Staselog
Ensuring Network Traffic

Enabling VoIP in Wireless LANs

Quality of Service required

Mobile internet telephony (VoIP) in wireless networks (WLANs) may experience problems in sound quality due to aggressive P2P traffic sharing the same bandwidth with VoIP. Bandwidth management applied locally at each base station provides a static solution which is unable to optimize the use of the total bandwidth.

Staselog Network Equalizer™

Remote congestion solving

Staselog's solution is to model the architecture of the network, which enables solving congestion remotely from one place. A single device can thus replace thousands of local bandwidth control devices. Bandwidth can be borrowed dynamically from one location to another without complex interaction methods. This solution works well both in wired and wireless networks.

Powerful, yet easy to use

Staselog's advanced technology maintains high throughput also when extremely demanding bandwidth management is required. Staselog's unique XML- interface enables traffic control and measurement to be easily integrated into the existing network management.

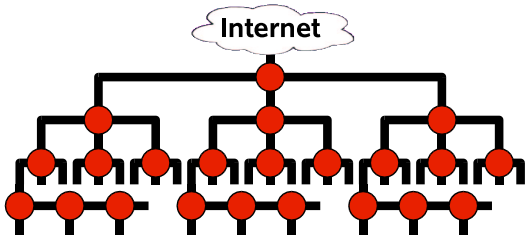

FIG. 1: POSSIBLE BOTTLENECKS IN A NETWORK
A bottleneck causing traffic congestion may occur whenever two or more parts of a network are joined together. The traffic input may exceed the output capacity (A+B+C>D) in a merging point, such as a base station in case of a wireless network. Solving the congestion requires local bandwidth management at each bottleneck (the red spots in the Figure).

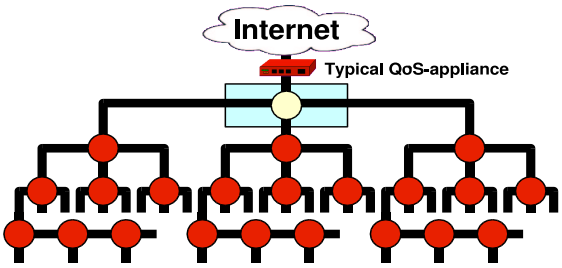

FIG. 2: APPLICATION-BASED BANDWIDTH MANAGEMENT
A QoS-router or a typical bandwidth management appliance is capable of solving congestion in one local place only. If congestion free bandwidth is needed between two points, two units are required. Virtually, this makes packet-switched traffic to circuit-switched and requires a large number of units in large networks. Futhermore, optimizing the total performance would require complex interaction between the units.

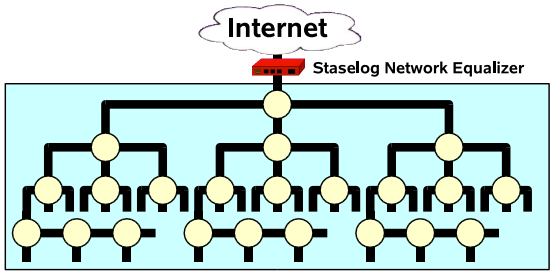

FIG. 3: THE QOS SOLUTION BASED ON BOTH NETWORK STRUCTURE AND CRITICAL TRAFFIC CONTROL
Staselog provides simple means to model network topology in the bandwidth management appliance. This enables one to remotely control all the network's bottlenecks from a single place and to optimize the network's total performance dynamically without complex arrangements.

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