

**Tusass A/S
(Referred to as Tusass)
Wholesale Data Services**

**Annex D5
Local IP Service**

Technical Description

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Abbreviations

Abbreviation	Description
CE	Customer Equipment
CPE	Customer Premises Equipment
DSL	Digital Subscriber Line
OM3	Optical Multimode 3
PoP	Point of Presence

1. Introduction

This Annex defines the technical description of the Local IP Service.

The Service Taker must provide the following at the premises where the Service is to be implemented:

- A compliant CPE, capable of supporting the VLAN virtual circuit termination.

The service description and processes to support the implementation of this Service are located in the service description (Annex C5 of this Agreement) and Operations & Maintenance Manual (Annex E5 of this Agreement)

All equipment and plant that is deployed as part of the implementation of this Service shall comply with relevant national and international standards.

All installation procedures used must comply with standard industry practices and national and international standards.

2. General definitions

The Tusass wholesale portfolio consists of the following services:

- Bit Stream Access Service;
- Co-location Service;
- Connect IP Service;
- Global IP Service;
- Local IP Service, and
- National IP Service.

A service description for each of the Tusass wholesale Services is included in Annex C to this Agreement. A technical description for each of these Services is included in Annex D to this Agreement.

The service description and technical description for each of the Tusass Services describes how each of the Services connects to allow the Service Taker to provide its end to end service to its customer.

3. Service Overview

The Local IP Service provides connectivity to a Service Taker's. Typically, a CPE will be connected to the Tusass access network, but at higher data rates it might be connected to the Tusass edge equipment.

4. Transports

The actual access circuit is dependent on the requested connection speed.

- For lower data rates (VDSL-LOW to VDSL-HIGH Mbps) the access circuit will be a DSL connection.
- For higher data rates (VDSL-HIGH to 1000 Mbps) the access circuit will be a Gigabit Ethernet connection over optical fiber

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- For data rates above 1000 Mbps the access circuit will be a 10Gigabit Ethernet connection over optical fibre.