

Draft

**STANDARD TERMS DETERMINATION FOR CHORUS' SUB-
LOOP UNBUNDLED COOPER LOCAL LOOP NETWORK
SERVICES**

Comment [A1]: The reasons for updating this document are described in *Section 30R Reviews of seven regulated telecommunications services' Standard Terms Determinations (STDs) Price Lists*. For each meaningful change we have identified the relevant paragraph in this document.

**SCHEDULE 2
SUB-LOOP CO-LOCATION PRICE LIST
SERVICE APPENDIX 2
PUBLIC VERSION**

18 June 2009

Updated to incorporate Commerce Commission decisions, amendments, and clarifications through to

[10 April 2017](#)

Table of Contents

1	Introduction.....	1
2	Charges.....	1
3	Co-location Charges	1
4	Adjustment to Charges	33
5	Notification of Changes to Space and Power Charges.....	44
Table of Sub-Loop Co-location Service Charges		55
1	Sub-loop Co-location Service Transaction Charges.....	55
2	Sub-loop Co-location Service Recurring Charges	99
3	Cancellation Schedule	114
4	Network Services Transaction Charges	124

1 Introduction

1.1 This schedule sets out Charges¹ for the Sub-loop Co-location Service at the date the Sub-loop Co-location Terms take effect and provides a mechanism to make adjustments to the Charges for Service Components².

Comment [A2]: 11.3: Standardisation

1.2 References to clauses or sections are references to clauses or sections in this Sub-loop Co-location Price List unless expressly provided otherwise. The definitions set out in the Sub-loop Services General Terms and the Sub-loop Co-location Operations Manual apply to the extent that they are not expressly modified by or inconsistent with the context of this Sub-loop Co-location Price List.

Comment [A3]: 11.1: No longer applicable

Comment [A4]: 11.3: Standardisation

2 Charges

2.1 All Prices³ are listed under the "Charge" column for each Service Component.

2.1.2 Each Charge for Sub-loop Co-location Service Components are described in the table below as being either a Core Charge ('C') or a Sundry Charge ('S') Charge.

Comment [A5]: 11.3: Standardisation

2.2.3 Core Charges are for the core components of the Sub-loop Co-location Service.

2.4 Sundry Charges are for other components of the Sub-loop Co-location Service (ancillary services).

Comment [A6]: 11.1: No longer applicable

2.2.5 Prices for Service Component These charges are either:

2.3.12.5.1 fixed; or

2.3.22.5.2 calculated on a fixed hourly rate; or

2.3.32.5.3 expressed as "Price on application" (POA), which Prices that are POA must reflect the underlying cost of providing the resources and project management skills required to provide the ancillary Services Component.

2.4.6 For all POA price Service Components that are POA, Chorus must, if requested by the Access Seeker, use all reasonable endeavours to provide the Access Seeker with two or more competitive quotes.

2.5.7 Charges will become due and payable and will be invoiced in the manner described in the "Charge invoiced" column for each Service Component table below.

2.6.8 The provisions in the Sub-loop Services General Terms relating to invoicing and payment of Charges apply.

2.7 All Charges in this schedule exclude GST.

2.9 All adjustments to Charges Prices must be approved by the Commission done in accordance with the Price Change Mechanism listed in the "Price Change Mechanism" column for each Service Component.

2.10 Any adjustment to Charges for Service Components must be approved by the Commission.

Comment [A7]: 11.3: Standardisation

3 Co-location Charges

3.1 The monthly Charge for Sub-loop Co-location rack space in a Distribution Cabinet is set out in the Price List under Service Component 2.1. There may be additional Service Components required by the Access Seeker. These are also identified in this Sub-loop Co-location Price List below.

Comment [A8]: 11.3: Standardisation

3.2 The monthly Charge for power is set out in this Sub-loop Co-location Price List under Service Component 2.2. The Access Seeker must pay the appropriate Charge for Service Component 2.2 that reflects the type of power supply in the individual Distribution Cabinet. Categories of power supply are differentiated as follows:

3.2.1 a standard power supply configuration including a power box, switchboard and control, rectifiers, batteries and direct current distribution (Standard Power Supply Method 1); or

3.2.2 the power supply set out in clause 3.2.1 with a transformer (Standard Power Supply Method 2); or

¹ Charge is defined in the Sub-loop Services General Terms as "all or (as the context requires) any amounts payable by the Access Seeker under the Sub-loop Services Terms." Charges in this schedule exclude GST.

² Service Component means a component of the Sub-loop Co-location Service, described in the rows of tables 1-4 below. Each Service Component has a description of the service, a Price Change Mechanism, invoicing detail and a Charge, which is identified as either Core or Sundry. Individual Service Components are referred to by the numerical reference number at the start of the row in which the Service Component is described.

³ Price in this document means the dollar amount(s) attributed to a Service Component. A Price becomes a Charge when the Access Seeker requests/receives the Service. Prices in this schedule exclude GST.

3.2.3 more complicated power arrangements that require the construction of a pole line, power lines, possibly provision of a transformer and/or additional power infrastructure associated with the addition of a Pedestal or other extension of the Distribution Cabinet (Non-standard Power Supply Method).

3.3 In addition there are ~~ancillary services~~ **further Service Components** that may be applicable which will depend on the circumstances.

Comment [A9]: 11.3:
Standardisation

4 Adjustment to ~~sundry~~ Charges

4.1 Chorus must, subject to the approval of the Commission, pass through changes in costs by increasing or decreasing ~~Sundry Charges/Prices~~ as follows:

4.1.1 Each year, on 1 November (~~Review Date~~), Chorus must ~~calculate adjustments to Prices~~:

~~4.1.1.1 the Sundry Charges relating to the ancillary services where this clause 4.1.1.1 is the prescribed Price Change Mechanism that are shown in the Price List table below (in the column "Price Change Mechanism" and identified as "clause 4.1(a)(i)"). Those adjustments must be~~ by an amount equivalent to the percentage change (up or down) for the previous year in the Labour Cost Index (All sectors, Salary and Ordinary Time Wage Rates, All industries combined) Series Reference LCIQ.SG5179 (Communication Services) Series Reference LCIQ.SE4919 as published by Statistics New Zealand ~~or such successor index as may be designated by Statistics New Zealand from time-to-time.~~⁴

~~For the purpose of this clause 4.1.1 the annual percentage change between the previous year's June index number and the current year's June index number must be used.~~

~~4.1.1.1.2 the Sundry Charges relating to the ancillary services where this clause 4.1.1.2 is the prescribed Price Change Mechanism that are shown in the Price List table below (in the column "Price Change Mechanism" and identified as "clause 4.1(a)(ii)") below. Those adjustments must be~~ by an amount equivalent to the percentage change (up or down) for the previous year in the Producer Price Index (Electricity Generation and Supply Outputs, Electricity and Gas Supply) Series Reference PPIQ.SUDD01-SUDD1100 as published by Statistics New Zealand ~~or such successor index as may be designated by Statistics New Zealand from time-to-time.~~

~~For the purpose of this clause 4.1.1.2, the percentage change should be calculated as the percentage difference between the sum of quarterly PPIs for the year ended in the June quarter and the sum of the quarterly PPIs for the previous year.⁴ For the purpose of this clause 4.1(a) the previous year is the period which commences on the quarterly index date immediately prior to the previous Review Date and ends on the quarterly index date immediately prior to the Review Date. For the review period on 1 November 2010, the previous year is the period which commences on the quarterly index date immediately prior to 1 November 2009.~~

4.1.2 Where:

4.1.2.1 ~~the cost of providing one of the ancillary Service Component (where the prescribed Price Change Mechanism is "clause 4.1.2") that are shown in the Price List table below (in the column "Price Change Mechanism" and identified as "clause 4.1(b)(i)"); increases or decreases; and~~

4.1.2.2 that increase or decrease is due to changes in input costs charged to Chorus pursuant to contractual obligations by its field service company contractors,

~~Chorus must immediately calculate an adjustment to Price relating to that Service Component to reflect the increase or decrease in costs.~~

4.1.3 When adjusting ~~the Sundry Charges/Prices~~ under clause ~~4.1.1(a)~~, Chorus must also review all ~~Service Components Sundry Charges~~ which are POA and ~~provide/calculate~~ a fixed price where this is practicable.

4.2 Once an adjustment ~~or new fixed Price~~ has been calculated under clause 4.1, Chorus must give notice to the Commission of the adjustment. The notice must include:

~~4.2.1 the figures used in the calculation for the adjustment;~~

~~4.2.2 the calculations undertaken for the adjustment;~~

~~4.2.2.3 a description of the adjustment made; and~~

~~4.2.2.4 the reasons for the increase or decrease.~~

4.3 Any adjustment to a Sundry Charge shall take effect from the date the Commission approves the ~~After an adjustment calculation has been approved by~~ the Commission, Chorus must:

~~4.3.1 notify Access Seekers of the adjustment; and then;~~

~~4.3.2 activate the new Charge arising from the adjustments in its billing system within 30 Working Days of the Commission notifying Chorus of it approval.~~

Comment [A10]: 11.3: Standardisation

Comment [A11]: 11.1: No longer applicable

Comment [A12]: 12.2.3: Clarifying calculation

Comment [A13]: 12.1: FPP index

Comment [A14]: 12.2.3: Clarifying calculation

Comment [A15]: 12.2.3: Clarifying calculation

Comment [A16]: 11.2: Index replaced

Comment [A17]: 12.2.3: Clarifying calculation

Comment [A18]: 11.3: Standardisation

Comment [A19]: 11.3: Standardisation & 12.2: Standardising adjustment process

⁴ As per Annual Adjustment of Charges April 2009 Letter of Approval (21 April 2009).

5 Notification of Changes to Space and Power Charges

- 5.1 Upon receiving a Firm Order or a Relinquishment Order in relation to the Sub-loop Co-location Service for any Distribution Cabinet(s), Chorus must notify all other Access Seekers also using the Sub-loop Co-location Service in the same Distribution Cabinet(s) of the impact of such an Order on the Charges payable under ~~Price List~~ Service Components 2.1 and 2.2.

Table of Sub-Loop Co-location Service Charges

1 Sub-loop Co-location Service Transaction Charges

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
1.1 Rackprint Preparation	Preparation of the Access Seeker's Rackprint, including power, heat management and associated support services (excluding any costs referred to in service components 2.1 and 2.2), and, where required, Splitters and the Rearrangement of other Access Seekers' or Other Service Providers' Rackprints to provide contiguous Rack Units. If requested may include installation of Access Seeker Equipment	S	On notification by Chorus of completion of works	None	Price on Application (POA) Price based on actual time and materials incurred plus a 10% contribution towards common costs
1.2 Sub-loop Co-location works within Rackprint	Miscellaneous work on existing equipment excluding work to Distribution Cabinet Services	S	On notification by Chorus of completion of works	None	Price on Application (POA) Price based on actual time and materials incurred plus a 10% contribution towards common costs
1.3 Site Audit	Site Audit of Distribution Cabinet where Sub-loop Co-location is not currently provided to Access Seeker or a survey for capacity upgrade or Intra-Distribution Cabinet Tie Cable installation or audit of Distribution Cabinet infrastructure to determine work for wireless network antenna installation	S	On notification by Chorus of completion	None	Price on Application (POA) Price based on actual time and materials incurred plus a 10% contribution towards common costs
1.4 Accreditation training	Training to provide accreditation to be able to access a Distribution Cabinet, (excluding the provision of a security access card)	S	On completion of training	Clause 4.1.1.1	\$255,98271.83 /participant Based on a 2 hour course duration with a skilled trainer (cost [] Chorus COI per hour) plus course materials and common costs
1.5 Skill and experience assessment	Assessment of required additional information to confirm appropriate level of skills and experience required	S	On completion of assessment	Clause 4.1.1.1	\$102,39113.72 per hour plus actual travel costs (as applicable the costs of airplane flights, public transport fares, taxi fares and standard mileage rates for motor vehicles as published by Inland Revenue) to Access Seeker's site. Hourly rate reflects fully loaded cost of skilled employee to run assessment

Comment [A20]: 11.3: Standardisation (unless otherwise specified).

Comment [A21]: 9.3: 2016 adjustment

Comment [A22]: 9.3: 2016 adjustment

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
1.6 Provision of a security card	Provision of a security access card including replacement for lost/stolen/damaged card	S	On issuance of security access card	4.1.3 None	\$35.00 per card Basis for determining the charge is the actual costs Chorus incurs in actual card purchase, printing and encoding, delivery and activation costs (\$20.00) plus \$15.00 to cover common costs related to operational security
1.7 Provision of a Key	Provision of a security key to Distribution Cabinets	S	On issuance of key	4.1.3 None	\$30.00 Basis for determining the charge is the actual costs Chorus incurs in key purchase (\$7.50), courier costs (\$7.50) plus \$15.00 towards common costs related to operational security
1.8 Loss of Key	Replacement of lost security key to Distribution Cabinets	S	On issuance of key	None	Price on Application (POA) Based on actual costs of replacing the key and, if necessary, replacing the lock on all relevant Distribution Cabinets
1.9 Additional OO&T Training	Access Seeker staff training (at Access Seeker's site) on the operation and use of OO&T. Maximum of 10 persons per course	S	Following completion of training	Clause 4.1.1.1	\$102.39 <u>113.72</u> per hour plus actual travel costs (as applicable the costs of airplane flights, public transport fares, taxi fares and standard mileage rates for motor vehicles as published by Inland Revenue) to Access Seeker's site. Hourly rate reflects fully loaded cost of skilled employee to run training.
1.10 Additional OFM Training	Access Seeker staff training (at Access Seeker's site) on the operation and use of OFM. Maximum of 10 persons per course	S	Following completion of training	Clause 4.1.1.1	\$102.39 <u>113.72</u> per hour plus actual travel costs (as applicable, the costs of airplane flights, public transport fares, taxi fares and standard mileage rates for motor vehicles as published by Inland Revenue) to Access Seeker's site. Hourly rate reflects fully loaded cost of skilled employee to run training.

Comment [A20]: 11.3: Standardisation (unless otherwise specified).

Comment [A23]: 9.3: 2016 adjustment

Comment [A24]: 9.3: 2016 adjustment

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
1.11 OO&T License Fee	Monthly software license fee for OO&T	S	Monthly in advance	None	\$24.00 per Access Seeker per month
1.12 OFM License Fee	Monthly software license fee for OFM	S	Monthly in advance	None	\$24.00 per Access Seeker per month
1.13 Additional copies of invoice	Additional hard copies of invoices as requested by Access Seeker	S	On provision of additional copies of invoice	Clause 4.1.1.1	\$102.39 <u>113.72</u> per invoice Based on per line itemisation and average forecast invoice length plus time and materials of person to prepare and courier charge
1.14 Additional billing information	Providing any additional billing information requested by the Access Seeker over and above that reasonably required to enable the Access Seeker to check the accuracy of invoices	S	On provision of the additional billing information	None	Price on Application (POA) Based on time and materials of person to prepare and deliver information
1.15 Escorted Access	Escorted access during Business Hours	S	At completion of escorted access	Clause 4.1.2	\$2.00 <u>105.98</u> per hour [] CHORUS COI
	Escorted access outside Business Hours	S	At completion of escorted access	Clause 4.1.2	\$2.00 <u>105.98</u> per hour [] CHORUS COI
1.16 Security Guard call out	Security Guard Call out due to Access Seeker's acts or omissions	S	Following call out	Clause 4.1.2 <u>None</u>	\$0.00 <u>42.50</u> for call outs plus travel mileage as published by Inland Revenue
1.17 Fixing fault where Access Seeker has no right of access	Fixing of fault at Access Seeker's request where Access Seeker is responsible for the fault, but has no right of access	S	On completion of fault rectification	None	Price on Application (POA) Based on cost of time and materials (including a 10% contribution towards common costs)
1.18 No Fault Found	Fixed charge for Fault call that is closed "no Chorus fault found"	S	Following completion of fault investigation	Clause 4.1.2	\$10.04 <u>124.13</u> [] CHORUS COI
1.19 Grooming	Grooming within a Distribution Cabinet at the request of an Access Seeker	S	Following completion of work	None	Price on Application (POA) Based on cost of time and materials (including a 10% contribution towards common costs, unless already recovered)

Comment [A20]: 11.3: Standardisation (unless otherwise specified).

Comment [A25]: 9.3: 2016 adjustment

Comment [A26]: 9.3: 2016 adjustment

Comment [A27]: 9.3: 2016 adjustment

Comment [A28]: 9.3: 2016 adjustment

Comment [A29]: 9.3: 2016 adjustment

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
1.20 Equipment removal	Charge for Removal by Chorus of unused Access Seeker Equipment	S	Following completion of work	<u>None</u>	<u>Price on Application (POA)</u> Based on cost of time and materials (including a 10% contribution towards common costs)

Comment [A20]: 11.3: Standardisation (unless otherwise specified).

2 Sub-loop Co-location Service Recurring Charges

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
2.1 Sub-loop Co-location rack space	Sub-loop Co-location Service space (Rack Units), covering contribution to capital costs of Distribution Cabinet (including any associated Pedestal), excluding power infrastructure.	C	Monthly in advance from completion of Order	None	<p>Priced on a cabinet-by-cabinet according to the proportion of occupied Rack Units used by the Access Seeker using the following formula:</p> $A = (B_1 + B_2) \times \left(\frac{C}{D} \right)$ <p>Where:</p> <p>A = the monthly co-location charge paid by the Access Seeker</p> <p>B₁ = the total recurring charge for the Distribution Cabinet (\$972 per month)</p> <p>B₂ = additional cost of any additional Pedestal (excluding the associated power infrastructure), converted into a monthly charge using a amortisation factor of 1.44% (based on an asset life of 10 years and a pre-tax cost of capital of 11.1%), plus a common cost mark up of 10%</p> <p>C = the number of Rack Units used by the Access Seeker</p> <p>D = the total number of occupied Available Rack Units (including those to be used by the Access Seeker)</p>

Comment [A30]: 11.3: Standardisation (unless otherwise specified).

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
2.2 Power	-48V DC Power Facility Rental. Includes electricity and battery backup for a Distribution Cabinet (including any associated Pedestal)	S	Monthly in advance from completion of Order	For 'E', clause 4.1.1.2	<p>Sum payable is amount calculated as A below:</p> $A = N \times \left(\frac{P}{CT} + E \right)$ <p>where:</p> <p>N = number of amps (measured by fuse size)</p> <p>P = Cost of 100% of power capacity at the cabinet, calculated as:</p> <ul style="list-style-type: none"> \$110 for a Distribution Cabinet with a Standard Power Supply Method 1; \$194 for a Distribution Cabinet with a Standard Power Supply Method 2 (i.e. requires an additional transformer); and POA for a Distribution Cabinet with a Non-standard Power Supply Method converted into a recurring monthly charge using a pre-tax cost of capital of 12.4%, \$17 per month for operational costs, and a common cost mark-up of 10% of the monthly charge) <p>CT = Total capacity in use in amps.</p> <p>E = Electricity Charge at \$7.34\$6.41 per amp per month.</p>
2.3 Sub-loop Co-location cable space	Rental for Chorus-provided Cable Space. Different Charges-Prices are set for cables that are internal to the Distribution Cabinet and for cables that are external to the Distribution Cabinet	C	Monthly in advance from completion of Order	None	<p>Sub-loop Co-location Intra-Distribution and Inter Rackprint Tie Cables = no charge</p> <p>Sub-loop Co-location External Tie Cable = \$6.66 x the number of external cables</p>

Comment [A30]: 11.3: Standardisation (unless otherwise specified).

Comment [A31]: 9.3: 2016 adjustment

3 Cancellation Schedule

Service component	Description	Core or sundry	Charge invoiced	Price change mechanism	Charge (excl. GST)
3.1 Missed appointment	Missed appointments by Access Seeker for either an escort technician or testing personnel	S	At end of scheduled appointment	Clause 4.1(b) 4.1.2	\$57,844 12.53 [] CHORUS COI
3.2 Cancellation of Sub-loop Co-location Order	Cancellation of Sub-loop Co-location Order	S	On cancellation of Co-location Order	None	Price on Application (POA) Price based on actual time and materials plus a 10% contribution towards common costs

Comment [A32]: 11.3: Standardisation (unless otherwise specified).

Comment [A33]: 9.3: 2016 adjustment

4 Network Services Transaction Charges

Service component	Description	Core or sundry	Charge becomes due	Price change mechanism	Charge (excl. GST)
4.1 Intra-Distribution Cabinet Tie Cable installation	Installation of Intra-Distribution Cabinet Tie Cable Copper tie cable from the Access Seeker's Rackprint in the Sub-loop Co-location Service Area in Distribution Cabinet to HDP on Distribution Cabinet DF. Chorus or Access Seeker provided cable	S	On completion of installation	None	Price on Application (POA) Price based on actual time and materials incurred plus a 10% contribution towards common costs
4.2 Sub-loop Co-location External Tie Cable installation	Installation of Sub-loop Co-location External Tie Cable Copper, coax, or fibre between the Access Seeker's Rackprint in Distribution Cabinet and the Access Seeker's or third party's pedestal (or equivalent facility), backhaul network, or ancillary backhaul equipment outside and adjacent to the Distribution Cabinet Manhole. Chorus or Access Seeker provided cable	S	On completion of installation	None	Price on Application (POA) Price based on actual time and materials incurred plus a 10% contribution towards common costs
4.3 Inter-Rackprint Tie Cable installation	Installation of Inter-Rackprint Tie Cable Copper, coax, or fibre between the Access Seeker's Rackprint in the Distribution Cabinet and another Rackprint in the Distribution Cabinet that is used by the Access Seeker, Chorus or to an Other Service Provider. Chorus or Access Seeker provided cable	S	On completion of installation	None	Price on Application (POA) Price based on actual time and materials incurred plus a 10% contribution towards common costs

Comment [A34]: 11.3: Standardisation (unless otherwise specified).