APPENDIX J

proximus

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High level description of technical solutions and operational processes for passive access to terminating vertical cabling inside of MDUs in the Proximus P2MP PON footprint

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Passive access to terminating vertical cabling inside of MDUs in the Proximus P2MP PON footprint

The objective of this document is to set out a high-level description of the third-party operator passive access sharing solution to in-building vertical fiber connectivity infrastructure inside appartement buildings operated by Proximus, based on current reflection on this matter within Proximus.

The proposed third-party operator passive access solution is to cover the in-building fiber connectivity infrastructure typically starting in (a technical room) the basement of an appartement building; going up through the vertical connectivity fibers; until finally a passive plug upstairs in the customer's appartement living unit.

The below high-level description is based on the current preliminary state of internal reflections, which is subject to further evolution, including inter alia following unexpected limitations encountered, additional ideas or reflections pointing towards alternative workable and more satisfactory solutions or objective necessity requiring to develop another type of solution.

1. Building operator

Wherever Proximus operates and provides wholesale passive access to the in-building vertical fiber cable connectivity infrastructure inside MDU apartment buildings in the Proximus P2MP PON footprint, Proximus acts as the building operator, this means that all installation, operations, and maintenance activities on the in-building fiber connectivity infrastructure are performed by Proximus.

- Proximus will operate the (shared elements of the) installation. Proximus will do the necessary (adaptation) work to allow other third-party operators to use the drop from the basement (BDFO) to the living unit (ONTP)
  - Proximus has sole access to its BDFO and the patch panels therein. Only Proximus does the patching work in the BDFO when another operator requests access.
  - Proximus is in charge of the termination of all the living units, upon request, even the ones where there is no vertical cabling/ONTP yet
  - Proximus will manage the infrastructure and perform interventions, including maintenance and repair.
- Patching cables need to be labeled to avoid patching to the wrong living unit. Patching cables will be delivered by Proximus

2. Current high-level technical description

Wherever Proximus operates and provides wholesale passive access to the in-building vertical fiber cable connectivity infrastructure inside MDU apartment buildings in the Proximus P2MP PON footprint, Proximus will offer a passive fiber cable connectivity covering the trajectory: in MDU's where we have a commitment from the syndics and we already have built the vertical cabling or have planned to do it. If Proximus does not have an agreement of the syndic, then it is not possible for Proximus to offer the said access

- from a Building Distribution Frame (BDFO) which is generally located downstairs in the MDU (where available, in the MDU technical room);
- up to the Optical Network Termination Point (ONTP) of an individual connection.

2.1 Responsibility of the third-party operator

The third-party operator is responsible for obtaining the agreement of the co-property or syndic of the building allowing him to enter the building to introduce its own building distribution network introduction cables.and installing – without interference with or damaging to Proximus infrastructure – its own building distribution equipment and accessories, near the Proximus BDFO.

2.2 Building blocks of Proximus offer

The third-party operator passive access sharing consists of various building blocks

2.2.1 BDFO

The Building Distribution Frame Optical (BDFO), typically in the basement of the apartment building, which is a distribution frame based on connectors to which patch cords can be patched

- Either the BDFO was already previously present in the building, and readily available
- or a BDFO must be installed, to replace another previous solution (without connectors)

2.2.2 Cabling and patching

This offering only applies to internal optical fiber infrastructure. Any other combined solution with UTP cat 5e or more cable used as vertical cable is out of this scope.

Depending on the type of BDFO that is/will be installed:

- the Wholesale Customer's own patch panel is installed within the existing Proximus BDFO.
- or the Wholesale Customer installs a patch panel near the Proximus patch panel and installs cable gutters or other equivalent solution to safely route patch cords between both patch panels.

3. Current high-level operational process

3.1.1 Prepare the building

To prepare the building for internal cabling access, the following process phases are provided:

- request for passive access by the wholesale customer
- verification by Proximus of the address, preparation of technical assessment and design,
- proposal of possible solutions after site survey
- feedback to third party operator on cost and timing
- signature of agreement between Proximus & third-party operator
- where applicable, planification and implementation of adjustments with a view to installing a transition point in basement (BDFO) and feedback from Proximus to the third-party operator that the building is ready.

Third-party operator brings own building introduction cable in the building to connect it with Proximus building distribution frame infrastructure and informs Proximus. The third-party operator and Proximus will align the documentation and information to share to enable individual LU request (address, positions)

3.1.2 Make available individual in-building vertical fiber connectivity per request

- Order by the third-party operator of a connection of a Living Unit
- The third-party operator contacts the end-user in advance so that at the time of patching by Proximus, the verification or installation of the ONTP can also take place by Proximus.
- The third-party operator and Proximus use the same partner/subcontractor to perform the patching and the activation of the end-customer.
- Planning and execution on site of (re)patching and testing
- Closing the job and feedback that work has been performed