



COMMERCE COMMISSION

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

**SCHEDULE 1  
CO-LOCATION SERVICE DESCRIPTION  
PUBLIC VERSION**

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## 1 The Co-location 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 Co-location Service is a service (and its associated functions, including the associated functions of Telecom's operational support systems) that provides co-location facilities for an Access Seeker's equipment, and access to the handover point, at Telecom's local telephone Exchange (referred to below simply as Telecom's exchange) for the purposes of providing access to, and interconnection with, Telecom's unbundled copper local loop network (including any necessary supporting equipment). A diagram of the Co-location Service is attached as Appendix A.
- 1.3 The handover point is the Handover Distribution Point (HDP) block located on the Main Distribution Frame (MDF).
- 1.4 The Access Seeker can combine the Co-location Service with interconnection, and backhaul for the UCLL Service offered by Telecom (or with the Access Seeker's own network or wholesale services provided by other providers) to deliver a service to End Users.

## 2 Co-location Space

- 2.1 The Co-location Service includes access to and the use of, space in, on, or around Telecom's exchange for the purposes of installing and maintaining the approved<sup>1</sup> Access Seeker's equipment.
- 2.2 "Access Seeker's equipment", for the purposes of this Service Description, includes the equipment of any person other than the Access Seeker (including any line) if that equipment is being used to support the provision of backhaul for the Access Seeker.
- 2.3 The Co-location Service includes the provision of:
- 2.3.1 Footprint(s);<sup>2</sup>
  - 2.3.2 power, air-conditioning and other associated services to support Access Seeker equipment;
  - 2.3.3 cable racks and trays, HDP blocks, seismic bracing, earthing and other associated infrastructure to support Access Seeker equipment;
  - 2.3.4 tie cables (note these may be supplied either by Telecom or the Access Seeker);
  - 2.3.5 controlled access for accredited personnel to support Access Seeker equipment.
- 2.4 Co-location Service assistance provided by Telecom (see the Co-location Operations Manual for details) is as follows:
- 2.4.1 automated facility for Access Seeker new service orders;

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<sup>1</sup> The process for approval of Access Seeker equipment is set out in the Co-location Operations Manual.

<sup>2</sup> Footprint is defined as a space at any Telecom exchange that is allocated to the Access Seeker for the installation of its equipment but excludes any space occupied by the Access Seeker's tie cables.

- 2.4.2 an audit facility to assist the Access Seeker and Telecom in determining the suitability of a new site as a point from which to offer service to Access Seeker End Users.
- 2.5 The Co-location Service implementation activities that will be carried out by Telecom include:
- 2.5.1 provisioning of the Access Seeker's Footprint, including power, air-conditioning and associated support services;
  - 2.5.2 identification of the route that Intra-exchange Tie Cables will take between the Access Seeker's Footprint and the Access Seeker's HDP block on the MDF including installation of any cable racks and trays required to support Intra-exchange Tie Cables;
  - 2.5.3 supply of HDP blocks and if requested by the Access Seeker Intra-exchange Tie Cables;
  - 2.5.4 installation of HDP block on MDF, and Intra-exchange Tie Cables between the Access Seeker's Footprint and the MDF, and termination of the MDF end of tie cables on the HDP block;
  - 2.5.5 identification of the route that Co-location Backhaul Tie Cables will take within the Telecom exchange, Telecom ducts and the Telecom exchange manholes, between the Access Seeker Footprints or between the Access Seeker's Footprint and the Access Seeker's or a third party's fibre network cable outside and adjacent to Telecom's exchange manhole, including installation of any required cable racks and trays to support Co-location Backhaul Tie Cables;
  - 2.5.6 supply of Co-location Backhaul Tie Cables if requested by the Access Seeker;
  - 2.5.7 installation of Co-location Backhaul Tie Cables between Access Seeker Footprints, or the Access Seeker's Footprint and the Access Seeker's or a third party's fibre network cable outside and adjacent to Telecom's exchange manhole. For Telecom supplied cable, the cable will be delivered to the Access Seeker outside and adjacent to Telecom's exchange manhole. For Access Seeker supplied cable, the cable, of length advised by Telecom, will be received at Telecom's exchange manhole.
- 2.6 The Co-location Service specifically excludes:<sup>3</sup>
- 2.6.1 Access to, and the use of, space in, on, or around any location apart from Telecom's exchange;
  - 2.6.2 Housing Access Seeker equipment (including any necessary supporting equipment) that is not approved by Telecom under the Co-location Operations Manual;
  - 2.6.3 Housing Access Seeker equipment that is used wholly or partly for a purpose other than providing:
    - (a) access to, and interconnection with Telecom's unbundled copper local loop network ("the UCLL Service"); or
    - (b) backhaul for the UCLL Service;
  - 2.6.4 the UCLL Service;
  - 2.6.5 unconditional rights of access to exchanges;

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<sup>3</sup> Note this is not intended to be an exhaustive list of exclusions or to limit what is excluded from the Co-location Service. It needs to be read in the full context of this service description.

- 2.6.6 the unbundled copper local loop network backhaul service which is an optional additional service.

### 3 Co-location Configuration

- 3.1 A summary of Co-location configuration is set out below. It is subject to the full details of Co-location configuration appearing in the Co-location Operations Manual.

#### Definitions

- 3.2 The Co-location configurations available for delivery of the Co-location Service within the Co-location Service Area at Telecom's exchanges can be defined as follows:
- 3.2.1 co-mingled Footprints: Footprints are inter-mixed directly with each other within a shared row (the Access Seeker's Footprints may also be inter-mixed with Telecom racks or cabinets). Rows would not necessarily be sequentially filled and gaps may be left between Access Seeker Footprints or Telecom racks or cabinets for growth. However, if space restrictions prevent this approach then rows may be filled sequentially;
- 3.2.2 co-mingled rows: the Access Seeker is allocated an entire row of Footprints.
- 3.3 The default configuration for all exchanges will be co-mingled Footprints filled sequentially. However, where Telecom assesses the space restrictions at an exchange as moderate or low, it may offer co-mingled rows.

#### Approach to build

- 3.4 Telecom's Build of the Co-location Service Area is likely to be designed in an economically efficient way that provides a sensible solution. This may involve construction of more space than immediately required if that is sensible for medium term space or cost efficiency.

#### Additional rules for tier 0, 1 and 2 exchanges

- 3.5 Telecom has an increased security requirement at tier 0, 1 and 2 exchanges. These exchanges provide centralised Core Network functionality extending to a number of equipment areas within the exchanges. The security of tier 0, 1 and 2 exchanges is key to the robustness of Telecom's Network and its associated service platforms. There are some limitations on the use of space in these exchanges to ensure appropriate levels of security and environmental control can be maintained. In these exchanges it will not be desirable to provide co-mingling in existing equipment rooms housing sensitive Core Network equipment. Details of the approach to co-location in tier 0, 1 and 2 exchanges are set out in the Co-location Operations Manual.

#### Telecom Core Network and Wholesale

- 3.6 Telecom will have priority on the use or reservation of floor space for equipment, power and environmental support services for equipment used to provide Core Network.

### 4 Service Boundaries

- 4.1 The Co-location Service is primarily confined to the Access Seeker's Footprint. It also includes access to and the use of, space in, on or around Telecom's exchange for the purpose of installing and maintaining the Access Seeker's equipment within its Footprint(s).

## **5 HDP block**

- 5.1 An Access Seeker HDP block will be installed by Telecom at each Telecom exchange MDF where the Access Seeker intends to offer services based on the UCLL Service. A HDP block provides connection to the Access Seeker equipment via tie cables.

## **6 Availability**

- 6.1 Telecom's ability to provide the Co-location Service is practically limited in the case of each Telecom exchange by the physical space available at, within or around that exchange.

## **7 Components of the Co-location service and Associated Charges**

- 7.1 For detailed information on the components of the Co-location Service and associated charges see the Co-location Operations Manual and Co-location Price List.

## **8 Service levels**

- 8.1 Applicable service levels are set out in the Co-location Service Level Agreement.

**Appendix A – Diagram**

(i) Co-location Service

