



Proximus Reference Offer for Bitstream Access

Covering the technologies ADSL, Reach Extended
ADSL2, ADSL2+, SDSL and VDSL2

Annex 3: Planning & Operations

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Our reference: MSO & Servicing version

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1 Introduction

1. This Annex describes the Planning and Operations principles related to the provisioning and repair of the Bitstream Service configured with (Re)ADSL(2+), SDSL or VDSL2 technology. In the remainder of this document, "xDSL" shall be read as "(Re)ADSL(2+), SDSL or VDSL2" unless specified otherwise.
2. Both Parties will use at any time their best efforts to ensure an adequate level of service provisioning both between the Parties and towards the End-Users concerned.
3. In the event that difficulties or problems arise in respect of Planning and Operations, the Parties will perform all necessary co-operation and consultation with a view to developing appropriate and workable solutions.
4. All relevant technical documentation, User Guides (e.g. for Multi Service Ordering interface) and order forms (e.g. for CPE or OAL) if any can be retrieved from the secured part of the Proximus wholesale website for this offer.

2 Terminology

- 5 Certified Technician : technician (employee or subcontractor) who, under the responsibility of the Beneficiary, executes the required tasks to technically activate the End-User line requested by the Beneficiary on the Proximus network. The use of a Certified Technician enables the Beneficiary to execute during the same intervention both the technical activation of the End-User line and the activation of services at End-User's premises. The exact scope of activities which may be performed by Certified Technicians is described in the Specific Terms and Conditions relating to Certified Technician, available on the secured part of the Proximus wholesale website.
- 6 Partner Technician : subcontractor of Proximus who, under the responsibility of Proximus, executes the required tasks to technically activate the End-User line requested by the Beneficiary on the Proximus network. This type of technician implies, on the other hand, the signature of a contract between the Beneficiary and one of the subcontractors of Proximus so that the chosen subcontractor executes during the same intervention both the technical activation of the End-User line and the activation of services at End-User's premises. Such contract will notably cover the terms and conditions agreed between the subcontractor and the Beneficiary regarding the planning and booking of the resource capacity and appointment. The list of the possible subcontractors is documented in the "MSO User Guide" and can be requested by the Beneficiary to its Proximus SPOC in case of interest.
- 7 Proximus Technician : technician or splicer (employee or subcontractor) who, under the responsibility of Proximus, executes the required tasks to technically activate the End-User line requested by the Beneficiary on the Proximus network.
- 8 "Small Network Adaptations (SNA)" refer to works executed by splicers during the connection of a new End-User line (valid in repair and provisioning process (installation method "with customer visit splicing included")), while "Splicing Interventions" refer to works executed by splicers during the repair of an existing and active End-User line.
- 9 Useless End-User visit (provisioning and repair) occurs when the Proximus or Partner Technician is not able to perform his intervention further to Beneficiary's request. A useless End-User visit can happen for the following reasons:
 - End-User absent,
 - End-User absent after call,
 - End-User objects to installation or repair,
 - Cancel requested by End-User,
 - End-User not ready for installation or repair, site not ready,
 - Contact number of End-User incorrect, End-User cannot be contacted after absence,
 - SNA with additional work required on private domain (while order submitted with "Cost estimate not allowed" indication),
 - Wrong installation address.
- 10 Multiple useless End-User visit (provisioning and repair) occurs when for a third time the Proximus or Partner Technician is not able to perform his intervention further to Beneficiary's request. A useless End-User visit can happen for the following reasons:

- End-User absent,
- End-User absent after call,
- End-User objects to installation or repair,
- Cancel requested by End-User,
- End-User not ready for installation or repair, site not ready,
- Contact number of End-User incorrect, End-User cannot be contacted after absence,
- SNA with additional work required on private domain (while order submitted with "Cost estimate not allowed" indication),
- Wrong installation address.

3 Acronyms

| | |
|-----------|---|
| ADSL | Asymmetric Digital Subscriber Line |
| Re-ADSL2 | Reach Extended ADSL2 (also mentioned as "READSL2" in this document) |
| SDSL | Symmetric Digital Subscriber Line |
| VDSL2 | Very High Speed Digital Subscriber Line 2 |
| Bitstream | Unless specified otherwise, the word Bitstream equally refers to the two following types of service: with Shared or with Dedicated VLAN delivered with xDSL technology. |
| OLO | Other Licensed Operator |
| CHC | Customer Help Center |
| CSD | Customer Support Desk |
| CWS | Carrier and Wholesale Solutions |
| DARE | Diagnosis Analysis and Recovery Engine |
| FUT | Friendly User Testing |
| LDC | Local Distribution Center |
| LEX | Local Exchange |
| MDF | Main Distribution Frame |
| KVD | Street Cabinet (Kabel Verdeler in Dutch) |
| NTP | Network Termination Point |
| ROP | Remote Optical Platform |
| RFD | Request For Design |
| PSTN | Public Switched Telephone Network |
| ISDN | Integrated Service Digital Network |
| P-Bit | Priority Bit |
| QTM | Quality Team Meeting |
| SNA | Small Network Adaptations |
| RGIE/AREI | Règlement Général sur les Installations Electriques / Algemeen Reglement op de Elektrische Installaties |
| KLIM | Kabel- en Leidingen Informatie Meldpunt |
| KLIP | Kabel- en Leidingen Informatie Portaal |
| OSIRIS | Platform of Brussels Mobility that is dedicated to road worksite coordination in the Brussels-Capital Region |
| POWALCO | Plateforme Wallonne de Coordination de Chantier |
| GUI | Graphical User Interface |
| SOA | Service Oriented Architecture |
| SOR | Statement Of Requirements |
| SPOC | Single Point Of Contact |
| TBF | Test de bonne fin |
| TSI | Technical Situation |
| VLAN | Virtual Local Area Network. Unless specified otherwise, the word "VLAN" equally refers to a Shared VLAN or to a Dedicated VLAN. |
| MSO | Multi Service Ordering |
| TOC | Technical Order Confirmation |
| TEX | Technically Executed |
| OC | Order Closed |
| XSD | XML Schema Definition |

4 Exchange of information

11. This chapter includes some communication guidelines in order to ensure a good interchange of information and to define an effective communication channel that focuses on both improving the comprehension and execution of the processes.

4.1 Points of contact

12. A Key Account Manager acting as Single Point of Contact (SPOC) to Proximus for the Beneficiary will be in charge of all matters regarding the day-to-day management of the present offer.
13. An escalation matrix, documented on the secured part of the Proximus wholesale website, may be used by the Beneficiary in case of unresolved issue requiring the escalation to a higher level than the day-to-day Proximus representatives.

4.2 Preliminary Exchange of Information for the initial setting up

14. Without prejudice to what is stated above, it is recommended that the Beneficiary provides a Statement Of Requirements (SOR) to Proximus as early as possible in any discussions between the Beneficiary and Proximus. The SOR is sent by registered mail to the SPOC of Proximus. After the receipt of the SOR, Proximus shall notify to the Beneficiary its observations, if any, concerning the SOR. In particular, when appropriate, Proximus may request additional information to complete the information contained in the SOR. For more information on the SOR, reference is made to [Appendix A](#) of this document.

4.3 Quality Team Meeting

15. The "Quality Team Meeting" or "QTM" is a meeting between both Parties to supervise, discuss and examine at a general level the technical and operational application of this offer, in particular, the implementation of the respective obligations of the Parties, as described in this offer.
16. The QTM targets to be organised on a quaterly basis at Benefeciary's request and best convenience. Each Party is entitled to call additional meetings within reasonable notice if judged reasonably useful. Each Party will be represented at the QTM by its SPOC accompanied by any staff as deemed necessary by the relevant Party.
17. In addition to the QTM, the Parties will be allowed to request for the set-up of any other bilateral working group in charge of discussing and agreeing on any technical or operational issues, including more specialized members on the specific topic.

5 Ordering of an OLO Access Line

5.1 General

18. Before the Beneficiary can submit an order for the activation of Bitstream on a specific End-User line, an Ethernet OLO Access Line needs to be in service in the relevant Service Area.
19. The ordering of an OLO Access Line, between a Proximus Service PoP and the Beneficiary's equipment, shall be done through the use of the specific templates provided in Appendix D of this document.
20. Irrespective of the terms and conditions stated below, Proximus reserves the right to refuse orders if the volumes requested by the Beneficiary are not in line with reasonable market demands. In the event of such a refusal, Proximus will provide the Beneficiary with the reasons for the refusal and the Parties will need to enter into a good faith discussion for finding a solution to deal with the difficulty that has arisen.

5.2 Ordering procedure

21. The Beneficiary can order its OLO Access Line through a firm order. A firm order consists of the requested OLO Access Line, per type of service (Appendix D). Together with the firm order, the Beneficiary includes the date when he wants the OLO Access Line to be in service and the reference of the pre-study (RFD). In case data is missing or is not correct, the template will be rejected. In the latter case, Proximus will indicate the reasons of the rejection on the template. All firm orders will be submitted by e-mail to the assigned pre-sales manager of Proximus.
22. When public infrastructure works have to be realized, several actions and several actors can extend the time needed for the provisioning of OLO Access Lines. Examples of interventions can be:
 - Studies such as relevant street surveys
 - Creation of the implementation plan
 - Request to Public Authorities for authorization to realize works on the Public Infrastructure (the targeted lead time (+/- 2 months) will be mentioned in the Request For Design)
 - Realization of the works
23. In the event that difficulties or problems arise in this respect, the Parties will use all necessary co-operation and consultation with a view to developing appropriate and workable solutions subject to agreement between the Parties.
24. In very exceptional situations, significant delays may be experienced :
 - In case of periods of large demands that could not be foreseen,

- In an emergency situation (i.e., exceptional cases of *force majeure*).

25. When the installation of the OLO Access Line is complete, Proximus will confirm it to the Beneficiary through e-mail.

6 Ordering of Shared VLAN Transport

6.1 Activation of Shared VLAN Transport ('Provide')

6.1.1 General

26. The Beneficiary will order bandwidth between each LEX in which the Beneficiary wants to connect End-Users and the Proximus Service PoP to which the Beneficiary is connected. Proximus does the set-up and the configuration of the Shared VLAN, between the LEXs from which the End-Users depend and the Beneficiary's equipment, on behalf of the Beneficiary.
27. Irrespective of the terms and conditions stated below, Proximus reserves the right to refuse orders if the volumes requested by the Beneficiary are not in line with reasonable market demands, i.e. in case of massive and unexpected orders of a Beneficiary that would paralyze the Proximus ordering system. In the event of such a refusal, Proximus will provide the Beneficiary with the reason for the refusal and the Parties will need to enter into a good faith discussion for finding a solution to deal with the difficulty that has arisen.

6.1.2 Prerequisites

28. An OLO Access Line with sufficient available capacity has to be implemented between a Proximus Service PoP and the Beneficiary's equipment.

6.1.3 Ordering procedure

29. The Beneficiary can order a Shared VLAN through a firm order initiated via MSO. A firm order consists of the requested Shared VLAN with its associated parameters (bandwidth, service, OAL, ...). Orders will be considered as valid only when they are properly completed. In case data is missing or incorrect, the order will be submitted to the Beneficiary for correction or will be discarded. In the latter case, Proximus will indicate the discard reason in the Discard message. For detailed information on the ordering process, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.
30. In very exceptional situations, significant delays may be experienced:
 - In case of periods of large demands that could not be foreseen,
 - In an emergency situation (i.e., exceptional cases of *force majeure*).
31. When a Shared VLAN is activated by Proximus, the Beneficiary will be provided with all the necessary information in order to configure the related VLAN at his side of the network.

6.2 Change of Shared VLAN Transport ('Change')

6.2.1 General

32. The Beneficiary can request, within the limits of the Shared VLAN specifications mentioned in this offer (allowed Shared VLAN Bandwidth in function of the service),
- an upgrade of the Bandwidth of each Shared VLAN he ordered between a specific LEX and the Service PoP to which he is connected;
 - a downgrade of the Bandwidth of each Shared VLAN he ordered between a specific LEX and the Service PoP to which he is connected.
33. Proximus reserves the right to refuse orders if the volumes requested by the Beneficiary are not in line with reasonable market demands, i.e. in case of massive and unexpected orders of a Beneficiary that would paralyze the Proximus ordering system. In the event of such refusal, Proximus will provide the Beneficiary with the reason for the refusal and the Parties will enter into a good faith discussion for finding a solution to deal with the difficulty that has arisen.

6.2.2 Prerequisites

34. The order is related to an existing Shared VLAN and must contain its correct identification. For detailed information on the information to provide, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.

6.2.3 Ordering procedure

35. The Beneficiary can ask to modify the existing parameters of a Shared VLAN through a firm order initiated via MSO. Orders will be considered as valid only when they are properly completed. In case data is missing or incorrect, the order will be submitted to the Beneficiary for correction or will be discarded. In the latter case, Proximus will indicate the discard reason in the Discard message. For detailed information on the ordering process, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.
36. In very exceptional situations, significant delays may be experienced:
- In case of periods of large demands that could not be foreseen,
 - In an emergency situation (i.e. exceptional cases of *force majeure*).
37. When a Shared VLAN is modified by Proximus, the Beneficiary will be provided with all the necessary information in order to configure the related Shared VLAN at his side of the network.

6.3 Deactivation of Shared VLAN Transport ('Cease')

6.3.1 General

- 38. The Beneficiary can request the deactivation of an existing Shared VLAN.

6.3.2 Prerequisites

- 39. The order is related to an existing Shared VLAN and must contain its correct identification.
- 40. A Beneficiary may only deactivate a Shared VLAN in a specific LEX once the service quality of this Shared VLAN is not offered anymore on any End-User of this Beneficiary in this LEX.

6.3.3 Ordering procedure

- 41. The Beneficiary can ask the deactivation of a Shared VLAN through a firm order initiated via MSO. Orders will be considered as valid only when they are properly completed. In case data is missing or incorrect, the order will be submitted to the Beneficiary for correction or will be discarded. In the latter case, Proximus will indicate the discard reason. For detailed information on the ordering process, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.

6.4 Amend Due Date and Cancel

- 42. The Cancel and Standard Amend Due Date actions are possible on the orders for Shared VLAN transport. For detailed information on the ordering process, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.

7 Ordering of Dedicated VLAN profiles

7.1 General

43. There is no pre-provisioning of the Dedicated VLAN. The creation of each Dedicated VLAN is included in the process of provisioning a Bitstream xDSL End-User line with Dedicated VLAN.
44. Proximus configures each Dedicated VLAN at the moment of the implementation of the corresponding End-User line. The Beneficiary is responsible for choosing and defining the Dedicated VLAN profile and for providing the chosen specifications for each ordered product with Dedicated VLAN.
45. For any demand of new Dedicated VLAN profile(s), the Beneficiary must specify to Proximus the number of profiles needed (in line with the rules on the number of profiles defined in the Bitstream Technical Specifications) and their attributes:
 - Layer 2 (P-bit) or Layer 3 QoS (IP-precedence),
 - P-bit
 - Maximum Upstream bandwidth per P-bit/IP-precedence,
 - Maximum Downstream bandwidth per P-bit/IP-precedence.
46. Proximus will provide the Beneficiary with the monthly recurrent fees corresponding to the requested Dedicated VLAN profiles, in function of the applicable tariffs for the Ethernet transport with Dedicated VLAN.
47. Conditional to the availability of sufficient resources for IT and Network implementation, the creation of additional profiles in the Proximus systems is expected to be executed within a guaranteed timeframe as defined below.
 - For own profiles requested by :
 - a Beneficiary having concluded a Bitstream xDSL contract more than 6 months ago : 1 month after reception of the firm request by Proximus;
 - a new Beneficiary : 6 months after the conclusion of a Bitstream xDSL contract and reception of the firm request by Proximus, in the subsequent Proximus IT release at the earliest, or in any subsequent release.
 - For common profiles : 6 months after approval of the new profiles by the Beneficiaries in the subsequent Proximus IT release at the earliest, or in any subsequent release.

7.2 Modification of a Dedicated VLAN profile

48. The Beneficiary can request a change of the Dedicated VLAN profile of a specific Bitstream xDSL line with Dedicated VLAN.

49. A Dedicated VLAN profile modification shall be done through a firm order initiated via MSO. Orders will be considered as valid only when they are properly completed. In case data is missing or incorrect, the order will be submitted to the Beneficiary for correction or will be discarded. In the latter case, Proximus will indicate the discard reason. For detailed information on the ordering process, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.
50. Proximus reserves the right to refuse orders if the volumes requested by the Beneficiary are not in line with reasonable market demands. In the event of such a refusal, Proximus will provide the Beneficiary with the reason for the refusal and the Parties will enter into a good faith discussion for finding a solution to deal with the difficulty that has arisen.
51. Prerequisite: the order is related to an existing Bitstream xDSL line with Dedicated VLAN and must contain its correct identification. For detailed information on the information to provide, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.
52. In very exceptional situations, significant delays may be experienced:
- In case of periods of large demands at once that could not be foreseen,
 - In an emergency situation (i.e. exceptional cases of *force majeure*).
53. When a Dedicated VLAN profile is modified by Proximus, the Beneficiary will be provided with all the necessary information in order to configure the related Dedicated VLAN at his side of the network.

8 Ordering of an End-User Line

8.1 Introduction & Generalities

54. A commercial contract is signed between an End-User and the Beneficiary.
55. Pursuant to the General Terms and Conditions of the present offer, the Beneficiary is entitled to start the order entry via the MSO SOA ordering interface or via the MSO GUI ordering interface as described in the Annex "Business & Operational Support Systems for BRUO and Bitstream" of the BRUO reference offer.
56. Prior to be allowed to use the MSO SOA interface, the Beneficiary has to be compliant with the security requirements defined in the "Security Addendum". This document is available on the secured part of the Proximus wholesale website.
57. To make use of the MSO GUI interface, each employee of the Beneficiary allowed to interact with Proximus Wholesale first needs to register online as described on the Proximus wholesale website.
58. When the initial order is encoded in the MSO GUI, the Beneficiary has to indicate the email address(es) to be used for sending notifications regarding this order throughout its whole lifecycle up to its final status.
59. The order entry process of a specific End-User line covers the activities of both the Beneficiary and Proximus, between the submission of an order to Proximus by the Beneficiary until the confirmation (Technical Order Confirmation message) or the discard of this order to the Beneficiary by Proximus.
60. The order entry process can be split up in 4 main building blocks:
 - Pre-checks including the location, active installation and network feasibility checks, which allow the Beneficiary to get a clear view on the address, installation and Proximus network configuration prior to submitting an End-User line order to Proximus.
 - Order entry including the product options and specifications requested by the Beneficiary.
 - Technical Situation Allocation including the minimum installation method required to proceed further with the request of the Beneficiary.
 - Appointment (date + timeslot) booking.
61. For detailed information on the order entry process, reference is made to the "MSO User Guide" document stored on the secured part of the Proximus wholesale website.

8.2 Pre-Checks

62. During the pre-checks phase, the Beneficiary will be able to perform the following checks:

- **Location Check**: determination and validation of the installation address. It is mandatory for Provide, Change Operator and Move orders.
- **Active Installation Check**: providing information whether an active service is present or not towards the Beneficiary for the given address, to help select the correct detailed address. This step will allow confirming or changing the detailed address.
- **Change of the detailed address**: adding, changing or removing address details (i.e. box, floor, apartment or block number) linked to the address.
- **Network Feasibility Check**: providing network and product information towards the Beneficiary for the given address, including availability status and technical information needed by the Beneficiary to select the technology and to have an overview of the potential paths for delivering the service to the End-User.

63. All pre-checks results depend on the user profiles (i.e. right to get some network / technology / product information).

64. After finalization of the mandatory step (if any) in the pre-check phase, the Beneficiary has the possibility to go for ordering.

65. For further details on the pre-checks phase, reference is made to the “MSO User Guide” documented on the secured part of the Proximus wholesale website.

8.3 Order Action Types

66. An order action on a Bitstream End-User-Line or an action on the order itself can be:

- a) **Created by the Beneficiary**
 - i. Provide: request for activation of a new product or service including the pre-checks.
 - ii. Cease: request for de-activation of an existing product or service.
 - iii. Change Operator: request for activation of a new product or service, which requires a cease of the End-User’s active service/installation with another Beneficiary (Proximus included).
 - iv. Change: request for a modification of an active service within the same root product.
 - v. Migrate : request for modification of an active product or service to a new root product.

- vi. Move: request for move of an active without voice product or service to a new installation address. Within the move a change/migrate of the product or service is allowed.
 - vii. Amend Due Date: request to update the appointment date and timeslot of a pending order in the provisioning phase. The Amend Due Date is not allowed before the Technical Order Confirmation (TOC) and after the Technically Executed (TEX) messages.
 - 1. 4 types of Amend Due Date can be used by the Beneficiary:
 - a. Standard Amend Due Date
 - b. Rush Amend Due Date: see conditions at the end of this section.
 - c. Escalation Amend Due Date: see conditions at the end of this section.
 - d. Plan Not Received Amend Due Date: accepted only if the planned installation method "with customer visit splicing included" can be rescheduled sooner when plans have been received by Proximus after the prior "Street plans not received" message.
 - 2. 4 types of Amend Due Date weight are possible:
 - a. Light : applicable for the Standard Amend Due Date when the request is performed at least before 12 p.m. of the working day preceding the Appointment Date.
 - b. Heavy : applicable for the Standard Amend Due Date when the request is performed after 12 p.m. of the working day preceding the Appointment Date.
 - c. Free: applicable for the Plan Not Received Amend Due Date and Escalation or Standard Amend Due Date following an appointment missed by Proximus.
 - d. Rush: applicable for the Rush Amend Due Date as described in the conditions at the end of this section.
 - viii. Amend Technical Remark: request to update the remark text for the technician to facilitate the installation at End-User's premises of a pending order in the provisioning phase.
 - ix. Amend End-User Contact: request to update the End-User contact name and contact phone number on site (preferably a mobile number) of a pending order in the provisioning phase.
 - x. Amend Product: request to update the product options and/or profile of a pending order in the provisioning phase.
 - xi. Upgrade Installation Method: request to upgrade the minimum installation method before the Technical Order Confirmation. Such action is allowed on "provide-like" and "change" orders (when applicable).
 - xii. Cancel: request for cancellation of a started order during the order entry or the provisioning phase, which is allowed until the Technically Executed status. Two types of Cancel weight are possible: Light and Heavy.
- b) **Created by Proximus (due to an action of another Beneficiary or the End-User)**
- i. An auto-order is an order automatically created by Proximus and sent to the Beneficiary as a result of another order impacting the active product or service of this Beneficiary for the same End-User at the same installation address. The

following types of auto-order are possible: auto-move, auto-cease (Cease Change Operator) and auto-change.

For detailed information on the notion of root product, reference is made to the “Product Modelling User Guide” document stored on the secured part of the Proximus wholesale website. For further details on the order entry process, reference is made to the “MSO User Guide” also documented on the secured part of the Proximus wholesale website.

Rush Amend Due Date : conditions

67. “Rush Amend Due Date” is an amend due date type requesting the delivery of a new line in minimum 3 working days and maximum 5 working days (subject to the conditions of the points below).
68. “Rush Amend Due Date” is subject to all conditions of regular provisioning, including the presence of the required connectivity to the Proximus network before ordering.
69. “Rush Amend Due Date” is only possible on orders with an appointment date in the future.
70. “Rush Amend Due Date” will be always during working hours.
71. “Rush Amend Due Date” is offered as a service when resources can be found to perform the necessary tasks. In case the Proximus Technician cannot perform the works in the requested timeframe, Proximus will continue the provisioning as a default order and inform the Beneficiary.
72. Any delay for a “Rush Amend Due Date” put in place by Proximus, for instance caused by the absence of the End-User on the Beneficiary requested date, will entitle Proximus to charge the Beneficiary with 50% of the “Rush Amend Due Date” fee. In any case the process will continue and a new Beneficiary requested date will be settled in accordance with the default procedures.
73. The Beneficiary is able to request a rush order by the use of an “amend due date - type Rush” through the MSO interface (GUI or SOA). If the “Rush Amend Due Date” has been accepted, Proximus will provide the Beneficiary with the new appointment date in the “amend due date confirmation message”. If the rush order is not possible, the “Rush Amend Due Date” will be discarded and the initial appointment date will be kept.
74. Per line for which “Rush Amend Due Date” is requested and offered, the installation fee is doubled.
75. Per line for which “Rush Amend Due Date” is requested but cannot be achieved by Proximus for a reason attributable to the latter, the standard installation fee is billed.
76. “Rush Amend Due Date” requested for “overrun orders” will be discarded.

Escalation Amend Due Date : conditions

- 77. An “Escalation Amend Due Date” can be requested in case of a Proximus fault (e.g. Missed Appointment by a Proximus Technician).
- 78. “Escalation Amend Due Date” is only possible on orders with an appointment date in the future.
- 79. Escalations requested for “overrun orders” will be discarded.
- 80. An escalation order has no additional cost.

8.4 Types of Messages

- 81. During the order entry and provisioning processes, the Beneficiary will receive various messages. Depending on the type of order and/or the type/number of messages, the order entry can be temporarily put on hold or stopped. Three types of messages are possible:
 - Message for Action: message to ask the Beneficiary to realize a precise action on a pending order to re-start the flow.
 - Message for Information: message sent to communicate intermediate or final information to the Beneficiary.
 - Discard Message: message to inform the Beneficiary that the order entry or provisioning is stopped.

The above types of messages are further explained below and described in detail in the “Message versus action” sheet stored on the secured part of the Proximus wholesale website.

8.5 Message for Action

- 82. A Message for Action can be sent by Proximus during the order entry or the provisioning phase to inform that the order is temporarily put on hold as an action is required from the Beneficiary to re-start the flow (e.g. via an Appointment Booking after the “Report Work Orders” message).
- 83. During the order entry the number of Messages for Action, due to an invalid input provided by the Beneficiary, will be limited to 3.
- 84. A logic of auto-cancel after 12 calendar days will be applicable.
- 85. For complete information about all possible Messages for Action, reference is made to the “MSO User Guide” and the “Message versus action” sheet, which can be retrieved from the secured part of the Proximus wholesale website.

8.6 Message for Information

86. A Message for Information can be sent by Proximus to inform the Beneficiary on the status of an order and/or on any event occurring on an order or an installed line. The following Messages for Information are notably distinguished:

- Technical Order Confirmation (TOC): the TOC message is sent to the Beneficiary once the appointment is confirmed and contains information on the installation (service identifier, installation address, appointment date, installation method, ...).
- Due Date Confirmation: Proximus will use the notification with Subject “Due Date Confirmation” to report the fact that the Due Date of an order of type AUTO has been changed.
- OLO-tic (information on orders with End-User visit): the OLO-tic is sent after an End-User visit. Based on the situation encountered by the Proximus or Partner Technician, a specific template is filled in to give evidence of the visit and provide useful information. The possibilities are:
 - i. Negative closure during IBK (“Ik Bel de Klant” call),
 - ii. Negative closure at End-User’s premises,
 - iii. Positive closure.

The OLO-tic is not applicable for work orders performed by a Certified Technician.

- Technically Executed (TEX): message to indicate that the service is technically activated or deactivated, whether after a remote configuration in case of the installation method “remote” or after a technician intervention. In the latter case, the technician has performed a positive closure of the work order(s). However, administrative tasks have still to be performed in the Proximus systems at this stage of the order lifecycle. The TEX message indicates an intermediate status of the order.
- Order Closed (OC): message to indicate that all the technical and administrative tasks have been successfully performed. The order is no longer pending in the Proximus systems. This message indicates the final status of the order.
- Temporarily Impossible: message to inform that the delivery is temporarily impossible. Whenever Proximus has additional information (e.g. planned dates, reason of temporarily impossible) it will be provided in the message towards the Beneficiary. As a result of a message “temporarily impossible” 2 options are possible:
 - The order becomes technically possible: a Message for Action to perform a new appointment booking will be triggered towards the Beneficiary;
 - The order finally becomes technically impossible: a Discard message is triggered towards the Beneficiary.
- Amend Confirmation with the reason “Due date rescheduled on OLO request by call / e-mail” : message triggered when the Beneficiary has requested towards Proximus to perform a manual appointment rebooking instead of using the amend functionalities.

- Installation Address Changed: message to notify a change in the installation address. This message will contain the old and the updated address. The update of the installation address can occur at 2 different stages during the order lifecycle:
 - When the technical services have performed a manual TSI (Technical Situation) assignment (e.g. a “fictitious address” request);
 - When the technician is on site and requests the technical services to change the installation address because it doesn’t exactly match the actual installation address. This is only possible if there is no impact on the main address.
- NP EXEC Trigger: message to inform the Beneficiary that he can perform the EXEC for a Number Portability request.
- Technical Situation Reallocation: message to indicate that the Due Date of an order has been successfully changed after a new allocated technical situation.
- Street Plans received: message to inform the Beneficiary that the plans are available at Proximus for orders with the installation method “with customer visit splicing included”.
- Change Line Profile: the fact that the Line Profile of a VDSL2 line is set in the network or is undergoing changes – whether these changes are automatically triggered for VDSL2 lines on which Dynamic Line Management (DLM) is activated or are triggered by the Test de Bonne Fin (TBF) – is confirmed through the “Change Line Profile” message sent to the Beneficiary. Proximus will communicate the result of the Test de Bonne Fin to inform the Beneficiary of the line profile set on a VDSL2 line as a result of a line test executed on this line. In Shared VLAN mode, the TBF can either be triggered automatically or manually, while in Dedicated VLAN mode the TBF is always launched manually. The message contains the trigger of the Test de Bonne Fin, the type of the Test de Bonne Fin, the old line profile and the new line profile. The repair interface will be used to inform the Beneficiary concerning all profile changes occurring on his VDSL2 lines.
- Change Port: when the port of a Beneficiary’s Bitstream line changes as a result of a network migration or a repair, the new port is communicated to the Beneficiary using the “Change Port” message. Such message is notably used in case of ROP re-hosting or move of a ROP. The repair interface will be used to inform the Beneficiary concerning all port changes occurring on his Bitstream lines.

87. For complete information about all possible Messages for Information, reference is made to the “MSO User Guide” and the “Message versus action” sheet, which can be retrieved from the secured part of the Proximus wholesale website.

8.7 Discard or Cancel Confirmation Message

88. Similarly to the Order Closed message, a Discard or a Cancel Confirmation message indicates a final status of an order (Discarded or Cancelled). The Discard or the Cancel Confirmation message informs the Beneficiary that the order entry or provisioning is stopped, which means that the order has not been executed. The Discard message is for example sent when it is not possible for Proximus to succeed in providing the service based on the existing infrastructure

or when the Beneficiary has submitted an incorrect order. The Discard message contains the appropriate discard reason.

89. Proximus reserves the right to refuse orders if the volumes requested by the Beneficiary are not in line with reasonable market demands. In the event of such a refusal, Proximus will provide the Beneficiary with the reasons for the refusal and the Parties will enter into a good faith discussion for finding a solution to deal with the difficulty that has arisen.

8.8 Order Status Check

90. The Beneficiary is able to perform an order status check in the Order status viewer in the MSO GUI.
91. When an order is subject to a new order status, the message related to the order status change will contain the new order status.
92. The exhaustive list of the order statuses is present in the “MSO User Guide” which can be retrieved from the secured part of the Proximus wholesale website.

8.9 Functionalities during the Order Entry

93. The Beneficiary is entitled to provide different values which will trigger a different handling of the order in the ordering and/or provisioning flows. The values can be:
- Fictitious address such as antennas or event lines.
 - Manual TSI request towards Proximus at a fixed price, e.g. in case the End-User’s building is served by multiple copper introduction cables as indicated in the pre-checks phase.
 - Renovated House to inform Proximus that the introduction cable is no longer suitable and that an installation method “with customer visit splicing included” is required.
 - New Building to inform Proximus that the introduction cable is not present and that an installation method “with customer visit splicing included” is required.
 - Project based ordering: an agreement is made between the Beneficiary and Proximus to start a specific project for which the terms and conditions (including the pricing) have been discussed and concluded on beforehand. Three types can be distinguished: project based ordering on Proximus request, project based ordering on Beneficiary request and mass migrations. Reference is made to the Annex K of the BRUO reference offer for further details on the project based ordering approach used in the context of customized and mass migrations.
 - SNA (Small Network Adaptations): in case the Beneficiary indicates as input “not allowed” and the minimum installation method required to perform the activation of the End-User line is “with customer visit splicing included”, the order will be discarded.

- Cost estimate: in case work by splicers on the private domain is required, a quotation will be performed and invoiced towards the Beneficiary. If the latter indicates as input “not allowed” the order will be discarded and the quotation will not be performed nor invoiced.
- NTP (Network Termination Point): in case the Beneficiary indicates as input “missing” (the NTP being not present or no longer usable), a customer visit (splicing included or not), entailing the placement and labelling of the NTP, will be required to perform the activation of the End-User line.
- Contact data: the Beneficiary is able to use 4 types of contact data, i.e. the End-User contact (mandatory in all “provide-like” orders and aiming at providing a contact point at End-User side to be used by the technician before the visit), the “SARA SMS” (optional and aiming at requesting Proximus to inform the End-User of the appointment by use of an SMS), the Beneficiary contact (optional and aiming at providing the technician with a contact point at Beneficiary side) and the Beneficiary ISP (optional and aiming at providing the technician with the brand name of the ISP the order is placed for).
- NP Synchro: to enable synchronisation of a fixed Number Portability request towards Proximus and a Provide or Change Operator order.

94. For detailed information about these possible values, reference is made to the “MSO User Guide” which can be retrieved from the secured part of the Proximus wholesale website. When applicable, reference is also made to the Annex “Pricing, Compensations and Billing”.

9 Provisioning of an End-User Line

9.1 Introduction & Generalities

95. The provisioning process of a specific End-User line covers the activities of both the Beneficiary and Proximus as from the Technical Order Confirmation (TOC) message sent by Proximus to the Beneficiary until the closure of the order as communicated by Proximus through the Order Closed (OC) message.
96. After the Technical Order Confirmation message :
- a. The following **field interventions** will be performed by a Proximus or Partner or Certified Technician, when allowed and requested by the Beneficiary through MSO (GUI or SOA):
 - i. The realization of the necessary preparatory works in the LEX/LDC and/or KVD/ROP,
 - ii. The installation at End-User's premises,
 - iii. The end-to-end testing of the End-User line.
 - b. The following **remote interventions** will be performed by Proximus:
 - i. The realization of the necessary documentation to track that the End-User line of the Beneficiary carries the required technology,
 - ii. The remote configuration of the End-User line,
 - iii. After the Technical Execution of the order (TEX message), the sending of an Order Closed message.

9.2 Installation Methods (IM)

97. After the order entry validation, Proximus will return to the Beneficiary the minimum installation method required to perform the activation of the End-User line when no installation method had been given by the Beneficiary as initial input.
98. A downgrade of the installation method (by Proximus or by the Beneficiary) is not allowed.
99. Four (4) installations methods are possible in MSO in function of the successful technical situation allocation and work order creation:
- Remote
 - i. No work to perform by a Technician in the field
 - ii. No work to perform by a Technician at End-User's premises
 - iii. Remote configuration to perform
 - iv. Upgrade of the installation method is possible
 - Without Customer Visit
 - i. Work to perform by a Technician in the field
 - ii. No work to perform by a Technician at End-User's premises
 - iii. Remote configuration to perform
 - iv. Upgrade of the installation method is possible

- With Customer Visit
 - i. Work to perform by a Technician in the field
 - ii. Work to perform by a Technician at End-User's premises
 - iii. Remote configuration to perform
 - iv. Upgrade of the installation method is not possible
 - v. Can be requested upfront in the order
- With Customer Visit Splicing included (i.e. including Small Network Adaptations)
 - i. Work to perform by a Splicing team in the field
 - ii. Work to perform by a Splicing team at End-User's premises
 - iii. Remote configuration to perform
 - iv. Upgrade of the installation method is not possible

Small Network Adaptations

100. Small Network Adaptations (SNA) are splicing works usually performed during provisioning activities in case no suitable Introduction Cable is available. An Introduction Cable, also referred to as drop wire, is defined as the physical part of an End-User line that connects the Distribution Cable to the End-User's Network Termination Point (NTP). The unavailability of a suitable Introduction Cable means that an Introduction Cable is not present or is not usable as such due to e.g. damage caused by the End-User or a third party (whether at introduction or distribution level), humidity, renovation works by the End-User, requested technology (e.g. VDSL2 is not possible on the return pair), ...
101. Proximus will perform Small Network Adaptations by means of (i) installing a new Introduction Cable (i.e. connecting an NTP in the End-User's building/Living Unit to a pair in the nearest possible Distribution Cable in the street) or (ii) intervening on an existing Introduction Cable and/or Distribution Pair. In case Small Network Adaptations are needed, the provisioning of a Bitstream xDSL line will include one of the following solutions:
- Realization of a new introduction in the building/Living Unit of the Beneficiary's End-User;
 - Renewal of the introduction in the building/Living Unit of the Beneficiary's End-User;
 - Splicing additional pairs in the existing introduction splice of the building/Living Unit of the Beneficiary's End-User or any other splicing work (splice adaptation, bridge splice, transition splice, ...) to ensure correct provisioning for this End-User;
 - Moving the existing introduction from an existing Distribution Cable to another existing Distribution Cable.
102. Reference is made to the [Appendix E](#) for further details on these 4 types of solution.
103. Proximus will provide an Introduction Cable with a maximum length of 100 meters on the public domain to make the connection between the Distribution Cable and the Network Termination Point. In case an Introduction Cable with a length more than 100 meters has to be provided or in case of a public road with a carriageway, Proximus will charge the Beneficiary the relevant price for the extra work. On the private domain, duct and trench must be provided by the Beneficiary.
104. SNA require that a free duct or an open trench is available on the private domain. If neither a free duct nor an open trench is available on the private domain, Proximus can be asked to

also perform this part of the work on condition that the Beneficiary agrees to pay the price for that part of the work performed by Proximus. This price will be determined on a case-by-case basis according to a cost estimate if the Beneficiary allows it.

105. In case no more free pairs are available in the Distribution Network, the request for a without voice Bitstream line will be discarded. The construction or trenching of new distribution cabling, new street cabinets or new feeder cabling is outside the scope of the present offer.
106. The Belgian Regions created platforms (e.g. OSIRIS in Brussels, POWALCO in Wallonia) where, among others, the splicing works to be executed by Proximus (employees or subcontractors) on the public domain must be registered. The main goal of these platforms is to coordinate the works of the multiple utility companies on the public domain as well as to manage the authorisation process and the work acceptance with municipalities. Such process imposed by the Public Authorities can extend the time needed for the provisioning of the End-User lines.
107. The provisioning time can also be extended because Proximus is legally obliged to get via the KLIM or KLIP portal the plans of the other utility companies before starting the splicing works. For example, in virtue of the article 192/2 of the RGIE/AREI and in order to ensure the security of Proximus splicers and other individuals, Proximus splicers must consult the plans of the underground electric cables installed by the other utility companies before carrying out any new connection with splicing works. Street plan request obligations are also applicable for the underground cables of any other relevant utility company (e.g. gas) in virtue of sector specific legislation.
108. SNA are always performed by Proximus or a Third Party working for Proximus.
109. The Beneficiary has the possibility to indicate as input in the order entry "SNA not allowed". If "SNA not allowed" is flagged in the order, Proximus will discard the order. The use by the Beneficiary in its order of the SNA indicator "not allowed" is not compatible with specific indications on the Introduction Cable by means of the values "New Building", "Renovated House" or "Manual TSI".
110. In case an SNA is detected during provisioning, Proximus will send to the Beneficiary a Message for Action (with subject "on HOLD") mentioning that an additional intervention is needed. If the Beneficiary answers that message with the amend functionality, the new minimum installation method required "with customer visit splicing included" will be mentioned in the Proximus answer with the related work order(s). The Beneficiary still has at that moment of the "Report Work Orders" Message for Action the possibility to cancel the order.
111. To mitigate the number of SNAs, Proximus has implemented in its systems an SNA avoidance logic aiming at converting an order with the minimum installation method required "with customer visit splicing included" into a single technician or remote installation method thanks to a rule making the link between two separate orders (an order with the action "Provide" and a pending cease order) on a same TSI (when applicable): the provide order will take over the TSI of the pending cease order taking into account the appointment date of both orders.

9.3 Technician Types

112. The Beneficiary is able to select one of the 3 following technician types when the installation method requires an intervention to be performed by a technician:
- Proximus Technician
 - Partner Technician: the selection of this type of technician requires on beforehand the conclusion of a contract between the Beneficiary and one of the possible Proximus subcontractors. The list of the possible subcontractors is documented in the “MSO User Guide” and can be requested by the Beneficiary to its Proximus SPOC.
 - Certified Technician (CT): for detailed information, reference is made to the Certified Technician “Specific Terms and Conditions” and “User Guide” as documented on the secured part of the Proximus wholesale website.
113. When returning the work order(s) towards the Beneficiary, the technician type(s) that are allowed to be selected will be added per work order. For each work order describing technician tasks a technician type is required as input.
114. A change of technician type can be needed due to a change of the allocated TSI, resulting in the creation of (a) new work order(s).

9.4 End-User Appointment negotiation and (re)booking

115. Based on the input of his End-User (“appointment negotiation”), the Beneficiary is requested to perform date and timeslot booking for each work order to be performed.
116. The Beneficiary is responsible to make sure the appointment date fits his End-User well and to reschedule it if needed. Proximus will only contact the End-User approximately 30 minutes before the intervention to confirm that the technician (or splicing team) is coming (in case of Proximus & Partner Technician).
117. Through the optional “SARA SMS” functionality, the Beneficiary has the possibility to request Proximus to send an SMS to the End-User during the provisioning process in order to inform the latter of the appointment.
118. For more details about the date/timeslot negotiation and booking, reference is made to the “MSO User Guide” which can be retrieved from the secured part of the Proximus wholesale website.

9.5 Application of Dynamic Line Management

119. The DLM functionality is only possible in combination with a Bitstream VDSL2 Standard line in combination with Shared or with Dedicated VLAN.
120. Every time that the line profile of a Bitstream VDSL2 Standard line will change due to the application of the DLM process, Proximus will inform the Beneficiary of the new line profile through a Message for Information "Change Line Profile". The repair interface will be used to inform the Beneficiary concerning these profile changes.
121. The application of DLM will not be compulsory. If the Beneficiary does not want to benefit from the DLM functionality, he will be entitled to deny the application of this process to a part or the totality of its Bitstream VDSL2 lines.
 - a. During order entry: the Beneficiary has the possibility to opt-out of the DLM function via the consequent DLM Product Options of the Bitstream VDSL2 Standard line.
 - b. After the provisioning of the Bitstream VDSL2 Standard line: the Beneficiary has the possibility to modify this DLM Product option through a "Change" order.
 - c. To deny it for the totality of its Bitstream VDSL2 Standard lines, the Beneficiary will have to communicate its decision by mail to its Proximus account manager at least 3 weeks before the ordering of its first Bitstream VDSL2 Standard line. In this case, the DLM process will never be applied anymore to any line of the Beneficiary.

9.6 Application of Vectoring

122. The vectoring technology is only possible in combination with a Bitstream VDSL2 Standard line in combination with Shared or with Dedicated VLAN.
123. Every time that the line profile of a Bitstream VDSL2 Standard line will change for the benefit of the vectoring line profile, Proximus will inform the Beneficiary of the new line profile through a Message for Information "Change Line Profile". The repair interface will be used to inform the Beneficiary concerning these profile changes.
124. However, the vectoring line profile will not be compulsory. If the Beneficiary does not want to benefit of the vectoring line profile, he will be entitled:
 - a. to change the line profile once the vectoring profile is activated (see section "Installation" in the Annex 7 – Roles & Responsibilities throughout the OLO CPE lifecycle of the present offer);
 - b. to install a modem with a vector-friendly firmware before the vectoring activation process (see section "Vectoring" of the Main Body of the present offer).

10 Ordering and Provisioning Process flows

125. Reference is made to the Process Flows describing the Ordering and Provisioning Business Processes of the Bitstream offer, which can be retrieved from the secured part of the Proximus wholesale website in the section “Operational Documentation” of the Regulated Services menu.

11 Forecasting of orders

126. The forecasted volumes (provide, change operator, change, migrate and move included) are established by sub-area/area and ventilated per Installation Method ("without customer visit", "with customer visit" or "with customer visit splicing included"), all products (Bitstream and BRUO) combined. Orders with the technician type "Certified Technician" or "Partner Technician" are not taken into account in the forecast.
127. The forecasting of orders shall be done in conformance with the procedure as described in Appendix B.

12 Incident Management and Repair

128. This section describes the responsibilities of Proximus and the Beneficiary in incident management and repair.

12.1 General Process

129. Repairs are carried out on the Proximus Network after the Beneficiary has reported an incident to Proximus provided the Beneficiary has made the preliminary investigations and is confident that the incident is in the Proximus Network. The Beneficiary is responsible for the repair of the xDSL service for which he has the control and is responsible to filter out all non-Proximus related incidents. The Beneficiary, when reporting that there is an incident, has to give precise information about the nature of the incident. Proximus will, when appropriate, confirm the existence of the incident.
130. Proximus will be responsible for the repair of the PSTN/ISDN Proximus Services offered to the End-User.
131. If Proximus becomes aware of an incident on its network, Proximus automatically coordinates the necessary actions to resolve the incident according to the applicable arrangements.
132. The maintenance and the development of the Proximus Network may require Proximus to limit the Bitstream xDSL Service or to suspend it temporarily. Proximus undertakes to limit the duration of this period to the time that is required for the execution of the Planned Work and that duration will, in no way, be longer than the period that Proximus would require if its own services needed to be suspended. In such cases, Proximus will inform the Beneficiary in due time at least 48 hours in advance, and communicate the estimated suspension time and the reason of suspension.
133. For detailed information on the Incident & Repair Management Platform, reference is made to the Web GUI (e-Troubleshooting Portal) User Guide and SOA IT Package stored on the secured part of the Proximus wholesale website.

12.2 Repair for spectral issues reasons

134. If spectral issues occur within a cable as a consequence of the broadband services offered by Beneficiaries or by Proximus (for instance: interference of the Beneficiary system with the existing system in service in the cable bundle, connection of non-compatible equipment), Proximus will first try to solve the issue by treating the most polluting line. If this solution does not solve the issue, Proximus may solve it by removing the concerned Beneficiary service on the concerned End-User line under LIFO (Last In First Out) mode. The related costs will be invoiced to the Beneficiary. In case of dispute regarding the costs each Party can ask BIPT to verify the claimed costs.

135. Note that the pre-checks executed in the order entry process don't examine the spectral characteristics of the line and cannot consequently determine with 100% accuracy that the line won't present technical problems.
136. Proximus developed remote testing and monitoring tools in order to identify the VDSL2 perturbing lines. Based on the use of those tools Proximus is authorized to take proactive actions in order to protect other xDSL lines. Those actions could be, in function of the increasing severity of the perturbation: a change in the line profile, the lock of the xDSL port or the physical disconnection of the perturbing line. Specifically relating to the change of line profile, Proximus will downgrade to an appropriate line profile with a lower downstream and/or lower upstream speed.

Reference is made to Annex 2C "Technical Specifications" of the present Bitstream reference offer, section "DSL profiles at UNI (Layer1)", for more information on VDSL2 line profiles.

The choice of the VDSL2 line profile will relate to the severity of the perturbation. The Beneficiary will always be proactively¹ informed by Proximus about the monitoring of the line and the resulting action taken by Proximus.

137. If the VDSL2 services offered by the Beneficiary appear to be the cause of an abnormal² perturbation, Proximus will demonstrate that this was caused by the services of the Beneficiary and will, eventually and after information of the Beneficiary, interrupt the service to be able to make this demonstration.

12.3 Points of Entry for reporting an incident

138. For the reporting of incidents, several modes of contact between the Beneficiary and Proximus are possible.

For the reporting of incidents at End-User line level, the following modes of contact are available:

- Via the Incident & Repair Management Platform enabling to create a repair case;
- By call (0800 93122) or by e-mail (080093122@proximus.com) should the Incident & Repair Management Platform not be up and running.

For the reporting of incidents at OLO Access Line level, the Incident & Repair Management Platform for repair cases is also available. Should this platform not be up and running, it is possible to report an incident by call (0800 14888) or by e-mail (ict-servicedesk@proximus.com).

¹ Fall-back mode and profile mechanism are explained in the section "Special conditions in connection with Repair" of the present Annex.

² Abnormal: when disturbances on other lines in the same cable are not in line with the technical rules and authorization conditions as defined within the Technical Specifications.

For the reporting of incidents at Shared VLAN level towards the Customer Support Desk (also referred to as CSD), the phone number is 0800 91480.

12.4 Incident Reporting

139. It is always the Beneficiary that

- 1) reports incidents affecting the Bitstream xDSL Service;
- 2) receives and handles own End-Users' incident reports before reporting some of those incidents to Proximus. Proximus will not take calls directly coming from End-Users of the Beneficiary for the Bitstream xDSL Service.

140. It is the Beneficiary's responsibility to launch diagnose tasks using the DARE Pre-Troubleshooting functionality put by Proximus at his disposal and check that there is sufficient ground to establish that the incident is within Proximus area of responsibility.

12.5 Beneficiary's liabilities in connection with incident reporting

141. For the reporting of incidents at End-User line level, the Beneficiary will contact Proximus:
- via the Incident & Repair Management Platform, as standard solution or,
 - by phone or e-mail, as back-up solution. The phone number to be used by the Beneficiary is 0800/93122 while the e-mail address is 080093122@proximus.com. The Beneficiary will send to this e-mail address an Excel file with the description of the incident.
142. Before creating a repair case or triggering any recovery actions through the Proximus Incident & Repair Management Platform, the Beneficiary will execute via this platform a line test to ensure that the incident is attributable to Proximus. The applicable diagnose tasks and pre-troubleshooting tests (DARE) are proposed by Proximus and are mandatory: for a Bitstream line, the Beneficiary is provided with the test results, a diagnosis as well as additional information (if any) such as a potential network incident impacting the circuit, an ongoing intervention on the voice part or a repetitive repair on the same circuit.
143. The Beneficiary is responsible for transmitting all necessary information requested by Proximus. The following information will be included in the repair case (or in the Excel file if applicable) based on the forms available in the Incident & Repair Management Platform:
- Service identifier
 - Technical contact points and phone numbers of the Beneficiary
 - Is service fully interrupted or degraded?
 - Synchro status

- Ethernet connectivity status (interrupted/degraded)
 - Quality IP (packet lost down, packet lost up,...)
 - End-User installation info
144. In the following cases the repair case creation will be rejected:
- Diagnose task is invalid
 - Information in the repair case (or in the Excel file if applicable) is incomplete
 - More than one case is sent in the incident report
145. In addition, the Beneficiary will possibly communicate to Proximus:
- Measurements from equipment on the Beneficiary's side that can help solve the incident (if available).
 - Installation address of the line (optional if the intake is done via the Incident & Repair Management Platform).
 - Contact point, phone number, language and availability of the End-User (in case an intervention is required in the field).
 - Any information that shows that Beneficiary has taken the necessary steps to ensure that the repair case (or Excel file) is submitted in good faith to Proximus.
146. The transmission of test results by the Beneficiary is optional but in case the latter provides such information to Proximus, the following information is useful:
- Confirm if modem or router is powered on
 - Confirm if splitter(s) is(are) connected and checked
147. It is always the Beneficiary who receives own End-Users' incident reports regarding the xDSL services before reporting some of those incidents to Proximus. In case Proximus receives such incident reports from a Beneficiary's End-User, Proximus will refer the End-User to the Company with whom he has signed an agreement.
148. When the Beneficiary receives an incident report from one of his End-Users for an xDSL service, the Beneficiary performs a first diagnosis using notably the information provided by the End-User as well as the diagnosis and line test results returned by Proximus as part of the DARE Pre-Troubleshooting functionality.
- In case the issue does not require a Proximus intervention (e.g. the Beneficiary chooses to trigger a recovery action as suggested by the DARE Pre-Troubleshooting functionality), the Beneficiary manages the issue and contacts the End-User once the issue is solved and closed.
 - On the opposite, if the issue requires a Proximus intervention (typically for physical network issues), the Beneficiary continues the issue resolution process with Proximus.
149. Important note: the Beneficiary must clearly specify to the End-User that the modem must be left "on" in order to let the possibility to Proximus to perform all the actions required to identify and fix the issue.

12.6 Proximus' liabilities in connection with incident reporting

150. Proximus starts the incident localization and performs repair activities during working or clock hours depending on the contract type.
151. If the Beneficiary has communicated to Proximus measurements from equipment on the Beneficiary's side that could help solve the incident, Proximus will analyze and verify them, and integrate them in its diagnosis process. In this event, Proximus will only be entitled to close the repair case, possibly qualifying it as "Wrongful Repair Request", after analysis and verification of those measurements. The results of these will be made available to the Beneficiary through the Incident & Repair Management Platform.
152. The Beneficiary recognizes that:
 - If necessary, the Beneficiary is required to disconnect the terminal equipment at the End-User site upon Proximus' request to allow proper measurements;
 - Proximus can request to the Beneficiary a timeframe for disconnecting the Bitstream xDSL Service at the network side so as to be able to carry out the necessary measurements. Refusal from the Beneficiary to do so will imply that Proximus is not in a position to verify the line and can be considered as "Wrongful Repair Request";
 - The Beneficiary's repair case must relate to the type of service for which the Bitstream xDSL Service has been ordered;
 - During the repair process the Beneficiary may submit additional information in respect of a specific repair case, cancel a repair case or update a repair case on the same Bitstream xDSL End-User line.
153. The Proximus repair helpdesk reports the result of the repair activities to the Beneficiary immediately upon the repair intervention and the final (positive) remote test of the line.
154. Any additional feedback (repair status, follow-up,...) or any additional action (such as the creation of another field intervention or the organisation of a "DUO" intervention during which a Beneficiary's technician and a Proximus technician are going together on site) requested by the Beneficiary during the repair case lifecycle will be taken care of through the Proximus repair helpdesk.
155. Proximus reserves the right to contact and make, in urgent occurrences only, an appointment with the End-User of the Beneficiary for the repair of the Bitstream xDSL Service.
156. In case of Planned Work on the Proximus network infrastructure or incident alert that can affect the Bitstream xDSL Service, Proximus shall inform the Beneficiary via the Incident & Repair Management Platform.

12.7 Special conditions in connection with Repair

157. When the End-User connects another equipment (on its side) than the ones defined in the Annex 2x “Technical specifications”, section “Modem”, of the present Bitstream xDSL Reference Offer, Proximus is entitled to disconnect the Bitstream Service after prior notification of the Beneficiary.
158. In case the responsibility for the incident cannot immediately be placed, and where Proximus makes coordinated efforts with one or more Beneficiaries, settlement is made or arranged after the conclusion of the repair.
159. If the Proximus repair services conclude that a repair case is related to a low performance of a line with unstable synchro, the Proximus repair team starts the “fallback profile” process. This process can be further explained to the Beneficiaries during dedicated technical meetings.
160. Within the framework of vectoring (only for VDSL2 service):
- Lines equipped with modem with non-vector friendly firmware will get a fall-back mode³ or a fall-back profile⁴ (case 1).
 - Lines with vectoring profile will get a fall-back-mode or a fall-back profile when the vector-compliant CPE is replaced with a CPE with a vector-friendly or a non-vector friendly firmware (case 2).
161. Fall-back mode and Fall-Back profile won't be activated anymore as soon as:
- Firmware is upgraded to vector-friendly firmware (case 1 above) or vector-compliant firmware (case 2 above). Proximus will send the notification of the new line profile to the Beneficiary through a Message for Information “Change Line Profile” only if the Test de Bonne Fin is launched by the Beneficiary⁵.
 - New modem with the vector-friendly firmware (case 1) or vector-compliant firmware (case 2) is connected for the first time at End-User's premises. Proximus will send the notification of the new line profile to the Beneficiary through a Message for Information “Change Line Profile”
 - OLO CPE & Proximus CPE configuration for “Dedicated VLAN”: if the Test de Bonne Fin is launched by the Beneficiary.
 - Proximus CPE configuration for “Shared VLAN”: if the modem is reachable.

³ The fall-back mode is activated by the ISAM and will be consultable in the Incident & Repair Management Platform for repair cases.

⁴ The fall-back profile is determined by the Test de Bonne Fin. Proximus will send the notification of the new line profile to the Beneficiary through a Message for Information “Change Line Profile”.

⁵ The Change Line Profile message is described above in the section “Message for Information”.

12.8 Repair Request and Feedback

12.8.1 Shared VLAN and OLO Access Line level

- 162. The Beneficiary's requests for repair at Shared VLAN level and OLO Access Line level will be answered by the Customer Support Desk. Any communication regarding the repair of OLO Access Lines should be directed to the Customer Support Desk through the Incident & Repair Management Platform or, as back-up solution, via phone or e-mail. The Customer Support Desk representatives will however not accept direct calls/emails from the End-User.
- 163. In the same line, any follow-up feedback given to the Beneficiary during the repair case lifecycle will be through the Customer Support Desk so as to ensure continuity and consistency.
- 164. The escalation procedure document for the repair can be found on the secured part of the Proximus wholesale website.

12.8.2 End-User line level

- 165. The Beneficiary's repair cases at End-User line level will be answered by the CHC repair helpdesk. Any communication regarding the repair should be directed to the CHC repair helpdesk through the Incident & Repair Management Platform or, as back-up solution, via phone or e-mail. No direct calls/emails from the End-User will be accepted.
- 166. In the same line, any follow-up feedback given to the Beneficiary during the repair case lifecycle will be through the CHC repair helpdesk so as to ensure continuity and consistency.
- 167. The Beneficiary has to provide in each repair case the service identifier (circuit ID) that was provided by Proximus in the End-User line provisioning process. The Beneficiary repair case must relate to the type of service for which this line has been ordered. If the reported incident does not match the service ordered by the Beneficiary as documented, the repair case will be rejected. During the repair process the Beneficiary may also submit additional information for a specific case, cancel a case or update a case.
- 168. Specific remark on the use of the circuit ID: whenever there is a modification on the installation of a line, the circuit ID identifying the line could change. The "MSO User Guide" document, which can be retrieved from the secured part of the Proximus wholesale website, summarises the cases where the circuit ID changes or remains unchanged.
- 169. To allow Proximus to contact the End-User approximately 30 minutes before the intervention to confirm that the technician (or splicing team) is coming, the Beneficiary will transmit to Proximus the contact point of the End-User and his/her phone number together with the appointment booking details (if required).
- 170. The escalation procedure document for the repair can be found on the secured part of the Proximus wholesale website.

12.9 SNA and Splicing Interventions (detected during repair)

171. During the repair process it may appear necessary for Proximus to execute Small Network Adaptations (SNA).
172. SNA can occasionally be identified via the repair process. Such cases are very limited and are typically coming from situations where the SNA was not detected during the provisioning process⁶.
173. SNA detected during repair is by default limited to lines on which no traffic has been measured within 14 calendar days following the closure of the provisioning.
174. Splicing interventions are all splicing works (e.g. replacement of a damaged cable) performed by splicers during repair interventions. Splicing Interventions do not fall within the Street plan request obligations as imposed by e.g. article 192/2 of the RGIE/AREI. Splicing Interventions have to be notified by Proximus to the regional platforms such as POWALCO and OSIRIS as soon as the work is finished.

12.10 Wrongful Repair Request

175. In case of a repair case where the incident is actually not located on the Proximus network infrastructure and Proximus has performed work for that repair case, useless costs are incurred by Proximus. To encourage the Beneficiary to effectively use the diagnose task functionality provided by Proximus and perform a prior check on the loop and on the connected equipment, Proximus will bill an incentive fee to the Beneficiary. There will be an indication of the repair case reference and the cause of the “Wrongful Repair Request”.

12.11 Repair Process flows

176. Reference is made to the Process Flows describing the Repair Business Processes of the Bitstream offer, which can be retrieved from the secured part of the Proximus wholesale website in the section “Operational Documentation” of the Regulated Services menu.

⁶ Example: an order with the installation method “without customer visit” and for which the indicator “Renovated house” was not used by the Beneficiary whereas the End-User’s house had actually been renovated and split into multiple apartments by the owner.

13 Phases in the provisioning of the Bitstream xDSL Service

177. The way of provisioning the Bitstream xDSL Service to the Beneficiary will evolve according to the following 2 successive phases: Friendly User Testing Phase and Full Commercial Phase.

13.1 Friendly User Testing Phase

- 178. During the Friendly User Testing Phase, hereunder referred to as FUT, Proximus will support the Beneficiary to get acquainted with the processes and systems in scope of the Bitstream xDSL Service.
- 179. Each of the Parties will have to agree on the date of successful completion of the Friendly User Testing Phase. The FUT phase should cover a period of at least 10 working days.
- 180. The FUT Phase is executed at one Service PoP, linked to at maximum two LEXs enabled for Bitstream xDSL. The number of Friendly Users (to be provided by the Beneficiary) is set at maximum 24 per Beneficiary.
- 181. In case the Beneficiary would intend to start separately with Bitstream xDSL Shared and Dedicated VLAN, two separate FUT must be organized, one for Shared VLAN and one for Dedicated VLAN.

13.2 Full Commercial Phase

- 182. The Full Commercial Phase will entirely be based on Beneficiary's firm orders submitted by the Beneficiary. The number of orders must be reasonable and progressive to avoid that the provisioning helpdesk and support services of Proximus are overloaded by large amounts of initial orders.
- 183. All questions or issues regarding the provisioning of individual End-User lines are to be addressed to the provisioning helpdesk:
 - Mail: llu.car@proximus.com
 - Phone: +32 78 152 232

14 Information on IT projects

184. For any changes initiated by Proximus which can have a significant impact on the IT systems of the Beneficiaries (e.g. a change in the XSD structure, a new type of XML message, a new exchange process), Beneficiaries shall be notified at least 6 months in advance with a high level description of the impact and with a structure of the documentation. Proximus will provide the detailed impact and documentation 3 months prior the start of the modifications.
185. For smaller changes (e.g. new or changed values in an existing XML field, new feedback codes, use of new fields in the existing XSD structure), Beneficiaries shall be notified at least 3 months in advance with a high level description of the impact and with a structure of the documentation. Proximus will provide the detailed impact and documentation 1 month prior the start of the modifications.
186. The BIPT will be informed in any case.
187. Concerning the periods of notice, the BIPT can allow exceptions.

Appendix A: Statement of Requirements, template for the Beneficiary

General

188. This appendix includes a non-exhaustive list of items that should be included in the Statements of Requirements (SOR). This template is only a guideline. It is the freedom of both Parties to discuss the content of the SOR.

Basic information

Registered name and address of Beneficiary

Beneficiary name :

Address :

Postal code and city :

Country :

Telephone number :

Fax number :

VAT registration number :

Trade register :

Confidentiality agreement

189. The Parties can choose to sign a confidentiality agreement as part of the SOR. The statements included in this agreement are to be determined by the Parties.

Key Contacts list

Key project dates

| | Date required by Beneficiary | Indicative dates from Proximus |
|---|------------------------------|--------------------------------|
| Requested date to start Friendly User Test | | |
| Requested bringing into service date of Bitstream xDSL ordering | | |

Bitstream xDSL Products and Services Beneficiary wishes to obtain from Proximus

Please indicate which services you wish to obtain from Proximus in scope of Bitstream xDSL:

| Name | Interest (Yes / No) | With or Without Voice |
|---|---------------------|-----------------------|
| Bitstream VDSL2 Shared VLAN Standard | | |
| Bitstream VDSL2 Dedicated VLAN Standard | | |
| Bitstream VDSL2 Shared VLAN Highupstream | | |
| Bitstream VDSL2 Dedicated VLAN Highupstream | | |
| Bitstream VDSL2 Shared VLAN Symmetric | | |
| Bitstream VDSL2 Dedicated VLAN Symmetric | | |
| Bitstream ADSL2+ Shared VLAN | | |
| Bitstream ADSL2+ Dedicated VLAN | | |
| Bitstream ADSL Shared VLAN | | |
| Bitstream ADSL Dedicated VLAN | | |
| Bitstream SDSL Shared VLAN | | |

| | | |
|--------------------------------|--|--|
| Bitstream SDSL Dedicated VLAN | | |
| Bitstream ADSL2 Shared VLAN | | |
| Bitstream ADSL2 Dedicated VLAN | | |

Appendix B: Description of the Forecasting Process

General Principles

190. This chapter describes the forecasting process. The forecasts are prerequisites for the respect by Proximus of the SLA on Slot Availability for orders submitted via the MSO (GUI & SOA) interface. Forecasts are needed to help Proximus plan a reasonable capacity to fulfil Beneficiary's demand.
191. Beneficiaries are guaranteed that Proximus will set-up the necessary resources for the period concerned to meet its market needs.
192. The forecasted volumes (provide, change operator, change, migrate and move included) are established by sub-area/area and ventilated per Installation Method ("without customer visit", "with customer visit" or "with customer visit splicing included"), all products (Bitstream and BRUO) combined. Orders with the technician type "Certified Technician" or "Partner Technician" are not taken into account in the forecast.

Geographic (sub-)areas:

| | |
|--------------|---|
| Sub-area 1.1 | West Vlaanderen |
| Sub-area 1.2 | Oost Vlaanderen & Vlaams-Brabant - west |
| Sub-area 2.1 | Antwerpen |
| Sub-area 2.2 | Vlaams-Brabant - oost & Limburg |
| Area 3 | Brussels (19 municipalities) |
| Area 4 | Hainaut & Brabant wallon |
| Area 5 | Liège, Namur & Luxembourg |

193. For the three first series of forecasts of a new Beneficiary, both Parties will enter into good faith discussions about the submitted forecasts and the feasibility to implement the forecasts concerned.

Processing of Forecasts

194. Proximus will propose an individual forecast to each Beneficiary, based on the mathematical average of the actual ordered volumes of the Beneficiary over the last 6 months. By the 10th of each month at the latest, Proximus will download on the e-dedicated library of each Beneficiary the individual forecast proposal. This forecast will be elaborated per month, per installation method & per area/sub-area for all BRUO and Bitstream products combined.
195. The Beneficiary is responsible for the accuracy of the forecast. Therefore, the Beneficiary is requested to confirm or modify this forecast by e-mail (to cws.forecasting@proximus.com), at the latest one month prior to the first forecasted period in time. Forecast modifications or confirmation shall be done through the use of the templates provided by Proximus. These templates will only be considered as valid when they are properly completed. In case data is missing or is not correct, the forecast will be rejected (within 5 working days following its reception). In the latter case, the reasons of rejection will be indicated on the template by Proximus.
196. If no confirmation or modification is received by that time, Proximus will consider the proposed forecasted volumes as confirmed. Once confirmed, the forecasted volumes are globalized by Proximus into one basket. Capacity reservation as well as calendar dimensioning is done accordingly to fit the needs of the entire market.

E.g.:

By 10th September 2017, Proximus downloads the Beneficiary X forecast of November 2017 to January 2018 on its e-dedicated library (forecasted volume=mathematical average of the monthly volumes ordered by the Beneficiary X between March and August 2017);

Beneficiary X may send a modified forecast by e-mail to Proximus (cws.forecasting@proximus.com) until 30th September 2017.

Proximus will implement the Beneficiary X modified forecast (or by default the Proximus proposal) in its systems, and use it to determine global overrun and monthly deviations.

Deviations between successive forecasts

197. The globalized volumes forecasted by the entire market at month M will be compared with the volumes forecasted at month M-1. For each forecasted month common to the 2 successive forecasts, the maximum deviation between the successive forecasts of this month at month M and at month M-1 will be – 30 % to + 30 %.

Deviations between forecasted volumes and actual volumes

Underrun

198. Underrun occurs when actual ordered volumes are below forecasted volumes. Any underrun mechanism applies to the entire globalized volume of orders of the entire market.
199. A reasonable underrun of the forecasted volumes can be absorbed by Proximus and has no direct consequences for the Beneficiary. A reasonable underrun is considered to be no more than a 20% deviation of the forecasted volume, considered on a monthly basis. In case of severe underrun (i.e. more than 20%) and in case this underrun was caused by a single Beneficiary who excessively increased the volume proposed by Proximus, Proximus reserves the right to limit the allowed modification for the forecast of the following 3 months for that Beneficiary to a level deemed necessary by Proximus.

E.g.: The proposed volume for all Beneficiaries for month X is 1000 (=average of the actual ordered volumes of the last 6 months). Some Beneficiaries send a modification of their forecasted volume via CWS.forecasting@Proximus.com and the forecasted volume for all Beneficiaries is confirmed at 1500. The realised volume for month X is finally lower than 1200 (1500-20%=underrun). If among the Beneficiaries that had sent a modification, the realised volumes are more than 20 % under the modified volumes, they will be identified as responsible of the underrun and won't have the possibility to modify the proposed forecasting during the following 3 months.

Overrun

200. Global Monthly Overrun occurs when actual ordered volumes are above forecasted volumes. Any overrun mechanism applies to the entire globalized volume of orders of the entire market.

As from the first order exceeding the globalized forecasted volume, independently of which Beneficiary might be the cause of this overrun, all orders of all Beneficiaries for the remainder of the month will be considered in "overrun". For any order in "overrun", no guarantee on Slot Availability will be offered and they will be carried out by Proximus as soon as possible, according to the remaining capacity available.

Appendix C: Forecasting templates for BRUO and Bitstream End-User Line orders

201. Remarks:

- M_i refers to the month in which the forecasting templates are submitted.
- All quantities (M_1 to M_{12}) are incremental values.

“Beneficiary Operations” Forecast

Forecasting Template for BRUO and Bitstream Orders

Beneficiary reference:

Edition:

Split: Without Customer Visit, With Customer Visit & With Customer Visit splicing included

Reception date:

| Telephone Zone | M_1 | M_2 | M_3 | M_4 | M_5 | M_6 | M_7 | M_8 | ... | M_{12} |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----------|
| Sub-area 1.1 | | | | | | | | | | |
| Sub-area 1.2 | | | | | | | | | | |
| Sub-area 2.1 | | | | | | | | | | |
| Sub-area 2.2 | | | | | | | | | | |
| Area 3 | | | | | | | | | | |
| Area 4 | | | | | | | | | | |
| Area 5 | | | | | | | | | | |

Appendix D: Order Templates

End-User line

202. Ordering a Bitstream xDSL End-User line is done through the MSO interface. For detailed information, reference is made to the “MSO User Guide” documented on the secured part of the Proximus wholesale website.

Transport

203. Only for Bitstream xDSL with Shared VLAN: ordering bandwidth capacity by LEX, as well as changing or ceasing bandwidth is done through the MSO interface. For detailed information, reference is made to the “MSO User Guide” documented on the secured part of the Proximus wholesale website.
204. Only for Bitstream xDSL with Dedicated VLAN: adapting the VLAN profile of a line with Dedicated VLAN is done through the MSO interface. For detailed information, reference is made to the “MSO User Guide” documented on the secured part of the Proximus wholesale website.

OLO Access Line

205. The order form hereafter concerns the ordering of an OLO Access Line in the framework of the Proximus Bitstream xDSL offer.
206. This offer is valid for a period of four weeks from the signature of this OLO Access Line order form.

Ethernet OLO ACCESS LINE (OAL):

Order Form

1. Please complete each section of this form as accurately as possible.
2. The instructions given at the bottom of each block will help you complete this form.
3. Please complete one form per requested line.

1. YOUR ADDRESS

Company name:
Address:
Postal code and city:
Country:
Telephone number:
Fax number:
VAT registration number:
Trade register:

>> Please complete all items in this block accurately.

2. YOUR BILLING INFORMATION

2.1. Your billing address (if different from 1.)

Company name:
Address:
Postal code and city:
Country:
Telephone number:
Fax number:
VAT registration number:
Trade register:

2.2. References

Your customer number (this number is mentioned on your invoice)

Your own reference (up to 20 digits or letters)

>Your customer number: this is your reference number in our billing system which is stated on your invoice.

3. TYPE OF REQUEST

NEW LINE

- 3.1. ☐ I wish to order a **new** OAL line (I specify the technical specifications of the new line in section 5 below).
I would like to have my line installed by (CRD):

CHANGE

- 3.2. ☐ I would like to **change** my OAL line type (I specify the technical specifications of the new line in section 5 below).
I would like to have my line changed on (CRD):
The line code number is:

CEASE

- 3.3. ☐ I would like to **cease** my OAL line on:
The line code number is:

>> You are kindly requested to always enclose a plan.

4. ADDRESS OF THE OAL END POINTS

4.1. Proximus Service PoP:

4.2. COLOCATION or Customer external site

Colocation room (only for colocation):

Proximus Node (only for colocation):

Customer Name:

Address:

Building:

Floor and room no.:

Postal code and city:

Contact person (Administrative):

Phone number (or GSM):

Contact person (Technical) :

Phone number (GSM) :

Fax number:

Manned site ☐ YES ☐ NO

>> Contact: Please specify an administrative and technical person in the building who is informed about the installation.

5. TECHNICAL SPECIFICATIONS OF THE LINE

5.1. OAL type:

- Standard OAL:

- ☐ 1GE / Proximus sited
- ☐ 10GE / Proximus sited
- ☐ 1GE / Customer sited
- ☐ 10GE / Customer sited
- ☐ 1+1 GE / Proximus + Customer sited
- ☐ 10+10 GE / Proximus + Customer sited

- ☐ 1GE / Backhaul
- ☐ 10GE / Backhaul

- Multichassis OAL:

- ☐ 1+1 GE / Proximus sited (LACP secured)
- ☐ 10+10 GE / Proximus sited (LACP secured)
- ☐ 1+1 GE / Customer sited (LACP secured)
- ☐ 10+10 GE / Customer sited (LACP secured)
- ☐ 1+1 GE / Proximus + Customer sited (LACP secured)
- ☐ 10+10 GE / Proximus + Customer sited (LACP secured)

6. TECHNICAL SPECIFICATIONS OF END POINTS

6.1. Finishing

- New 19" rack to be provided by Proximus (against payment)
- New ETSI rack to be provided by Proximus
- A rack already exists, Proximus only has to supply the following components

Colocation or
Customer
external site

- ☐
- ☐
- ☐

6.2. Patchpanel situation

Place of the patchpanels or racks of the Beneficiary on the ground, in the colocation areas :

6.3. Interface

1. Proximus sited

Optical : GigE type LX ; wavelength 1310nm – SC/APC 8°

☐

2. Customer sited

Optical: GigE type LX ; wavelength 1310nm -

SC/PC

☐

LC/PC

☐

7. CONTRACT DURATION

7.1. Standard contract (minimum 1 year)

☐ 1 year ☐ 2 years ☐ 3 years ☐ 4 years ☐ 5 years

8. ADDITIONAL INFORMATION

Terms and Conditions

Proximus shall provide the Service to the Beneficiary under the conditions and prices set up in the Bitstream xDSL offer.

Drawn up at....., on.

Name and title of applicant.....

Signature,

Appendix E: SNA types

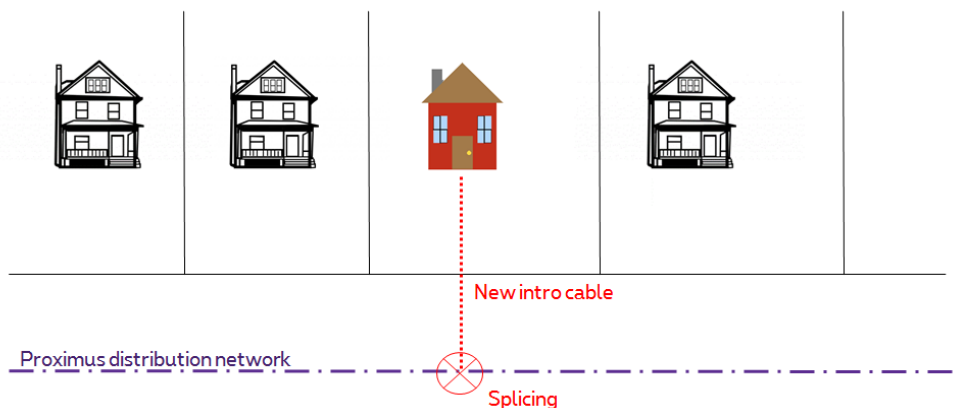
In order to facilitate the understanding of the nature of the splicing work executed in the day-to-day provisioning operations, Proximus will hereby remind and expand upon the four SNA solutions (or types) as set out here-above:

- SNA type 1: Realization of a new introduction in the building/Living Unit of the Beneficiary's End-User;
- SNA type 2: Renewal of the introduction in the building/Living Unit of the Beneficiary's End-User;
- SNA type 3: Splicing additional pairs in the existing introduction splice of the building/Living Unit of the Beneficiary's End-User or any other splicing work (splice adaptation, bridge splice, transition splice, ...) to ensure correct provisioning for this End-User;
- SNA type 4: Moving the existing introduction from an existing Distribution Cable to another existing Distribution Cable.

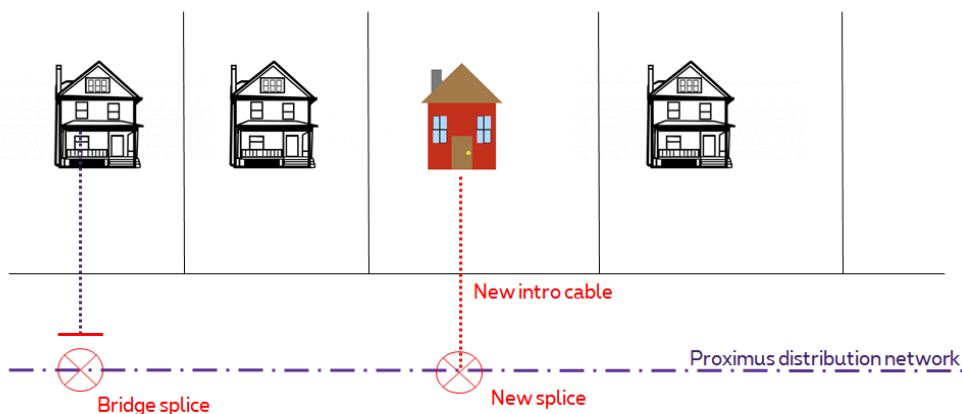
SNA type 1 - Realization of a new introduction in the building/Living Unit of the Beneficiary's End-User

Two sub-types or variants (1A & 1B) can be distinguished as the splicing work will be different:

SNA TYPE 1A



SNA TYPE 1B

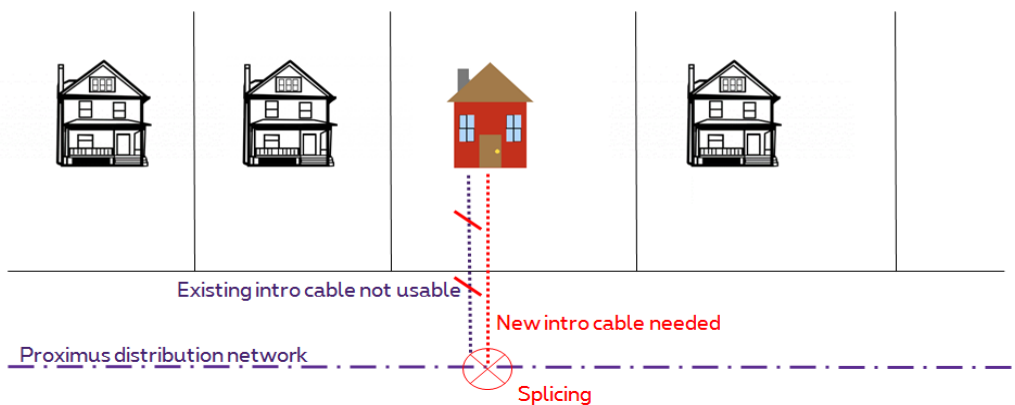


For the sake of clarity, two (2) pits – as e.g. illustrated in the ‘SNA type 1B’ figure here-above – are executed in a certain number of cases. Such SNA variant (i.e. a new splice with in addition a bridge splice aiming at recuperating freed up capacity) is relatively frequent in the Brussels area.

As further documented, other SNA (sub-)types might also require 2 pits. Reference is made to the SNA (sub-)types 3C & 4 hereafter.

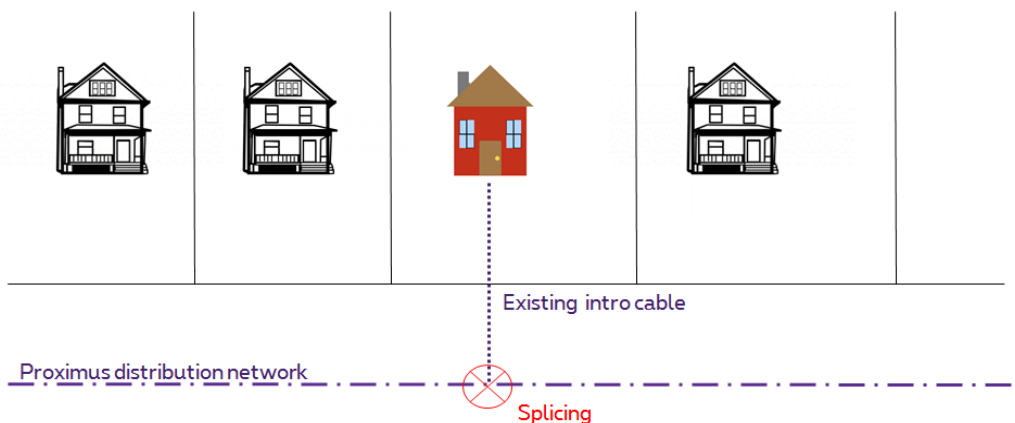
SNA type 2 - Renewal of the introduction in the building/Living Unit of the Beneficiary's End-User

SNA TYPE 2

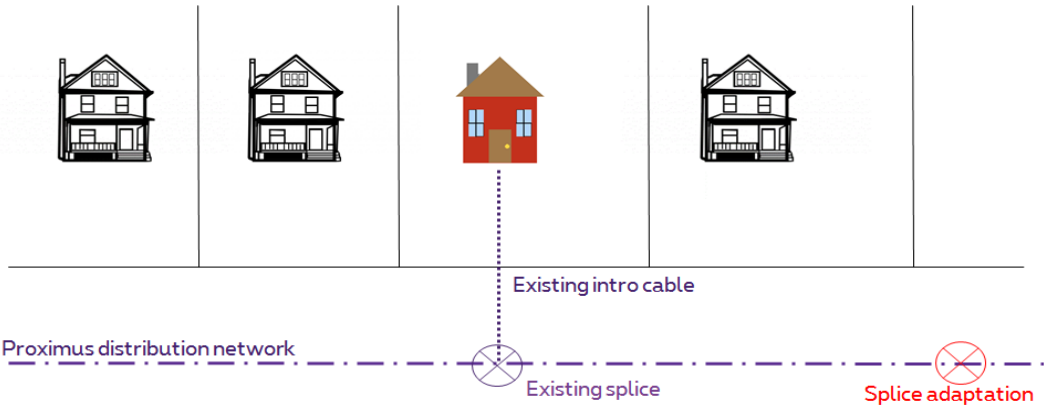


SNA type 3 - Splicing additional pairs in the existing introduction splice of the building/Living Unit of the Beneficiary's End-User or any other splicing work to ensure correct provisioning for this End-User

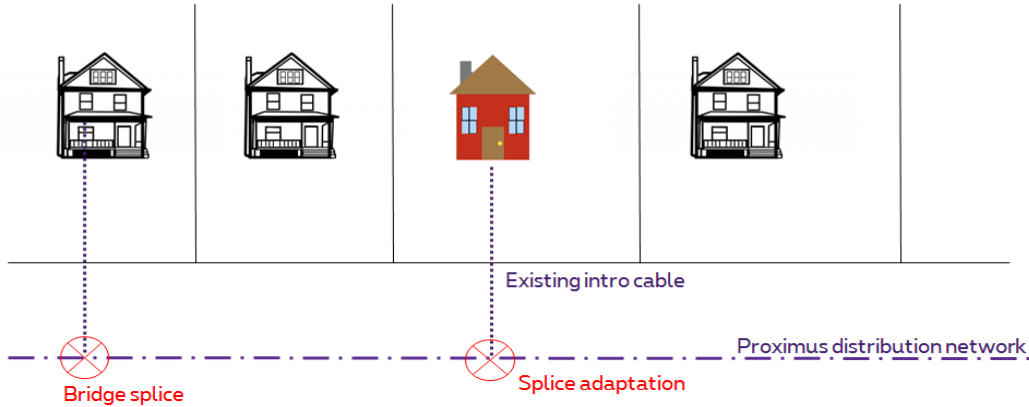
SNA TYPE 3A



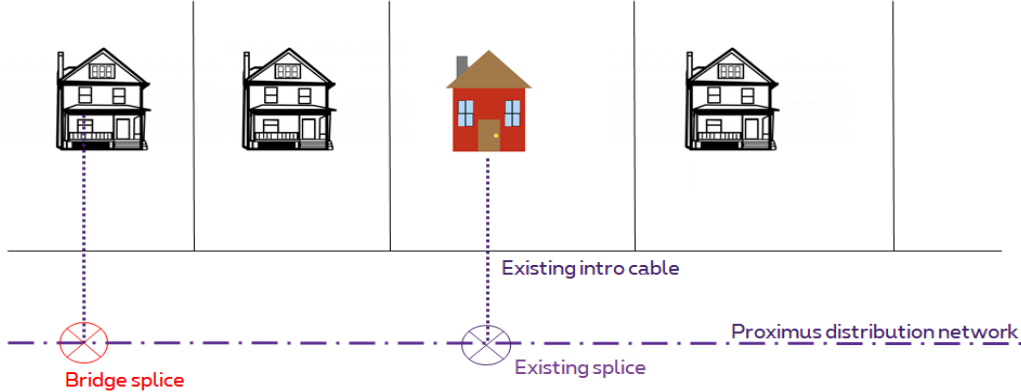
SNA TYPE 3B



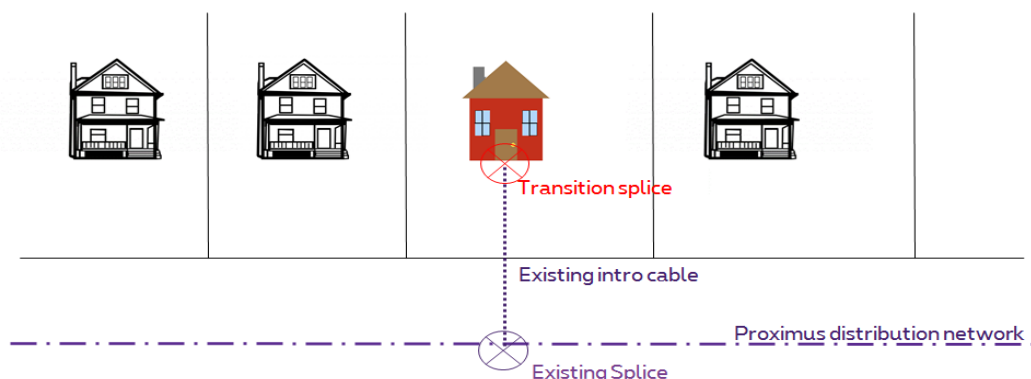
SNA TYPE 3C



SNA TYPE 3D



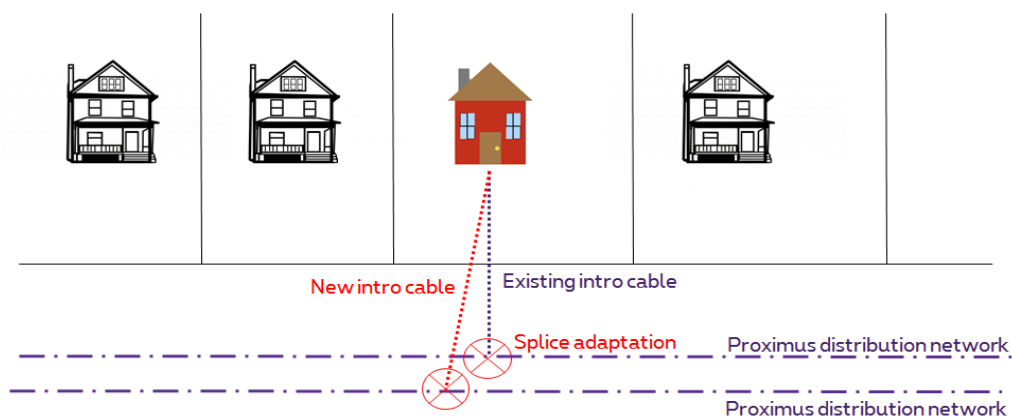
SNA TYPE 3E



For the sake of clarity, a transition splice consists of indoor splicing without digging work (contrary to the other SNA types or variants) to extend the introduction while, as already mentioned above, a bridge splice (also referred to as bridging or “pontage”) entails the recuperation of freed up capacity.

SNA type 4- Moving the existing introduction from an existing Distribution Cable to another existing Distribution Cable.

SNA TYPE 4



For the sake of clarity, this SNA type requires two (2) pits or, in some cases, one (1) enlarged pit on the public domain.

The above figures illustrate that the splicing work involved for the 4 SNA types can vary according to the situation encountered by the splicing team in the field. They also help understand that in some cases the End-User might not notice that splicing work has effectively been executed. In this regard, reference is made to the SNA variants 3B, 3D and 3E here-above.

For the avoidance of doubt, Proximus underlines that an SNA always entails at least one splicing task, whether with digging work (all cases except variant 3E and up to max. 2 pits) or without digging work (variant 3E) on the public domain.

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