Bitstream Fiber PON Shared and Single VLAN: New UNI rate limiting Type on XGS-PON

Approved by BIPT on **08/02/2023**

Sensitivity   **Confidential**

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1. **Purpose**

A new UNI rate limiting Type will be introduced on the XGS-PON technology and will be available for the Bitstream Fiber PON Shared and Single VLAN offer.

The present addendum is communicated to the BIPT in order to update the reference offer of Bitstream Fiber PON to reflect these changes.

2. **Scope & planning**

This addendum is applicable to the Bitstream Fiber PON services (with Shared and Single VLANs), as described in the related reference offer.

The present addendum has been communicated to the BIPT in order to become effective as from **26/06/2023** [1].

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[1] Proximus might postpone this date in order to guarantee the quality of the deliverables

3. New UNI rate limiting Type for Shared and Single VLAN

A new UNI rate limiting Type will be introduced in the Bitstream Fiber PON offer for Shared and Single VLAN. This new profile will be named Type 4. Hence, the current Type 4 will be renamed into Type 5. This new Type is applicable on the XGS-PON technology and will therefore be subject to the roll-out of the new XGS-PON technology.

4. Ordering and provisioning process

This update does not have any impact on the ordering process, nor on the communication flows during the ordering and provisioning of the updated Fiber PON services as described in the prevailing version of the Bitstream Fiber PON Reference Offer (version 6 – SLA compensation).

The UIDs to use for the ordering remain the same for the existing UNI rate limiting Types and the new UID for the new UNI rate limiting Type will be documented in the detailed IT protocol of the June 2023 release.

5. E-Tools

This update does not have any impact on the pre-check tools.

6. Fault reporting and repair process

This update does not have any impact on the fault reporting and repair process, nor on the communication flows during the fault reporting and repair process of Fiber PON services.

However, it is expected that the new XGS-PON technology adds complexity to the repair process. In this regard, it will notably be important to ensure that the electrical connectivity after the ONT is of carrier grade quality to guarantee flawless high speed multi-Gbps throughputs (OLO responsibility).

7. Pricing

The tables below show the Monthly Rental fee (access) and the fix Transport fee applicable to the new Type 4 profile. This addendum has no impact on the pricing of the already existing profiles.

The monthly rental fee for the UNI rate limiting Type 4 will be:

Access Type	Monthly Rental (access)
Type 4	€37,00

The fix transport fee applicable to the new Type 4 End-User line will be:

Fix Transport fee	Type 4
Speeds Mbps (Down / Up)	2500/1000
Transport fee (PO, per End-User line)	€7,00

8. Impact on the regulated offer

8.1 Adaptation on the Bitstream Fiber PON documents

The sections of the Bitstream Fiber PON offer documents which are impacted by this addendum are indicated in the subsequent paragraphs (changes are highlighted in pink). These adaptations refer to the Bitstream Fiber PON reference offer (version 6 – SLA compensation), communicated to the BIPT on 09/12/2022.

Annex 2 – Technical Specifications

In section 8.5.1 Shared VLAN :

Rate limiting per VLAN at UNI
A rate limiting is applied in upstream and downstream, on the flows of the UNI, as described in Table 2 below.
The burst size of the rate limiter on the UNI-interface for the P5 service class is 22500 octets of contiguous packets in the upstream.

Profile In Mbps^2	P0 + P1 Max DS/Max US	P3 Max DS/Max US	P5 Max DS/Max US
Type 0	50/10	65/2 (Unicast)	12/12
Type 1	150/50	65/2 (Unicast)	12/12
Type 2	500/100	65/2 (Unicast)	12/12
Type 3	1000/500	65/2 (Unicast)	12/12
Type 4	2500/1000	65/2 (Unicast)	12/12
Type 5	8500/1500	65/2 (Unicast)	12/12

Table 2: Rate limiting types - Shared VLAN

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^{2} The speed profiles are up to, without guarantee that the max speed is reached at all times.

In section 8.5.3 Single VLAN :

Profile In Mbps[3]	Sum of pbits Max DS/Max US
Type 0	127/24
Type 1	227/64
Type 2	577/114
Type 3	1000/514
Type 4	2500/1014
Type 5	8500/1514

Table 5: Rate limiting types - Single VLAN

Annex 5 – Pricing, Compensations and Billing

In section 2.2.1.4 Ethernet Transport per End-User line:

	Type 0	Type 1	Type 2	Type 3	Type 4	Type 5
Speeds Mbps (Down / Up)	50/10	150/50	500/100	1000/500	2500/1000	8500/1500
Transport fee (PO, per End-User line)	€0,80	€1,40	€2,00	€6,00	€7,00	€10,00

[3] The speed profiles are up to, without guarantee that the max speed is reached at all times.

In section 2.3.4.1 Monthly Rental of an End-User line with Shared VLANs/Single VLANs:

The Beneficiary has to pay the following monthly rental fee for every activated End-User line.

Access Type	Monthly Rental
Type 0	€19,00
Type 1	€23,00
Type 2	€28,00
Type 3	€30,00
Type 4	€37,00
Type 5	€44,00

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