



COMMERCE COMMISSION

**STANDARD TERMS DETERMINATION
FOR CHORUS' UNBUNDLED
BITSTREAM ACCESS BACKHAUL
SERVICE**

**SCHEDULE 5
UBA BACKHAUL POI SITE RELATED
INFORMATION
PUBLIC VERSION**

27 June 2008

Updated to incorporate Commerce Commission decisions, amendments, and clarifications through
5 October 2012

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1 Content of Schedule 5

- 1.1 This schedule is part of the UBA Backhaul Terms, which set out the rights and obligations of Chorus and Access Seekers in relation to Chorus' unbundled bitstream access backhaul service (**UBA Backhaul Service**). It sets out to the extent necessary:
- 1.1.1 A list of POI Sites for interconnection to the UBA Backhaul Service – Appendix A; and
 - 1.1.2 Details of the Primary Links and Secondary Links where the UBA Backhaul Service is available – Appendix B; and
 - 1.1.3 Lists of the radial distances for Primary Links and Secondary Links, between Parent POI Sites and associated FDSs, and between POI Sites – Appendix C.
- 1.2 The definitions set out in the UBA Backhaul General Terms and the UBA Backhaul Service Description apply to the extent that they are not expressly modified by or inconsistent with the context of this Schedule 5.

Appendix A – Lists of POI Sites for interconnection to the UBA Backhaul Service

List of POI Sites

Notes:

This list set outs the 29 POI Sites where Access Seekers may interconnect for the purposes of the UBA Backhaul Service. This list must be made available to Access Seekers via a secure Chorus web portal and must be regularly updated by Chorus where required.

Christchurch
Cromwell
Dunedin
Glenfield
Greymouth
Hamilton
Henderson
Howick
Invercargill
Kerikeri
Levin
Auckland Central
Mt Albert
Naenae
Napier
Nelson
New Plymouth
Palmerston North
Papakura
Papatōetoe
Porirua
Remuera
Riccarton
Rotorua
Tauranga
Timaru
Torbay
Wellington
Whangarei

Appendix B – Links where the UBA Backhaul Service is available

Primary Links

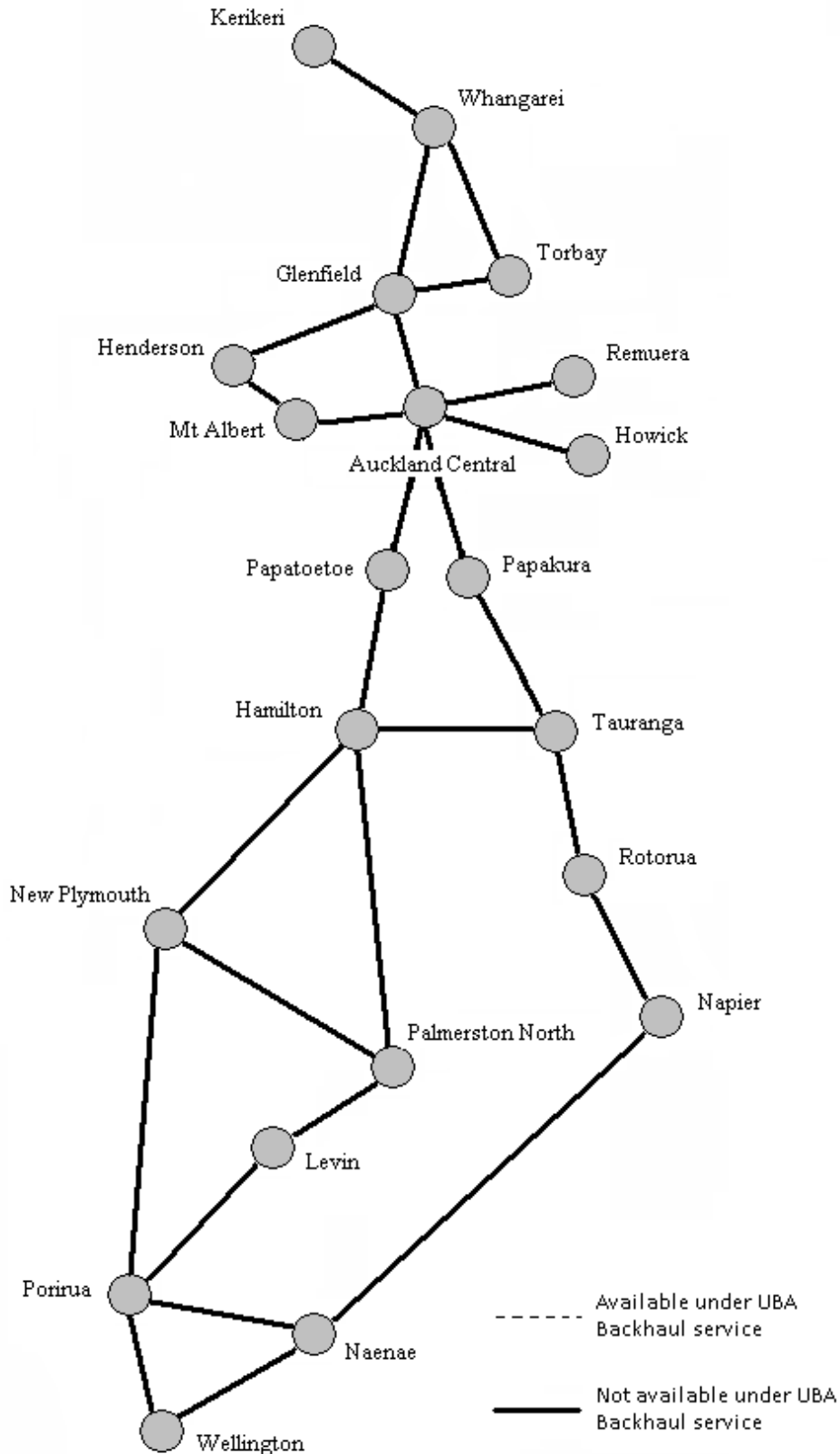
Subject to the terms of the UBA Backhaul Service Description, the table below shows the Primary Links on which the UBA Backhaul Service must be supplied by Chorus on the request of the Access Seeker:

First data switch	Parent POI
Kaitaia	Kerikeri
Helensville	Henderson
Waiheke	Howick
Coromandel	Hamilton
Tairua	Hamilton
Thames	Hamilton
Wairoa	Napier
Hokitika	Greymouth
Reefton	Greymouth
Westport	Greymouth
Darfield	Riccarton
Akaroa	Christchurch
Kurow	Timaru
Fairlie	Timaru
Alexandra	Cromwell
Ranfurly	Cromwell
Roxburgh	Cromwell
Twizel	Cromwell
Te Anau	Invercargill
Tuatapere	Invercargill

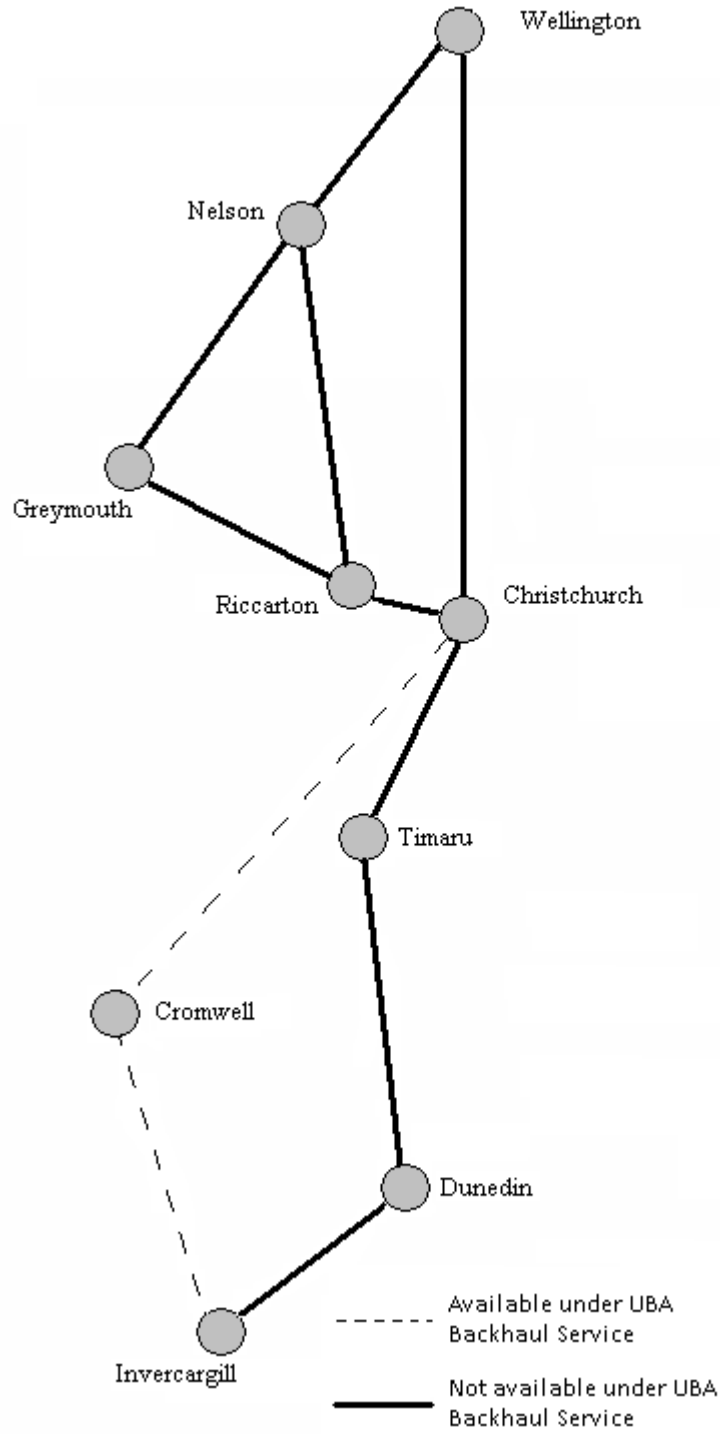
Secondary Links

Subject to the terms of the UBA Backhaul Service Description, the diagrams below show the Secondary Links where the UBA Backhaul Service must be supplied by Chorus on the request of the Access Seeker and where Chorus is not required to supply the UBA Backhaul Service:

North Island:



South Island:



Appendix C – Radial distances for the UBA Backhaul Service

Radial Distance – FDS to Parent POI – Primary Links

Notes:

This table sets out a view of the actual and some potential locations of FDS over the next twelve months and is subject to change. The timings and coverage area of any expansion of the ADSL2+ coverage area will determine the actual timeframe for new FDSs for the purposes of the UBA Backhaul Services.

This list must be made available to Access Seekers via a secure Chorus web portal and must be regularly updated by Chorus where required.

Code	FDS	Parent POI	Radial Distance from FDS to Parent POI	FDS Installed
AK	AKAROA	CHRISTCHURCH	40	Installed
AL	ALEXANDRA	CROMWELL	28	Installed
AY	AMBERLEY	CHRISTCHURCH	43	Installed
AR	ASHBURTON	CHRISTCHURCH	82	Installed
BL	BALCLUTHA	DUNEDIN	71	Installed
BM	BLENHEIM	WELLINGTON	73	Installed
CH	CHRISTCHURCH	CHRISTCHURCH	0	Installed
CL	COROMANDEL	HAMILTON	116	Installed
CMW	CROMWELL	CROMWELL	0	Installed
CVD	CULVERDEN	CHRISTCHURCH	86	Installed
DV	DANNEVIRKE	NAPIER	106	Installed
DRF	DARFIELD	RICCARTON	39	Installed
DRL	DARGAVILLE	WHANGAREI	47	Installed
DN	DUNEDIN	DUNEDIN	0	Installed
FK	FAIRLIE	TIMARU	47	Installed
FN	FEATHERSTON	NAENAE	33	Installed
GS	GISBORNE	NAPIER	132	Installed
GLF	GLENFIELD	GLENFIELD	0	Installed
GG	GORE	INVERCARGILL	58	Installed
GM	GREYMOUTH	GREYMOUTH	0	Installed
HN	HAMILTON	HAMILTON	0	Installed
HBN	HASTINGS	NAPIER	18	Installed
HW	HAWERA	NEW PLYMOUTH	62	Installed
HL	HELENSVILLE	HENDERSON	28	Installed
HSN	HENDERSON	HENDERSON	0	Installed
HK	HOKITIKA	GREYMOUTH	36	Installed
HCK	HOWICK	HOWICK	0	Installed
IN	INVERCARGILL	INVERCARGILL	0	Installed
KK	KAIKOURA	CHRISTCHURCH	151	Installed
KTA	KAITAIA	KERIKERI	64	Installed
KC	KERIKERI	KERIKERI	0	Installed
KOW	KUROW	TIMARU	73	
LVN	LEVIN	LEVIN	0	Installed
LMS	LUMSDEN	INVERCARGILL	75	Installed
MAM	MATAMATA	HAMILTON	43	Installed
MS	MASTERTON	NAENAE	66	Installed

MDR	MAYORAL DRIVE	MAYORAL DRIVE	0	Installed
MU	MOTUEKA	NELSON	29	Installed
MAB	MT ALBERT	MT ALBERT	0	Installed
MMN	MT MAUNGANUI	TAURANGA	6	Installed
NAE	NAENAE	NAENAE	0	Installed
NA	NAPIER	NAPIER	0	Installed
NN	NELSON	NELSON	0	Installed
NU	NEW PLYMOUTH	NEW PLYMOUTH	0	Installed
OU	OAMARU	TIMARU	81	Installed
OKN	OHAKUNE	PALMERSTON NORTH	106	Installed
PL	PALMERSTON	DUNEDIN	47	Installed
PM	PALMERSTON NORTH	PALMERSTON NORTH	0	Installed
PHA	PAHIATUA	PALMERSTON NORTH	22	Installed
PAK	PAPAKURA	PAPAKURA	0	Installed
POP	PAPATOETOE	PAPATOETOE	0	Installed
PRM	PARAPARAUMU	PORIRUA	28	Installed
PRO	PORIRUA	PORIRUA	0	Installed
QST	QUEENSTOWN	CROMWELL	43	Installed
RNF	RANFURLY	CROMWELL	71	Installed
RR	RANGIORA	RICCARTON	25	Installed
RDB	RED BEACH	TORBAY	11	Installed
RN	REEFTON	GREYMOOUTH	65	Installed
RUE	REMUERA	REMUERA	0	Installed
RIC	RICCARTON	RICCARTON	0	Installed
ROL	ROLLESTON	RICCARTON	18	Installed
RO	ROTORUA	ROTORUA	0	Installed
RXB	ROXBURGH	CROMWELL	56	Installed
TPE	TAIHAPE	PALMERSTON NORTH	77	Installed
TAR	TAIRUA	HAMILTON	101	Installed
TMN	TAUMARUNUI	HAMILTON	122	Installed
TPO	TAUPO	ROTORUA	63	Installed
TG	TAURANGA	TAURANGA	0	Installed
TNU	TE ANAU	INVERCARGILL	121	Installed
TUW	TE KAUPHATA	HAMILTON	44	Installed
TKT	TE KUITI	HAMILTON	61	Installed
TK	TEMIKA	TIMARU	17	Installed
TH	THAMES	HAMILTON	76	Installed
TU	TIMARU	TIMARU	0	Installed
TBY	TORBAY	TORBAY	0	Installed
TTE	TUATAPERE	INVERCARGILL	59	Installed
TGI	TURANGI	HAMILTON	141	Installed
TWL	TWIZEL	CROMWELL	113	Installed
UP	UPPER HUTT	NAENAE	11	Installed
WH	WAIHEKE	HOWICK	16	
WY	WAIPUKURAU	NAPIER	64	Installed
WA	WAIROA	NAPIER	67	Installed

WNK	WANAKA	CROMWELL	39	Installed
WG	WANGANUI	PALMERSTON NORTH	67	Installed
WW	WARKWORTH	TORBAY	34	Installed
WN	WELLINGTON	WELLINGTON	0	Installed
WFD	WELLSFORD	TORBAY	48	Installed
WP	WESTPORT	GREYMOUTH	83	Installed
WHK	WHAKATANE	TAURANGA	78	Installed
WR	WHANGAREI	WHANGAREI	0	Installed

Radial Distance – Parent POI to ASNAPOI – Secondary Links

Parent POI	Auckland										
	ASNAPOI	Central	Christchurch	Cromwell	Dunedin	Glenfield	Greymouth	Hamilton	Henderson	Howick	Invercargill
AUCKLAND CENTRAL		0	763	1022	1063	9	692	113	12	15	1188
CHRISTCHURCH	763		0	321	311	771	167	676	758	762	466
CROMWELL	1023	321		0	137	1029	331	952	1015	1024	166
DUNEDIN	1063	311	137		0	1070	385	982	1057	1063	177
GLENFIELD	9	771	1029	1070		0	698	123	14	22	1194
GREYMOOUTH	692	167	331	385	698		0	623	685	694	496
HAMILTON	114	676	952	982	123	623		0	116	104	1115
HENDERSON	12	758	1015	1057	14	685	116		0	26	1180
HOWICK	15	762	1024	1063	22	694	104	26		0	1189
INVERCARGILL	1188	466	166	177	1194	496	1115	1180	1189		0
KERIKERI	195	929	1162	1218	185	836	308	193	205		1328
LEVIN	420	391	699	701	429	396	314	419	414		853
MT ALBERT	4	760	1019	1060	11	688	112	8	17		1184
NAENAE	482	322	633	632	491	340	379	480	477		785

	Auckland										
ASNAPOI	Central	Christchurch	Cromwell	Dunedin	Glenfield	Greymouth	Hamilton	Henderson	Howick	Invercargill	
Parent POI											
NAPIER	348	574	886	883	357	582	236	352	337	1038	
NELSON	507	257	535	559	514	216	423	501	506	695	
NEW PLYMOUTH	252	511	777	812	260	447	176	247	251	941	
PALMERSTON NORTH	396	430	739	741	405	435	286	395	389	893	
PAPAKURA	28	745	1009	1046	37	678	86	34	18	1174	
PAPATOETOE	16	752	1014	1053	25	683	98	23	11	1179	
PORIRUA	476	322	632	633	484	336	374	473	471	785	
REMUERA	3	761	1021	1061	12	691	111	14	12	1186	
RICCARTON	764	4	318	309	772	164	677	759	763	463	
ROTORUA	194	672	965	982	203	642	93	200	181	1126	
TAURANGA	155	713	1001	1022	163	675	78	163	141	1163	
TIMARU	888	147	178	175	895	216	808	882	888	319	
TORBAY	17	779	1037	1079	9	706	130	22	28	1202	
WELLINGTON	491	306	617	616	500	323	390	489	487	769	
WHANGAREI	131	878	1122	1172	122	793	244	131	141	1288	

ASNAPOI	Kerikeri	Levin	Mt Albert	Naenae	Napier	Nelson	New Plymouth	Palmerston North	Papakura	Papatoetoe
Parent POI										
AUCKLAND										
CENTRAL	195	420	4	482	348	507	252	395	28	16
CHRISTCHURCH	929	391	760	322	574	257	511	430	745	752
CROMWELL	1162	699	1019	633	886	535	777	739	1009	1014
DUNEDIN	1218	701	1060	632	883	559	812	741	1046	1053
GLENFIELD	185	429	11	491	357	514	260	405	37	25
GREYMOOUTH	836	396	688	340	582	216	447	435	678	683
HAMILTON	308	314	112	379	236	423	176	286	86	98
HENDERSON	193	419	8	480	352	501	247	395	34	23
HOWICK	205	414	17	477	337	506	251	389	18	11
INVERCARGILL	1328	853	1184	785	1038	695	941	893	1174	1179
KERIKERI	0	610	196	668	541	673	425	587	222	210
LEVIN	610	0	418	70	187	184	202	40	396	406
MT ALBERT	196	418	0	480	347	503	249	394	28	16
NAENAE	668	70	480	0	253	139	248	109	459	468

ASNAPOI	Kerikeri	Levin	Mt Albert	Naenae	Napier	Nelson	New Plymouth	Palmerston North	Papakura	Papatoetoe
Parent POI										
NAPIER	541	187	347	253	0	366	250	147	320	332
NELSON	673	184	503	139	366	0	255	221	489	496
NEW PLYMOUTH	425	202	249	248	250	255	0	195	234	241
PALMERSTON NORTH	587	40	394	109	147	221	195	0	370	381
PAPAKURA	222	396	28	459	320	489	234	370	0	12
PAPATOETOE	210	406	16	468	332	496	241	381	12	0
PORIRUA	661	69	473	10	254	132	240	108	453	462
REMUERA	198	418	5	480	345	505	250	393	25	13
RICCARTON	929	393	761	324	576	258	512	433	746	753
ROTORUA	383	288	194	358	161	431	215	252	166	178
TAURANGA	338	333	156	402	209	467	236	299	129	141
TIMARU	1044	535	885	466	719	385	638	575	872	878
TORBAY	178	438	20	499	364	523	268	413	44	33
WELLINGTON	676	85	489	17	269	125	254	125	469	478
WHANGAREI	65	549	133	609	476	622	370	526	158	147

ASNAPOI	Porirua	Remuera	Riccarton	Rotorua	Tauranga	Timaru	Torbay	Wellington	Whangarei
Parent POI									
AUCKLAND									
CENTRAL	476	3	764	194	155	888	18	491	131
CHRISTCHURCH	322	761	4	672	713	147	779	306	878
CROMWELL	632	1021	318	965	1001	178	1037	617	1122
DUNEDIN	633	1061	309	982	1022	175	1079	616	1172
GLENFIELD	484	12	772	203	163	895	9	500	122
GREYMOUTH	336	691	164	642	675	216	706	323	793
HAMILTON	374	111	677	93	78	808	130	390	244
HENDERSON	473	14	759	200	163	882	22	489	131
HOWICK	471	12	763	181	141	888	28	487	141
INVERCARGILL	785	1186	463	1126	1163	319	1202	769	1288
KERIKERI	661	198	929	383	338	1044	178	676	65
LEVIN	69	418	393	288	333	535	438	85	549
MT ALBERT	473	5	761	194	156	885	20	489	133
NAENAE	10	480	324	358	402	466	499	17	609
NAPIER	254	345	576	161	209	719	364	269	476
NELSON	132	505	258	431	467	385	523	125	622

ASNAPOI	Porirua	Remuera	Riccarton	Rotorua	Tauranga	Timaru	Torbay	Wellington	Whangarei
Parent POI									
NEW PLYMOUTH	240	250	512	215	236	638	268	254	370
PALMERSTON NORTH	108	393	433	252	299	575	413	125	526
PAPAKURA	453	25	746	166	129	872	44	469	158
PAPATOETOE	462	13	753	178	141	878	33	478	147
PORIRUA	0	473	325	354	398	466	493	17	602
REMUERA	473	0	762	191	152	887	20	489	134
RICCARTON	325	762	0	674	714	144	780	308	879
ROTORUA	354	191	674	0	49	811	209	371	318
TAURANGA	398	152	714	49	0	850	168	415	274
TIMARU	466	887	144	811	850	0	904	450	997
TORBAY	493	20	780	209	168	904	0	509	114
WELLINGTON	17	489	308	371	415	450	509	0	618
WHANGAREI	602	134	879	318	274	997	114	618	0