

WBA5 **nbn**[®] Fixed Wireless High Speed Tiers Rider Booklet

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Dictionary

Fixed Wireless Home Fast means the **nbn[®]** Ethernet AVC TC-4 bandwidth profile described as such in section 3.2(a) of the **nbn[®]** Ethernet Product Description.

Fixed Wireless Superfast means the **nbn[®]** Ethernet AVC TC-4 bandwidth profile described as such in section 3.2(a) of the **nbn[®]** Ethernet Product Description.

Subsequent Installation means any Installation by **nbn** (or an Installer) which is not an Initial Standard Installation, an Initial Non Standard Installation, an FTTC/Fibre Upgrade Installation, a **W-NTD Upgrade Installation**, a Professional Wiring Service in connection with **nbn[®]** Ethernet (FTTB) and **nbn[®]** Ethernet (FTTN) or an Access Component Reactivation, and includes an FTTC/FTTN Subsequent Installation and FTTC Subsequent Installation but does not include any Installation at an Approved Non-Premises Location.

W-NTD Upgrade Installation means an Installation of a W-NTD in respect of a Premises where the following conditions are met:

- (a) the Premises is in the footprint of the Wireless Network and is Serviceable for the purposes of **nbn[®]** Ethernet (Wireless);
- (b) RSP has ordered an AVC TC-4 with a Fixed Wireless Home Fast or Fixed Wireless Superfast bandwidth profile;
- (c) to supply an AVC TC-4 with the ordered Fixed Wireless Home Fast or Fixed Wireless Superfast bandwidth profile, **nbn** has determined that it needs to install a model of W-NTD that is newer than the version already installed at the Premises; and
- (d) the Installation would otherwise be a Subsequent Installation.

[...]

nbn[®] Ethernet Product Description

Part B: Required Product Components

3. Access Virtual Circuit (AVC)

3.2 AVC TC-4

(a) Subject to sections 3.2(b) to 3.2(d), the AVC TC-4 bandwidth profiles are:

AVC TC-4 downstream Mbps (PIR) ¹	AVC TC-4 upstream Mbps (PIR) ¹	nbn [®] Network
12	1	Fibre, FTTB, FTTN, FTTC, HFC, Wireless and Satellite
25	5	Fibre, FTTB, FTTN, FTTC, HFC, Wireless and Satellite
25	5 - 10 ²	FTTB and FTTN



25		10	Fibre, FTTC and HFC
25 - 50 ²		5 - 20 ²	FTTB and FTTN
50		20	Fibre, FTTC and HFC
Wireless Plus	(up to <u>10075</u> Mbps) ³	(up to <u>2010</u> Mbps) ³	Wireless
Home Fast	(25-100) ²	(5-20) ²	FTTB and FTTN
	(50-100) ²	(20) ²	FTTC
	(100)	(20)	Fibre and HFC
<u>Fixed Wireless Home Fast</u> ^{6, 7}	<u>(200-250)²</u>	<u>(8-20)²</u>	<u>Wireless</u>
25 - 100 ²		5 - 40 ²	FTTB and FTTN
50 - 100 ²		20 - 40 ²	FTTC
100		40	Fibre and HFC
<u>Fixed Wireless Superfast</u> ^{6, 8}	<u>400</u>	<u>(10-40)²</u>	Wireless
Home Superfast	(250)	(25)	Fibre and HFC
250		100	Fibre
500		200	Fibre
Home Ultrafast	(500 to ~1000) ^{2, 4, 5}	(50)	Fibre and HFC
1000 ⁴		400	Fibre

Notes:

[...]

² Where the bandwidth profile is expressed as a range, the range shows the maximum PIR which may be achieved at the nbn® Network Boundary for the relevant bandwidth profile. The PIR can fall anywhere in the range for the relevant bandwidth profile in respect of a particular AVC TC-4 used to serve a Premises (they are not minimum-maximum PIR ranges).

³ These Information Rates are potential maximum Information Rates. They are not PIR or CIR commitments, and must be read subject to sections 3.8 and 13. In particular:

- Wireless Plus Ordered Products may never achieve the potential maximum Information Rates for Wireless Plus noted above, including due to the factors set out in sections 3.8 and 13; ~~and~~
- the speeds achieved by a Wireless Plus Ordered Product will vary, and the actual downstream and upstream Information Rates may be significantly less than the maximum Information Rate that may be achieved at the Premises, particularly in busy periods; ~~and~~
- Wireless Plus supplied to Premises that have a W-NTD version 1 or W-NTD version 2 installed will not achieve Information Rates in excess of the maximum aggregate upstream and downstream throughput of these W-NTD versions.

[...]

⁶ These bandwidth profiles will only be available on and from the Commercial Launch Date notified by nbn.



⁷ Only available at Premises that have a W-NTD version 3 or any later version installed.

⁸ Only available at Premises that have a W-NTD version 4 or any later version installed.

[...]

3.3 AVC TC-1

(a) The AVC TC-1 bandwidth profiles are:

AVC TC-1 symmetrical Mbps (CIR)	nbn® Network
0	Fibre, FTTB, FTTN, FTTC, HFC, Wireless and Satellite
0.15	Fibre, FTTB, FTTN, FTTC, HFC, Wireless and Satellite
0.3	Fibre, FTTB, FTTN, FTTC, HFC and Wireless
0.5	Fibre, FTTB, FTTN, FTTC and HFC
1	Fibre, FTTB, FTTN, FTTC and HFC
2	Fibre, FTTB, FTTN, FTTC and HFC
5	Fibre, FTTB, FTTN, FTTC and HFC*

[...]

3.8 Wireless Plus Information Rate

(a) No PIR or CIR applies in respect of Wireless Plus.

(b) A reference to the potential maximum Information Rate of Wireless Plus:

- (i) is a reference to the maximum Information Rate that may be achieved by means of Wireless Plus; and
- (ii) is a potential maximum in optimal conditions and is not a reference to the maximum Information Rate that may be achieved by every, or any, Wireless Plus Ordered Product (and speeds achievable may be significantly lower).

(c) Each Wireless Plus Ordered Product may reach no more than an Information Rate of at least:

- (i) 25 Mbps downstream and 5 Mbps upstream at least once during a 24 hour period, for a Wireless Plus Ordered Product supplied to a Premises with a W-NTD version 1 or W-NTD version 2 installed; or
- (ii) 75 Mbps downstream and 8 Mbps upstream at least once during a 24 hour period, for a Wireless Plus Ordered Product supplied to a Premises with a W-NTD version 3 or any later version installed.

(d) In respect of a particular Wireless Plus Ordered Product:

- (i) the maximum downstream and upstream Information Rates that may be achieved at the Premises will be affected by a number of factors including those described in



section 13.2(f), and may be significantly less than the potential maximum Information Rate; and

- (ii) the downstream and upstream Information Rates actually achieved by the Wireless Plus Ordered Product will vary and may be significantly less than the maximum Information Rate that may be achieved at the Premises, particularly in busy periods, depending upon a number of factors including those factors described in section 13.1(b).

Note: By way of example only, a Premises situated on the edge of a Wireless Network cell may not be capable of achieving a maximum Information Rate of ~~100/2075/10~~ Mbps, even in optimal conditions and during periods of limited/no contention. If the Premises has a W-NTD version 3 or later version installed, the maximum Information Rate achievable at that premises may be no more than 75/825/5 Mbps at least once during a 24 hour period.

[...]

Section 13 describes factors that are relevant to the speed, performance and availability of nbn® Ethernet.

13. Speeds, performance and availability

[...]

13.2 Line Rate and Information Rate

RSP must consider, and acknowledges, the following matters in connection with nbn's supply of each nbn® Ethernet Ordered Product:

[...]

- (f) whether or not a particular Wireless Plus Ordered Product is capable of achieving the potential maximum Information Rate set out in section 3.2(ad) will vary and depend upon a number of factors including:
 - (i) the location of the Premises to which that Ordered Product is supplied relative to the Wireless Network cell used to serve that Premises;
 - (ii) the nature and quality of signal reception (including any line-of-sight interference, weather, other wireless signals, and prevailing radio conditions) at, or affecting, that Premises; and
 - (iii) the maximum aggregate throughput of the W-NTD using which that Ordered Product is supplied, as set out in section 13.3(c).

Commented [A1]: Note to RSPs: This is a minor correction of a cross-referencing error.

13.3 NTD Throughput Limits

- (a) This section 13.3 applies to each of nbn® Ethernet (Fibre), nbn® Ethernet (HFC), nbn® Ethernet (Wireless) and nbn® Ethernet (Satellite).
- (b) If the aggregate PIR bandwidth profiles of ordered products supplied to the same NTD exceed the NTD maximum aggregate throughput set out in section 13.3(c), the ordered products supplied to that NTD may not achieve maximum peak data throughput simultaneously.
- (c) The maximum aggregate throughput for an NTD in respect of all UNIs on that NTD are:



nbn® Network	Downstream (Mbps)	Upstream (Mbps)
Fibre	1000	1000
HFC	1000	400
Wireless	80 for W-NTD version 1*	8.62 for W-NTD version 1*
	108 for W-NTD version 2*	8.89 for W-NTD version 2*
	98250 for W-NTD version 3*	25 for W-NTD version 3*
	460 for W-NTD version 4* (over 4G)	25 for W-NTD version 4* (over 4G)
	2000 for W-NTD version 4* (over 5G mmWave)	200 for W-NTD version 4* (over 5G mmWave)
Satellite	120	20

*** Notes:**

- Details regarding different W-NTD versions are set out in the Network Interface Specification – Premises Network Devices.
- If a Premises has a W-NTD version 1 or W-NTD version 2 installed, then the maximum **upstream**-Information Rate that can be achieved by a Wireless Plus Ordered Product at that Premises using the current Wireless Network configuration will be the relevant maximum aggregate **upstream**-throughput specified in the table above, until the W-NTD is replaced with a W-NTD version 3 or any later version.
- RSP may request that **nbn** replace a W-NTD version 1 or W-NTD version 2 in accordance with the process set out in the WBA Operations Manual or as otherwise permitted by nbn from time to time.
- The throughput values for W-NTD version 3 and W-NTD version 4 were derived from testing to a higher standard than is required to confirm the maximum aggregate throughput. Ordered Products supplied using these W-NTD versions may be observed to achieve higher throughputs than committed to under this Agreement.

[...]

nbn® Ethernet Product Technical Specification

[...]

Appendix A Access Technology Compatibility

[...]

A.6.7 Bandwidth Profile – Unicast 1:1 AVC TC-4

This section describes restrictions on the availability of unicast 1:1 AVC TC-4 bandwidth profiles (described in section 4.1.3.1) according to access technology.



Bandwidth Profile (TC-4)	Fibre	Wireless	HFC	FTTC	Satellite	FTTB/FTTN
0 Mbps	Available subject to UNI-V order being in place ³⁸	Not Available	Not Available	Not Available	Not Available	Not Available
12/1 Mbps	Available on UNI-D	Available on UNI-D	Available on UNI-D	Available on UNI-D	Available on UNI-D	Available on UNI-DSL
25/5 Mbps	Available on UNI-D	Available on UNI-D	Available on UNI-D	Available on UNI-D	Available on UNI-D	Available on UNI-DSL
25/5-10 Mbps	Not Available	Not Available	Not Available	Not Available	Not Available	Available on UNI-DSL
25/10 Mbps	Available on UNI-D	Not Available	Available on UNI-D	Available on UNI-D	Not Available	Not Available
50/20 Mbps	Available on UNI-D	Not Available	Available on UNI-D	Available on UNI-D	Not Available	Not Available
25-50/5-20 Mbps	Not Available	Not Available	Not Available	Not Available	Not Available	Available on UNI-DSL
Home Fast	Available on UNI-D	Not Available	Available on UNI-D	Available on UNI-D	Not Available	Available on UNI-DSL
Wireless Plus	Not Available	Available on UNI-D	Not Available	Not Available	Not Available	Not Available
<u>Fixed Wireless Home Fast</u>	<u>Not Available</u>	<u>Available on UNI-D</u>	<u>Not Available</u>	<u>Not Available</u>	<u>Not Available</u>	<u>Not Available</u>
25-100/5-40 Mbps	Not Available	Not Available	Not Available	Not Available	Not Available	Available on UNI-DSL
50-100/20-40 Mbps	Not Available	Not Available	Not Available	Available on UNI-D	Not Available	Not Available
100/40 Mbps	Available on UNI-D	Not Available	Available on UNI-D	Not Available	Not Available	Not Available
<u>Fixed Wireless Superfast</u>	<u>Not Available</u>	<u>Available on UNI-D</u>	<u>Not Available</u>	<u>Not Available</u>	<u>Not Available</u>	<u>Not Available</u>
Home Superfast	Available on UNI-D	Not Available	Available on UNI-D	Not Available	Not Available	Not Available
250/100 Mbps	Available on UNI-D	Not Available	Not Available	Not Available	Not Available	Not Available
500/200 Mbps	Available on UNI-D	Not Available	Not Available	Not Available	Not Available	Not Available
Home Ultrafast	Available on UNI-D	Not Available	Available on UNI-D	Not Available	Not Available	Not Available
1000/400 Mbps	Available on UNI-D	Not Available	Not Available	Not Available	Not Available	Not Available

Table 29: AVC Feature Availability – Bandwidth Profile (TC-4) by nbn® Network

[...]



Appendix B Traffic Class Combinations

The bandwidth profiles in this Appendix B are subject to the specifications and limitations described in this [nbn® Ethernet Product Technical Specification](#) and the [nbn® Ethernet Product Description](#).

B.1 Unicast 1:1 AVC Bandwidth Profiles for nbn® Ethernet (Fibre), nbn® Ethernet (Wireless), nbn® Ethernet (HFC) and nbn® Ethernet (Satellite)

This table shows the valid combinations that may be used to populate the bandwidth profile (upstream and downstream) for a unicast 1:1 AVC for nbn® Ethernet (Fibre), nbn® Ethernet (Wireless), nbn® Ethernet (HFC) and nbn® Ethernet (Satellite). The bandwidth profile to be used for a unicast 1:1 AVC must be selected by RSP at the time of order.

Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	F = Fibre H = HFC W = Wireless S = Satellite
1	12	1	0	0	UNI-D	4	Y	All
2	12	1	0	0.15	UNI-D	1 ⁴⁰	Y	All
3	12	1	0	0.3	UNI-D	1 ⁴¹	Y	F/H/W
4	25	5	0	0	UNI-D	4	Y	All
5	25	5	0	0.15	UNI-D	-	Y	All
6	25	5	0	0.3	UNI-D	-	Y	F/H/W
7	25	5	0	0.5	UNI-D	1	Y	F/H
8	25	10	0	0	UNI-D	4	Y	F/H
9	25	10	0	0.15	UNI-D	-	Y	F/H
10	25	10	0	0.3	UNI-D	-	Y	F/H
11	25	10	0	0.5	UNI-D	-	Y	F/H
12	25	10	0	1	UNI-D	1	Y	F/H
13	25	10	5	0	UNI-D	2	Y	F/H
14	25	10	5	0.15	UNI-D	-	Y	F/H



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	F = Fibre H = HFC W = Wireless S = Satellite
15	25	10	5	0.3	UNI-D	-	Y	F/H
16	25	10	5	0.5	UNI-D	-	Y	F/H
17	50	20	0	0	UNI-D	4	Y	F/H
18	50	20	0	0.15	UNI-D	-	Y	F/H
19	50	20	0	0.3	UNI-D	-	Y	F/H
20	50	20	0	0.5	UNI-D	-	Y	F/H
21	50	20	0	1	UNI-D	-	Y	F/H
22	50	20	0	2	UNI-D	1	Y	F/H
23	50	20	5	0	UNI-D	-	Y	F/H
24	50	20	5	0.15	UNI-D	-	Y	F/H
25	50	20	5	0.3	UNI-D	-	Y	F/H
26	50	20	5	0.5	UNI-D	-	Y	F/H
27	50	20	5	1	UNI-D	-	Y	F/H
28	50	20	5	2	UNI-D	-	Y	F/H
29	50	20	10	0	UNI-D	2	Y	F/H
30	50	20	10	0.15	UNI-D	-	Y	F/H
31	50	20	10	0.3	UNI-D	-	Y	F/H
32	50	20	10	0.5	UNI-D	-	Y	F/H
33	50	20	10	1	UNI-D	-	Y	F/H
34	50	20	10	2	UNI-D	-	Y	F/H
35	Home Fast	Home Fast	0	0	UNI-D	4	Y	F/H
36	Home Fast	Home Fast	0	0.15	UNI-D	-	Y	F/H
37	Fixed Wireless Home Fast	Fixed Wireless Home Fast	0	0	UNI-D	4	Y	W



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
38	Fixed Wireless Home Fast	Fixed Wireless Home Fast	0	0.15	UNI-D	-	Y	W
39	Fixed Wireless Home Fast	Fixed Wireless Home Fast	0	0.3	UNI-D	-	Y	W
4037	100	40	0	0	UNI-D	4	Y	F/H
4138	100	40	0	0.15	UNI-D	-	Y	F/H
4239	100	40	0	0.3	UNI-D	-	Y	F/H
4340	100	40	0	0.5	UNI-D	-	Y	F/H
4444	100	40	0	1	UNI-D	-	Y	F/H
4542	100	40	0	2	UNI-D	-	Y	F/H
4643	100	40	0	5	UNI-D	1	Y	F/H
4744	100	40	5	0	UNI-D	-	Y	F/H
4845	100	40	5	0.15	UNI-D	-	Y	F/H
4946	100	40	5	0.3	UNI-D	-	Y	F/H
5047	100	40	5	0.5	UNI-D	-	Y	F/H
5148	100	40	5	1	UNI-D	-	Y	F/H
5249	100	40	5	2	UNI-D	-	Y	F/H
5350	100	40	5	5	UNI-D	-	Y	F/H
5454	100	40	10	0	UNI-D	-	Y	F/H
5552	100	40	10	0.15	UNI-D	-	Y	F/H
5653	100	40	10	0.3	UNI-D	-	Y	F/H
5754	100	40	10	0.5	UNI-D	-	Y	F/H
5855	100	40	10	1	UNI-D	-	Y	F/H
5956	100	40	10	2	UNI-D	-	Y	F/H
6057	100	40	10	5	UNI-D	-	Y	F/H



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	F = Fibre H = HFC W = Wireless S = Satellite
6159	100	40	20	0	UNI-D	2	Y	F
6259	100	40	20	0.15	UNI-D	-	Y	F
6360	100	40	20	0.3	UNI-D	-	Y	F
6464	100	40	20	0.5	UNI-D	-	Y	F
6562	100	40	20	1	UNI-D	-	Y	F
6662	100	40	20	2	UNI-D	-	Y	F
67	Fixed Wireless Superfast	Fixed Wireless Superfast	0	0	UNI-D	4	Y	W
68	Fixed Wireless Superfast	Fixed Wireless Superfast	0	0.15	UNI-D	-	Y	W
69	Fixed Wireless Superfast	Fixed Wireless Superfast	0	0.3	UNI-D	-	Y	W
7069	Home Superfast	Home Superfast	0	0	UNI-D	4	Y	F/H
7164	Home Superfast	Home Superfast	0	0.15	UNI-D	-	Y	F/H
7265	250	100	0	0	UNI-D	4	Y	F
7366	250	100	0	0.15	UNI-D	-	Y	F
7467	250	100	0	0.3	UNI-D	-	Y	F
7568	250	100	0	0.5	UNI-D	-	Y	F
7669	250	100	0	1	UNI-D	-	Y	F
7770	250	100	0	2	UNI-D	-	Y	F
7874	250	100	0	5	UNI-D	-	Y	F
7972	250	100	5	0	UNI-D	-	Y	F
8073	250	100	5	0.15	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
9174	250	100	5	0.3	UNI-D	-	Y	F
9275	250	100	5	0.5	UNI-D	-	Y	F
9376	250	100	5	1	UNI-D	-	Y	F
9477	250	100	5	2	UNI-D	-	Y	F
9578	250	100	5	5	UNI-D	-	Y	F
9679	250	100	10	0	UNI-D	-	Y	F
9780	250	100	10	0.15	UNI-D	-	Y	F
9881	250	100	10	0.3	UNI-D	-	Y	F
9982	250	100	10	0.5	UNI-D	-	Y	F
9083	250	100	10	1	UNI-D	-	Y	F
9184	250	100	10	2	UNI-D	-	Y	F
9285	250	100	10	5	UNI-D	-	Y	F
9386	250	100	20	0	UNI-D	-	Y	F
9487	250	100	20	0.15	UNI-D	-	Y	F
9588	250	100	20	0.3	UNI-D	-	Y	F
9689	250	100	20	0.5	UNI-D	-	Y	F
9790	250	100	20	1	UNI-D	-	Y	F
9891	250	100	20	2	UNI-D	-	Y	F
9992	250	100	20	5	UNI-D	-	Y	F
10093	250	100	30	0	UNI-D	2	Y	F
10194	250	100	30	0.15	UNI-D	-	Y	F
10295	250	100	30	0.3	UNI-D	-	Y	F
10396	250	100	30	0.5	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
1049 7	250	100	30	1	UNI-D	-	Y	F
1059 8	250	100	30	2	UNI-D	-	Y	F
1069 9	250	100	30	5	UNI-D	-	Y	F
1074 00	250	100	40	0	UNI-D	2	Y	F
1084 01	250	100	40	0.15	UNI-D	-	Y	F
1094 02	250	100	40	0.3	UNI-D	-	Y	F
1104 03	250	100	40	0.5	UNI-D	-	Y	F
1114 04	250	100	40	1	UNI-D	-	Y	F
1124 05	250	100	40	2	UNI-D	-	Y	F
1134 06	250	100	40	5	UNI-D	-	Y	F
1144 07	250	100	50	0	UNI-D	2	Y	F
1154 08	250	100	50	0.15	UNI-D	-	Y	F
1164 09	250	100	50	0.3	UNI-D	-	Y	F
1174 10	250	100	50	0.5	UNI-D	-	Y	F
1184 11	250	100	50	1	UNI-D	-	Y	F
1194 12	250	100	50	2	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
120 13	250	100	50	5	UNI-D	-	Y	F
121 14	500	200	0	0	UNI-D	4	Y	F
122 15	500	200	0	0.15	UNI-D	-	Y	F
123 16	500	200	0	0.3	UNI-D	-	Y	F
124 17	500	200	0	0.5	UNI-D	-	Y	F
125 18	500	200	0	1	UNI-D	-	Y	F
126 19	500	200	0	2	UNI-D	-	Y	F
127 20	500	200	0	5	UNI-D	-	Y	F
128 21	500	200	5	0	UNI-D	-	Y	F
129 22	500	200	5	0.15	UNI-D	-	Y	F
130 23	500	200	5	0.3	UNI-D	-	Y	F
131 24	500	200	5	0.5	UNI-D	-	Y	F
132 25	500	200	5	1	UNI-D	-	Y	F
133 26	500	200	5	2	UNI-D	-	Y	F
134 27	500	200	5	5	UNI-D	-	Y	F
135 28	500	200	10	0	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
136 29	500	200	10	0.15	UNI-D	-	Y	F
137 30	500	200	10	0.3	UNI-D	-	Y	F
138 31	500	200	10	0.5	UNI-D	-	Y	F
139 32	500	200	10	1	UNI-D	-	Y	F
140 33	500	200	10	2	UNI-D	-	Y	F
141 34	500	200	10	5	UNI-D	-	Y	F
142 35	500	200	20	0	UNI-D	-	Y	F
143 36	500	200	20	0.15	UNI-D	-	Y	F
144 37	500	200	20	0.3	UNI-D	-	Y	F
145 38	500	200	20	0.5	UNI-D	-	Y	F
146 39	500	200	20	1	UNI-D	-	Y	F
147 40	500	200	20	2	UNI-D	-	Y	F
148 41	500	200	20	5	UNI-D	-	Y	F
149 42	500	200	30	0	UNI-D	-	Y	F
150 43	500	200	30	0.15	UNI-D	-	Y	F
151 44	500	200	30	0.3	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	F = Fibre H = HFC W = Wireless S = Satellite
152-45	500	200	30	0.5	UNI-D	-	Y	F
153-46	500	200	30	1	UNI-D	-	Y	F
154-47	500	200	30	2	UNI-D	-	Y	F
155-48	500	200	30	5	UNI-D	-	Y	F
156-49	500	200	40	0	UNI-D	-	Y	F
157-50	500	200	40	0.15	UNI-D	-	Y	F
158-51	500	200	40	0.3	UNI-D	-	Y	F
159-52	500	200	40	0.5	UNI-D	-	Y	F
160-53	500	200	40	1	UNI-D	-	Y	F
161-54	500	200	40	2	UNI-D	-	Y	F
162-55	500	200	40	5	UNI-D	-	Y	F
163-56	500	200	50	0	UNI-D	-	Y	F
164-57	500	200	50	0.15	UNI-D	-	Y	F
165-58	500	200	50	0.3	UNI-D	-	Y	F
166-59	500	200	50	0.5	UNI-D	-	Y	F
167-60	500	200	50	1	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
168 61	500	200	50	2	UNI-D	-	Y	F
169 62	500	200	50	5	UNI-D	-	Y	F
170 63	500	200	60	0	UNI-D	2	Y	F
171 64	500	200	60	0.15	UNI-D	-	Y	F
172 65	500	200	60	0.3	UNI-D	-	Y	F
173 66	500	200	60	0.5	UNI-D	-	Y	F
174 67	500	200	60	1	UNI-D	-	Y	F
175 68	500	200	60	2	UNI-D	-	Y	F
176 69	500	200	60	5	UNI-D	-	Y	F
177 70	500	200	70	0	UNI-D	2	Y	F
178 71	500	200	70	0.15	UNI-D	-	Y	F
179 72	500	200	70	0.3	UNI-D	-	Y	F
180 73	500	200	70	0.5	UNI-D	-	Y	F
181 74	500	200	70	1	UNI-D	-	Y	F
182 75	500	200	70	2	UNI-D	-	Y	F
183 76	500	200	70	5	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	F = Fibre H = HFC W = Wireless S = Satellite
184 77	500	200	80	0	UNI-D	2	Y	F
185 78	500	200	80	0.15	UNI-D	-	Y	F
186 79	500	200	80	0.3	UNI-D	-	Y	F
187 80	500	200	80	0.5	UNI-D	-	Y	F
188 81	500	200	80	1	UNI-D	-	Y	F
189 82	500	200	80	2	UNI-D	-	Y	F
190 83	500	200	80	5	UNI-D	-	Y	F
191 84	500	200	90	0	UNI-D	2	Y	F
192 85	500	200	90	0.15	UNI-D	-	Y	F
193 86	500	200	90	0.3	UNI-D	-	Y	F
194 87	500	200	90	0.5	UNI-D	-	Y	F
195 88	500	200	90	1	UNI-D	-	Y	F
196 89	500	200	90	2	UNI-D	-	Y	F
197 90	500	200	90	5	UNI-D	-	Y	F
198 91	500	200	100	0	UNI-D	2	Y	F
199 92	500	200	100	0.15	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
200 93	500	200	100	0.3	UNI-D	-	Y	F
201 94	500	200	100	0.5	UNI-D	-	Y	F
202 95	500	200	100	1	UNI-D	-	Y	F
203 96	500	200	100	2	UNI-D	-	Y	F
204 97	500	200	100	5	UNI-D	-	Y	F
205 98	Home Ultrafast	Home Ultrafast	0	0	UNI-D	4	Y	F/H
206 99	Home Ultrafast	Home Ultrafast	0	0.15	UNI-D	-	Y	F/H
207 00	1000	400	0	0	UNI-D	4	Y	F
208 01	1000	400	0	0.15	UNI-D	-	Y	F
209 02	1000	400	0	0.3	UNI-D	-	Y	F
210 03	1000	400	0	0.5	UNI-D	-	Y	F
211 04	1000	400	0	1	UNI-D	-	Y	F
212 05	1000	400	0	2	UNI-D	-	Y	F
213 06	1000	400	0	5	UNI-D	-	Y	F
214 07	1000	400	5	0	UNI-D	-	Y	F
215 08	1000	400	5	0.15	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
216 09	1000	400	5	0.3	UNI-D	-	Y	F
217 10	1000	400	5	0.5	UNI-D	-	Y	F
218 11	1000	400	5	1	UNI-D	-	Y	F
219 12	1000	400	5	2	UNI-D	-	Y	F
220 13	1000	400	5	5	UNI-D	-	Y	F
221 14	1000	400	10	0	UNI-D	-	Y	F
222 15	1000	400	10	0.15	UNI-D	-	Y	F
223 16	1000	400	10	0.3	UNI-D	-	Y	F
224 17	1000	400	10	0.5	UNI-D	-	Y	F
225 18	1000	400	10	1	UNI-D	-	Y	F
226 19	1000	400	10	2	UNI-D	-	Y	F
227 20	1000	400	10	5	UNI-D	-	Y	F
228 21	1000	400	20	0	UNI-D	-	Y	F
229 22	1000	400	20	0.15	UNI-D	-	Y	F
230 23	1000	400	20	0.3	UNI-D	-	Y	F
231 24	1000	400	20	0.5	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
232 25	1000	400	20	1	UNI-D	-	Y	F
233 26	1000	400	20	2	UNI-D	-	Y	F
234 27	1000	400	20	5	UNI-D	-	Y	F
235 28	1000	400	30	0	UNI-D	-	Y	F
236 29	1000	400	30	0.15	UNI-D	-	Y	F
237 30	1000	400	30	0.3	UNI-D	-	Y	F
238 31	1000	400	30	0.5	UNI-D	-	Y	F
239 32	1000	400	30	1	UNI-D	-	Y	F
240 33	1000	400	30	2	UNI-D	-	Y	F
241 34	1000	400	30	5	UNI-D	-	Y	F
242 35	1000	400	40	0	UNI-D	-	Y	F
243 36	1000	400	40	0.15	UNI-D	-	Y	F
244 37	1000	400	40	0.3	UNI-D	-	Y	F
245 38	1000	400	40	0.5	UNI-D	-	Y	F
246 39	1000	400	40	1	UNI-D	-	Y	F
247 40	1000	400	40	2	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
248 41	1000	400	40	5	UNI-D	-	Y	F
249 42	1000	400	50	0	UNI-D	-	Y	F
250 43	1000	400	50	0.15	UNI-D	-	Y	F
251 44	1000	400	50	0.3	UNI-D	-	Y	F
252 45	1000	400	50	0.5	UNI-D	-	Y	F
253 46	1000	400	50	1	UNI-D	-	Y	F
254 47	1000	400	50	2	UNI-D	-	Y	F
255 48	1000	400	50	5	UNI-D	-	Y	F
256 49	1000	400	60	0	UNI-D	-	Y	F
257 50	1000	400	60	0.15	UNI-D	-	Y	F
258 51	1000	400	60	0.3	UNI-D	-	Y	F
259 52	1000	400	60	0.5	UNI-D	-	Y	F
260 53	1000	400	60	1	UNI-D	-	Y	F
261 54	1000	400	60	2	UNI-D	-	Y	F
262 55	1000	400	60	5	UNI-D	-	Y	F
263 56	1000	400	70	0	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
264 57	1000	400	70	0.15	UNI-D	-	Y	F
265 58	1000	400	70	0.3	UNI-D	-	Y	F
266 59	1000	400	70	0.5	UNI-D	-	Y	F
267 60	1000	400	70	1	UNI-D	-	Y	F
268 61	1000	400	70	2	UNI-D	-	Y	F
269 62	1000	400	70	5	UNI-D	-	Y	F
270 63	1000	400	80	0	UNI-D	-	Y	F
271 64	1000	400	80	0.15	UNI-D	-	Y	F
272 65	1000	400	80	0.3	UNI-D	-	Y	F
273 66	1000	400	80	0.5	UNI-D	-	Y	F
274 67	1000	400	80	1	UNI-D	-	Y	F
275 68	1000	400	80	2	UNI-D	-	Y	F
276 69	1000	400	80	5	UNI-D	-	Y	F
277 70	1000	400	90	0	UNI-D	-	Y	F
278 71	1000	400	90	0.15	UNI-D	-	Y	F
279 72	1000	400	90	0.3	UNI-D	-	Y	F



Profile Number	AVC_TC-4 (downstream) (Mbps)	AVC_TC-4 (upstream) (Mbps)	AVC_TC-2 (upstream, downstream) (Mbps)	AVC_TC-1 (upstream, downstream) (Mbps)	UNI Interface	UNI-D Supported Interface Mode ³⁹		Availability by Access Technology F = Fibre H = HFC W = Wireless S = Satellite
						Default-Mapped (Traffic Class)	DSCP-Mapped, Priority-Tagged and Tagged	
280 73	1000	400	90	0.5	UNI-D	-	Y	F
281 74	1000	400	90	1	UNI-D	-	Y	F
282 75	1000	400	90	2	UNI-D	-	Y	F
283 76	1000	400	90	5	UNI-D	-	Y	F
284 77	1000	400	100	0	UNI-D	-	Y	F
285 78	1000	400	100	0.15	UNI-D	-	Y	F
286 79	1000	400	100	0.3	UNI-D	-	Y	F
287 80	1000	400	100	0.5	UNI-D	-	Y	F
288 81	1000	400	100	1	UNI-D	-	Y	F
289 82	1000	400	100	2	UNI-D	-	Y	F
290 83	1000	400	100	5	UNI-D	-	Y	F
291 84	Wireless Plus	Wireless Plus	0	0	UNI-D	4	Y	W
292 85	Wireless Plus	Wireless Plus	0	0.15	UNI-D	-	Y	W
293 86	Wireless Plus	Wireless Plus	0	0.3	UNI-D	-	Y	W

Table 30: Unicast 1:1 AVC Bandwidth Profiles - nbn® Ethernet (Fibre), nbn® Ethernet (Wireless), nbn® Ethernet (HFC) and nbn® Ethernet (Satellite)

³⁹ Certain AVC bandwidth profiles have dependencies on the UNI-D operating mode.



⁴⁰ For this bandwidth profile, the Default-Mapped addressing mode is only available on the UNI-D in respect of nbn® Ethernet (Fibre), nbn® Ethernet (HFC) and nbn® Ethernet (Satellite).

⁴¹ For this bandwidth profile, the Default-Mapped addressing mode is only available on the UNI-D in respect of nbn® Ethernet (Fibre) and nbn® Ethernet (HFC).

[...]

nbn® Ethernet Price List

Part A: Recurring Charges

Section 1 sets out the recurring Charges which apply to the nbn® Ethernet Product Components which RSP must acquire as part of nbn® Ethernet. The specific Charges which apply to an Ordered Product depend on the Product Features selected by RSP (e.g. bandwidth profile).

1. Recurring Charges for core components

[...]

1.2 Flat-Rate AVC Charges

The recurring Charges per Billing Period for the following AVC TC-4 Product Components, and any CVC TC-4 capacity utilised in conjunction with such AVC TC-4 Product Components, are:¹

nbn® Network	AVC TC-4 downstream Mbps (PIR) ²	AVC TC-4 upstream Mbps (PIR) ²	Recurring Charge
Fibre, FTTB, FTTN, FTTC and HFC	Home Fast ³		\$55.00
Wireless	Fixed Wireless Home Fast³		\$55.00
FTTB and FTTN	25 – 100	5 – 40	\$58.00
FTTC	50 – 100	20 – 40	\$58.00
Fibre and HFC	100	40	\$58.00
Wireless	Fixed Wireless Superfast³		\$60.00
Fibre and HFC	Home Superfast ³		\$60.00
Fibre	250	100	\$100.00
Fibre	500	200	\$160.00
Fibre and HFC	Home Ultrafast ³		\$70.00
Fibre	1,000 ³	400	\$230.00

Notes:

¹ No additional recurring CVC TC-4 or Overage Charges apply in connection with any Flat Rate AVC TC-4 Product Components.

Commented [A2]: Note to RSPs: For completeness, this drafting does not set out the recurring charge for Wireless Plus AVC TC-4 in section 1.1(a) of the nbn® Ethernet Price List, because there is no proposed change to that price as a result of the performance improvements to Wireless Plus as set out in this rider booklet.



² To be read subject to section 3.2 of the [nbn® Ethernet Product Description](#) and section 4.1.3 of, and Appendix B to, the [nbn® Ethernet Product Technical Specification](#).

³ Refer to the [nbn® Ethernet Product Description](#) for further information, including the specific limitations set out at sections 3.2(a) and 13.

[...]

Part B: Non-recurring Charges

Section 3 sets out the Charges which apply to installations and activations in connection with the supply of **nbn®** Ethernet.

3. Installation and activations

- (a) The Charges for the installation and activation of **nbn®** Ethernet (Fibre), **nbn®** Ethernet (FTTB), **nbn®** Ethernet (FTTN), **nbn®** Ethernet (FTTC), **nbn®** Ethernet (HFC) and **nbn®** Ethernet (Wireless) are:

Activity	Charge per Activity by nbn® Network		
	Fibre and Wireless	FTTB, FTTN and FTTC	HFC
Initial Standard Installation	\$0.00	\$0.00	\$0.00
Initial Non Standard Installation	Labour Rate + Materials over and above Initial Standard Installation	Labour Rate + Materials over and above Initial Standard Installation	Labour Rate + Materials over and above Initial Standard Installation
After Hours Installation ¹	\$150.00 ²	\$150.00	\$150.00
nbn Professional Installation – FTTC	N/A	Labour Rate (min 2 hours) ³	N/A
nbn Professional Installation - HFC	N/A	N/A	Labour Rate (min 2 hours) ⁴
Subsequent Installation	\$270.00 + Labour Rate + Materials over and above Initial Standard Installation	\$270.00 + Labour Rate + Materials over and above Initial Standard Installation	\$270.00 + Labour Rate + Materials over and above Initial Standard Installation
FTTN/C Fibre Upgrade Installation	\$200.00 ²	N/A	N/A
W-NTD Upgrade Installation	\$200.00⁵	N/A	N/A
Subsequent Installation of Power Supply with Battery Backup	\$0.00 ²	N/A	N/A
Access Component Reactivation	\$5.00	\$5.00	\$5.00
CVC Activation	\$0.00	\$0.00	\$0.00
NNI 1000BaseLX	\$1,000.00		



Activity	Charge per Activity by nbn® Network		
	Fibre and Wireless	FTTB, FTN and FTTC	HFC
Activation			
NNI 10GBaseLR Activation	Until 30 June 2024: \$5,000.00 On and from 1 July 2024: \$3,000.00		
NNI 100GBaseLR4 Activation	Until 30 June 2024: \$30,000.00 On and from 1 July 2024: \$20,000.00		
NNI 1000BaseEX Activation	\$2,000.00		
NNI 10GBaseER Activation	Until 30 June 2024: \$6,000.00 On and from 1 July 2024: \$4,000.00		
NNI 100GBaseER4 Activation	Until 30 June 2024: \$36,000.00 On and from 1 July 2024: \$24,000.00		
NNI Link Activation	\$0.00		
V-NNI Activation	\$250.00		
Service Transfer ⁵⁶	\$5.00	\$5.00	\$5.00
Transfer Reversal	\$5.00	\$5.00	\$5.00
Non-Infrastructure Type Transfers (per Service Transfer) ⁵⁶	\$1.50	\$1.50	\$1.50
Co-ordinated Appointment (Day) ^{6Z}	\$200.00 ²	\$200.00	\$200.00
Co-ordinated Appointment (Night) ^{6Z}	\$300.00 ²	\$300.00	\$300.00

Notes:

Part C sets out other Charges which may apply in circumstances where Charges in this section also apply.

¹ The Charge for an After Hours Installation applies in addition to any Installation charges that would otherwise apply if the Installation was performed in Standard Hours. As set out in section 5(c)(ii) of the [nbn® Ethernet Product Description](#), this Charge will not apply if the Ordered Product in respect of which nbn performs an After Hours Installation includes any of the following Enhanced Fault Rectification Service Level options: Enhanced-12 (24/7), Enhanced-4 (24/7) or Enhanced (90 Day)-12 (24/7).

² Not applicable for nbn® Ethernet (Wireless).

³ This Charge applies where an order is completed as an nbn Professional Installation – FTTC, except that no Charge will apply if that nbn Professional Installation – FTTC is performed:

- in respect of an Accelerated Connection; or
- as a result of a failed Activation following an End User Installation – FTTC (nbn Dispatched), End User Installation – FTTC (RSP Dispatched) or RSP Professional Installation – FTTC, where nbn determines that such failure is not attributable to any act or omission of RSP, Downstream Service Provider or Contracted End User (as the case may be).



⁴ This Charge applies where an order is completed as an **nbn** Professional Installation – HFC, except that no Charge will apply if that **nbn** Professional Installation – HFC is performed:

- in respect of an Accelerated Connection; or
- as a result of a failed Activation following an End User Installation – HFC (**nbn** Dispatched), End User Installation – HFC (RSP Dispatched) or RSP Professional Installation – HFC, where **nbn** determines that such failure is not attributable to any act or omission of RSP, Downstream Service Provider or Contracted End User (as the case may be).

⁵ Not applicable for **nbn**® Ethernet (Fibre).

⁵⁶ This Charge will not apply in respect of the transfer of Ordered Products in certain circumstances as set out in clause H4.3 of the [Head Terms](#).

⁶² The Charge for a Co-ordinated Appointment applies in addition to any applicable charges for an activity performed in respect of the Co-ordinated Appointment.

Discounts, Credits and Rebates Annexure to the **nbn**® Ethernet Price List

Part A List of current Discounts, Credits, Rebates and Waivers

A1.1 Current Discounts, Credits, Rebates and Waivers

The following Discounts, Credits, Rebates and Waivers are currently available to RSP subject to the corresponding conditions set out in Parts B and C.

#	Name	Description	Duration	Campaign Period	Details and conditions
[...]					
Long-term Discounts, Credits, Rebates and Waivers (Part B)					
Module B1: General					
[...]					
12	W-NTD Upgrade Installation Waiver	A conditional Waiver of the W-NTD Upgrade Installation Charge.	Commercial Launch Date of Fixed Wireless Home Fast and Fixed Wireless Superfast – 30 November 2026	N/A	Section B1.12
[...]					

[...]



Part B Details and conditions for Long-term Discounts, Credits, Rebates and Waivers

Module B1: General

[...]

B1.12: W-NTD Upgrade Installation Waiver details and conditions

B1.12.1 Details

- (a) Subject to section B1.12.1(b), **nbn** waives any W-NTD Upgrade Installation Charge for a W-NTD Upgrade Installation performed from the Waiver Commencement Date.
- (b) If, across a given Observation Period, the number of RSP's Observed Downgrade Events exceed the applicable Downgrade Event Limit, **nbn** may charge, and RSP must pay, the W-NTD Upgrade Installation Charge for each Excess Downgrade Event.

Example: During an Observation Period that is the first 6-month period starting from the Waiver Commencement Date, RSP experiences 1,000 Observed Upgrade Events and 350 Observed Downgrade Events. RSP's Downgrade Event Limit for this Observation Period is 300, being 30% of 1,000. Accordingly, RSP experienced 50 Excess Downgrade Events, and pursuant to section B1.12.1(b) must pay to **nbn** an amount equal to $50 \times \$200 = \$10,000$.

B1.12.2 Process to Claim

- (a) **nbn** will provide RSP with the W-NTD Upgrade Installation Waiver under this section B1.12 by omitting or listing as not payable the waived amount(s) in RSP's invoices.
Note: RSP does not need to submit any Credit/Rebate Claim Form in respect of any Waiver provided under this section B1.12.
- (b) **nbn** may invoice RSP for any amounts recoverable pursuant to section B1.12.1(b) in any invoice issued after the relevant Observation Period.

B1.12.3 Definitions

In this section B1.12:

- (a) **Downgrade Event Limit** means, for each Observation Period, 30% of the Observed Upgrade Events in that Observation Period.
- (a) **Excess Downgrade Event** means, for a given Observation Period, each Observed Downgrade Event in that Observation Period in excess of the Downgrade Event Limit for that Observation Period.
- (b) **Observation Period** means each consecutive 6-month period, with the first such period commencing on the Waiver Commencement Date.
- (c) **Observed Upgrade Events** means, for a given Observation Period, the number of W-NTD Upgrade Installations completed by **nbn** during that Observation Period.
- (d) **Observed Downgrade Event** means, for a given Observation Period, a Disconnect Order or Downgrade Order for either a Post-Upgrade Service or Subsequent Service for which each of the following conditions is met:

Commented [A3]: Note to RSPs: We have amended the Downgrade Event Limit to 30%.

Commented [A4]: Note to RSPs: We have amended the definition of "Observation Period" to delete the reference to "12 month period" and replace it with "6 month period", along with minor consequential changes.



- (i) the Disconnect Order or Downgrade Order is completed by nbn during that Observation Period;
- (ii) at the time that Disconnect Order or Downgrade Order was acknowledged by nbn, the Connect Order for the Post-Upgrade Service for that Premises was completed 6 months earlier, or less; and
- (iii) at the time the Disconnect Order or Downgrade Order is completed:
 - (A) nbn has not completed a connect order for an Other Wireless Service for that Premises; and
 - (B) nbn is not continuing to supply RSP with a Post-Upgrade Service or any Subsequent Service,

where:

- (iv) **Downgrade Order** means a Modify Order for an Ordered Product such that the modified Ordered Product no longer includes a bandwidth profile of Fixed Wireless Home Fast or higher, but excluding any Modify Order that is:
 - (A) a Wireless Performance Downgrade; or
 - (B) performed in respect of a Premises which has a W-NTD installed as part of a program notified by nbn as a "W-NTD Modernisation Program" without any subsequent further W-NTD Upgrade Installation;

***Note:** Under section B1.12.3(e)(iv)(B), a Premises at which nbn upgrades a W-NTD v1 or v2 to W-NTD v3 or a later version under the W-NTD Modernisation Program would not usually be subject to observation for a later Downgrade Order. But it would be subject to such observation if nbn subsequently determines that a W-NTD Upgrade Installation to W-NTD v4 is required in respect of that Premises.*

- (v) **Other Wireless Service** means an nbn® Ethernet (Wireless) ordered product supplied to an Other RSP;
- (vi) **Post-Upgrade Service** means an Ordered Product supplied to RSP that was the subject of a W-NTD Upgrade Installation;
- (vii) **Subsequent Service** means an nbn® Ethernet (Wireless) Ordered Product with a bandwidth profile of Fixed Wireless Home Fast or higher that is not a Post-Upgrade Service, supplied to RSP; and
- (viii) **Wireless Performance Downgrade** means a Modify Order submitted by RSP prior to the Connection Performance Measurement Date for an Ordered Product, where nbn has determined (acting reasonably), on or after the Connection Performance Measurement Date, that the Ordered Product is not capable of achieving that Ordered Product's PIR,

provided that if both a Downgrade Order and Disconnect Order are completed by nbn for the same Ordered Product, or multiple Downgrade Orders are completed by nbn for the same Ordered Product, only the first will constitute an Observed Downgrade Event.

***Note:** A service transfer of an nbn® Ethernet (Ordered Product) to an Other Gaining RSP is not an Observed Downgrade Event.*

- (e) **W-NTD Upgrade Installation Charge** means the non-recurring Charge for a W-NTD Upgrade Installation set out in the nbn® Ethernet Price List.



(f) **Waiver Commencement Date** means the date that the duration of this Waiver commences as specified in section A1.1.

[...]

WBA Operations Manual

4.3.1 Site Qualification Enquiries

[...]



Important: For nbn® Ethernet (Wireless), if nbn determines (including following a site survey) that the premises is unable to achieve the ordered PIR (or, in the case of Wireless Plus, ~~an the relevant~~ Information Rate of 25 Mbps downstream and 5 Mbps upstream in section 3.8(c) of the nbn® Ethernet Product Description) at least once per 24 hour period, it may:

- cancel any orders for nbn to supply the relevant nbn® Ethernet (Wireless) Ordered Product in respect of that premises; and
- update the nbn® Service Portal and B2B Access (as applicable) to indicate that the relevant bandwidth profile is not available at the premises.

[...]

4.5.2.1 Interactions: Connect Order

[...]

Who	Activities
Your organisation...	<p>Submits a new Connect Order via the nbn® Service Portal or B2B Access. This includes the following:</p> <ul style="list-style-type: none"> Performing a Site Qualification Enquiry (or providing the nbn® Location ID if previously determined) (AVC order) Where prompted to do so, booking an Appointment (or providing the Appointment ID if previously reserved): <ul style="list-style-type: none"> for a Connect Order, in accordance with section 6.7.1 Selecting Appointments and for a Connect Order in respect of Premises associated with an Established POI CSA which were previously served by a Temporary POI CSA, in accordance with section 4.5.8.5 Orders in respect of Established POIs. <p>! Important: If your organisation places an order for an Accelerated Connection:</p> <ul style="list-style-type: none"> At a Service Class 3, Service Class 13, Service Class 24 Premises or Service Class 34 Premises; or In respect to a Service Class 12 Premises, Service Class 32 Premises or Service Class 33 Premises, if the order is a Transition Order as detailed in section 4.5.2.3 Transition Orders <p>it will be treated as an order for a Standard Connection.</p>



Who	Activities
	<div data-bbox="341 539 411 607"> </div> <p>Important: If your organisation wishes to submit a Connect Order for an nbn® Ethernet (Wireless) Ordered Product at a Service Class 6 Premises, where:</p> <ul style="list-style-type: none"> the Connect Order is for an AVC TC-4 bandwidth profile of Fixed Wireless Home Fast or Fixed Wireless Superfast; and nbn determines that a W-NTD Upgrade Installation is required, then your organisation must: <ul style="list-style-type: none"> submit a Connect Order for any other AVC TC-4 bandwidth profile (apart from Fixed Wireless Home Fast or Fixed Wireless Superfast); and once the Connect Order is complete, submit a Modify Order for Fixed Wireless Home Fast or Fixed Wireless Superfast as desired. <div data-bbox="341 887 411 954"> </div> <p>Important: When your organisation reserves an Appointment for a Service Class 8 Premises, your organisation is reserving installation capacity. If your organisation reserves an Appointment in accordance with the requirements above, nbn will contact the Appointment Representative to schedule the Actual Appointment. See section 6.2 Appointment Overview.</p> <p>B2B Access only: An Appointment ID is not required to submit the Connect Order; however, the Order Status of the Connect Order will remain Pending until your organisation adds an Appointment ID (where required) to the Connect Order.</p>
nbn...	<p>Confirms that the Connect Order was submitted correctly and, depending on the result of the submission validation, does one of the following:</p> <ul style="list-style-type: none"> <i>(If the Connect Order was submitted correctly)</i> Sends your organisation an Acknowledged Notification and updates the Order Status to Acknowledged Note: Your organisation may cancel the order at this time <i>(If the Connect Order was not submitted correctly)</i> Sends your organisation a Rejected Notification if nbn rejects the order and updates the Order Status to Rejected.

[...]

4.5.2.6 Service Transfer Orders

A Service Transfer Order allows your organisation to transfer an existing nbn® Ethernet Product supplied to an Other RSP to your organisation in respect of a Service Class 3, Service Class 6, Service Class 9, Service Class 13, Service Class 24 or a Service Class 34 Premises using a Service Transfer or a Connect Outstanding Transfer.

Important: If a Fibre Connect Connection is available at a Premises in accordance with section 4.8.2.2 Fibre Connect Connection, your organisation may submit a Service Transfer Order at either of the following times:

- for the Original Access Technology, at any time while that Premises remains Serviceable by the Original Access Technology, provided there are no existing in-flight connect orders in respect of the relevant Subsequent Access Technology at that Premises; or
- for the Subsequent Access Technology, once the relevant Fibre Connect Connection has been completed.



Important: If your organisation submits a Service Transfer Order in respect of an nbn® Ethernet (Wireless) ordered product supplied to an Other RSP and, in doing so, wishes to modify the AVC TC-4 bandwidth profile to Fixed Wireless Home Fast from any other bandwidth profile or Fixed Wireless Superfast from any other bandwidth profile, and a W-NTD Upgrade Installation is required for the relevant Premises, your organisation must:

- submit the Service Transfer Order in respect of the nbn® Ethernet (Wireless) ordered product, regardless of the bandwidth profile that is being supplied to the Other Losing RSP; and
- then, once the Service Transfer Order is complete, submit a Modify Order for either Fixed Wireless Home Fast or Fixed Wireless Superfast.


[...]

4.5.6 Modify Orders

[...]

4.5.6.1 Permitted Modifications to Product Components

The following table describes the modifications and other changes your organisation is permitted to make to existing Product Components and requirements your organisation must comply with.




Product component	Allowable Modifications and supporting notes; requirements
[...]	
<p>Access Components</p> 	<ul style="list-style-type: none"> • Traffic class • Change of bandwidth profile • Other modifications, as set out by nbn from time to time in the <i>nbn® Operations User Guide</i>. <p><i>Modification of AVC bandwidth profile (no W-NTD Upgrade Installation)</i></p> <p>If a Modify Order is in respect of a modification between AVC TC-4 bandwidth profiles, and a W-NTD Upgrade Installation is not required, there may be a brief service interruption (typically lasting less than 3 minutes) when the Modify Order is processed. Modify Orders of this nature are usually processed by nbn within 10 minutes after your organisation places the order (whether such order is placed during or outside Business Hours). This brief service interruption is not an Outage or a Service Fault.</p> <p><i>Modification Order involving W-NTD Upgrade Installation</i></p> <p>If a Modify Order is in respect of a modification between AVC TC-4 bandwidth profiles, and a W-NTD Upgrade Installation is required:</p> <ul style="list-style-type: none"> • the process and requirements described in section 4.5.6.2 Interactions: Modify Order applies • there will be a brief service interruption (typically lasting 60 minutes or less) when the W-NTD Upgrade Installation is being performed. This brief service interruption is not an Outage or a Service Fault.
[...]	

[...]

4.5.6.2 Interactions: Modify Order

[...]



Who	Activity
[...]	
nbn...	<p>(If the Modify Order was submitted correctly) Confirms that the specific information provided in the Modify Order is sufficient to proceed with the order and, depending on the result of this validation, does one of the following:</p> <ul style="list-style-type: none"> (If nbn determines that the Modify Order is valid) Sends your organisation an Order Accepted Notification and updates the Order Status to In Progress The notification includes the Modify Order's unique Order ID. Note: Your organisation may cancel the order at this time. <div data-bbox="341 748 1145 1037" style="background-color: #ffffcc; padding: 5px;">  <p>Important: If a Modify Order for nbn® Ethernet (Satellite) requires an Appointment but your organisation has not reserved an Appointment, nbn will send your organisation a Pending Notification and update the Order Status to Pending. Your organisation must then reserve an Appointment in accordance with section 4.5.2.1 Interactions: Connect Order, section 6.2.5 Appointment Communication Responsibilities, section 6.2.3 Appointment Blocks and section 6.3.2 New Appointment Process.</p> <p>After your organisation has done so, nbn will contact the Appointment Representative to schedule the Actual Appointment and update the Order Status in accordance with section 4.5.2.1 Interactions: Connect Order, section 6.2.5 Appointment Communication Responsibilities, section 6.2.3 Appointment Blocks and section 6.3.2 New Appointment Process.</p> </div> <div data-bbox="341 1077 1145 1451" style="background-color: #ffffcc; padding: 5px;">  <p>Important: If a Modify Order for an NNI requires your organisation to request a date/time for the activity to be performed, and nbn has determined that the activity can be scheduled on the date requested by your organisation, nbn will schedule the order, change the Order Status to Pending, and nbn will not progress the order further until the Requested Start Date/Time.</p> <p>The Requested Start Date/Time in respect of such an activity must be at least 5 Business Days after the date on which your organisation provides the Requested Start Date/Time.</p> <p>If your organisation requests a start date/time that does not comply with this requirement, nbn will work with your organisation to agree an alternative start date/time, place the Modify Order in a Pending Order Status, and will not process it further until that start date/time.</p> <p>Your organisation must have resources available on the scheduled start date/time to provide any assistance reasonably requested by nbn to enable nbn to perform the Modify Order</p> </div> <div data-bbox="341 1491 1145 1720" style="background-color: #ffffcc; padding: 5px;">  <p>Important: <u>If nbn determines that a W-NTD Upgrade Installation is required, nbn will notify your organisation that an Appointment is required, request your organisation to reserve an Appointment, send your organisation a Pending Notification in respect of the Modify Order and update the Order Status to Pending.</u></p> <p><u>Your organisation must then reserve an Appointment in accordance with section 6.3.2 New Appointment Process. Once your organisation has reserved an Appointment in accordance with section 6.3.2 New Appointment Process, the processes relating to Installation Appointments will apply.</u></p> </div> <ul style="list-style-type: none"> (If nbn determines that the Modify Order is not valid) Sends your organisation a Rejected Notification and updates the Order Status to Rejected.
[...]	



[...]

6.7 Installation Specific Processes

6.7.1 Selecting Appointments

[...]

The following table provides details of orders including whether an Appointment is required or Appointment Representative attendance is required in respect of that order:

Service Class	Technology	Order Type	Appointment Required	Appointment Representative attendance required
1	Fibre	Connect Order	Yes	Yes
2	Fibre	Connect Order	Yes	Yes
3	Fibre	Connect Order for a Battery Backup Installation at time of Activation	Yes	Yes
3	Fibre	Modify Order for installation of Battery Backup	Yes	Yes
3	Fibre	Connect Order for installation of an additional NTD and Power Supply Unit (Standard or with Battery Backup)	Yes	Yes
3	Fibre	Connect Order for installation of a Battery Backup (Priority Assistance)	Yes	Yes
5	Wireless	Connect Order	Yes	Yes
6	Wireless	<u>Modify Order where a W-NTD Upgrade Installation is required</u>	Yes	Yes
6	Wireless	Connect Order for an additional Installation	Yes	Yes
[...]	[...]	[...]	[...]	[...]

[...]



nbn® Ethernet (Wireless): Notice of Unfair Use and steps nbn is taking for non-compliance with the Fair Use Policy

[...]

Which AVCs could be subject to a Service Reduction

The table below sets out the nbn® Ethernet (Wireless) AVC TC-4s that could be subject to a Service Reduction where your organisation does not comply with sections 4.3(a)(iii) and/or 4.6(a) of the Fair Use Policy (Impacted AVCs).

Fair Use Policy breach	Impacted AVC	Service Reduction applied to ...
Section 4.3(a)(iii)	AVC TC-4 that has a bandwidth profile other than Fixed Wireless Home Fast or Fixed Wireless Superfast with >120GB upload usage in calendar month	Upload usage
Section 4.6(a)	AVC TC-4 that has a bandwidth profile other than Fixed Wireless Home Fast or Fixed Wireless Superfast with >500GB download usage in calendar month	Download usage

Examples:

- If you are in breach of section 4.3(a)(iii) of the Fair Use Policy at the end of a calendar month, but not in breach of section 4.6(a), any Service Reduction would only be applied to the upload usage of Impacted AVCs in the following calendar month.
- If you are in breach of section 4.6(a) of the Fair Use Policy at the end of a calendar month, but none of your AVC TC-4s had >500GB download usage in that calendar month, no Service Reduction would be applied to the download usage of your AVC TC-4s in the following calendar month.

[...]

Will nbn notify me of the AVCs that could be subject to a Service Reduction?

Yes. nbn will provide your organisation with two notices (one regarding upload usage and the other regarding download usage):

- at least 5 Business Days before the end of the calendar month; and
- on or around the first Business Day of the next calendar month.



Each notice will include the following information, with month-to-date figures included in the first notice and final figures included in the second notice:

- the average download usage for all of your **nbn**® Ethernet (Wireless) AVC TC-4s;
- a list of your **nbn**® Ethernet (Wireless) AVC TC-4s [that have any bandwidth profiles other than Fixed Wireless Home Fast or Fixed Wireless Superfast](#) which have exceeded 500GB of download usage; and
- a list of your **nbn**® Ethernet (Wireless) AVC TC-4s [that have any bandwidth profiles other than Fixed Wireless Home Fast or Fixed Wireless Superfast](#) which have exceeded 120GB of upload usage.

[...]

Network Interface Specification – Access Virtual Circuit

3 CoS Bandwidth Specification Model

[...]

Important: Note that, for bandwidth profiles specified by **nbn** from time to time, the AVC TC-4 policer which applies to the downstream, [or if specified by nbn upstream](#), PIR (or in the case of bandwidth profiles where no PIR applies, the [relevant downstream](#) potential maximum Information Rate) will be raised by:

- [50% for Wireless Plus, Fixed Wireless Home Fast and Fixed Wireless Superfast bandwidth profiles; and](#)
- [15% for all other bandwidth profiles.](#)

[nbn may, from time to time, specify other percentages by which the AVC TC-4 policer will be raised.](#)

Where network capacity permits (including the Line Rate and other factors that impact speed and performance such as those set out in sections 3.8 and 13.1 to 13.4 of the [nbn® Ethernet Product Description](#)), this will enable the downstream [and/or upstream](#) Information Rate to exceed the PIR (or in the case of bandwidth profiles where no PIR applies, the downstream [and/or upstream](#) potential maximum Information Rate) set out in the [nbn® Ethernet Product Description](#) by up to [45% the percentage indicated above for the relevant bandwidth profile](#). ~~This~~ The additional allowance is configured for the purpose of assisting Customer to compensate for additional protocol overheads applied above Layer 2 ([plus any supplemental over-provisioning, where the allowance exceeds 15%](#)) and is subject to Customer implementing appropriate configuration changes in Customer's network,



including shaper policies and configurations of CPE and BNG equipment. **nbn's** AVC TC-4 policer configuration does not change the dimensioning of average busy hour throughput of Shared Network Resources as described in section 14.4 Performance Objectives for Utilisation Management of the [nbn® Ethernet Service Levels Schedule](#), nor does it change **nbn®** Ethernet as defined in the WBA or any other contractual commitments that attach to **nbn®** Ethernet, including in relation to PIR or potential maximum Information Rate.