



Chorus UFB Services Agreement
Direct Fibre Access Services:
Service Description for Jumpering Service

Reference Offer

June 2017

1. Interpretation

- 1.1 References to clauses or sections are references to clauses or sections in this Service Description unless expressly provided otherwise. The definitions set out in the General Terms and the Operations Manual apply to this Service Description unless expressly provided otherwise.
- 1.2 References to the Operations Manual are references to the operations manual for Direct Fibre Access Services and references to the Service Level Terms are references to the Service Level Terms for Direct Fibre Access Services. Except as varied by this Service Description any references to Direct Fibre Access Service in either the Operations Manual or the Service Level Terms shall include the Jumpering Service.
- 1.3 This Service Description covers the provision of the Jumpering Service in all areas (including within the Chorus UFB Zone, the RBI Zone and the Voluntary Zones). The LFC will regularly update the zone maps at www.chorus.co.nz/ournetwork to show the boundaries of the various zones.
- 1.4 The General Terms in the Chorus Reference Offer apply to provision of the Jumpering Service.

2. The Jumpering Service

- 2.1 The Jumpering Service is a fibre connection service suitable for the interconnection of fibre access circuits or backhaul to fibre access circuits. It enables access to, and interconnection with the LFC Network.
- 2.2 The Jumpering Service is a dark fibre service, but can be used to interconnect bandwidth managed services.
- 2.3 A diagram of the configuration for the Jumpering Service is set out in Appendix A. The Jumpering Service consists of the provision of interconnection of two fibres that are the termination points of either a backhaul service or Access Service on the MOFDF at the LFC Central Office.
- 2.4 The Jumpering Service is an input service which the Service Provider can use as a building block to combine with other LFC services (or with the Service Provider's own network or wholesale services provided by other providers) to provide fibre based telecommunications services to End Users.
- 2.5 The Jumpering Service is only required to join:
 - 2.5.1 A fibre access circuit to a backhaul service or services where the backhaul service or services is ultimately connected to another fibre access circuit; or
 - 2.5.2 Two Access Services.
- 2.6 Only one Jumpering Service is required in any combination of services. Whilst there may be other connections between backhaul services or Access Service and backhaul services or both, these connections will not be a Jumpering Service.

3. Jumpering Service and implementation activities

Installation services

- 3.1 The Jumpering Service includes a Standard Install comprising the interconnection of two fibres that are the termination points of either a backhaul service or Access Service concurrent with the installation of the Access Service or backhaul service (to the extent that the relevant provisioning works are not already complete for the relevant Service Order).

The LFC Central Office Termination Point

- 3.2 At the LFC Central Office, the termination point for the purposes of the Connection, and the network demarcation point between the LFC Network or backhaul service and the Jumpering Service, is usually a splice or LCA plug on the MOFDF.

Testing

- 3.3 The LFC will test the Jumpering Service as part of the test of the resultant end to end access service to ensure it is within the technical specification for fibre set out in Appendix B.
- 3.4 The LFC testing is performed at 1625nm in accordance with ITU standards G.650 and T L.41, hence the Service Provider must not use that wavelength for any services.

Interconnection Requirements

- 3.5 To use the Jumpering Service, the Service Provider must have the capability to access and interconnect with the Jumpering Service, either by taking:
- 3.5.1 a fibre based access service; or
 - 3.5.2 a backhaul service from the relevant LFC Central Office MOFDF to connect to Service Provider equipment (as defined in the Central Office and POI Co-location Service Description) elsewhere.

Additional Service Characteristics

- 3.6 The technical specification of the Jumpering Service is set out in Appendix B.
- 3.7 The LFC will provide certain support and other assistance as part of the Jumpering Service including:
- 3.7.1 an electronic facility for Service Requests as part of an Access Service or backhaul service request; and
 - 3.7.2 an electronic facility for fault notifications as part of an Access Service or backhaul service notification.
- 3.8 The Jumpering Service specifically excludes:
- 3.8.1 provision or maintenance of any cabling or connection or active device beyond the Service Demarcation Points;
 - 3.8.2 configuration, monitoring, operation, on-going support or maintenance of Service Providers' or End Users' applications, equipment or networks; and
 - 3.8.3 supply of AC Mains & UPS Power, accommodation in a suitable environment for electronic equipment, heating, ventilation, air

conditioning and facilities at the Central Office or End User Premises or End User Tenancy or NBAP (as applicable).

4. LFC Service Demarcation Point

- 4.1 The Service Demarcation Point for the Jumpering Service at the LFC Central Office is the termination point as described in clause 3.2.

5. Availability

- 5.1 The Jumpering Service is dependent on the Service Provider taking Access Services and/ or backhaul services. If these services are not available, the Jumpering Service will not be available.

6. Service Provider Responsibilities

- 6.1 Other Service Provider responsibilities are detailed in the General Terms and Operations Manual.
- 6.2 The Service Provider will be responsible for all of the design, specification and commissioning of their equipment and plant (both active and passive) connected to the Jumpering Service.

7. Service Levels

- 7.1 Service Levels for the Direct Fibre Access Service in the Chorus Reference Offer (as updated from time to time) shall apply to the provision of the Jumpering Service subject to any modifications, exclusions and clarifications set out in this section 7.
- 7.2 Appendix 1: Core Service Levels clauses 1.2 and 1.3 of Appendix 1 to the Direct Fibre Access Service - Service Level Terms do not apply and the following new clauses 1.2 and 1.3 will apply to the Jumpering Service instead:

- 1.2 *Subject to clause 1.3 of this Appendix, the LFC will complete the Standard Installation for Connections as follows:*

Each installation of a Jumpering Service Connection must be completed:

- (a) *if the backhaul service or the Access Service to which the Jumpering Service is to be connected are ordered together, the Jumpering Service must be provisioned concurrently with the completion of the Connection of the relevant backhaul service or Access Service; or*
- (b) *if the Jumpering Service is ordered independent of a backhaul service or Access Service, the Jumpering Service must be provisioned within 6 Business Days (or such later date as agreed between the Service Provider and the relevant End User).*

- 1.3 *Any time period:*

- (a) *during which any Force Majeure Event prevents installation of a Jumpering Service Connection or prevents restoration of a Jumpering Service Connection which is subject to Downtime; or*
- (b) *during which the LFC is, due to a Force Majeure Event, unable to safely access any location or premises where physical access is required to install a Jumpering Service Connection or restore a Jumpering Service Connection which is subject to Downtime or;*

(c) *which reflects any minimum notice requirements or access constraints contained in any existing arrangements referred to in clause 12.2(b) of the General Terms and which contain the permissions or consents that are relied upon,*

will be added to the period specified in 1.2.

7.3 No Core Service Rebates will apply to installations for the Jumpering Service. The LFC will however use commercially reasonable efforts to undertake Jumpering Service Connections in a manner consistent with the Service Levels applicable to those Connections.

8. Operations Manual

8.1 The Direct Fibre Access Service Operations Manual in the Chorus Reference Offer applies to provision of the Jumpering Service subject to any modifications, exclusions and clarifications set out in this section 8.

8.2 No forecasts for the Jumpering Service are required.

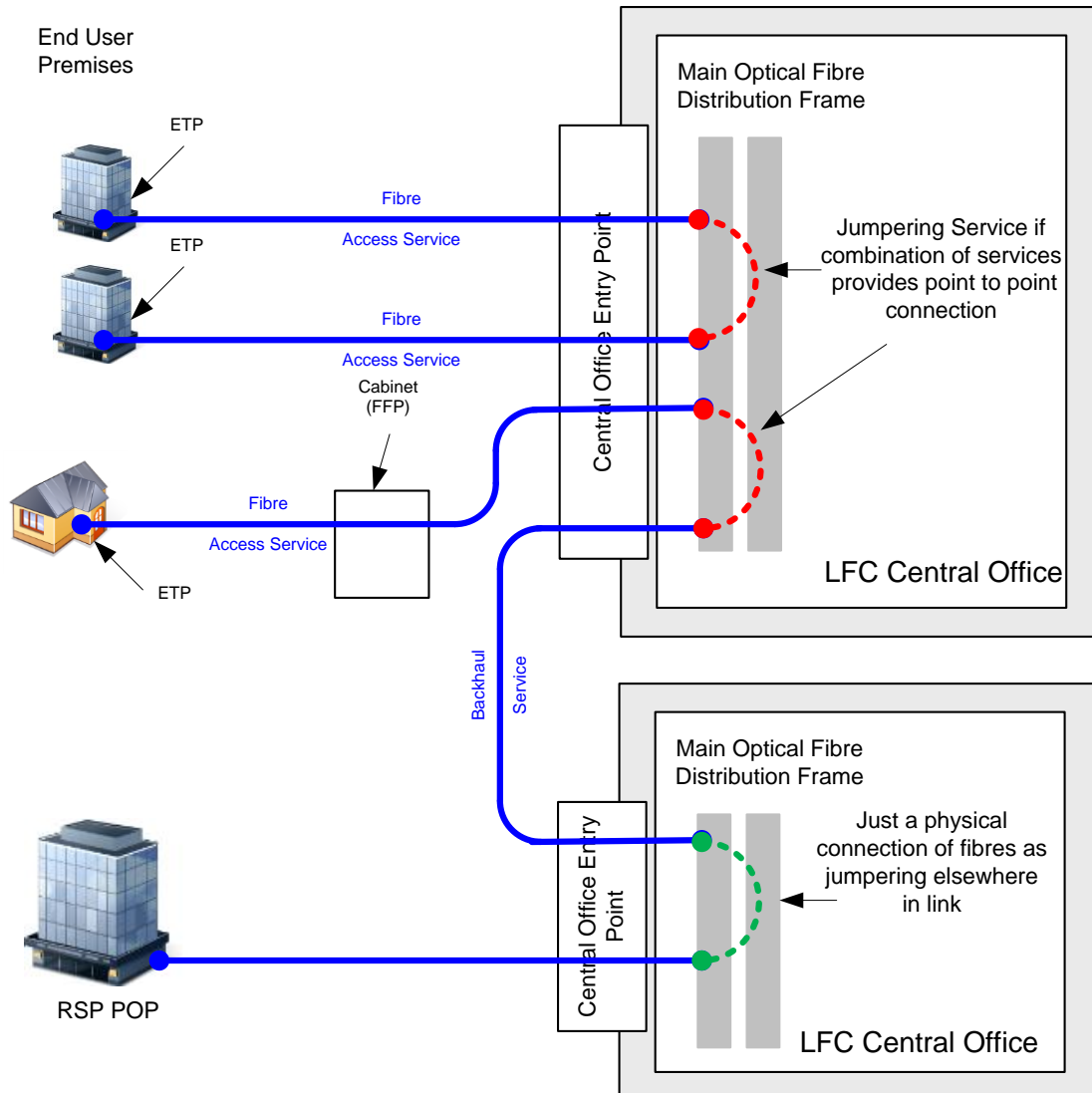
8.3 Clauses 7.20 and 7.21 of the Direct Fibre Access Service Operations Manual apply to the Jumpering Service and the Service Provider shall ensure that the business continuity forms for the appropriate associated access or backhaul service include details of the Jumpering Service.

8.4 Section 16 of the Direct Fibre Access Service Operations Manual does not apply to the Jumpering Service.

8.5 The following definitions apply to the Jumpering Service in addition to those set out in the Direct Fibre Access Operations Manual, Appendix A – Glossary.

Term	Definition
Access Services	means any variant of the Direct Fibre Access Services and Bandwidth Fibre Access Services.
Chorus Reference Offer	means the UFB suite of documents posted on the Chorus website www.chorus.co.nz/ufbservices as updated from time to time.
Jumpering Service	means a fibre jumper on the MOFDF connecting the Intra Candidate Area Backhaul Service, or an Access Service, to an Access Service.

Appendix A – Diagram



Appendix B – Technical Specification

Technical Specification

<p>Fibre</p>	<p>Fibre must comply with ITU-T specification G.652D and cables must meet appropriate fire regulations i.e. be Flame-Retardant, Non Corrosive, Low Smoke, Zero Halogen (FRNC/LSZH).</p>
<p>Connector Type</p>	<p>For Fibre terminations SC/APC type connectors (complying with the IEC 61754-4 standard) or alternatively LC/APC also known as LCA type connectors (complying with the IEC 61754-20 standard) as appropriate.</p>