

Appendix 3

TRAFFIC MEASUREMENT METHODS



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Approved by the Namex Board of Directors

1. Purpose

This Appendix describes the operational method used to measure traffic based on the calculation of the 95° percentile, for the purpose of assessing the capacity utilization of connections.

2. Definition of the 95° Percentile

The 95° percentile represents the traffic value below which 95% of the measurements recorded during a given observation period fall.

The calculation is performed by excluding the highest 5% of values, in order to reduce the impact of temporary peaks that are not representative of actual capacity utilization.

3. Measurement Method

Traffic is measured on each connection interface, with inbound (ingress) and outbound (egress) traffic considered separately.

For each sampling interval, the average traffic value is recorded.

4. Operational Parameters

Unless otherwise specified, the following parameters shall apply:

- Sampling interval: 5 minutes;
- Observation period: monthly;
- Unit of measurement: bits per second (bps);
- Reference value: the higher of the inbound and outbound traffic for each sampling interval.

5. Calculation Method

The 95° percentile is calculated according to the following steps:

1. Collection of traffic samples throughout the observation period;
2. Sorting the values in ascending order;
3. Removal of the highest 5% of values;
4. Identification of the highest value among the remaining values.

The value thus obtained represents the reference traffic for the period under consideration.

6. Handling of Anomalous Data

In the event of missing, incomplete, or anomalous data, technical criteria for data exclusion or correction may be applied in accordance with established operational practices.

7. Use of the Calculated Value

The traffic value calculated using the 95° percentile may be used for:

- Assessing the level of capacity utilization of the connection;
- Identifying saturation conditions or suboptimal utilization;
- Supporting technical and operational decisions relating to network management.

8. Updates

The operational parameters and calculation methods described in this Appendix may be updated in response to technological developments and operational requirements.

Any changes will be communicated to the Participants through appropriate means.