



Proximus access to the Raw Copper Loop

Existing single pair & Small Network Adaptations

Annex B 1.1 Service Description 2010

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1. Scope

1. This Service Description deals with the definition of services, equipment and application requirements as well as properties of the Proximus Offer for renting Raw Copper Loops and related Small Network Adaptations.

2. Definition

2.1 Product definition of the Raw Copper Circuit

2. A Raw Copper Loop or a Raw Copper Circuit is a pair of fully metallic continuous unequipped copper wires on the section between the Proximus Main Distribution Frame at the Proximus Local Exchange or Local Distribution Center and the Network Termination Point at the End-User site. The Raw Copper Loop or Raw Copper Circuit can be delivered on a Non-Active Loop or an Active Loop (Raw Copper + Splitter).
3. Beneficiary has the right to gain access to an end-to-end Raw Copper Loop at Proximus Local Exchange buildings and Local Distribution Centers, on the condition that the requested copper pair is unequipped. A pair is equipped when load coils or Active Equipment (coupling, repeaters, correctors, etc.) are present in the relevant circuit/s. Proximus will make an equipped pair unequipped when possible. In case the equipped pair cannot be made unequipped, this will be proved to the Beneficiary. For the sake of clarity, pairs cannot be made unequipped in case this equipment is dedicated to multiple users or in case this removal does impact in any possible way other services or users. Beneficiary will have access to the Raw Copper Loop at the Main Distribution Frame level on which the Raw Copper Loop is terminated. It is further required that, in the scope of this Service Description, the Raw Copper Loop is existing and can be used without the need of severe network modification works. The Small Network Adaptations performed by Proximus are described in Sections 2.2 and 2.3.
4. The access to the Raw Copper Circuit at the Proximus network side will be realized on the Proximus Main Distribution Frame (MDF) by using dedicated Blocks per Beneficiary. The access to the Raw Copper circuit at the End-User site will be at the Proximus Network Termination Point (NTP).
5. The Demarcation Point in case of Proximus delivered Tie Cabling will be:
 - in case of Physical or Virtual Colocation: the point on the Tie Cable just before it is connected to the collocated equipment of the Beneficiary;
 - in case of Distant Colocation: the Connectors in a Cross Connection Cabinet in the immediate vicinity of the Proximus Local building.
6. The demarcation point in case of Beneficiary delivered Tie cabling shall be the Beneficiary dedicated Blocks on the MDF in case of Raw Copper. In case of Tie cabling delivered by the Beneficiary, the Beneficiary has access to the area where the demarcation point is situated (MDF area in case of Raw Copper) at the Proximus Local Exchange or Local Distribution Center for maintenance and test purposes. Beneficiary shall have to justify the necessity of the maintenance and/or tests planned.

Beneficiary shall have to substantially indicate the purpose of this access (to be mentioned with the application for guided access). The access shall always be with a security escort, at the expense of the Beneficiary and pursuant to the conditions for guided access as described in the framework of co-mingling (Physical Colocation with escort access).

7. It is further required that in the scope of this Service Description, the Raw Copper Circuit is existing and can be provided without new construction of physical copper wires in the network. The construction of new Raw Copper Circuits is outside the scope of this Service Description.
8. Establishment of a Network Termination Point (where relevant) and cross connections in the Local Access Network between the Distribution Cable and the Feeder Cable (where relevant) are part of the provisioning and installation of the Raw Copper Circuit under this Service Description.

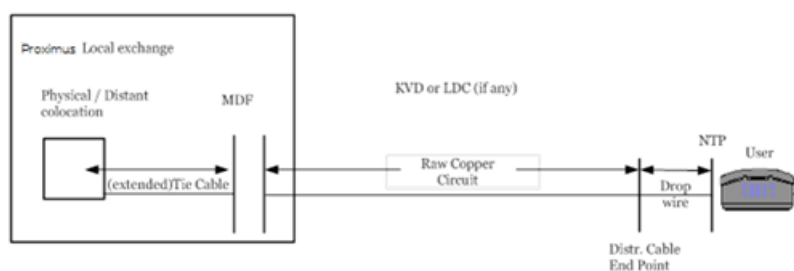


Fig. 1

2.2 Product definition of the Small Network Adaptations

9. The Introduction Cable (also referred to as drop wire) is defined as the part of a Raw Copper Loop that connects the Distribution Cable to the End-User's Network Termination Point (NTP).
10. In some cases, the pair of fully metallic continuous unequipped copper wires exists from the Proximus Main Distribution Frame at the Proximus Local Exchange or Local Distribution Center up to the Distribution Cable in the street nearby the End-User's premises.
11. The present Service Description establishes the terms and conditions under which Proximus will perform Small Network Adaptations by means of installing a new drop wire or intervening on an existing drop wire and/or distribution pair (see fig. 1 above).

2.3 Small Network Adaptations

12. For the description of the detailed context when Small Network Adaptations and Splicing Interventions are performed during provisioning and / or repair activities, reference is made to the Annex "Planning and Operations Manual" of the present Reference Offer, Section "Small Network Adaptations" and Section "SNA and Splicing Interventions (detected during repair)".

2.4 Network Termination Point

13. If no Network Termination Point (NTP) is present and connected on the Raw Copper Loop, tasks such as installation of a Network Termination Point and/or jumpering in the introduction box will be performed by either a Proximus Technician, a Partner Technician (under Proximus responsibility) or a Certified Technician (under Beneficiary responsibility) depending on the allowed technician type selected by the Beneficiary through the Multi Service Ordering (MSO) interface. This type of intervention is required when Proximus returns through the MSO interface the "With Customer Visit" installation method (also called Telecom installation) as the minimum installation method required and/or when the Beneficiary – after having questioned the End-User – indicates in its order that an NTP (in operable condition) is missing.
14. If during a repair action performed by Proximus on a newly installed Raw Copper Loop installed without End-User visit by Proximus, it is found that the incident covered by the repair case was due to the absence of a connected NTP, Proximus will be entitled to invoice its repair intervention following the fee defined in the Annex "Pricing and Compensations" of the present Reference Offer.
15. If during a repair action performed by Proximus on a newly installed Raw Copper Loop installed by a Certified Technician, it is found that the incident covered by the repair case was due to the incorrect installation performed by the Certified Technician (whether or not at NTP level), Proximus will be entitled to invoice its repair intervention following the fee defined in the Annex "Pricing and Compensations" of the present Reference Offer.
16. In case of Small Network Adaptations, the installation of a Network Termination Point will often be required.
17. New internal cabling must always, except where specified otherwise, be provided by Proximus or under its responsibility if existing internal cabling is insufficient in capacity of free pairs or of poor quality. This is valid for both the present Reference Offer and the Bitstream Reference Offer.
18. The attention is drawn to the fact that Proximus reserves the right to propose to BIPT (which will decide on their implementation), on a non-discriminatory basis, various scenarios to provide an adequate answer to the situation in which a cable (sometimes referred to as internal cabling) is placed between the Network Termination Point and the Introduction Cable. Such an answer is to be developed on a case-by-case basis and would need to take into account, in particular and where relevant, the presence of an introduction box, the way of introducing the Raw Copper Loop in the building of the End-User, the specific status of the cabling, the nature of the building and/or the work to be accomplished to offer the Service.

2.5 Types of Loops offered by Proximus

19. The following types of Raw Copper Loops are offered under the present Reference Offer for ULL (for technical details concerning the nature of the signals to be used on each type of Raw Copper Loops, reference is made to the relevant Technical Specifications in Annex C):
- **Raw Copper Loops of Type 1:** Basic Raw Copper Loop only to be used for the transmission of signals (including and starting from direct current) within the voice frequency band, being PSTN or Raw Copper Loop only to be used for the transmission of signals for which the binary rate is smaller or equal to 64 kbit/s or for the transmission of signals using ISDN-BA line coding.
 - **Raw Copper Loops of Type 2:** Raw Copper Loop to be used according to the rules of the technical specifications document (Annex C). The Beneficiary can also use the Raw Copper Loop like Type 1, obviously.
 - **Raw Copper Loops of Type 3:** Raw Copper Loop to be used for S(H)DSL services which are compatible with remote (Re)ADSL(2+) from ROPs. The technical specifications are documented in Annex C. The Beneficiary can also use the Raw Copper Loop like Type 1.
20. When ordering, Beneficiary indicates the type of loop, Raw Copper of Type 1 or Raw Copper of Type 2, as described above. On local loops which pass via a street cabinet where “ADSL from ROP” is activated, orders of Raw Copper of Type 2 will be considered as Raw Copper of Type 3. Proximus will handle requests for Type 1 as PSTN, Type 2 loops will by default be treated as (Re)ADSL(2+) over PSTN and Type 3 loops as S(H)DSL with respect to matters of repair and the quality of service related to the repair requests. Proximus will not bear any liability relating to the absence of qualification of the loop when the loop qualification (e.g. Type 1 PSTN, Type 1 ISDN, Type 2 (Re)ADSL(2+), Type 2 S(H)DSL, Type 3 S(H)DSL) was not included with the repair request. If this qualification is different from the default documented qualification as above, Beneficiary is invited to specify the service residing on the loop if this is necessary to facilitate the repair process.
21. The use of a totally Unbundled Loop is free, provided that the Beneficiary complies with the “Spectrum Management” rules. The “Spectrum Management” rules regarding Unbundled Loops are described in Annex C of the present Reference Offer. Rules for “Spectrum Management” can be proposed by the Task Group Spectrum Management or BIPT and can be added to the Annex C of the present Reference Offer.
22. Depending on the type of equipment that is directly connected to the Unbundled Local Loop, different rules for the bringing into service and for the service level can be applicable.

3. Connectivity to the Beneficiary Network

23. At the Proximus Local Exchange building or Local Distribution Center, the copper wires are terminated on the Main Distribution Frame. Beneficiary’s access to the copper wire pairs will be established by connecting Tie Cables from the Main Distribution Frame to the colocation area in case of Physical Colocation and by connecting Extended Tie Cables from the Main Distribution Frame to the Cross Connection Cabinet in case of Distant Colocation.

24. The installation and maintenance of the (Extended) Tie Cable and the provisioning and maintenance of the Blocks will be made by Proximus, as presented in Service Descriptions 2030 and 2035.

4. Colocation

25. For the provision of Colocation Services reference is made to the Colocation Agreement. A subscription to this agreement is a prerequisite to install equipment in a Proximus building. For the sake of clarity, Colocation Services can only be used to benefit from specific Proximus Services requiring colocation.

5. Spectrum Management and equipment aspects

26. The Annex C ("Technical Specifications") to the contract contains requirements related to Spectrum Management and equipment connected to the Raw Copper pair.

6. Boundary conditions and prerequisites

27. The Beneficiary is only allowed to use the indicated type of Raw Copper Loop for the purpose described in Section 2.5. In any case of changes by the Beneficiary of the equipment/technology used, the Beneficiary will inform Proximus of this fact in order to avoid service degradation in the Proximus Network for other users.
28. At all times, the coexistence needs to be ensured between the services provided by the Beneficiary through the use of the Raw Copper Loops and the services provided by Proximus or another Beneficiary on the Proximus Network. In particular, Proximus will be entitled to take a number of measures to protect its network integrity taking into account the need to ensure the coexistence of the different services mentioned above. In this case Proximus will take measures either after prior approval by BIPT or immediately in urgent cases. In the latter case, BIPT will be informed at the latest the next working day on the measures taken. Proximus will inform (and justify to) the Beneficiary as soon as possible on the measures taken. In all cases, Proximus will follow the rules regarding spectrum management.
29. All equipment used by the Beneficiary will at least comply with the R&TTE Directive or any Directive replacing the latter.
30. It is to be noted that Proximus will not undertake customer care handling of End-Users of the Beneficiary. If Proximus receives requests from End-Users of the Beneficiary due to the inadequate handling of such requests by the Beneficiary, Proximus will not deal with them.
31. If equipment or network components that are operated by Beneficiary for its own use and are connected to the Proximus public telecommunications network cause disturbances in the Proximus Network, Beneficiary shall be required to disconnect the End-User connection without any delay.

7. **Ordering and Provisioning of the Raw Copper Service**

32. Proximus shall deliver access to the Raw Copper Loops at the MDF according to Beneficiary's orders submitted to Proximus. The terms and conditions for ordering and provisioning of Raw Copper Loops are defined in "Annex E: Planning and Operations Manual".

8. **Repair of the Raw Copper Service**

33. The repair by Proximus of the Raw Copper Loops between the Main Distribution Frame at the Proximus Local Exchange building or Local Distribution Center and the End-User's NTP is included in the rental fee of the Raw Copper Loop. The procedures for Incident Management and Repair are described in "Annex E: Planning and Operations Manual".
34. In case of a Wrongful Repair Request, Proximus will bill the Beneficiary according to the terms and conditions defined in "Annex E: Planning and Operations Manual" and "Annex H: Pricing and Compensations".

9. **Pricing and Billing of the Raw Copper Service**

35. The pricing of Raw Copper Loops covered by the present Reference Offer can be found in Annex H. Information concerning Billing and Accounting for Raw Copper Loops is included in Annex D.