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# Description of QoE metrics

## Netflow

| Metric                       | Description  | Values                               |
|------------------------------|--|--------------------------------------|
| Octet delta                  | Traffic difference (bytes) at the beginning and end of the specified period  |                                      |
| Fragmented packets delta     | Difference of IP packets divided into parts/fragments at the beginning and at the end of the specified period  |                                      |
| RTT                          | Round-trip time is the time taken to send the signal plus the time it takes to confirm that the signal has been received.<br>This round-trip time therefore consists of the time it takes to transmit a signal between two points within a single flow.<br>All network activity within a source/destination socket (source IP:port /destination IP:port) is taken as a flow in DPI |                                      |
| Source AS                    | AS host number   |                                      |
| Destination AS               | Subscriber's AS number   |                                      |
| Post nat source IPv4-address | An IP address converted from private to public by NAT to communicate with external devices and access the Internet   |                                      |
| Post nat source port         | A port converted by NAT from private to public for communicating with external devices and accessing the Internet  |                                      |
| Vchannel/Bridge              | Vchannel — vChannel number.<br>Bridge — number of the bridge through which the traffic goes  |                                      |
| Service class                | Traffic classes cs0 — cs7. For more details see Traffic class allocation for a tariff plan   | 0 — cs0<br>1 — cs1<br>...<br>7 — cs7 |

| Metric  | Description       | Values  |
|---|-------------------|---|
| Receiver IP-interface index and Sender IP-interface index | Traffic direction | <p>1 — to whom traffic is directed;<br/>2 — where the traffic comes from.<br/>Example:<br/>The first option is outbound traffic;<br/>The second option is inbound traffic.</p>  |

## Clickstream



All Clickstream metrics are defined for HTTP traffic only.  
Metrics for HTTPS traffic cannot be defined because it is encrypted.

| Metric         | Description  | Values  |
|----------------|--|---|
| Path           | The address to which the subscriber went   |   |
| Referer        | The resource from which the request came.<br>Used for redirection: the address from which the user went to the redirection page is memorized |   |
| User agent     | Allows you to understand from which device the request was made  |   |
| Method         | Server request method  | 0 — undefined<br>1 — GET<br>2 — POST<br>3 — PUT<br>4 — DELETE |
| Result code    | The HTTP code that the server returned   | 200 — OK<br>400 — Forbidden                                   |
| Content length | How many bytes of information the server returned in response to the request   |   |
| Content type   | Content-Type in HTTP, used to define the MIME type of a resource   |   |
| Locked         | Bitmask, contains an indication that the resource has been blocked or redirected   | 0x3 for HTTP<br>0x1 for the rest                              |

| Metric    | Description | Values   |
|-----------|-------------|--|
| Host type |             | 1 for HTTP<br>2 — CNAME<br>3 — SNI<br>4 — QUIC |