Telesur HD	W F	1001	1002 Spa	6380 MPEG-4/HD		
			RT News HD	W F	1011	1012 Eng 1013 Eng	6381 MPEG-4/HD		
			RT Español HD	W F	1021	1022 Spa 1023 Spa	6382 MPEG-4/HD		

			RT France HD	W F	1031	1032 Fre	6383		
			Canal Extremadura Sat	W F	1041	1042 Spa	6384		
13 Hendrik 14.11.2018	11391 H DVB-S/MPEG-4 DVB-S/HEVC	22000 5/6					1-1013	1KR	
			RTL 2 Schweiz	W F	255	256 Ger	12400		
			RTL UHD	W	2815	2816 Ger	12410 HEVC/4K/UHD Nagravision3		
14 Hendrik 26.07.2019	11406 V DVB-S2/8PSK MPEG-4	22000 2/3	SES Astra	W			1-1014	1L	new
			SES Demo HD	W F	255	256 Ger	10200 MPEG-4/HD		
15 Hendrik 16.01.2019	11421 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	BetaDigital				1-1015	1KR	
			3+ HD	W	1279	1280 Ger	4704 MPEG-4/HD Viaccess		
			Die Neue Zeit TV	W F	3583	3584 Ger	4713		
			1 test card		5119	5120 Ger	4718 Nagravision VideoGuard		
			2 test card		5375	5376 Ger	4719 Nagravision VideoGuard		
			3		5631	5632 Ger	4720 Nagravision		
16 Marjanen 02.10.2018	11436 V DVB-S2/8PSK	22000 2/3	Movistar+ M.Estrenos HD - Syfy Universal España HD Viajar HD - M.CineDoc&Roll HD AXN White España HD - Vamos HD	W			Mediaguard2 Nagravision3 1-1016	1KR	
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17 Hendrik 09.02.2017	11464 H DVB-S2/8PSK MPEG-4	22000 2/3	HD+ Sat.1 HD Deutschland - Sixx HD Deutschland ProSieben HD Deutschland Kabel eins HD Deutschland Kabel eins HD Austria ProSieben MAXX HD Deutschland ProSieben MAXX HD Austria - Sixx HD Austria	W			Nagravision3 Viaccess5.0 VideoGuard 1-1017	1N Europe	
18 Hendrik 01.01.2016	11479 V DVB-S2/8PSK HEVC							1L	Canal+ UHD left
19 D.Shimoni 11.03.2014	11494 H DVB-S2/8PSK MPEG-4	22000 2/3	ARD Digital	W			1-1019	1N Europe	
			Das Erste HD	W F	5101	5102 Ger 5103 mis 5106 Ger	10301 MPEG-4/HD		
			ARTE Deutsch HD	W F	5111	5112 Ger 5113 Fre 5116 Ger	10302 MPEG-4/HD		
			Südwest Fernsehen Baden-Württemberg HD	W F	5121	5122 Ger 5123 mis 5126 Ger	10303 MPEG-4/HD		
			Sudwest Fernsehen Rheinland-Pfalz HD	W F	5131	5132 Ger 5133 mis 5136 Ger	10304 MPEG-4/HD		
20 Hendrik 15.07.2019	11509 V DVB-S/MPEG-2	22000 5/6	GlobeCast España	W			1-1020	1L	RT Español left
			Cubavision Internacional	W	708	728 Spa	7008		
			Al Jazeera Channel	W F	709	729 Ara	7009		
			Arirang World	W F	711	731 Kor	7011		
21 Hendrik 08.11.2019	11523 H DVB-S/MPEG-2							1KR	All info cards left
22 Hendrik 11.01.2017	11538 V DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	GlobeCast	W			1-1022	1L	
			RT English	W F	604	624 Eng	6904		
			France 24 Français	W F	605	625 Fre	6905		
			France 24 English	W F	606	626 Eng	6906		
			France 24 Arabic	W F	610	630 Ara	6910		
			CGTN Documentary	W F	612	632 Eng	6912		
			CGTN Français	W F	613	633 Fre	6913		
			CGTN	W F	614	634 Eng	6914		
			TV 5 Monde Europe	W F	615	635 Fre	6915 6925		
			TRT World HD	W F	618	638 Eng	6918 MPEG-4/HD		
23 Hendrik Tururu 01.07.2019	11553 H DVB-S2/8PSK MPEG-4	22000 2/3	Beta Digital				1-1023	1L	
			Augsburg TV HD	F	1010	1011 Ger	5800 MPEG-4/HD		
			München TV HD	W F	1020	1021 Ger	5801 MPEG-4/HD		
			RFO HD (18-24)		1030	1031 Ger	5802		
			TV Allgäu HD (18-24)	W F	1040	1041 Ger	5803 MPEG-4/HD		
			TV Ingolstadt HD (18-24)	W F	1050	1052 Ger	5804 MPEG-4/HD		
			Lokal TV Portal HD		1060	Ger	5805 MPEG-4/HD		
			BB-MV-Lokal TV	W F	1070	1072 Ger	5806		
			Kartina Satellite	W			Verimatrix 1-1024		
			REN TV International	W	1006	1007 Rus	6701 HEVC		
			5 Kanal International	W	1010	1011 Rus	6702 HEVC		

24 Hendrik 27.11.2019	11568 V DVB-S2/8PSK MPEG-4 HEVC	23000 3/4	Domashnij Telekanal International	W	1012	1013 Rus	6703 HEVC	1N Europe	Soyuz on Spas left
			Mult	W	1018	1019 Rus	6704 HEVC		
			STS International	W	1004	1005 Rus	6705 HEVC		
			TV Centr International	W	1002	1003 Rus	6706 HEVC		
			Dozhd	W	1032	1033 Rus	6707 MPEG-4		
			Peretz International	W	1014	1015 Rus	6708 HEVC		
			Centralnoe TV		1008	1009 Rus	6709 HEVC		
			Shanson TV International	W	1020	1021 Rus	6710 HEVC		
			Izvestiya TV	W	1000	1001 Rus	6711 HEVC		
			Mir Seriala	W	1026	1027 Rus	6712 HEVC		
			Lyubimoe Kino	W	1028	1029 Rus	6713 HEVC		
			Rybalka i Ohota International	W	1022	1023 Rus	6714 HEVC		
			5 Kanal Ukraine	W	1034	1034 Ukr	6715 HEVC		
			Inter+	W	1036	1037 Ukr	6716 HEVC		
			360° International	W	1030	1031 Rus	6717 HEVC		
			1HD Music Television	W	1038	1039 Rus	6718 HEVC		
			Detskiy Mir	W	1016	1017 Rus	6719 HEVC		
			Moya Planeta HD (SD)	W	33	34 Rus	6720 HEVC		
			Trofey	W	1024	1025 Ukr	6723 HEVC		
			RT Doc	W	1040	1041 Rus	6724 HEVC		
			Ukraine 1		481	482 Rus	6725 HEVC		
			Ukraine 2		1042	1043 Rus	6726 HEVC		
			RTVi Archive		1044	1045 Rus	6727 HEVC		
			Mir 24	W	1046	1047 Rus	6728 HEVC		
			Russian Music Box	W	1042	1043 Rus	6729 HEVC		
			1+1 International	W	1050	1051 Ukr	6730 HEVC		
			Soyuz	W	1052	1053 Rus	6731 HEVC		
25 G.Fawaz P.Piotrowski Hendrik D.Shimoni E.Markham 30.04.2012	11582 H DVB-S2/8PSK	22000 2/3	ARD Digital	W			1-1025	1N Europe	
			Bayerisches Fernsehen Süd HD	W F	5201	5202 Ger 5203 mis 5206 Ger	10325 MPEG-4/HD		
			Bayerisches Fernsehen Nord HD	W F	5201	5202 Ger 5203 mis 5206 Ger	10326 MPEG-4/HD		
			NDR Fernsehen Niedersachsen HD	W F	5221	5222 Ger 5223 mis 5226 Ger	10327 MPEG-4/HD		
			NDR Fernsehen Mecklenburg-Vorpommern HD	W F	5221	5222 Ger 5223 mis 5226 Ger	10328 MPEG-4/HD		
			NDR Fernsehen Hamburg	W F	5221	5222 Ger 5223 mis 5226 Ger	10329 MPEG-4/HD		
			NDR Fernsehen Schleswig-Holstein HD	W F	5221	5222 Ger 5223 mis 5226 Ger	10330 MPEG-4/HD		
			Phoenix HD	W F	5261	5262 Ger 5263 mul	10331 MPEG-4/HD		
26 Hendrik Tururu 09.04.2019	11597 V DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	SES Astra	W			1-1026	1L	
			CNBC Europe	W	307	308 Eng	10030		
			Bloomberg TV Europe	W	1360	1320 Eng	10067		
			SBN International	W	1051	1052 Eng 1053 Spa	10080		
			Algeria 3 (Thalitha TV)	W F	514	670 Ara	10082		
			Canal Algérie	W F	515	680 Ara	10083		
27 Hendrik 18.10.2019	11612 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	SES Astra	W			1-1027	1M Widebeam	Yol TV HD again back
			Yol TV HD	W F	1021	1022 Tur	5130 MPEG-4/HD		
			TBN Rossiya Juvelirochka	W F	2017 200	3017 Rus 300 Rus	5143 5145		
			8 Kanal International Russia	W F	611	631 Rus	5147		
			TV Rus	W F	255	256 Rus	5601		
28 Hendrik Tururu 15.12.2017	11627 V DVB-S/MPEG-2	22000 5/6	RTVE	W			1-1028	1M Widebeam	
			Al Jazeera English	W F	3505	3625 Eng			
			TVE Internacional Europa	W F	3521	3522 Spa 3527 Org	4401		
			Canal 24 Horas	W F	3569	3570 Spa 3571 Org	4402		
			CNN International Europe	W	165	100 Eng	4422		
			DW English	W F	529	785 Eng	4430		
29	11631 H							1M	Twój Telewizor

Tururu Hendrik 02.01.2017	11641 H DVB-S/MPEG-2							1N Europe	Telekanal info card left
30 Hendrik G.Abdelhamid 31.10.2019	11656 V DVB-S2/8PSK MPEG-4	22000 2/3					1-1030	1N Europe	Edge Sport HD on
			Sportdigital Fussball HD	W	255	256 Ger 257 Eng	4500 MPEG-4/HD Cryptoworks Irdeto Mediaguard Nagravision3 Viaccess		
			Sport1+ HD	W	511	512 Ger 513 Eng	4501 MPEG-4/HD Nagravision		
			Esport 1 HD	W	767	768 Ger 769 Eng	4502 MPEG-4/HD Nagravision		
			Edge Sport HD	W	1023	1024 Eng	4503 MPEG-4/HD Nagravision		
31 Martin.cz D.Shimoni 01.09.2019	11671 H DVB-S2/8PSK MPEG-2 MPEG-4	22000 2/3	HD Austria Sat.1 HD Austria - ProSieben HD Austria Sat.1 Emotions - Puls 4 HD Austria	W			Irdeto2 Viaccess5.0 VideoGuard 1-1031	1N Europe	Puls 24 HD Austria started
			Puls 24 HD Austria	W F	1279	1283 Ger	5304 MPEG-4/HD		
			Sat.1 Gold Austria	W F	2815	2816 Ger	5310		
			ProSieben MAXX Austria	W F	3071	3072 Ger	5311		
			Kabel eins Doku Austria	W F	3327	3328 Ger	5312		
Kabel Eins Classics	W	3839	3840 Ger	5314 Cryptoworks Irdeto2 Viaccess					
32 Hendrik 15.10.2019	11686 V DVB-S/MPEG-2	22000 5/6	Movistar+ Neox - Real Madrid TV Español - Antena 3 Canal Panda España - Comedy Central España Eurosport 2 España - M. Deportes 2 - Be MAD Classica - Vamos	W			Mediaguard2 Nagravision2 Nagravision3 1-1032	1KR	M. LaLiga 11 left
			Aragón TV Int	W F	160	80 Spa	30205		
© www.flysat.com/astra19.php									
65 Hendrik D.Shimoni G.Abdelhamid 01.10.2019	11720 H DVB-S2/QPSK MPEG-4	27500 9/10	Sky Deutschland Sky Cinema Summerfeeling - Sky Cinema Action Sky Hits Deutschland - Sky Select 1/2/5/6/7/8 Sky Sport Bundesliga 5/6/7/8 - Sky Select Event A Sky Sport 6/7/8/9 Deutschland Boomerang Deutschland - B-U TV HD Disney Junior HD Deutschland Sky Sport Austria 2 - Sky Sport Austria 4 Sky Sport 12/13 HD Deutschland	W			VideoGuard 133-3	1M Widebeam	
66 Hendrik 28.11.2019	11739 V DVB-S/MPEG-2 DVB-S/MPEG-4							1M Widebeam	Nickelodeon HD Nick Junior Global
67 Hendrik 07.10.2019	11758 H DVB-S2/QPSK MPEG-4	27500 9/10	Sky Deutschland Romance TV - Sky Cinema Hits Heimatkanal - Disney Junior Deutschland Select Adrenalin B - Eurosport 360 HD 6 Sky Sport Bundesliga 3/4/9 - Sky Select 3/4/9 Sky Sport 2/4/5/10 Deutschland Sky Cinema Family HD Deutschland Sky 1 HD Deutschland - Sky Sport Austria 1/3 Classica Deutschland - Junior - Kinowelt TV	W			VideoGuard 133-2	1M Widebeam	
68 Hendrik 27.09.2019	11778 V DVB-S2/8PSK HEVC	30000 9/10	test carrier					1M Widebeam	SES 8K left
69 Hendrik D.Shimoni 18.07.2019	11798 H DVB-S2/QPSK MPEG-4 HEVC	27500 9/10	Sky Deutschland Sky Sport Bundesliga UHD - Sky Sport UHD Sky Sport Bundesliga 8 HD - Sky Sport 9 HD Spiegel Geschichte HD - DAZN 2 HD Sky Sport Austria 3 HD - Eurosport 360 HD 8	W			VideoGuard 133-16	1M Widebeam	
70 Hendrik 16.07.2019	11817 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France BET France HD - MTV Hits HD France - 6ter HD MTV France HD - Histoire HD - P X HD OL TV HD - Multisports HD 1 Mezzo HD - Nickelodeon France HD Franceinfo: HD - RMC Sport 4 HD Trace Latina HD	W			NagravisionM Viaccess6.0 1-1070	1M Widebeam	
			ARD Digital	W			1-1101		

71 D.Shimoni 11.03.2014	11836 H DVB-S/MPEG-2	27500 3/4	Das Erste	W F	101	102 Ger 103 Ger 106 Ger	28106	1N Europe	
			Bayerisches Fernsehen Sat	W F	201	202 Ger 203 Ger 206 Ger	28107		
			HR Fernsehen	W F	301	302 Ger	28108		
			Bayrisches Fernsehen Nord	W F	501	502 Ger	28110		
			WDR Fernsehen Köln	W F	601	602 Ger	28111		
			Südwest Fernsehen Baden-Württemberg	W F	801	802 Ger 806 Ger	28113		
72 Hendrik 16.07.2019	11856 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France NRJ Hits HD - Sundance TV HD Nickelodeon +1 France HD - TFX HD beIN Sports HD 2/3 - TMC HD beIN Sports Max 4/5/6 HD - Mélody HD Viceland HD - RMC Découverte HD	W			NagravisionM Viaccess6.0 1-1072	1M Widebeam	Mélody HD on
			M6 Boutique La Chaîne HD	W F	610	631 Fre	8206 MPEG-4/HD		
73 Hendrik 28.03.2019	11876 H DVB-S2/8PSK	27500 3/4	test carrier					1N Europe	
74 Hendrik 01.10.2019	11895 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France A La Une HD - BFM TV HD beIN Sports Max 7/8/9/10 HD - RMC Story HD France Ô HD - ARTE Français HD - Gulli HD BFM Business HD - Polar+ HD - L'Équipe HD La Chaîne Météo HD	W			NagravisionM Viaccess6.0 1-1074	1M Widebeam	My Canal Info HD card left
75 Hendrik 17.07.2019	11914 H DVB-S2/8PSK MPEG-4	27500 9/10	Sky Deutschland Nat Geo Wild HD Deutschland - Sky Sport 1 HD Deutschland Sky Cinema HD - Discovery HD Deutschland Sky Sport 3 HD Deutschland Sky Sport Bundesliga 2 HD Sky Cinema +1 Deutschland Sky Cinema +24 Deutschland Eurosport 360 HD 7 Sky Sport Austria 2 HD	W			VideoGuard 133-6	1N Europe	Sky Sport Austria 2 HD on
76 Hendrik 16.07.2019	11934 V DVB-S2/8PSK MPEG-4 HEVC	29700 2/3	Canal+ France Événement UHD 4K - Multisports HD 2 RMC Sport 1 HD - Canal+ France HD Nickelodeon Junior France HD - Clique TV HD Disney Junior France HD	W			NagravisionM Viaccess6.0 1-1076	1M Widebeam	Elle Girl HD left
			Canal+ France promo HD	W	910	921 Fre	8909 MPEG-4/HD		
77 Hendrik 30.09.2016	11954 H DVB-S/MPEG-2	27500 3/4	ZDF Vision	W			1-1079	1N Europe	
			ZDF	W F	110	120 Ger 121 mis 122 mul 125 Ger	28006		
			3 Sat	W F	210	220 Ger 221 mis 222 mul 225 Ger	28007		
			KiKa (06-21)	W F	310	320 Ger 325 Ger	28008		
			ZDFinfo	W F	610	620 Ger 621 mis 622 mul 625 Ger	28011		
			ZDF Neo	W F	660	670 Ger 671 mis 672 mul 675 Ger	28014		
78 Hendrik 16.07.2019	11978 V DVB-S2/8PSK MPEG-4 HEVC	27500 3/4	MTV Networks	W			1-1078	1M Widebeam	Nickelodeon HD Nick Jr
			Nickelodeon HD	W	3011	3012 Tur 3013 Eng 3014 Rus 3015 Hrv	28651 MPEG-4/HD Cryptoworks Irdeto Mediaguard Nagravision Viaccess		
			VH1 Europe	W	3061	3062 Eng	28656 Conax Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess		
			VH1 Classic Europe	W	3071	3072 Eng	28657 Conax Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess		
			Nick Jr Europe	W	3111	3112 Ger 3113 Eng 3114 Fre 3117 Tur	28661 Cryptoworks Irdeto Mediaguard Nagravision Viaccess		
			Nick Jr Europe	W	3111	3113 Eng 3114 Fre 3116 Rus 3118 Swe 3119 Dan 3120 Nor 3121 Fin 3122 Dut 3128 Por	28662 Cryptoworks Irdeto Mediaguard Nagravision Viaccess		
			Nick Jr Europe	W	3111	3112 Ger 3113 Eng 3114 Fre 3122 Dut	28663 Cryptoworks Irdeto Mediaguard Nagravision Viaccess		

78 Hendrik 25.10.2019	11973 V DVB-S/MPEG-2 DVB-S/MPEG-4	27500 3/4					viaccess	1M Widebeam	nick jr Europe Nick Junior Global on
			Nick Junior Global	W	3111	3112 Ger 3113 Eng 3114 Fre 3116 Rus 3117 Tur 3118 Swe 3119 Dan 3120 Nor 3121 Fin 3122 Dut 3123 Hun 3124 Ara 3125 Rum 3126 Hrv 3127 Srp 3128 Por	28665 Cryptoworks Irdeto Mediaguard Nagravision Viaccess		
			Nick Jr Europe	W	3111	3113 Eng 3116 Rus 3123 Hun 3124 Ara 3125 Rum 3126 Hrv 3127 Srp 3129 Cze	28668 Cryptoworks Irdeto Mediaguard Nagravision Viaccess		
			MTV Music 24	W	4011	4012 Eng	28671 Conax Cryptoworks Mediaguard3 Nagravision3 Viaccess		
			Comedy Central Deutschland	W F	4061	4062 Ger	28676		
			Nick Jr Europe	W	3111	3113 Eng 3123 Hun 3126 Hrv 3127 Srp 3130 Slv	28677 Cryptoworks Irdeto Mediaguard Nagravision Viaccess		
			MTV Germany	W F	4081	4082 Ger 4083 Eng	28678		
			Nickelodeon Deutschland	W F	4101	4102 Ger 4103 Eng	28680		
			MTV+	W F	4101	4102 Ger 4103 Eng	28680		
79 Hendrik D.Shimoni G.Abdelhamid 01.10.2019	11992 H DVB-S2/QPSK MPEG-4	27500 9/10	Sky Deutschland Sky Cinema Special HD - Eurosport 360 HD 2 National Geographic Deutschland HD Sky Sport 2 HD Deutschland Sky Atlantic HD - 13th Street Deutschland HD Sky Sport 4 HD Deutschland Sky Sport Bundesliga 3 HD - Spiegel TV Wissen	W			VideoGuard 133-13	1M Widebeam	Sky Cinema Special HD on Disney Cinemagic HD left
80 Tururu ClubSat 15.05.2018	12012 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France Canal + France HD - Canal + Décalé HD - Canal + Cinéma HD Canal + Sport France HD - Canal+ Family HD Ciné + Frisson HD - Canal + Séries HD Ciné + Famiz HD - Ciné + Classic HD OCS City HD - OCS Max HD	W			NagravisionM Viaccess6.0 1-1080	1M Widebeam	
81 G.Abdelhamid 03.12.2019	12032 H DVB-S2/QPSK MPEG-4	27500 9/10	Sky Deutschland Sky Cinema - Sky Cinema Emotion Sky Sport Bundesliga 1 - TNT Film Sky Sport 1 Deutschland - Sky Krimi HD Sky Cinema Bud Spencer - Sky Cinema Family Eurosport 360 HD 5	W			VideoGuard 133-4	1N Europe	Sky Cinema Bud Spencer on
			Sky Select	W F	2559	2560 Ger	18		Junior Classica Kinowelt TV left
82 satkingdom 12.03.2014	12051 V DVB-S/MPEG-2	27500 3/4	Pro7Sat.1 Media	W			1-1082	1M Europe	
			Pro Sieben Schweiz	W F	289	290 Ger 292 Ger	20001		
			Pro Sieben Österreich	W F	161	84 Ger 84 Ger	20002		
			Kabel eins Schweiz	W F	162	163 Ger	20003		
			Kabel eins Österreich	W F	166	167 Ger	20004		
			Sat.1 Österreich	W F	800	801 Ger 801 Ger	20005		
			Sat.1 Schweiz	W F	1535	1536 Ger 1539 Ger	20006		
			Puls 4	W	1791	1792 Ger	20007 Betacrypt Cryptoworks Irdeto2 Nagravision3 VideoGuard		
			Sat. 1 Hamburg and Schleswig-Holstein (Mo-Fr 17.30-18.00)	W F	2047	2048 Ger 2051 Ger	20008		
			Sat. 1 Niedersachsen und Bremen (Mo-Fr 17.30-18.00)	W F	2303	2304 Ger 2307 Ger	20009		
			Sat. 1 Rheinland-Pfalz/Hessen (Mo-Fr 17.30-18.00)	W F	2559	2560 Ger 2563 Ger	20010		
83 Hendrik 26.03.2019	12070 H DVB-S2/QPSK	27500 9/10	test carrier					1N Europe	
84 Hendrik 27.11.2018	12090 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France Disney XD France HD - Disney Cinema France HD OCS Choc HD - TéléToon+1 HD Non Stop People HD - Eurosport 2 HD Planète + CI HD - MyZen TV HD Disney Channel France +1 HD - C*Im** TV HD TéléToon+ HD - CStar Hits France HD Trace Urban HD - Game One HD	W			NagravisionM Viaccess6.0 1-1084	1M Europe	
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			ADD Digital	W			1-1072		

85 satkingdom 20.03.2014	12110 H DVB-S/MPEG-2	27500 3/4	ARD Digital	W			1-1078	1M Europe	
			RBB Brandenburg (19:30-20:00)	W F	501	502 Ger	28205		
			RBB Berlin	W F	601	602 Ger	28206		
			NDR Fernsehen Mecklenburg-Vorpommern (18:00-18:15/19:30-20:00)	W F	2401	2402 Ger	28224		
			NDR Fernsehen Hamburg (18:00-18:15/19:30-20:00)	W F	2501	2502 Ger	28225		
			NDR Fernsehen Niedersachsen	W F	2601	2602 Ger	28226		
			NDR Fernsehen Schleswig-Holstein (18:00-18:15/19:30-20:00)	W F	2701	2702 Ger	28227		
			MDR Fernsehen Sachsen (19:00-18:30/Wed 21:15-21:45)	W F	2801	2802 Ger	28228		
			MDR Fernsehen Sachsen-Anhalt	W F	2901	2902 Ger	28229		
			MDR Fernsehen Thüringen (19:00-18:30/Wed 21:15-21:45)	W F	3001	3002 Ger	28230		
			Sudwest Fernsehen Rheinland-Pfalz	W F	3101	3102 Ger 3106 Ger	28231		
86 Hendrik 08.10.2019	12129 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France TCM Cinéma France HD - Planète+ A&E HD Golf+ France HD - Téva HD - Museum HD J-One HD - Cartoon Network France HD Toonami France HD - P HD Multisports 5 HD - Ciné+ Club HD Comedy Central France HD	W			NagravisionM Viaccess6.0 1-1086	1N Europe	Comedy Central HD encrypted now
			TV 5 Monde FBS HD	W F	1010	1021 Fre	9910 MPEG-4/HD		
87 Hendrik 10.09.2019	12148 H DVB-S/MPEG-2 DVB-S/MPEG-4	27500 3/4	MX1	W			133-7	1N Europe	God TV Europe left
			N24 Doku Austria	W F	255	256 Ger	53		
			Genius Exclusiv	W F	3071	3072 Ger	54		
			Comedy Central Austria	W F	1535	1536 Ger	60		
			Nick Austria	W F	1791	1792 Ger	61		
			Deluxe Music	W F	3327	3328 Ger 3331 Ger	65		
			TLC Austria	W F	511	512 Ger	71		
			DMAX Austria	W F	3583	3584 Ger	73		
			Immer etwas Neues TV	F	2303	2304 Ger	514		
			Pearl TV	W F	2047	2048 Ger	765		
			Channel 21	W F	1023	1024 Ger	769		
			MediaShop	W F	1279	1280 Ger	775		
88 Tururu ClubSat 15.05.2018	12168 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France Ciné + Premier HD - M6 HD - TF1 HD France 3 HD - W9 HD - Ushuaia TV HD France 2 HD - Ciné + Emotion HD beIN Sports HD 1 - Eurosport 1 HD	W			NagravisionM Viaccess6.0 1-1088	1N Europe	
			Barker Collectivités (Canal+ France promo HD)	W	1110	1121 Fre	9311 MPEG-4/HD		
89 Hendrik 10.10.2018	12188 H DVB-S/MPEG-2	27500 3/4	Mediengruppe RTL	W			1-1089	1L	
			RTL Deutschland	W F	163	104 Ger 106 Ger	12003		
			RTL West (Regional NRW 18:00-18:30)	W F	190	191 Ger	12004		
			RTL (Niedersachsen-Bremen 18:00-18:30)	W F	180	181 Ger	12005		
			RTL Bayern (Saturdays 17:45 to 18:45)	W F	200	201 Ger	12006		
			RTL HH SH (Hansestadt Hamburg/Schleswig Holstein 18:00-18:30)	W F	170	171 Ger	12009		
			RTL 2 Deutschland	W F	166	128 Ger	12020		
			Super RTL Deutschland	W F	165	120 Ger	12040		
			Vox Deutschland	W F	167	136 Ger	12060		
			Nitro Deutschland	W F	173	146 Ger	12061		
			RTLplus Deutschland	W F	168	137 Ger	12080		
			N-TV	W F	169	73 Ger	12090		
			Toggo Plus	F	301	303 Ger	12030		
90 Hendrik 27.11.2018	12207 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France Paris Première HD - France 5 HD - C8 HD National Geographic HD France Discovery Science HD - CStar HD Infosport+ HD - Boomerang France HD TF1 Séries Films HD - Boing France HD	W			NagravisionM Viaccess6.0 1-1090	1N Europe	
			LCI HD	W F	910	921 Fre	9009 MPEG-4/HD		
			CNews HD	W F	1410	1421 Fre	9014 MPEG-4/HD		
			LCP / Public Sénat HD	W F	1510	1521 Fre	9015 MPEG-4/HD		
91 Hendrik 27.11.2018	12226 H DVB-S/MPEG-2	27500 3/4					1-1091	1L	VOXup on Vox Schweiz RTL Schweiz left
			RTL Österreich	W F	201	202 Ger	28800		
			Vox Österreich	W F	301	302 Ger	28805		
			RTL 2 Österreich	W F	401	402 Ger	28810		
			Super RTL Österreich	W F	501	502 Ger	28815		
			VOXup	W F	601	602 Ger	28820		
			EuroSport 1 Deutschland	W F	101	103 Ger	31200		
			HSE 24 Extra	W F	512	660 Ger	31210		
			EuroNews Français	W F	2432	2435 Fre	31220		
			Canal+ France OCS Géants HD - PB HD - Voyage HD						

92 Hendrik 16.07.2019	12246 V DVB-S2/8PSK MPEG-4	29700 2/3	Paramount Channel France HD - Equidia HD Multisports 6 HD - Seasons HD - LTV HD Warner TV - Stingray Classica HD Festival de Cannes HD - Novelas TV HD RMC Sport 2 HD - RMC Sport News HD Foot+ 24/24 HD	W			NagravisionM Viaccess6.0 1-1092	1N Europe	
93 Hendrik 28.06.2014	12266 H DVB-S/MPEG-2	27500 3/4	ARD Digital	W			1-1093	1M Europe	
			SR Fernsehen	W F	1301	1302 Ger 1303 mis	28486		
			ARD Alpha	W F	1401	1402 Ger 1403 mis 1406 Ger	28487		
94 Chadli_sat 22.09.2015	12285 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France Automoto la chaîne HD - Animaux HD Science et Vie HD - XXL - Trek HD Toute l'Histoire - Action HD - AB 1 HD Mangas HD - RTL 9 HD - Chasse & Pêche	W			NagravisionM Viaccess6.0 1-1094	1N Europe	
95 Hendrik 14.10.2019	12304 H DVB-S2/QPSK MPEG-4	27500 9/10	Sky Deutschland Sky Sport Bundesliga 1 HD Sky Cinema Hits HD Syfy Deutschland HD - Sky Sport 5 HD Deutschland Sky Sport Bundesliga 4 HD - Eurosport 360 HD 3 Fox Deutschland HD - Sky Serien & Shows HD	W			VideoGuard 133-12	1N Europe	Sky Serien & Shows HD back on
			Sky Sport News HD Deutschland	W F	1023	1027 Ger	108 MPEG-4/HD		
96 Hendrik 27.11.2018	12324 V DVB-S2/8PSK MPEG-4 HEVC	29700 2/3	Canal+ France Canal+ UHD - RMC Sport 1 HD Association Matertel HD	W			Nagravision 1-1096	1N Europe	
97 Hendrik D.Shimoni 01.10.2019	12344 H DVB-S2/8PSK HEVC	30000 2/3	SES Astra	W			1-1097	1M Europe	QVC2 UHD ON Pearl TV 4K UHD left
			Insight UHD	W	255	256 Eng 512 Spa 1280 Rus	2000 2001 2005 HEVC/4K/UHD Irdeto2 Nagravision3 Viaccess5.0 Videoguard		
			QVC 2 Deutschland UHD	W F	2815	2816 Ger	2010 HEVC/4K/UHD		
98 R.László 26.05.2014	12363 V DVB-S/MPEG-2	27500 3/4	Canal+ France	W			1-1098	1N Europe	
99 Hendrik 01.10.2019	12382 H DVB-S2/8PSK MPEG-4	27500 3/4	Sky Deutschland History Deutschland HD - Sky Action HD Deutschland Sky Sport 6/14 HD Deutschland - Motorvision TV Sky Sport Bundesliga 5 HD - Eurosport 360 HD 9 Eurosport 2 HD - Sky Sport Austria 4 HD E! Deutschland HD - TNT Comedy HD Sky Cinema +1 HD Deutschland - BM 1/2/3 Sky Cinema +24 HD Deutschland Cartoon Network Deutschland - BM info Crime + Investigation	W			VideoGuard 133-11	1N Europe	Boomerang left
100 Hendrik 16.07.2019	12402 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France France 4 HD - MCM France HD TV Breizh HD - RFM TV HD - RMC Sport 3 HD TiJi France HD - D *** HD - DTV HD	W			NagravisionM Viaccess6.0 1-1100	1N Europe	Foot+ 24/24 HD MCM Top HD Méloody HD Multisports HD 4 left
101 Hendrik 14.04.2014	12422 H DVB-S/MPEG-2 DVB-S/MPEG-4	27500 3/4	WDR Fernsehen Sat	W			1-1201	1M Europe	
			WDR Bielefeld (Mon-Sat 19.30-20.00)	W F	301	302 Ger	28306		
			WDR Dortmund (Mon-Sat 19.30-20.00)	W F	401	402 Ger	28307		
			WDR Düsseldorf (Mon-Sat 19.30-20.00)	W F	501	502 Ger	28308		
			WDR Essen (Mon-Sat 19.30-20.00)	W F	601	602 Ger	28309		
			WDR Münster (Mon-Sat 19.30-20.00)	W F	701	702 Ger	28310		
			WDR Siegen (Mon-Sat 19.30-20.00)	W F	801	802 Ger	28311		
			WDR Fernsehen Köln HD	W F	5501	5502 Ger 5503 mis 5506 Ger	28325 MPEG-4/HD		
			WDR Bielefeld HD (Mon-Sat 19.30-20.00)	W F	5501	5502 Ger 5503 mis 5506 Ger	28326 MPEG-4/HD		
			WDR Dortmund HD (Mon-Sat 19.30-20.00)	W F	5501	5502 Ger 5503 mis 5506 Ger	28327 MPEG-4/HD		
			WDR Düsseldorf HD (Mon-Sat 19.30-20.00)	W F	5501	5502 Ger 5503 mis 5506 Ger	28328 MPEG-4/HD		
			WDR Essen HD (Mon-Sat 19.30-20.00)	W F	5501	5502 Ger 5503 mis 5506 Ger	28329 MPEG-4/HD		
			WDR Münster HD (Mon-Sat 19.30-20.00)	W F	5501	5502 Ger 5503 mis 5506 Ger	28330 MPEG-4/HD		
			WDR Siegen HD (Mon-Sat 19.30-20.00)	W F	5501	5502 Ger 5503 mis 5506 Ger	28331 MPEG-4/HD		
			Radio Bremen TV	W F	1201	1202 Ger	28385		
102 Hendrik 16.07.2019	12441 V DVB-S2/8PSK MPEG-4	29700 2/3	Canal+ France Mezzo Live HD - M6 Music HD - Djazz TV HD Série Club HD - Nat Geo Wild HD France Comédie+ HD - Piwi+ HD - Canal J HD Extreme Sports Channel France HD Nickelodeon 4Teen HD - Multisports HD 4 Multisports HD 3 - Warner TV HD - M*nX HD	W			NagravisionM Viaccess6.0 1-1102	1N Europe	Multisports HD 4 on
			MY1	W			1-123.5		

103 Hendrik Tururu 05.06.2019	12460 H DVB-S/MPEG-2 DVB-S/MPEG-4	27500 3/4	N24 Doku	W F	511	512 Ger	48	1M Europe	
			EWTN - Katholisches Fernsehen	W	1023	1024 Ger 1025 Eng	62		
			QVC Style	W F	1791	1792 Ger	64		
			Nicer Dicer TV	F	2303	2304 Ger	74		
			Handystar TV	W F	3071	3072 Ger	659		
			1-2-3.TV (06-02 CET)	W F	2815	2816 Ger	662		
			Babestation (02-06 CET)		2815	2816 Ger	662		
			Anixe Plus HD	W F	3311	3312 Ger	764 MPEG-4/HD		
			TLC Deutschland	W F	1535	1536 Ger	772		
			Sixx Deutschland	W F	767	768 Ger	776		
			Disney Channel Deutschland	W F	2047	2048 Ger 2051 Ger	1793		
			QVC Deutschland	W F	255	566 Ger	1794		
			104 Hendrik Tururu 05.06.2018	12480 V DVB-S/MPEG-2 DVB-S/MPEG-4	27500 3/4	MX1	W		
Sonnenklar TV	W F	2303				2304 Ger	32		
HSE 24 Deutsch	W F	1279				1280 Ger	40		
Handystar TV 2	W F	1791				1792 Ger	46		
Regio TV	W F	2047				2048 Ger	47		
Tele 5	W F	1535				1536 Ger	51		
DMAX Deutschland	W F	3327				3328 Ger	63		
Baden TV	W F	2815				2816 Ger	76		
HSE 24 Trend	W F	3071				3072 Ger	77		
Astro TV	W F	2559				2560 Ger	661		
Equi 8 TV	W F	767				768 Ger	897		
MediaShop	W F	255				256 Ger	898		
Mein TV Shop	W F	511				512 Ger	899		
Sport 1 Deutschland	W F	1023				1024 Ger	900		
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105 Hendrik Tururu 05.03.2019	12515 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	M7 Group	W			53-1105	1L	TVGames Portal HD Sportdigital TV HD left
			V*v*d TV Europe		564	90 Dut	4064 Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess5.0		
			V*v*d TV Europe CZ		564	90 Dut	4065 Cryptoworks Irdeto2		
			RTL Lounge	W	566	126 Dut	4066 MPEG-4 Mediaguard Nagravision Viaccess		
			AB3	W	602	142 Fre	4102 Mediaguard3 Nagravision3 Viaccess		
			BTV		615	155	4105 4145 Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess3.0 Viaccess		
			Eurosport 2 Deutschland	W	606	146 Ger 246 Ger	4106 Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess		
			HTV		607	147	4107 4109 Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess3.0 Viaccess		
			Planet	W	615	155 Ger	4115 Cryptoworks Mediaguard3 Nagravision3 Viaccess3.0 Viaccess		
			AXN Deutschland	W	625	165 Ger 256 Eng	4125 Cryptoworks Irdeto2 Mediaguard3 Nagravision3 Viaccess		
			Eleven Sports 1 Belgium	W	626	166 Dut 168 Fre	4126 4146 MPEG-4 Mediaguard3 Nagravision3 Viaccess5.0		
			Eleven Sports 2 Belgium	W	627	167 Dut 169 Fre	4127 4147 MPEG-4 Mediaguard3 Nagravision3 Viaccess5.0		

106 Hendrik Tururu 12.07.2016	12522 V DVB-S2/8PSK MPEG-4							1N Europe	Canal+ France package left
107 Hendrik 01.09.2016	12545 H DVB-S/MPEG-2	22000 5/6	ProSiebenSat. 1	W			1-1107	1L	
			Sat.1 Deutschland	W F	255	256 Ger 259 Ger	17500		
			ProSieben Deutschland	W F	511	512 Ger 515 Ger	17501		
			Kabel eins Deutschland	W F	767	768 Ger	17502		
			Welt	W F	1023	1024 Ger	17503		
			Sat.1 Gold	W F	1279	1280 Ger	17504		
			ProSieben MAXX	W	1535	1536 Ger	17505		
			Sat.1 Bayern (Mo-Fr 17.30-18.00)	W F	2047	2048 Ger 2051 Ger	17507		
			Sat.1 NRW (Mo-Fr 17.30-18.00)	W F	2303	2304 Ger 2307 Ger	17508		
			Kabel eins Doku	W F	2559	2560 Ger	17509		
108 Hendrik Tururu 04.03.2018	12552 V DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	SES Astra	W			1-1108	1N Europe	NRJ 12 HD
			QVC 2 Deutschland	W F	168	144 Ger	3394		
			QVC Deutschland	W F	165	166 Ger	12100		
			Bibel TV	W F	33	34 Ger	12122		
			Chérie 25 HD	W	5301	12140 5302 Fre 5303 Eng	MPEG-4/HD NagravisionM Viaccess6.0		
			NRJ 12 HD	W	5501	12145 5502 Fre 5503 Eng 5504 qad	12146 MPEG-4/HD NagravisionM Viaccess6.0		
109 Hendrik Tururu 06.07.2016	12574 H DVB-S2/8PSK MPEG-4	22000 2/3	HD+ Tele 5 HD - DMAX HD - DMAX HD Austria	W			Irdeto2 Nagravision3 VideoGuard 11-1109	1L	
			Sonnenklar TV HD	W F	255	259 Ger	5400 MPEG-4/HD		
			Juwelo TV HD	W F	1023	1024 Ger	5403 MPEG-4/HD		
			Pearl TV HD	W F	1279	1280 Ger	5404 MPEG-4/HD		
110 Hendrik Tururu Martin.cz 02.01.2017	12581 V DVB-S2/8PSK HEVC							1N Europe	Canal+ en Ultra HD promo left
111 D.Shimoni Andrei Chadli_sat 05.03.2014	12604 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	WDR Fernsehen Sat	W			1-1111	1N Europe	
			Sky News International	W F	1290	2290 Eng	7290		
			WDR Aachen (Mon-Sat 19.30-20.00)	W F	3401	3402 Ger	28534		
			WDR Wuppertal (Mon-Sat 19.30-20.00)	W F	3501	3502 Ger	28535		
			WDR Bonn	W F	3601	3602 Ger	28536		
			WDR Duisburg	W F	3701	3702 Ger	28537		
			WDR Aachen HD (Mon-Sat 19.30-20.00)	W F	5601	5602 Ger 5603 mis 5606 Ger	28544 MPEG-4/HD		
			WDR Wuppertal HD (Mon-Sat 19.30-20.00)	W F	5601	5602 Ger 5603 mis 5606 Ger	28545 MPEG-4/HD		
			WDR Bonn HD	W F	5601	5602 Ger 5603 mis 5606 Ger	28546 MPEG-4/HD		
			WDR Duisburg HD	W F	5601	5602 Ger 5603 mis 5606 Ger	28547 MPEG-4/HD		
112 Hendrik Tururu Europesat 08.11.2016	12610 V DVB-S2/8PSK MPEG-4							1L	Canal+ France package left
113 Hendrik 16.11.2019	12633 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	Media Broadcast	W			1-1113	1N Europe	Volksmusik TV on Legenden TV left
			Health TV Deutschland	W F	200	300 Ger	12600		
			K-TV Fernsehen	W F	202	302 Ger	12601		
			Deutsches Musik Fernsehen	W F	53	54 Ger	12604 12643		
			Media Broadcast promo	W	1113	1114	12606 12621 12642		
			Freenet TV connect HD	W	207	307 Ger	12607 MPEG-4/HD		
			G*yB*ys Live	F	212	312 Ger	12612		
			RheinMain TV	W F	208	308 Fre	12614		
			Deutsche G*rls 24 TV	F	215	315 Ger	12615		
			Juwelo TV	W F	1041	1042 Ger	12616		
			Dreamg*rls24	F	230	330 Ger	12618		
			E**ksat24	F	229	329 Ger	12619		
			Achtung S**y TV	F	228	328 Ger	12620 12628		
			Männersache TV	F	222	322 Ger	12622		
			Date Line TV		223	323 Ger	12623		
			FotoHandy TV	F	224	324 Ger	12624		

			Mobile S**	F	225	325 Ger	12625		
			S**-Kontakte	F	226	326 Ger	12626		
			Er*s TV	F	227	327 Ger	12627		
			Traumfrauen TV	F	229	329 Ger	12629		
			Heiss und S*y TV	F	230	330 Ger	12630		
			Volksmusik TV	w F	233	333 Ger	12633 12643		
			Nice	w F	242	342 Ger	12634		
			Babestation24		235	335 Ger	12635		
			Freenet Shopping	w F	236	336 Ger	12636		
			Er****a TV	F	239	339 Ger	12639		
			B**nyClub24	F	240	340 Ger	12640		
			Clipmobile	F	241	341 Ger	12641		
114 Hendrik 26.04.2016	12640 V DVB-S2/8PSK							1N Europe	Canal+ France package left
115 Hendrik 29.10.2018	12663 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	ORF Digital ORF 3	w			1-1115	1N Europe	
			Nitro Austria	w F	1020	1021 Ger	13102		
			Welt der Wunder	w F	1030	1031 Ger	13103		
			HT1 Hausruck (11-14-17-01 Cet)	w F	1040	1041 Ger	13104		
			InnSat TV (17-18)	w F	1040	1041 Ger	13104		
			LT 1 Linz (20-17)	w F	1040	1041 Ger	13104		
			Sixx Austria	w F	1060	1061 Ger	13106		
			Visit-X TV		1070	1071 Ger	13107		
			ServusTV Deutschland	w F	1110	1111 Ger 1112 Ger	13110		
			ServusTV Österreich	w F	2110	2111 Ger 2112 Eng	13111 Cryptoworks Irdeto2 VideoGuard		
			4Mediathek (HbbTV)		2120	Ger	13112		
			L-TV	w F	2130	2131 Ger	13113		
			TV1 OOE (TV1 Oberösterreich)	w F	2410	2411 Ger	13141		
116 Hendrik Tururu 12.07.2016	12670 V DVB-S2/8PSK MPEG-4							1N Europe	Canal+ France package left
117 Martin.cz 17.05.2018	12692 H DVB-S/MPEG-2 DVB-S/MPEG-4	22000 5/6	ORF Digital ORF 1 - ORF 2 - ORF 2 Niederösterreich ORF 2 Burgenland - ORF 2 Oberösterreich - ORF 2 Salzburg ORF 2 Tirol - ORF 2 Vorarlberg ORF 2 Steiermark - ORF 2 Kärnten - ATV Austria	w			Betacrypt Cryptoworks Irdeto2 Nagravision3 VideoGuard 1-1117	1N Europe	eoTV left
			ORF 2 Wien (19.00-19.30)	w F	510	511 Ger	13003		
			Hitradio Ö3 HD	w F	130	131 Ger	13013 MPEG-4/HD		
			ORF 2 Europe	w F	170	171 Ger	13014		
			Mei Musi TV (Shop 24 Direct)	w F	150	151 Ger	13015		
			Folx TV	w F	180	181 Ger	13018		
			RiC TV (Every day from 06:00 to 19:30 CET)	w F	190	191 Ger	13019		
			MediaShop (Every night from 19:30 to 06:00 CET)	w F	190	191 Ger	13019		
			N-TV Austria	F	3020	3021 Ger	13021		
118 Yulius 15.07.2018	12699 V DVB-S2/8PSK							1L	
119 Hendrik Tururu 25.05.2018	12722 H DVB-S2/8PSK MPEG-4							1L	PMC HD info card left
120 ClubSat 30.03.2016	12728 V DVB-S2/8PSK MPEG-4	22000 2/3	Canal+ France France 3 Basse-Normandie - France 3 Pays de la Loire France 3 Côte d'Azur - France 3 Centre France 3 Bourgogne - France 3 Poitou-Charentes France 3 Champagne-Ardenne - France 3 Alpes France 3 Nord-Pas de Calais - France 3 Alsace France 3 Languedocrou - France 3 Corse Via Stella France 3 Provence-Alpes - France 3 Haute-Normandie France 3 Aquitaine - France 3 Auvergne France 3 Bretagne - France 3 Limousin France 3 Lorraine - France 3 Midi-Pyrénées France 3 Paris Ile-de-France - France 3 Picardie France 3 Franche-Comté	w			NagravisionM Viaccess6.0 1-1120	1L	
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Ka4 Onacila 06.06.2016	18366 V DVB-S2/QPSK MPEG-4	15000 1/2	Data					1L Ka-band	
Ka5 Onacila 23.02.2013	18411 H DVB-S2/16APSK	6500 Auto	Data					1L Ka-band	
Ka10 Onacila 29.12.2013	18505 V DVB-S/QPSK	2500 1/4	Data					1L Ka-band	
Ka10 Onacila 15.09.2013	18509 V DVB-S2/32APSK ACM/VCM	5200 3/4	Data					1L Ka-band	
Ka10	18515 V							1L	

Ka10 Onacila 26.07.2014	18515 V DVB-S2/8PSK	3630 2/3	SIS feed					1L Ka-band	
Ka10 Onacila 20.07.2014	18538 V DVB-S2/8PSK	3344 3/4	SIS feed					1L Ka-band	
Ka10 Onacila 16.11.2014	18556 V DVB-S2/8PSK MPEG-2	3630 2/3	ITV Newsnet	WF	512	4112 Eng	1 0-0	1L Ka-band	
Ka10 Onacila 27.04.2014	18561 V DVB-S2/32APSK ACM/VCM	2500 3/4	Data					1L Ka-band	
Ka10 Onacila 30.08.2014	18567 V DVB-S2/32APSK ACM/VCM	1000 3/4	Data					1L Ka-band	
Ka19 Onacila 29.12.2013	18754 H DVB-S/QPSK	4500 3/4	feed					1L Ka-band	
Ka19 Onacila 18.09.2013	18760 H DVB-S/QPSK	4875 2/3	feed					1L Ka-band	
Ka19 Onacila 20.07.2014	18760 H DVB-S2/8PSK	5500 2/3	feed					1L Ka-band	
Ka19 Onacila 23.02.2013	18762 H DVB-S/QPSK	4333 3/4	Teleippica feed					1L Ka-band	
Ka19 Onacila 20.07.2014	18766 H DVB-S2/8PSK MPEG-4	3110 1/2	Unire Sat	WF	512	4112 Ita	1 65535-1	1L Ka-band	

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FTA MPEG-2	FTA MPEG-4	FTA HEVC	FTA HD / UHD	Temporary FTA	Encrypted SD	Encrypted HD/UHD	Data	Feed
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