

Cross-layer and Cross-Domain QoS signalling using BGP

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A new IETF draft is currently drawn up, which introduces a new mechanism for QoS signalling across networking layers and networking domains. It will be available by the end of May and shall be presented and explained during the EuroView symposium.

The draft uses BGP to signal QoS class markings and link selection of different layers across networking domains. It addresses the need for consistent QoS class dependent forwarding treatment of packets and frames. Routing and forwarding strategies applied on different network layers (L4, L3, L2 and L1) within a network domain are made publicly visible and adjustable. The talk will outline the basic mechanism for the BGP signalling extension as well as the QoS handling strategies, which are enabled through this mechanism.

The presented draft will be applicable to existing Internet setups and will certainly broaden the view on QoS handling strategies in Future Internet.