

tp D8S

Africa

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Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated		
12540 H tp F1		MKTV Sat *		A MPEG-2 4:2:2	3254 - 2/3 1 - 308	0-1 2331 Mac	Europe	W Zaremba 010401		
		Radio Skopje			1	2331				
12561 V tp F2		(feeds)		MPEG-2	5632 - 3/4		Europe	J Fuller 001109		
12625 H tp F3		(Telespazio feeds)		MPEG-2	5632 - 3/4		Europe	A Cardoso 001106		
12629 V tp F4		(feeds)		MPEG-2	5632 - 3/4		Europe	DX-Ampy 010513		
12637 V tp F4		(feeds)		MPEG-2	5632 - 3/4		Europe	W Zaremba 001113		
12646 V tp F4		(feeds)		MPEG-2	5632 - 3/4		Europe	W Zaremba 001113		
12655 V tp F4		(feeds)		MPEG-2	5632 - 3/4		Europe	W Zaremba 001113		
12702 H tp F5	UPC [®]	UPC TV		A MPEG-2 Irdeto	5924 - 3/4	1-1	Europe	C Mavromatis 010305		
		Showtime Turkey		A Irdeto	1	257				258 orig 258 Tu
		Romantica		A Irdeto	2	274				275 orig 275 Tu
12709 H tp F5		(RR Communication feeds)		MPEG-2	3002 - 3/4		Europe	W Zaremba 010314		
12729 V tp F6		(Telespazio feeds)		MPEG-2	5632 - 3/4		Europe	W Zaremba 001205		
12738 V tp F6		(Telespazio feeds)		MPEG-2	5632 - 3/4		Europe	W Zaremba 001118		
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Colour codes on this satellite chart: analog, clear analog, encrypted B/D/D2-MAC digital, clear digital, encrypted interactive feeds

TV	clear	enc.
analog	9	1
digital	8	11

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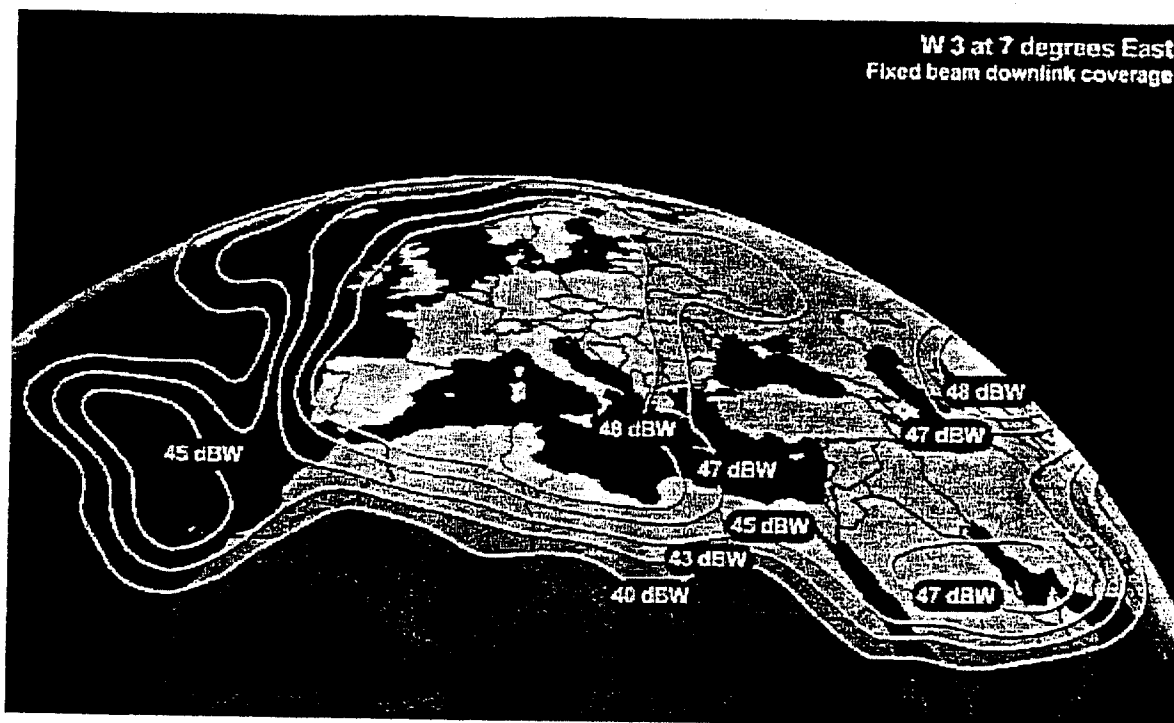
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Lyngemark Satellite Chart

Eutelsat W3 at 7.0°E

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Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated
10964 H tp B1		EBU Channel A0		MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810
10964 V tp B2		EBU Channel D0		MPEG-2 4:2:2	13333 - 7/8		Europe	Anonymous 000810
10982 H tp B1		EBU Channel B0		MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810
10982 V tp B2		EBU Channel E0		MPEG-2 4:2:2	13333 - 7/8		Europe	Anonymous 000810
11000 H tp B1		EBU Channel C0		MPEG-2 4:2:2	13333 - 7/8		Europe	Anonymous 000810
11000 V tp B2		EBU Channel F0		MPEG-2 4:2:2	13333 - 7/8		Europe	Anonymous 000810
11014 H tp B1		EBU Channel D1		MPEG-2 4:2:2	6666 - 7/8		Europe	Comax 000809
11014 V tp B2		EBU Channel H1		MPEG-2 4:2:2	6666 - 7/8		Europe	Comax 000809
11023 H tp B1		EBU Channel D2		MPEG-2 4:2:2	6666 - 7/8		Europe	Comax 000809
11043 V tp B4		EBU Channel N1		MPEG-2 4:2:2	6666 - 7/8		Europe	Comax 000809
11052 H tp B3		EBU Channel J2		MPEG-2 4:2:2	6666 - 7/8		Europe	Comax 000809
11052 V tp B4		EBU Channel N2		MPEG-2 4:2:2	6666 - 7/8		Europe	Comax 000809
11066 H tp B3		EBU Channel K0		MPEG-2 4:2:2	13333 - 7/8		Europe	Anonymous 000810
11066 V tp B4		EBU Channel P0		MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810
11084 H tp B3		EBU Channel L0		MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810
11084 V tp B4		EBU Channel Q0		MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810
11102 H tp B3		EBU Channel M0		MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810

11102 V tp B4		EBU Channel R0	A	MPEG-2 4:2:2	13333 - 7/8		Europe	A Cardoso 000810
11126 V tp B6		(TVP feeds)		MPEG-2	5697 - 3/4		Europe	DX-Ampy 000811
11133 V tp B6		(TVP feeds)		MPEG-2	5697 - 3/4		Europe	DX-Ampy 000811
11142 V tp B6		EBU Channel Y1	A	MPEG-2 4:2:2	6666 - 7/8		Europe	Anonymous 000810
11152 V tp B6		EBU Channel Y2	A	MPEG-2 4:2:2	6666 - 7/8		Europe	Anonymous 000810
11175 V tp B6		TVP		MPEG-2 Videoguard	27500 - 3/4	126-1	Europe	W Zaremba 001129
		TVP 1	A T	Videoguard	1	512		
		TVP 2	A T	Videoguard	2	513		
		TV Polonia	A T		3	514		
		TVP Regionalna	A	Videoguard	4	515		680 Po
11178 H tp B5		(Telespazio feeds)		PAL			Europe	A Cardoso 991129

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Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated
11262 H tp C3							Europe	Mehrdad 010405
11283 V tp C4		GlobeCast	A	MPEG-2	27500 - 3/4	126-40400	Europe	Mehrdad 010419
		(feeds)			801	2521		
		[test card]			802	2522		
		Iran TV Network	A		805	2525		
11387 H tp C9		EuroNews	A	MPEG-2	27500 - 3/4 8211 - 2221	126-40900 2231 F 2232 E 2233 G 2234 I 2235 Sp 2236 P 2237 E	Europe	FreeFeed 010513
		AFN - American Farsi Netlink	A		2	291 Fa		

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Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated
11473 H tp D1		Telia promo		MPEG-2	27500 - 3/4 1000 - 50100 - 210	1000-50100 208 S	Europe	FreeFeed 010513
11492 V tp D2		DigiTurk	A DIG	MPEG-2 Cryptoworks	30000 - 3/4	126-50200	Aegean	W Zaremba 010503
11513 H tp D3		DigiTurk	A DIG	MPEG-2 Cryptoworks	30000 - 3/4	126-50300	Aegean	A Saydam 010405
11534 V tp D4		DigiTurk	A DIG	MPEG-2 Cryptoworks	30000 - 3/4	126-50400	Aegean	T Göde 010514
11554 H tp D5							Europe	A Saydam 001103
11575 V		DigiTurk	A DIG	MPEG-2	30000 -	126-50600	Aegean	A Saydam

tp D6				Cryptoworks	3/4			010509
11596 H tp D7							Europe	R Moazami 010424
11617 V tp D8		DigiTurk		MPEG-2 Cryptoworks	30000 - 3/4	126-50800	Aegean	W Zaremba 010503
11642 H tp D9L							Aegean	W Zaremba 010503
11658 V tp D10		DigiTurk		MPEG-2 Cryptoworks	30000 - 3/4	126-51000	Aegean	A Saydam 010509
11672 H tp D9U				MPEG-2 Videoguard	14810 - 5/6	126-50903	Aegean	R Moazami 010507
				TV - The Technology Channel		Videoguard		
				Pro Sieben Schweiz		5303 3301 3303 E		
				Hit List		5306 3600 3601 G		
				Soft Rock		5310 4000		
				Heavy Rock		5311 4005		
				Gold		5312 4010		
				Dance		5313 4015		
				Progressive Dance		5314 4020		
				Rhythm Soul		5315 4025		
				Soul Classics		5316 4030		
				Reggae		5317 4035		
				Latin		5318 4040		
				Jazz		5319 4045		
				Country		5320 4050		
				Blues		5321 4055		
				Classic Favourites		5322 4060		
				Symphonic		5323 4065		
				Classic Adventures		5324 4070		
				Opera & Vocal		5325 4075		
				Love Songs		5326 4080		
				Film Music		5327 4085		
				Musicals		5328 4090		
				Easy Listening		5329 4095		
				New Age/Moods		5330 4100		
				Standards		5331 4105		
				Les Tubes Français		5332 4110		
				Bella Italia		5333 4115		
				World Music		5334 4120		
11684 H tp D9U							Aegean	S Gungor 010509
11691 H tp D9U		(feeds)		MPEG-2	5632 - 3/4		Aegean	W Zaremba 010510

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Freq. Tp	Provider Name Channel Name	Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated
12520 V tp F2	 Web-Sat	 MPEG-2	4000 - 1/2 1	1-1	Europe	GRW 010304
12594 H tp F3	 Simaye Azadi Iran National TV	 MPEG-2	3003 - 2/3 5 - 33	4369-51 34 Fa	Europe	Mehrdad 010509

12638 V tp F4	RFTV - Reuters Financial TV	A	MPEG-2	2047 - 1/2 1 - 512	65535-1 640	Europe	T Vignaud 001105
12722 V tp F6						Europe	W Zaremba 010129
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TV	clear	enc.
analog	0	0
digital	16	84

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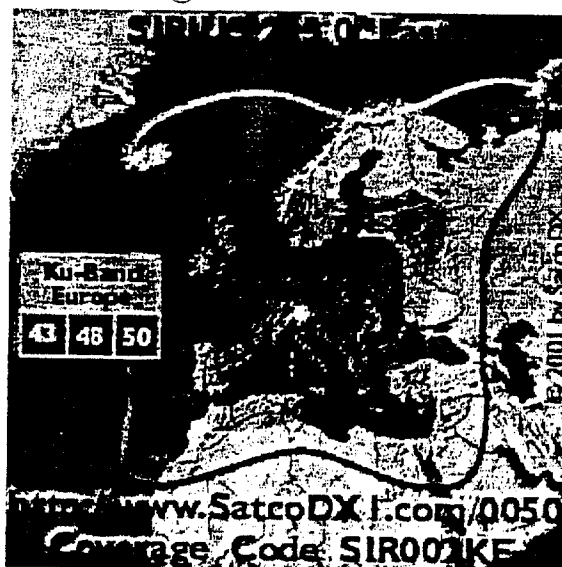
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Sirius 2/3 Sirius 3 Sirius 2		

Lyngemark Satellite Chart

Sirius 2 at 4.8°E

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Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam Source Updated
11727 H tp 1							Europe H Canik 000911
11747 V tp 2							Nordic Anonymous 001002
11766 H tp 3							Europe
11900 V tp 10							Nordic Sirius 2 B Sundberg 010502
12073 H tp 19		© Cidera		MPEG-2	25378 - 7/8		Europe W Zaremba 010224
12092 V tp 20		TV 3 Sverige	 T	D2-MAC Eurocrypt M		stereo S	Nordic D Reed 980525
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Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam Source Updated
12111 H tp 21		Merlin		MPEG-2	27195 - 3/4	1-1	Europe S Gungor 010426
		13th Street		Conax	1	48	
		Studio Universal		Conax	2	50	
		Nimrooz TV			3	52	
		(feeds)			4	55	
		Radio Nimrooz				54 Fa	
		AWR 2			10	80	
		AWR 1			12	82	
		Tamil Broadcasting			13	83 E	
		© PlanetSky		MPEG-2	21		
12130 V tp 22							Nordic Sux 001102
12153 H tp 23		(Merlin feeds)		MPEG-2	7028 - 3/4		Europe H Room 981103
12169 V tp 24							Nordic F Rotsikas 000405
12188 H tp 25		© PGroup		MPEG-2	24500 - 7/8		Europe R Moazami 010416
12207 V tp 26							Nordic D de Jong 010502
12226 H							Europe F Rotsikas 981112

[illegible]

		TV 6 Moskva (Viasat)	A	Viaccess	211	55	56 R		
		ORT International (Viasat)	A	Viaccess	225	170	171 R		
		Radio Sweden	A		2		40		
12399 V tp 36								Nordic	P Göransson 990727
12418 H tp 37				MPEG-2 PowerVu	25540 - 7/8	1-0		Europe	A Saydam 010321
		Discovery Channel Italy	A	PowerVu	20	1160	1120		
		Discovery Civilisation	A	T PowerVu	21	1260	1220 E 1222. 1222 Po;R		
		Discovery Channel Mediterranean	A	PowerVu	22	1360	1320 Tu 1321 E		
		Front Row Channel 50		PowerVu	50	1860	1820 E		
		Front Row Channel 51		PowerVu	51	1460	1420 E		
		Front Row Channel 52		PowerVu	52	1560	1520 E		
		Front Row Channel 53		PowerVu	53	1660	1620 E		
		Front Row Channel 54		PowerVu	54	1760	1720 E		
12437 V tp 38		[test card]		PAL		6.50		Nordic	F Kocsis 001208
12453 H tp 39		Kingston TLI		MPEG-2	18056 - 3/4	1-1		Europe	Mehrdad 010411
		Simaye Azadi Iran National TV	A		1	133	132 Fa		
		The Global Draw			2	288	289 E		
		Fantastic	A	Conax	3	544	545 Po		
		B4U Movies Middle East	A	Conax	4	800	801 HI		
		(feeds)		Conax	5	1056	1057		
		[Lucent test card]			10	880	881		
		Virgin Radio	A		6		1215 E		
12476 V tp 40		Kanal 5	A	T D2-MAC Eurocrypt S2		stereo S		Nordic	B Sundberg 981019

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Freq. Tp		Provider Name Channel Name	Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated
12590 V tp 3		(feeds) (F31)	MPEG-2	6111 - 3/4		North	A Björkman 010221
12600 V tp 3		(feeds) (F32)	MPEG-2	6111 - 3/4		North	A Björkman 010221
12608 V tp 3		(feeds) (F33)	MPEG-2	6111 - 3/4		North	A Björkman 010221
12616 V tp 3		(feeds) (F34)	MPEG-2	6111 - 3/4		North	A Björkman 010221
12629 V tp 4		(feeds)	MPEG-2	1716 - 7/8		North	F Rotsikas 001224
12632 H tp 10		(feeds) (F101)	MPEG-2	6110 - 3/4		North	A Björkman 010221
12634 V tp 4		ICTV	A MPEG-2	2480 - ? 3601	3604	North	I Stehlik 010514
12640 V tp 4		TV Puls	MPEG-2	3600 - 3/4 1 - 308	0-1 256	North	B Wall 010319
12647 H tp 10						North	A Björkman 010221
12651 H tp 10						North	A Björkman 010221
12654 H tp 10						North	A Björkman 010221

12658 H tp 10							North	A Björkman 010221
12662 H tp 10							North	A Björkman 010221
12674 V tp 5		Ombudskanalen	A	MPEG-2	6666 - 1/2 1 - 4130	0-1 4096 S	North	W Zaremba 010414
12674 H tp 11		(Kanal 75 feeds)		MPEG-2	6110 - 3/4		North	Anonymous 000717
12683 V tp 5		Spelkanalen	A	MPEG-2	6666 - 1/2 1 - 4130	0-1 4096 S	North	W Zaremba 010309
12684 H tp 11							North	I Stehlik 010201
12689 H tp 11							North	I Stehlik 010126
12690 V tp 5		Novy Kanal	A	MPEG-2	3980 - 3/4 1 - 4194	177-176 4195 R	North	F Rotsikas 001031
12692 V tp 5							North	A Björkman 010221
12695 H tp 11							North	A Björkman 010221
12701 V tp 5							North	A Björkman 010221
12718 H tp 12		LuckyLink	A	MPEG-2	4000 - 7/8		North	R Lomtev 010415

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TV	clear	enc.
analog	2	2
digital	14	37

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Exhibit 8
Declaration of Mr. Peter Blond

DECLARATION OF PETER BLOND

I, Peter Blond, declare as follows:

1. MDS America, Incorporated ("MDS America") is the North American licensee for MDS International's ("MDSI's") operationally tested terrestrial broadband wireless technology. I am a member of the Board of Directors of MDS America, and also MDS America's Executive Vice President. As such, I am familiar with MDSI's terrestrial broadband wireless technology, which is capable of transmitting video and high-speed Internet data in the 12.2 to 12.7 GHz band without causing interference to satellite service offerings in the same frequency band. Moreover, I am familiar with the issues in Federal Communications Commission ET Docket No. 98-206 and am aware of Northpoint Technology Ltd.'s ("Northpoint's") allegations of misrepresentations by MDS America. I have read the May 9, 2001 letter from Mr. Michael K. Kellogg, Northpoint's lawyer, to Ms. Jane Mago, Office of the General Counsel, Federal Communications Commission. I provide the following information, which is either known to me personally or has been made known to me in the course of my duties with MDS America.

2. During the week of May 14, 2001, a test was done of the MDSI Internet-based software that allows a remote user to see the DBS receive and MDSI broadcast frequencies and bit error rate of the MDSI broadcast signal. The test was monitored on the Internet from Washington, D. C. while Mr. Fabrice Ducasse of MDSI was at the MDSI facility in Lyon, France.

At the facility in Lyon, a DBS broadcast was received first at 12.6105 GHz and then at 12.6695 GHz. MDSI successively broadcast (at the facility in Lyon) each DBS signal at 12.6455 GHz. I personally observed the entire test in Washington, D.C. and saw the receive bit error rate (BER) register at $< 1E-7$. Confirming the test referred to above, Mr. Ducasse stated, on

the telephone, that he could see a clear digital picture at the MDSI facility of the reflection of each MDSI broadcast.

3. During the week of May 14, 2001, I participated in a telephone call with a Cable & Wireless Optus representative in Australia during which he stated that Optus Aurora is received in New Zealand. The representative also stated that all Optus B1 and B3 vertically polarized transponders covered New Zealand. He also stated that the Optus footprints that covered New Zealand (all the vertical transponders from B1 and B3) were not on their website, and that was why we could not find them there. In addition, he said that the uses of transponders changed frequently.

4. I spoke with a representative of Sky TV in New Zealand twice in May of 2001. He stated to me that Sky TV has about 250,000 DBS customers receiving a signal from Optus.

5. I spoke with a representative of Zee TV in Australia in May of 2001. He stated to me that Zee TV has DBS customers receiving Zee TV in New Zealand from Optus B3.

6. I spoke with a representative of Sky Racing Channel in Australia in May of 2001. He stated to me that Sky Racing Channel had a feed to New Zealand until January of 2001.

7. During the week of May 14, 2001, I was informed by Mr. Fabrice Ducasse of MDSI that the transmitter shipped to Kazakhstan had a frequency range of 12.500 to 12.750 GHz..

8. During numerous conversations with Fabrice Ducasse during the week of May 14, 2001, he informed me that large numbers of people in Andorra receive free DBS from many satellites. He also informed me that the system in Andorra sold to the state television authority consisted of four transmitters, operating from two sites to relay UHF/VHF television signals by

using repeaters and reflectors. The signal moves between mountains to its final destination. The transmitters sold were configured at 11.8485 GHz, 11.9075 GHz, 11.9665 GHz and 12.055 GHz.

9. On May 18, 2001 I learned from Mr. Fabrice Ducasse that despite the recent difficulties in Serbia, the MDSI system there was still functioning and was used at the ELEKTONSKI FAKULTET of the University of NIS for testing and educational purposes. I also reviewed with Mr. Ducasse the status of MDSI systems around the world. He confirmed that MDSI had sold more than twenty systems, that the overwhelming majority of these systems operate on the Ku-band and that most of these systems were installed or shipped to locations with DBS service. Because MDSI does not operate systems (except for Lyon), I was unable to ascertain the current operational status or usage of all of the systems MDSI has sold.

I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Executed on May 18, 2001.



Peter Blond

Exhibit 9
Email from Mr. Erik Andersen of Telenor Conax

MDS America

Subject: Statement on MDS and Conax solution

Date: Tuesday, May 15, 2001 10:34

From: Erik Andersen <erik.andersen@conax.com>

To: Kirk Kirkpatrick <kirk@programmer.net>

Cc: Øystein Larsen <oystein.larsen@conax.com>, Ole Hansvold <ole.hansvold@conax.com>, Geir Bjørndal <geir.bjorndal@conax.com>, Ducasse FABRICE <fducasse@mds.fr>

Dear Kirk,

In march this year Conax visited MDS in Lyon in order to be demonstrated a working solution on digital terrestrial broadcasting based on the MDS solution. I was amazed by the quality of reception and performance of what I saw. Being demonstrated was the Hypercable system from MDS in conjunction with set-up-boxes (STBs) from XCom. The solution was based on rebroadcasting digital MPEG2 transmissions from Astra satellite through the wireless system and received by using only the LNB from a satellite dish as input to the STB. The signal was free to air, meaning that all Conditional Access (CAS) was stripped off the incoming Astra signal and rebroadcasted in clear. The multiplexer used was from Thomson Broadcasting and is already in commercial operation with Conax at various sites. This means that Conax can and will provide all CAS components in order to protect the TV or IP channels based on using this DVB multiplexer. The MDS solutions merely provided the specific modulation necessary to be able to broadcast the signal to the STB. As Conax has already worked with XCom and have working samples of the STB with embedded Conax CAS using our smartcards, I trust the solution to be a fully working DTT solution for subscription TV, PPV TV and IP broadcasts. Several projects are in progress and we expect this unique MDS solution to be a winner in the marketplace.

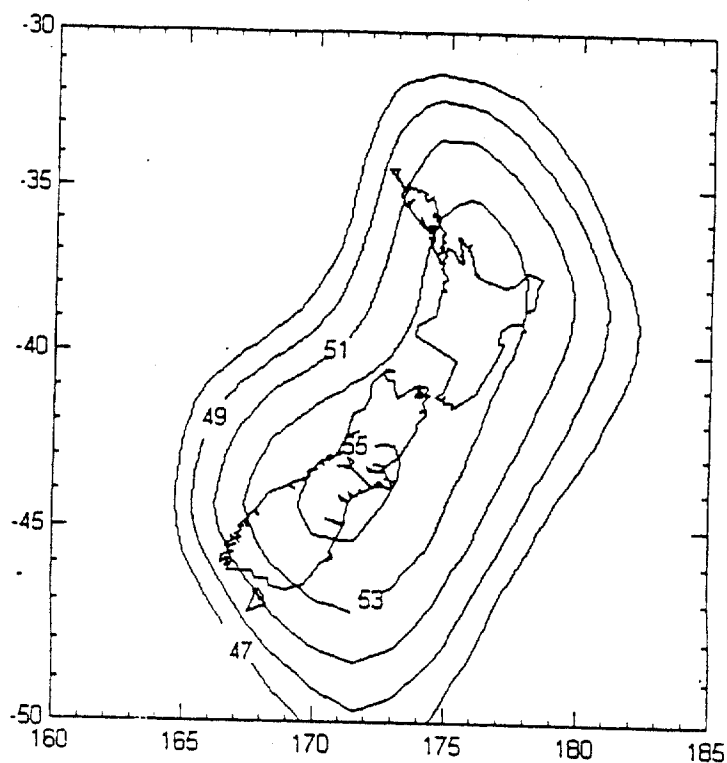
To let you know a little of our background, Conax is one of the market leaders in security- and payment systems for Internet and digital-TV. Conax is one of a few companies in the world offering conditional access technology for digital content. Our scalable conditional access and payment systems for Digital Video Broadcasting, IP streaming and e-betting, give the information providers strong tools for securing the content and for revenue collection. Conax is in majority (at present) owned by Telenor (the norwegian public broadcaster) who is Europe's third largest satellite operator (1 degree West). All broadcasts from this platform use Conax CAS including scandinavia's largest programme provider Canal Digital (50% Telenor, 50% Canal-). Conax has delivered in excess of 4 million smartcards to various programme providers broadcasting on satellite, cable and DTT and is one of the few companies having worked with security solutions the last 15 years. For more information see www.conax.com

I trust that the relationship between MDS and Conax has much to offer as our mutual solution comprise the best of both technical and commercial value to a program provider. Included in this mail you will find the agent agreement and NDA signed by MDS in France. I've also included an offer sent to MDS on a specific project in order for you to see what Conax may typically offer in a broadcast project. I expect the agreements included to be valid for MDS USA as well, but if you think we need to discuss other ways of cooperating, please let me know. Any feedback on your progress in the US is much appreciated.

Best regards

Erik Andersen

Exhibit 10
**Footprints of Ku-Band satellites with New Zealand
coverage**



New Zealand Beam EIRP (dBW) B-Series Full Transponder
Optus B1 and B3 Vertical Transponders
Source: Optus Cable & Wireless

OPTUS B1 160.0° East



Kir-Band
N-Zealand
47 50 54

<http://www.SatcoDX5.com/1600>
Coverage Code OPT0B1KZ

DPCI-GOLD
SatcoDX Coverage Image
 Coverage Code PAN002KA



More Information
 about this Satellite Operator



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<u>SatControl</u> Satellite Software	<u>Ask SatcoDX</u> Questions about SatcoDX CD-ROM	<u>Satellite Ads</u> Classified Ads for Free

New Satellite Products:

ACC Accessories	CAB Cable	CTV Cable TV & SMATV	DSH Dishes	LNB Converters	MIS Miscellaneous	REC Receiver	TST Test Equipment

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Exhibit 11
Sky TV New Zealand Subscribers and Channels

SKY1	<< The Flying Doctors (PG)	Walker Texas Ranger (PGV)	Pacific Blue (PGV) >>
SKY MOVIES	<< Turner Angels In The Attic (G) And Hooch (PGV)		Mad Max 2 (MV) >>
TV3	<< The Legend Of Life Zorro (G) Is For Living (G)	Wacky World Of Tex Avery (G)	The Magician (G) Crocadoo (G) >>
SKY MOVIE MAX	<< At First Sight (ML)		
SUNDANCE CHANNEL	<< Moms (PG)	Wish You Were Here (PGS) >>	
MGM	<< TCM has moved (G)		MGM starts 8.30pm 3 June (G) >>
HALLMARK ENTERTAINMENT	<< Trouble In Paradise (M)	Search For The Jewel (PG) >>	
SKY SPORT	<< Scottish Premier League Soccer (G)	US PGA Golf (G) >>	
SKY SPORT 2	<< Indy 500 Programming (G) >>		
ESPN INTERNATIONAL	<< Scottish Premier League Soccer (G)	Auto Racing Events (G)	X Games Classix (G)
TAB TRACKSIDE	<< Whats on SKY >>		
NATIONAL GEOGRAPHIC	<< Eruptions On Earth (G)	Statue Of Liberty (G)	Tomorrow's World (G)
DISCOVERY	<< Extreme Machines (G)	Total Rush (G)	Let's Dance & Eat (G)
DISCOVERY UHF	<< Extreme Machines (G)	Total Rush (G)	Let's Dance & Eat (G)
ANIMAL PLANET	<< Wildlife (G)	Animal Encounters (G)	Extreme Contact (G) Twisted Tales (G)
CNN INTERNATIONAL	Science & Technology Week (G)	World News (G)	Both Sides with J.Jackson (G) World News (G)
CNN INTERNATIONAL UHF	Science & Technology Week (G)	World News (G)	Both Sides with J.Jackson (G) World News (G)
CNBC Australia	<< Conan O'Brien (G)	Lo & Company (G)	Review (G) The Source (G)
SKY News Australia	<< News from London (G)	News from London (G)	News from London (G) >>
WEATHER CHANNEL	<< Weather Channel (G)		Weather Channel (G) >>
GRANADA UK TV	Box Office America (G)	A Handful of Dust (G) >>	
PRIME	<< TVSN (G)	TVSN (G) >>	
FASHION TV	<< Fashion TV (MC)		Fashion TV (MC) >>
JUICE	<< Juice TV (G)		Juice TV (G) >>
CARTOON NETWORK / TCM	Dexter's Laboratory (G)	Dragonball Z (G)	Pokemon (G) The Powerpuff Girls - Double (G) >>
NICKELODEON	Hey Arnold! (G)	The Wild Thornberrys (G)	Rocko's Modern Life (G) The Adventures of (G)
SKY Box Office Movies	<< Romeo Must Die (ML)		U-571 (MV) >>
SKY Box Office			Jubilee.(ML) >>

		Jubilee (ML) >>
Movies 2		
Playboy	<< Palyboy 0800 759 781 (R18S)	Playboy 0800 759 781 (R18S) Playboy 0800 759 781 (R18S)
SPICE	<< Spice 0800 759 781 (R18S)	Spice 0800 759 781 (R18S) >>
TV4	<< What's On SKY? (G) >>	
JTV	<< Weekly Book Review Sumo (PG) >> (PG)	
KTV	<< KTV	KTV >>
CTVN	<< CTVN	CTVN >>
CTVE	<< CTVE	CTVE >>
Phoenix	<< Embassy of Love (PG) Brothers (PG)	Aikai Perfect Match (PG) >>
CTVC	<< CTVC	CTVC >>
National Radio	<< Morning Report (G) >>	
Concert FM	<< Classic Good Morning (G)	Beauty Spot (G) >>



MEDIA RELEASE
Thursday, 22 February 2001

SKY TELEVISION SURPASSES 400,000 SUBSCRIBERS

**SKY Television now has over 400,000 subscribers
on its combined UHF and digital services.**

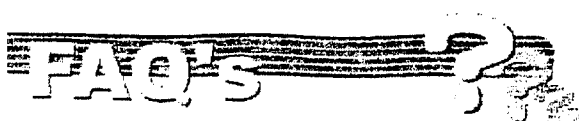
Of that base, SKY's multi-channel digital service now has approximately 224,000 subscribers, which represents around 56% of the total.

SKY has had positive subscriber growth every month for the last 15 months, and in the last 12 months the subscriber base has increased by approximately 60,000 (representing approximately 17.5% net gain).

This growth is expected to continue, supported by SKY's strong upcoming programming line-up. This includes Super 12, Tri-Nations and NPC Rugby, NRL League, Golf Majors, The Oscars live, the addition of new channels and the targeted rollout of interactive services.

"We couldn't be more pleased with the growth the company has enjoyed over the last year or so and 400,000 subscribers marks a significant milestone for us – in effect, that's over a third of the country," said SKY Television's Chief Executive Officer, John Fellet.

"With the launch of other applications such as Interactive Games, a new look Interactive Programme Guide, Interactive Weather Channel, and e-mail on TV, I am confident that not only will we continue to grow our subscriber base but also the proportion of Digital subscribers will increase," he added.



Please select a category below to see our answers to some common questions.

General Questions ▾



If you do not find an answer to the question you have, please complete the form here.

Thank you.



General Questions

Please select a question below to view, or scroll down the page to see all questions and answers.

- Can I view SKY on more than one TV in my house?
- Can I view different SKY channels on different TVs in my house?
- Can I temporarily disconnect SKY when I'm away on holiday?
- Can I pay by Direct Debit?
- What do I need to do if I'm moving house?
- What is a Sun Outage
- Why do you change the programming?
- Do I own the aerial/dish and decoder?
- Why is SKY Digital so expensive to install?
- What's happened to my picture?
- Which satellite is SKY Digital transmitted by?
- Is it possible to have 2 digital decoders in the same house?
- What is a Tandem?
- What is a Splitter?
- Will I need a Digital television?
- What is an Amplifier (Booster)?
- What is an Additional Outlet?
- What do I need a Phone Jack for? Will SKY install a new phone line?
- Can I record SKY Digital programmes?
- Will there be a charge for every SKY Service Call?
- What do I do if I have Reception problems?

Question:

Can I view SKY on more than one TV in my house?

Answer:

Yes. We can split the signal cable to 2 TVs. You would have 1 decoder feeding the same signal to both TVs and they would show the same SKY channel. This costs \$39.95.

Question:

Can I view different SKY channels on different TVs in my house?

Can I view different SKY channels on different TVs in my house?

Answer:

Yes. You will need a decoder for each TV.

For SKY UHF customers the monthly subscription for an additional decoder is \$15 per month. Both decoders would receive the same channels.

For SKY Digital customers in a UHF area the monthly subscription for an additional SKY UHF decoder is \$7 per month. The channels you would receive on SKY UHF would correspond to the package you have chosen for SKY Digital. Please contact SKY Customer Services 0800 759 759 for more information.

SKY Digital customers can get an additional SKY Digital decoder for a monthly subscription of \$25 plus \$200 joining fee (non-refundable). Both decoders would receive the same channel packages.

Question:

Can I temporarily disconnect SKY when I'm away on holiday?

Answer:

SKY UHF Customers: You can temporarily disconnect (downgrade) SKY for a minimum of 1 month, maximum 3 months, retaining the equipment at your address. Monthly subscription is \$5.00.

SKY DIGITAL Customers: you can change your SKY Digital package to "Decoder Rental" only at \$17.29 per month for a minimum 1 month, no maximum. While on this package you will be able to access the following Broadcast channels - TV3, TV4, Prime, TAB, Mosaic and Guide.

Question:

Can I pay by Direct Debit?

Answer:

Yes. On request we will send you a Direct Debit Authority to fill out. This must be returned to SKY.

Each month SKY will advise you of how much will be debited on a specified date

If you no longer wish to pay by Direct Debit please advise SKY.

Question:

What do I need to do if I'm moving house?

Answer:

As a new SKY aerial or dish may be required at your new address please contact SKY Customer Services 0800 759 759 for more information and possible costs.

Question:

What is a Sun Outage

Answer:

A sun outage will occur when an earth satellite dish is directed toward the satellite in space and the sun passes behind it.

When the sun appears to be behind the satellite, the sun's radio energy engulfs our television signal so that reception becomes impossible.

At sun outage, the satellite shadow falls on the earth satellite dish and the

At sun outage, the satellite shadow falls on the earth satellite dish and the outage lasts until the shadow traverses the earth dish.

Viewers may experience picture disturbances prior to sun outage and immediately after, however, this will not last longer than a few minutes at the beginning and end of the season and up to 10 minutes at the peak of the season.

This interesting scientific phenomenon will occur every day for approximately 11 days twice a year in April and September.

Remember it is a sun outage, so no viewing disturbances occur at night!

Question:

Why do you change the programming?

Answer:

The majority of programme changes will be for sport. Due to the nature of sport these changes are beyond our control, for example weather affected play, rescheduled games, team changes.

Sometimes our suppliers change their schedule eg Discovery Channel.

Breaking news will interrupt scheduled news programmes with no warning - such is the nature of news.

Question:

Do I own the aerial/dish and decoder?

Answer:

SKY retains ownership of the equipment.

Question:

Why is SKY Digital so expensive to install?

Answer:

The cost of the decoder, quality of the cable and the cost for leasing satellite space.

Question:

What's happened to my picture?

Answer:

Call SKY Customer Services 0800 759 759

Question:

Which satellite is SKY Digital transmitted by?

Answer:

Optus B1

Question:

Is it possible to have 2 digital decoders in the same house?

Answer:

Answer:

Yes. This offers customers the ability to watch 2 different SKY channels at the same time. Cost: An installation for a second decoder is \$200. Second decoder monthly premium is \$25 a month.

Question:

What is a Tandem?

Answer:

Tandem allows customers to install an analogue decoder in another room giving them access to our five UHF channels. Cost: There is no charge for installing an analogue decoder. UHF Analogue monthly premium charge is \$7 a month. Special conditions apply.

Question:

What is a Splitter?

Answer:

If you have only one digital decoder but would like to be able to view SKY digital pictures in another room a splitter is installed. Splitting the digital signal allowing customers to view the same digital picture in another room. The splitter service does not allow you to watch 2 separate digital pictures. Cost: \$39.95.

Question:

Will I need a Digital television?

Answer:

No.

SKY has selected two brands of Digital decoders - Zenith and Pace - providing customers with crystal clear pictures and sound.

Question:

What is an Amplifier (Booster)?

Answer:

An Amplifier is required to enhance a signal. You may require an amplifier only if you have the UHF or Analogue system.

Question:

What is an Additional Outlet?

Answer:

An Additional Outlet offers customers the ability to take the Digital decoder from the original installation point into another room. Cost: \$39.95.

Question:

What do I need a Phone Jack for? Will SKY install a new phone line?

Answer:

When SKY Digital is installed, a SKY technician taps into your existing phone line and installs a phone jack. This connection allows our customers to enjoy present and future services such as Pay Per View events, and the Internet service. Cost: included in installation charge.

Question:

Can I record SKY Digital programmes?

Can I record SKY Digital programmes?

Answer:

Yes. At the time of installation the SKY technician will provide the customer with an instruction card called SKY Tips containing details on how to record SKY.

Question:

Will there be a charge for every SKY Service Call?

Answer:

No. SKY will only charge the customer if the problem is a not SKY related, e.g. if a customer has de-tuned their TV or video.

Question:

What do I do if I have Reception problems?

Answer:

Call SKY Customer Services 0800 759 759



**Answer 4 Questions
Get Pre-Qualified**

APPLY NOW!

banner

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166.0°E <C> 146.0°E **SatTracker** **162.0°E <Ku> 158.0°E**

Lyngemark Satellite Chart

Optus B1 at 160.0°E

Optus B1 © Lyngemark Satellite, last updated 2001-05-11 - http://www.lyngsat.com/optusb1.shtml									
Freq. Tp		Provider Name Channel Name	Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated		
12258 V tp 1L		ABC TV Northern	A MPEG-2	5026 - 3/4 1 - 832	7-7 833 E	Central	Robin 010205		
		⑧ ABC Classic FM Northern	A	2	836				
		⑧ ABC Radio National Northern	A	3	838				
		⑧ ABC Regional Northern (Alice Springs)	A	4	837				
12316 H tp 9		(ABC feeds)	MPEG-2	6980 - 3/4		beam	B Richards 001209		
12326 H tp 9U		(ABC feeds)	MPEG-2	6980 - 3/4		beam	B Richards 001211		
12336 V tp 2L		Mediasat	A MPEG-2	29990 - 2/3		beam	B Richards 010508		
		Maharishi Open University Asia	A	1 1160	1120				
		Thai TV Global Network	A	2 1260	1220 Th				
		[test card]		3 1360	1320				
		(feecs)		4 1460	1420				
		[test card]		5 1660	1620				
		TRT International	A	6 1860	1820 Tu				
		⑧ TRT FM			1822 Tu				
		⑧ Voice of Turkey	A		1830				
		@ Access 1	MPEG-2	112					
12336 H tp 9U		(ABC feeds)	MPEG-2	6980 - 3/4		beam	B Richards 001211		
12354 H tp 10L		7 Central	A MPEG-2	3688 - 3/4 1280	1281 E	Central	D Holbrook 991202		
		⑧ Taima Radio			1284				
12360 H tp 10		Imparia	A MPEG-2	5424 - 3/4		Central	A Raycher 010108		
		Imparia TV	A	1024	1025 E				
		[Imparia PTTV test card]		1040	1041 E				
		⑧ Caama Music	A		1056				
		⑧ Caama Music	A		1057				
		⑧ Caama Music	A		1058				

		© TAB Northern			1059		
12386 H tp 10U		7 Network	A	PAL EPAL	E	Central	P Middleton 980328
12405 V tp 3		(feeds)		MPEG-2	6110 - 3/4	Australia/ New Zealand	B Richards 010401
12415 H tp 11L		(feeds)		MPEG-2	6110 - 3/4	Australia/ New Zealand	B Richards 010209
12424 H tp 11L		(feeds)		MPEG-2	6110 - 3/4	Australia/ New Zealand	B Richards 010209
12430 V tp 3U		(feeds)		MPEG-2	6668 - 3/4	Australia/ New Zealand	B Richards 000909
12458 V tp 4L						South East	D Pemberton 010102
12480 V tp 4U						South East	D Pemberton 010102
12488 H tp 12L		9 Network	A	PAL EPAL	E	South East	G Bregar

Optus B1 © Lyngemark Satellite, last updated 2001-05-11 - <http://www.lyngsat.com/optusb1.shtml>

Optus B1 © Lyngemark Satellite, last updated 2001-05-11 - http://www.lyngsat.com/optusb1.shtml							
Freq. Tp	Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	Source Updated
12508 H tp 12U	(9 Network feeds)		PAL			South East	G Wright 990902
12518 V tp 5L	<u>Sky Satellite TV</u>	 	MPEG-2 Videoguard	22500 - 3/4		Australia/ New Zealand	T Baxter 001109
12546 V tp 5U	<u>Sky Satellite TV</u>	 	MPEG-2 Videoguard	22500 - 3/4		Australia/ New Zealand	T Baxter 000815
12581 V tp 6L	<u>Sky Satellite TV</u>	 	MPEG-2 Videoguard	22500 - 3/4		Australia/ New Zealand	T Baxter 000815
12608 V tp 6U	<u>Sky Satellite TV</u>	 	MPEG-2 Videoguard	22500 - 3/4		Australia/ New Zealand	T Baxter 000815
12644 V tp 7L	<u>Sky Satellite TV</u>	 	MPEG-2 Videoguard	22500 - 3/4		South East	T Baxter 000815
12671 V tp 7U	<u>Sky Satellite TV</u>	 	MPEG-2 Videoguard	22500 - 3/4		South East	T Baxter 001109
12675 H tp 15L	(feeds)		MPEG-2	6610 - 3/4		beam	B Richards 000917
12689 H tp 15						beam	D Pemberton 010102
12702 H tp 15U	(feeds)		MPEG-2	6610 - 3/4		beam	B Richards 000917
12707 V tp 8L	(feeds)		MPEG-2	6670 - 3/4		beam	B Richards 001111
12728 V tp 8	(9 Network feeds)		PAL			beam	T Papadopoulos 970520

Optus B1 © Lyngemark Satellite, last updated 2001-05-11 - <http://www.lyngsat.com/optusb1.shtml>

Colour codes on this satellite chart: analog, clear analog, encrypted B/D/D2-MAC digital, clear digital, encrypted interactive feeds

TV	clear	enc.
analog	0	2
digital	9	38

You are welcome to send updates and corrections to webmaster@lyngsat.com
 The logotypes are provided by [SatLogo](#) ©

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Exhibit 12

**Excerpts from Zee Television Materials Showing
New Zealand Viewership and Use of Optus Satellite For
Delivery**



Zee Australia/New Zealand Programme Guide
Click here to download latest Programme Guide

Select Channel

Select Day for the month of

Date : 5/14/01 Day : Monday Channel : Zee TV

Time	Program Name	Time	Program Name
00:30:00	Aasman Se Tapki	12:30:00	Whirlpool Mera Magic Mera Hom Khamoshiyan K Tak
01:00:00	Gaane Anjaane		
01:30:00	Tikdambaaz- Feature Film	13:00:00	Zee & U
04:15:00	News	13:30:00	Tarzan-Cinema
04:45:00	Yaadon Ke Pal	16:30:00	Ek Nazar
05:15:00	Old Is Gold	17:00:00	Nickleodeon on
05:30:00	Bhakti Bhav	18:00:00	Thief of Baghda
06:00:00	Amrit Kalash	19:00:00	Hamare Tumhar
06:30:00	Guldasta	19:30:00	Close Up Antaks
07:00:00	Nickleodeon on Zee	20:30:00	Rishtey
08:00:00	Jai Ganesha	21:30:00	India's Most Wa
09:00:00	Vishnu Puran	22:00:00	Aanchal Ki Chao Mein
10:00:00	Pradhan Mantri	22:30:00	Samander
11:00:00	Bournvita Quiz Contest	22:57:00	Intermission
11:30:00	Apun To Bus Aise Hi	23:00:00	Mehendi Tere N KI
12:00:00	Top of the Tops / First Take	23:30:00	Ankahee

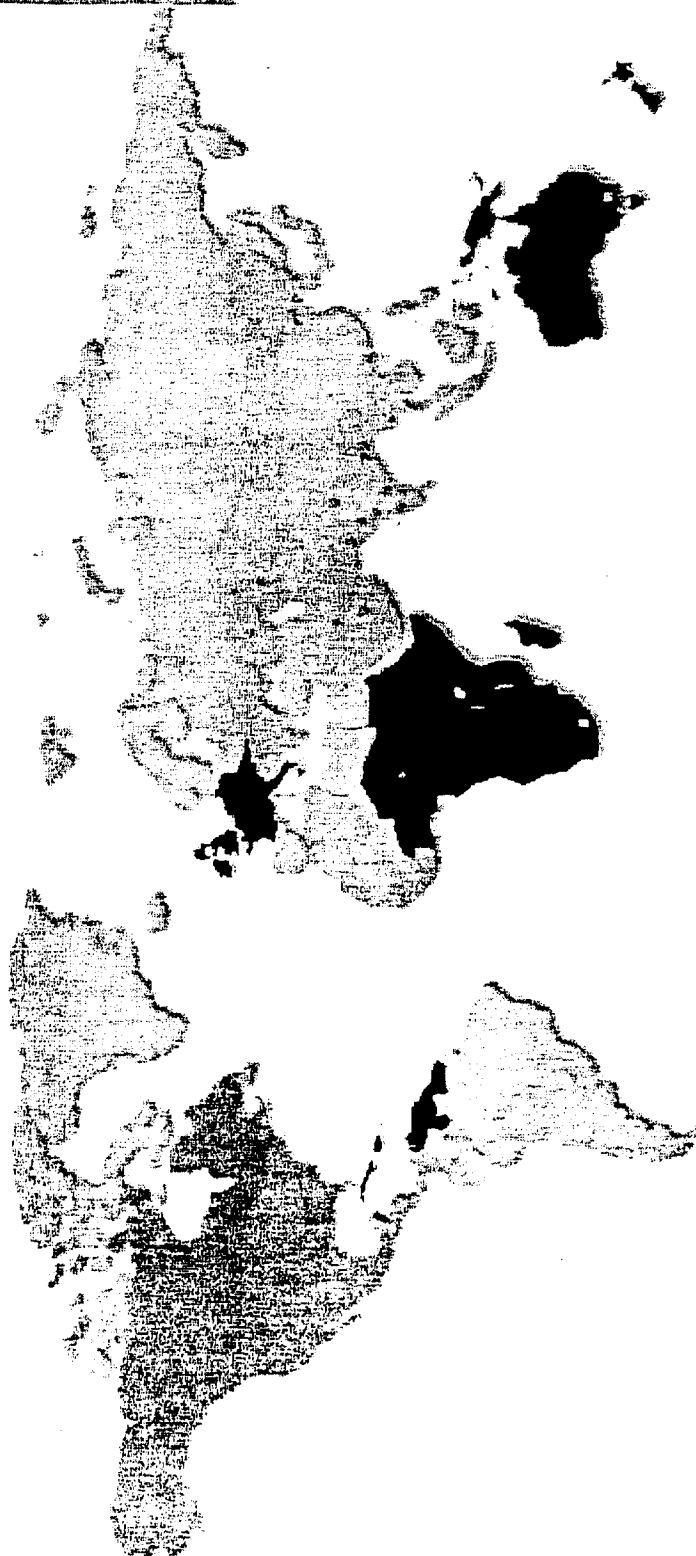
Programs listed in Eastern Standard Time. Please Note : Adelaide viewers subtra
Perth viewers 2 hours from and Auckland viewers add 2 hrs to all progra
Schedules are subject to change without prior notice. All information and sched
at the time of printing

ZENEX.COM

ZEE NETWORK

GLOBAL REACH

CONNECTING SOUTH ASIANS ACROSS THE GLOBE



● REPRESENTING ZEE OFFICES

EXISTING CONNECTIVITY		NEWER MARKETS	
Asia	- 29 million households	Australia	- 100,000 households
Europe	- 1,55,000 households	Canada	- 300,000 households
USA	- 65,000 households	Caribbean	- 50,000 households
Africa	- 35,000 households		

Map Not to Scale

FOOTPRINT

ASIA

asia

Alghanistan

Armenia

Australia

Azerbaijan

Bahrain

Bangladesh

Bhutan

Brunei

Cambodia

Cyprus

Egypt

Georgia

India

Indonesia

Iran

Iraq

Israel

Jordan

Kuwait

Kyrgyzstan

Laos

Lebanon

Malaysia

Myanmar

Nepal

New Zealand

Oman

Pakistan

Qatar

Saudi Arabia

Singapore

Sri Lanka

Syria

Tajikistan

Thailand

Turkey

Turkmenistan

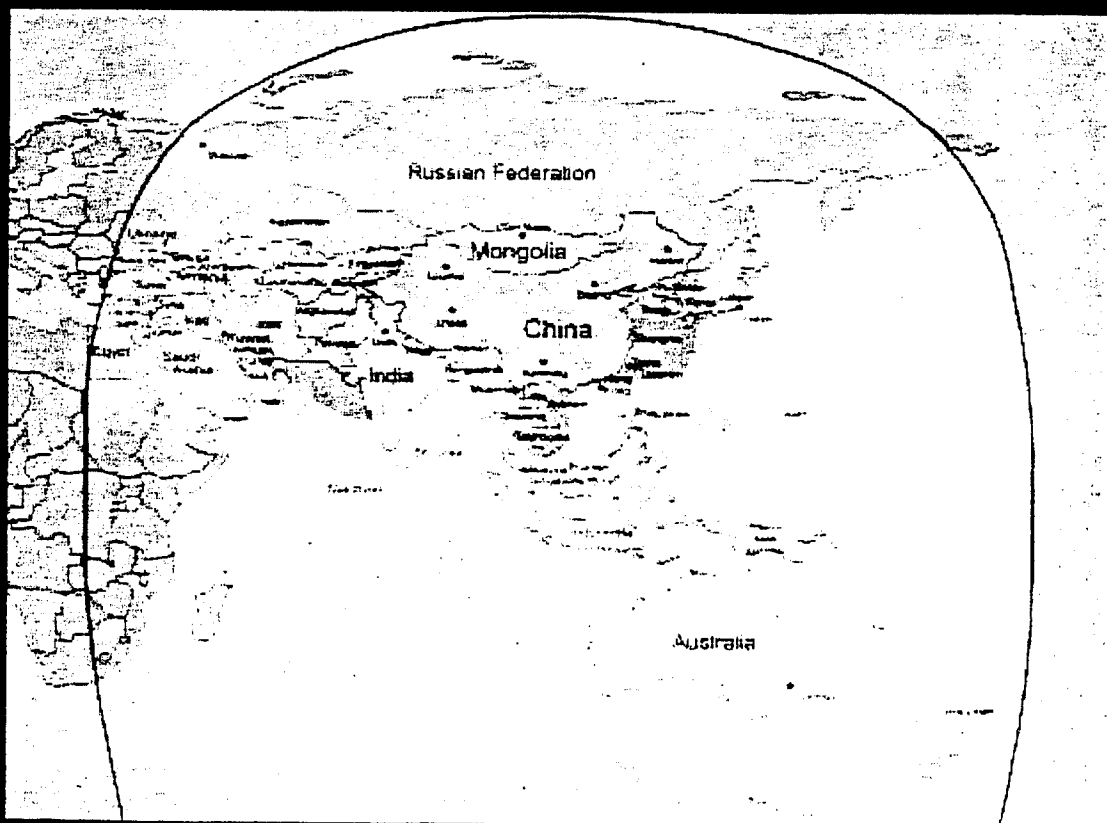
UAE

Ukraine

Uzbekistan

Vietnam

Yemen



Map - Not to Scale

ZEE AUSTRALIA/NEW ZEALAND

BRINGING TOGETHER ASIANS DOWN UNDER

Zee Network, the foremost satellite TV Network for South Asians in the world, announced its plans to bring home away from home for South Asians in Australia and New Zealand, by soft launch of its bouquet of satellite channels from August 1, 2000. Announcing this at a press conference held in Sydney, the CEO of Zee Telefilms Ltd. Mr. R.K. Singh said, 'Zee Network has always endeavoured to bring entertainment, information and happenings in the subcontinent for the South Asian viewers across the globe. Digital technology enables a wider choice and Zee is happy to invest substantially in serving South Asians in Australia and New Zealand with its bouquet of channels that deliver Hindi entertainment, Bollywood, South Asian music, news and rich cultural fare and entertainment from Punjab, Gujarat and Bengal. It is for the first time that Zee Network is delivering such a large bouquet of channels in an overseas market. Truly this is a compliment to the multi cultural ethos of Australia and New Zealand. With the launch of these

services the South Asian communities will get linked to South Asians across the globe.'

Present at a distinguished gathering on the occasion of the launch press conference were several eminent personalities that included His Excellency The Indian High Commissioner, The Consul General of Pakistan in Sydney and the Consul General of India in Sydney.

His Excellency, Mr. C.P. Ravindranathan inaugurated the media launch of the Zee Network services by lighting the auspicious lamp in a traditional ceremony. Mr. Ravindranathan said that the Indian community in Australia and New Zealand is increasingly becoming an important facet of the rich cultural mix of this great country. The rich traditions, values of India and the Sub-continent will, with the launch of Zee Network satellite services, bring home closer to community as well as help augment the cultural mix of this multi-racial and dynamic society.

The Zee bouquet of channels will have its soft launch on the 1st of August, 2000 with formal launch on the



Daayre
ZEE TV



Chingaari
ZEE TV

eve of Independence of India and Pakistan. The bouquet comprises –

- Zee TV** : General entertainment channel
- Zee Cinema** : Hindi movie channel
- Zee Music** : Hindi music channel (Formerly Music Asia)
- Zee News** : News and current affairs channel

ADD-ON CHANNELS

- Alpha Punjabi**: Punjabi language general entertainment channel.
- Alpha Gujarati**: Gujarati language general entertainment channel. (12 hrs. transmission)
- Alpha Bangla**: Bangla language general entertainment channel. (12 hrs. transmission)

These channels will be available on the Aurora platform, on the hotbird of Oceania – Optus B3 satellite. The marque Zee TV channel will come to viewers as per Australia and New Zealand prime time zone for the first time programming in their own prime time.

The subscribers to the service would be able to receive the programs of this bouquet through a small size dish (nominally 85 cm) and an Integrated Receiver Decoder capable of conditional access interface with the Aurora platform conditional access and subscriber management systems.

Zee Link, the marketing arm of Zee Network will arrange distribution through its authorised contractors a complete package for the installation of the equipment including cabling with option of easy financing.



Lakeeren

ZEE TV



Rishtey

ZEE TV



Professor Pyarelal

ZEE TV



Muskaan

ZEE TV

Exhibit 13
Optus B3 Listing of transport streams



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Main | Asia | Asia **DIG** | Asia XXXX | Headlines
Europe **DIG**

sorted by frequency | sorted by SID | sorted by channel number

LyngSat Digital Packages

Optus Aurora on Optus B3 at 156.0°E

Optus Aurora © Lyngemark Satellite. last updated 2001-05-15 - http://www.lyngsat.com/dig/aurora.shtml									
Freq. Tp		Channel Name		Enc. system	SID	VPID	APID	Beam	S U
12407 V tp 3 SR 30000 FEC 2/3		Optus Business TV 1		Irdeto	304	34	33	Australia New Zealand	D O
		Optus Business TV 2		Irdeto	305	62	61		O 9
		Optus Business TV 3		Irdeto	306	77	38		O O
		Sky Racing Channel 1-6		Irdeto	307	65	42		O 9
				Irdeto	308	65	67		
				Irdeto	311	65	68		
				Irdeto	312	65	66		
		⑩ Woolworths		Irdeto			39		
		⑩ High Energy		Irdeto			46		
		⑩ Ana Top 100		Irdeto			48		
		⑩ Cool Vibes		Irdeto			49		
		⑩ Classic Gold		Irdeto			51		
		⑩ RPH - Radio for the Print Handicapped		Irdeto			60		
		⑩ Big W Radio		Irdeto			69		
		⑩ WBU - World Blind Union					98		
		⑩ Country - Contemporary		Irdeto	321		50		
		⑩ Country Beat		Irdeto	325		47		
		⑩ Rock Radio		Irdeto	327		45		
		⑩ Coles		Irdeto	329		73		
		⑩ TAB Queensland		Irdeto	330		57		
		⑩ National Indigenous Radio Service		Irdeto	331		56		
		⑩ BBC World Service		Irdeto	333		75		
		⑩ CBAA		Irdeto	334		74		

12532 V tp 5 SR 30000 FEC 2/3		UCB - United Christian Broadcasting	A	Irdeto	338		55	Australia/ New Zealand	
		Radio Italia	A	Irdeto	339		32		
		SBS South East	A	Irdeto	501	512	513		
		SBS Western	A	Irdeto	503	560	561		
		Lashkara Channel	A	Irdeto	505	2048	2049		
		Gurjari Channel	A	Irdeto	506	2064	2065 Gur		
		SBS Radio South East	A	Irdeto	521		514		
12595 V tp 6 SR 30000 FEC 3/4		Tune Info				55		National	
		ABC TV Western	A	Irdeto	601	800	801		
		GWN - Golden West Network	A	Irdeto	602	69	70		
		Westlink TAFE Educational TV	A	Irdeto	603	37	38		
		Win TV West	A	Irdeto	604	56	35		
		ABC TV Northern	A	Irdeto	609	832	833		
		Imparja TV	A	Irdeto	610	1024	1025		
		Imparja PTTV	A	Irdeto	611	1040	1041		
		990 AM		Irdeto			60		
		ABC Radio South West WA (Bunbury)	A	Irdeto			807		
		PAK AM - Pilbara and Kimberly Aboriginal Media		Irdeto			1060		
		Arrow One					1062		
		ABC Classic FM Western	A	Irdeto	622		804		
		ABC Radio National Western	A	Irdeto	623		806		
		ABC Radio North West WA (Karratha)	A	Irdeto	624		805		
		ABC Classic FM Northern	A	Irdeto	632		836		
		ABC Radio National Northern	A	Irdeto	633		838		
		ABC Territory Radio (Alice Springs)	A	Irdeto	634		837		
		Caama Music	A	Irdeto	635		1056		
		Teab-ba Radio		Irdeto	636		1057		
		Umuwa Radio		Irdeto	637		1058		

		⑧ TAB Northern		Irdeto	638		1059		
12658 V tp 7 SR 30000 FEC 2/3		Zee TV Australia	A	Irdeto				Australia/ New Zealand	T
		Zee Cinema	A	Irdeto					T
		Zee Music	A	Irdeto					T
		Zee News	A	Irdeto					T
		Alpha TV Punjabi	A	Irdeto					T
		Alpha TV Gujarati	A	Irdeto			Guj		T
		Alpha TV Bangla	A	Irdeto					T
12720 V tp 8 SR 30000 FEC 3/4		CentreLink		Irdeto		33	32	National	J
		ABC TV South	A	Irdeto	801	816	817		P
		SBS South	A	Irdeto	802	544	545		P
		ABC TV Queensland	A	Irdeto	804	784	785		P
		7 Central	A	Irdeto	805	1280	1281		A
		SBS Queensland	A	Irdeto	806	528	529		P
		ABC TV South East	A	Irdeto	810	768	769		P
		⑧ ABC Radio Far North Queensland (Cairns)	A	Irdeto			791		
		⑧ Tiama		Irdeto			1284		
		⑧ ABC Classic FM South	A	Irdeto	821		820		
		⑧ ABC Radio National South	A	Irdeto	822		822		
		⑧ Radio 639 ABC North & West SA (Port Pirie)	A	Irdeto	823		821		
		⑧ SBS Radio South	A	Irdeto	824		546		
		⑧ ABC Classic FM Queensland	A	Irdeto	827		788		
		⑧ ABC Radio National Queensland	A	Irdeto	828		790		
		⑧ ABC Radio Western Queensland (Longreach)	A	Irdeto	829		789		
		⑧ SBS Radio Queensland	A	Irdeto	831		530		
		⑧ ABC Triple J	A	Irdeto	832		775		
		⑧ ABC NewsRadio	A	Irdeto	833		776		
		⑧ ABC Classic FM South		Irdeto	837		772		

	East	A				
	ABC Radio National South East	A	Irdeto	838		774
	ABC Radio Western Plains (Dubbo)	A	Irdeto	839		773

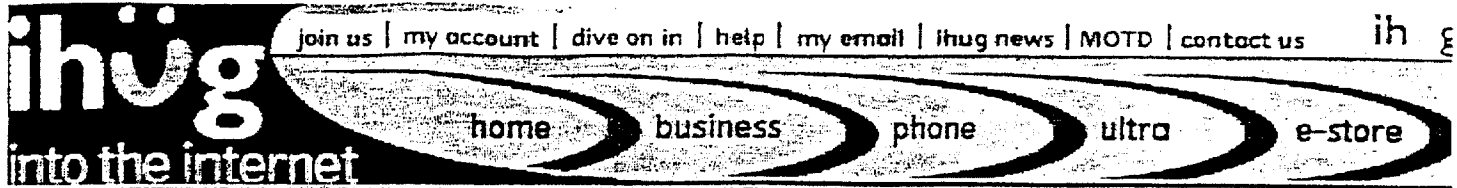
Optus Aurora © Lyngemark Satellite, last updated 2001-05-15 - <http://www.lyngsat.com/dig/aurora.shtml>

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Exhibit 14
Ihug New Zealand Terrestrial Coverage Maps

**ULTRA**

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- ▶ ULTRA Specials
- ▶ ULTRA Services
- ▶ ULTRA Showdown
- ▶ ULTRA Cool
- ▶ ULTRA FAQ
- ▶ ULTRA Support
- ▶ ULTRA Multicast
- ▶ ULTRA Drivers



Auckland Service Coverage Map

Black areas may or may not be in line of sight to the Sky Tower or Waiatarua transmission tower.
Green areas are in line of sight to the Sky Tower or Waiatarua transmission towers.

Please note that this map is approximate only.

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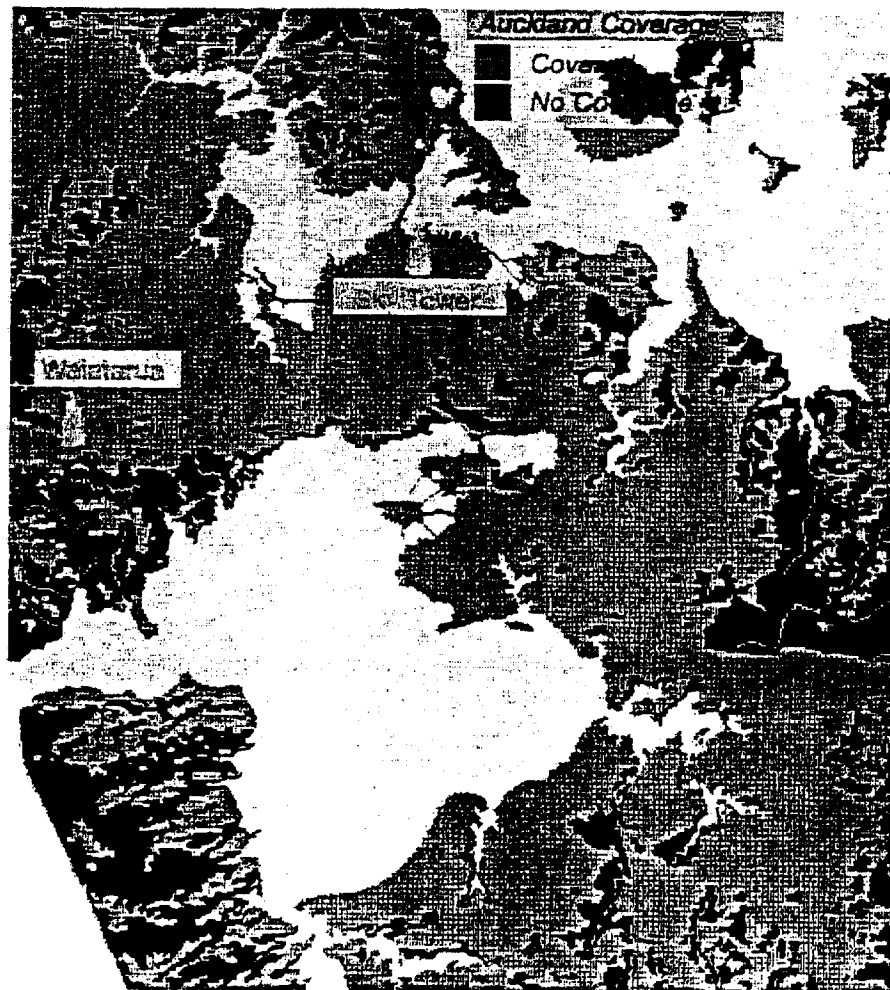


Exhibit 15
Email from IHUG

----- Forwarded Message

From: "Brian Willicott" <Brian.W@staff.iuhug.co.nz>

Date: Mon, 14 May 2001 11:04:21 +1200

To: "Kirk Kirkpatrick" <kirk@telecons.com>

Subject: Re: Thanks again

No problem glad to help you at all. You were quite lucky to get a hold of me I'm Head computer lab technician here when not doing some CSR work.

For further reference that you might like here are our current settings
DBS/PAS-2 is our satellite service all others are local transmitters.

DBS -Satelite

Local Oscillator 11300 (10750 for Bell LNB, 11000 for Zinwell LNB)

Tone Burst Disable

DiSEqC Disable

22KHz Off

LNB Power On

Downlink Frequency 12480MHz

Symbol Rate 19.443

Polarity HOR / VER

PID 8c (hex) MPE (MultiProtocol Encapsulation)

Skytower/Waiatarua

Local Oscillator 10750 (11300 for Funke LNB, 11000 for Zinwell LNB)

Tone Burst Disable

DiSEqC Disable

22KHz Off

LNB Power On

Downlink Frequency 12266 mhz, 12480 mhz

Symbol Rate 27.500

Polarity Horizontal (Skytower)

PID 88 (hex) 136 (dec) MPE (MultiProtocol Encapsulation)

As you can see the PID is usually 88 for most data where as we have a different pid for the MPEG-2 Data.