

Sample Formulas for Usage Metrics for the SRC-VTA

Table 1 on page 1 provides examples of usage formulas.

Table 1: Examples of Formulas That Calculate Use of Network Resources

Formula	Description	Function
return <upStreamBytes> + <downStreamBytes>	Number of bytes sent and received by the subscriber.	Tracks volume of data that the subscriber transfers.
return 2* <upStreamBytes> + <downStreamBytes>	Twice the number of sent bytes plus the number of received bytes.	Allows higher charges for subscribers who are operating servers.
return <interimTime>	Time the subscriber is connected.	Tracks time that the subscriber connects rather than volume of data transfer.
return <downStreamBytes> / <interimTime>	Rate of downstream data transfer.	Allows higher charges for higher transfer rates.
QuotaInternet formula: return <upStreamBytes> + <downStreamBytes> – (<upStreamPackets> + <downStreamPackets>) * 20 QuotaLocal formula: return (<upStreamBytes> + <downStreamBytes> – (<upStreamPackets> + <downStreamPackets>) * 20) / 2	Formulas for separate, complementary services in a single VTA. The following expression returns the total number of bytes in the IP headers of packets uploaded and downloaded by the service, and as such is not subscriber data. It is not counted as usage. (<upStreamPackets> + <downStreamPackets>) * 20	Provides support for two services: QuotaInternet for Internet service and QuotaLocal for local service. Allows higher charges for Internet service than for local service. By allocating a fixed usage limit for both services to each subscriber, encourages subscribers to access local resources due to decreased cost.

