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| Project | IEEE 802.16 Broadband Wireless Access Working Group < http://ieee802.org/16 > | |
| Title | Clarification for Aggregating the QoS Requirements within a Tunnel | |
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| Re: | Call for Technical Comments Regarding IEEE Project (IEEE 802.16j-07/013r2) | |
| Abstract | This document clarifies how to aggregate the QoS requirements for a tunnel | |
| Purpose | To incorporate the proposed change into the P802.16j Baseline Document (IEEE 802.16j-06/026r4) | |
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Clarification for Aggregating the QoS Requirements within a Tunnel

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Description

The current baseline document C80216j-06_026r4 indicates that the QoS parameters of a tunnel are an aggregate of the QoS requirements of the individual service flows within a tunnel. However, how to aggregate the QoS requirements is not clear. This contribution clarifies how to aggregate the QoS requirements of the individual service flows for a tunnel.

Proposed Text

6.3.14.10 Tunnel Service Flows

[Modify the last paragraph and add a table at the end of this subclause]

When a new service flow is created, use of a tunnel is optional. If use of a tunnel is specified, then the MRBS determines whether the service flow should traverse a tunnel that exists between them (if such a tunnel has been established). If the service flow is to traverse the tunnel, the MR-BS or Access RS modifies the QoS parameters of the tunnel to include QoS requirements of the service flow. The QoS parameters of both the tunnel and service flow are sent as part of the connection setup messages (DSx messages). The Access RS and MR-BS use the QoS parameters of both the individual service flow and the tunnel in performing admission control and resource reservation. The QoS parameters of a tunnel are an aggregate of the QoS requirements of the individual service flows admitted into the tunnel. [The values of aggregated QoS parameters for a tunnel are listed in the table XXX.](#) Intermediate RSs only deal with supporting the aggregate QoS requirement of the tunnel. They do not have knowledge of the requirements for individual service flows, and therefore may ignore them.

[Table xxx — The value of aggregated QoS parameters admitted into a tunnel](#)

| Name | Aggregated Value |
|--|---|
| Traffic Priority | The highest priority among all the service flows' traffic priority admitted into a tunnel |
| Maximum Sustained Traffic Rate | Sum of all the service flows' maximum sustained traffic rate admitted into a tunnel |
| Maximum Traffic Burst | Sum of all the service flows' maximum traffic burst admitted into a tunnel |
| Minimum Traffic Burst | Sum of all the service flows' the minimum traffic burst admitted into a tunnel |
| Minimum Reserved Traffic Rate | Sum of all the service flows' minimum reserved traffic rate admitted into a tunnel |
| Maximum Latency | Minimum value among all the service flows' maximum latency values admitted into a tunnel |
| Tolerated Jitter | Minimum value among all the service flows' tolerated jitter values admitted into a tunnel |
| Unsolicited Grant Interval | Minimum value among all the service flows' unsolicited grant interval values admitted into a tunnel |
| Unsolicited Polling Interval | Minimum value among all the service flows' unsolicited polling interval values admitted into a tunnel |