



Addendum to Bitstream Fiber PON

# Bitstream Fiber PON Shared and Single VLAN: Updated and New UNI rate limiting Types on XGS-PON

Approved by BIPT on 25/11/2024

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 upload speed of the existing Type 4 and Type 5 will also be increased.

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 **01/03/2025**<sup>1</sup>.

<sup>1</sup> 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 5b. The current Type 4 and Type 5 will have their upload speed increased.

An overview of all profiles on Shared and Single VLAN that will be available as of the launch can be found in the table below:

Access Type	Speed (down/up) <sup>2</sup>
Type 0	50/10 Mbps
Type 1	150/50 Mbps
Type 2	500/100 Mbps
Type 3	1/0,5 Gbps
Type 4	2,5/2,5 Gbps
Type 5	8,5/2,5 Gbps
Type 5b	8,5/8 Gbps <sup>3</sup>

<sup>2</sup> Note that in general all PON speed profiles are always up to, without guarantee that the max speed is reached at all times.

<sup>3</sup> As the product is still in development and testing did not start yet, the maximum upstream speed of the new Type 5b profile at launch date might differ from the maximum speeds as shown in the table.

## 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 6.3 – Addenda integration).

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 February 2025 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 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 5b profile. This addendum has no impact on the pricing of the already existing profiles.

The monthly rental fee for the UNI rate limiting Type 5b will be:

Access Type	Monthly Rental (access)
Type 5b	€49,00

The fix transport fee applicable to the new Type 5b End-User line will be:

Fix Transport fee	Type 5b
Speeds Mbps (Down / Up)	8500/8000
Transport fee (PO, per End-User line)	€10,00

## 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 6.3 – Addenda integration), communicated to the BIPT on 17/05/2023.

#### 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 <sup>4</sup>	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	2500/2486	65/2 (Unicast)	12/12
Type 5	8500/2486	65/2 (Unicast)	12/12
Type 5b	8500/8000	65/2 (Unicast)	12/12

Table 2: Rate limiting types - Shared VLAN

<sup>4</sup> 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 <sup>5</sup>	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	2500/2500
Type 5	8500/2500
Type 5b	8500/8014

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	Type 5b
Speeds Mbps (Down / Up)	50/10	150/50	500/100	1000/500	2500/2500	8500/2500	8500/8000
Transport fee (PO, per End- User line)	€0,80	€1,40	€2,00	€6,00	€7,00	€10,00	€10,00

<sup>5</sup> 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	€27,00
Type 3	€29,00
Type 4	€35,00
Type 5	€44,00
Type 5b	€49,00

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