



COMMERCE COMMISSION

**STANDARD TERMS DETERMINATION FOR
TELECOM'S UNBUNDLED COPPER LOCAL LOOP
NETWORK SERVICE**

**SCHEDULE 1
UCLL SERVICE DESCRIPTION
PUBLIC VERSION**

7 November 2007

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1 The UCLL Service

- 1.1 References to clauses or sections are references to clauses or sections in this UCLL Service Description unless expressly provided otherwise. The definitions set out this UCLL Service Description apply to the extent that they are not expressly modified by or inconsistent with the UCLL General Terms.
- 1.2 The UCLL Service is a service (and its associated functions, including the associated functions of Telecom's operational support systems) that enables access to, and interconnection with, Telecom's copper local loop network (including any relevant line in the exchange). The UCLL Service comprises the MPF Service (as described below), the Tie Cable Service (as described below) and various ancillary services (as described in the UCLL Operations Manual and the UCLL Price List).
- 1.3 The UCLL Service is an input service which the Access Seeker can use as a building block to provide services to End Users. The Access Seeker can combine the UCLL Service with network transport services offered by Telecom (or with the Access Seeker's own network or wholesale network transport services provided by other providers) and service level functionality to deliver services to End Users.

2 MPF Service, Tie Cable Service and ancillary services

- 2.1 A diagram of the MPF Service is set out in Appendix A. The MPF Service consists of provision of an MPF¹ for access to End Users. The specification of the MPF is set out in Appendix B.
- 2.2 To use an MPF an Access Seeker must have the capability to access and interconnect with it, whether by co-locating Access Seeker Equipment at the relevant Telecom local telephone Exchange (referred to below simply as a Telecom exchange), or otherwise. "Access Seeker Equipment" in this context is equipment used exclusively for providing:
- 2.2.1 Access to, and interconnection with, the MPF Service; or
- 2.2.2 Backhaul for the MPF Service.
- 2.3 Access Seekers may co-locate Access Seeker Equipment at a Telecom exchange using Telecom's unbundled copper local loop network co-location service (the Co-location Service) which is separate from the UCLL Service. Where Access Seeker equipment is not located at the Telecom exchange at which the relevant MPF starts, a Tie Cable Service is available consisting of the provision of a Handover Distribution Point (HDP) block on the Telecom exchange Main Distribution Frame (MDF), and a tie cable (supplied either by Telecom or the Access Seeker) that meets Telecom's Cable Specification² from that block to a point outside and adjacent to Telecom's exchange manhole. Regardless of whether the tie cable is supplied by Telecom or the Access Seeker, Telecom will install the tie cable within the exchange and terminate it on the HDP block.
- 2.4 There is no restriction on the type of service or application offered over the MPF by the Access Seeker provided the technology used to deliver the service or application complies with the Interference Management Plan. This may in practice restrict the service or application offered by Access Seekers to End Users in some circumstances.

¹ MPF is defined as a pair of twisted copper conductors between the relevant demarcation point at the End User's premises and the relevant demarcation point at a Telecom local telephone exchange that conveys signals when connected to an electronic communications network.

² See Appendix E to the UCLL Operations Manual.

- 2.5 The MPF extends from the External Termination Point (ETP)³ at an End User's site, through Telecom's Local Loop Network,⁴ to the HDP block on the MDF in a Telecom exchange.
- 2.6 The UCLL Service includes service assistance provided by Telecom (see the UCLL Operations Manual for details) as follows:
- 2.6.1 Automated facility for Access Seeker MPF Service orders and fault notifications;
 - 2.6.2 An automated prequalification tool to assist the Access Seeker in determining the location and estimated characteristics of the MPF;
 - 2.6.3 Manual measurements of actual MPF electrical characteristics if requested by the Access Seeker;
 - 2.6.4 Various other ancillary services as described in the UCLL Operations Manual and in the UCLL Price List.
- 2.7 The UCLL Service implementation activities carried out by Telecom include:
- 2.7.1 Provisioning of the MPF;
 - 2.7.2 Where an Access Seeker's Equipment is not located at the relevant Telecom exchange, and the Access Seeker is taking up the Tie Cable Service referred to at paragraph 2.3 above:
 - (a) provisioning of a HDP block on the Telecom exchange MDF
 - (b) identification of the route that the tie cable will take between the HDP block on the MDF and the point outside and adjacent to Telecom's exchange manhole and installation of the tie cable including installation of any required cable racks and trays to support the tie cable;
 - 2.7.3 Handover to relevant Telecom assure team for ongoing service management.
- 2.8 The UCLL Service specifically excludes:⁵
- 2.8.1 Access to, or interconnection with, Telecom's copper local loop network at any cabinet or at any distribution point apart from a Telecom exchange MDF;
 - 2.8.2 Telecom's Co-location Service which is an optional additional service;
 - 2.8.3 Telecom's unbundled copper local loop network backhaul service which is an optional additional service;
 - 2.8.4 Provision or maintenance of End User premise wiring;

³ External Termination Point (ETP) means the external termination point for telecommunications services at an End User's premises or, where there is no termination point external to the premises, either the first jack on the premises wiring or, where appropriate, the building distribution frame.

⁴ Telecom's Local Loop Network is that part of Telecom's copper network that connects the end user's building (or, where appropriate, the building distribution frames) to the handover point in Telecom's local telephone exchange.

⁵ Note this is not intended to be an exhaustive list of exclusions or to limit what is excluded from the UCLL Service. It needs to be read in the full context of this service description.

- 2.8.5 Configuration, monitoring, operation, support or maintenance of Access Seekers' or End Users' applications, equipment or networks;
- 2.8.6 Configuration or on-going support of the End User's applications;
- 2.8.7 Control of access to the UCLL Service end points through any network beyond the UCLL Service handover points;
- 2.8.8 Any active Telecom analogue telephone service (POTS) on the same MPF and any service over the MPF such as lawful intercept and 111 service;
- 2.8.9 Installation of new copper loops between the Telecom exchange and an End User's premises or installation of new service leads at an End User's premises;
- 2.8.10 Access to an MPF that supports a pair gain system where that pair gain system cannot be transferred, where necessary, onto another suitable MPF.

3 End User Demarcation Point

- 3.1 The MPF Service is delivered to the ETP at the End User's building.
- 3.2 The MPF Service excludes premises wiring. The Access Seeker or the End User will be responsible for customer premises equipment (CPE) and wiring at the End User's site beyond the ETP. The Access Seeker must ensure that TelePermit and premises wiring requirements are adhered to. These are available at www.telepermit.co.nz.

4 Telecom Service Demarcation Point

- 4.1 The MPF Service is delivered from the MPF side of the HDP block on the MDF.

5 Access Seeker Responsibilities

- 5.1 The Access Seeker responsibilities are detailed in the UCLL General Terms and UCLL Operations Manual.

6 Components of the Service and Associated Charges

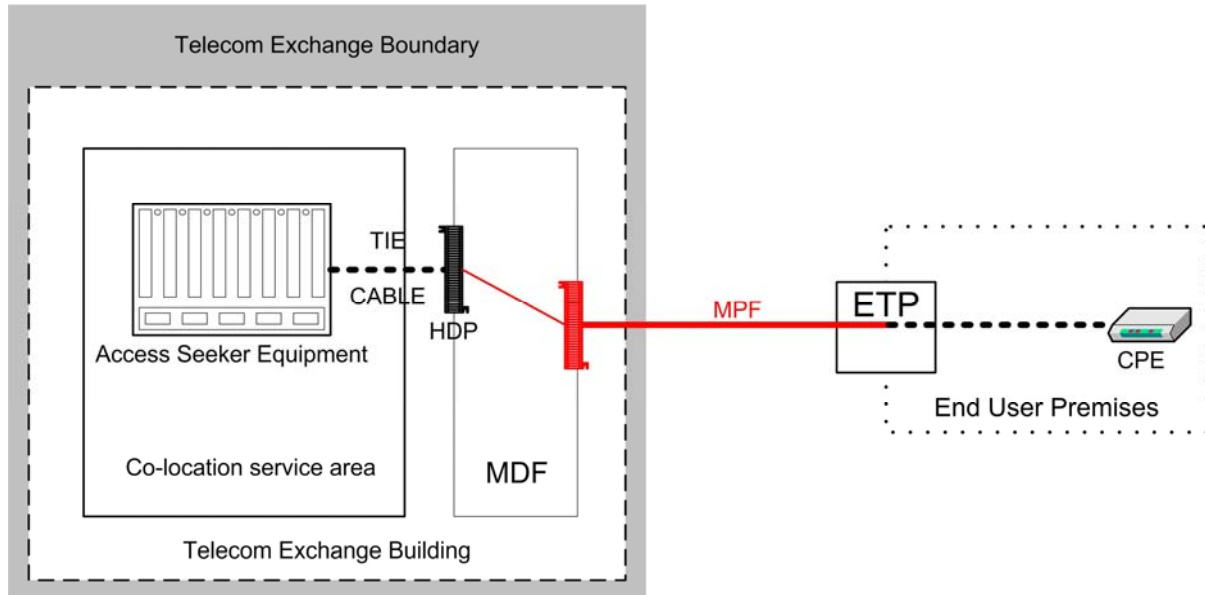
- 6.1 For detailed information on the components of the UCLL Service and associated charges see the UCLL Price List and the UCLL Operations Manual.

7 Service levels

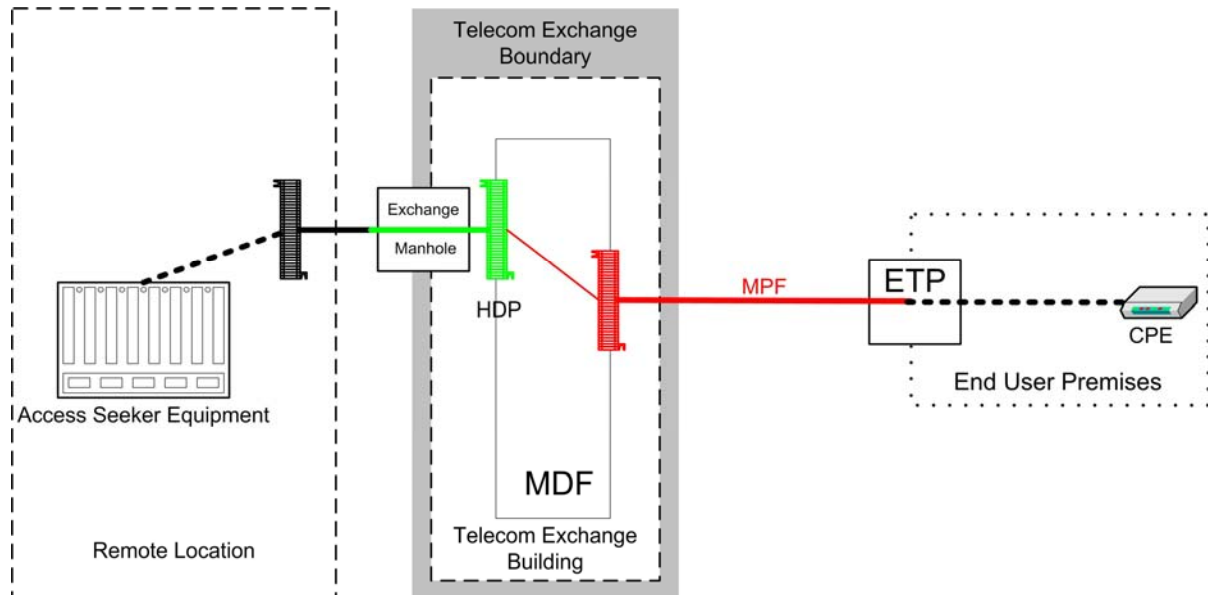
- 7.1 Applicable service levels are set out in the UCLL Service Level Terms.

Appendix A – Diagrams

(i) MPF Service



(ii) MPF Service and Tie Cable Service



CPE = Customer Premises Equipment (including modem).
 Red = MPF Service.
 Green = Tie Cable Service

Appendix B - Specification for the MPF

The parameters of the MPF are defined for the pair from the MDF to the ETP. When testing the parameters of the MPF, the MPF must be tested in isolation from End User premises wiring and equipment and from UCLL operator wiring and equipment. The parameters listed in Table 1 apply to all types of MPF.

Parameter (note 2)	Parameter value (taking account of notes 1 to 2)
Minimum insulation resistance between conductors	100k Ohms
Minimum insulation resistance between conductor and earth	100k Ohms

Table 1 - MPF Parameters

Note 1: The MPF will be categorised faulty if any measured resistance is below the parameter values.

Note 2: Any measurement made with respect to earth will be made using the earth at the Telecom MDF site.