

Inter-Domain Traffic Engineering and QoS: Key Aspects and Challenges

Abstract

This talk will focus on the importance of inter-domain TE and QoS (Quality-of-Service), how these differ from intra-domain TE and QoS, and what some of the main issues/challenges are in realizing them involving provider networks today.

Starting with some key provider requirements, we will briefly review the currently discussed options for signalling, path computation, and distribution of TE information for inter-domain TE and QoS in bodies such as the IETF (Internet Engineering Task Force).

We will then discuss various technical challenges for QoS and TE in the inter-domain context.

During the talk, and in the subsequent discussions, we will attempt to highlight our view of some of the technical and commercial aspects of carrier interconnect strategies in various parts of the world (e.g. the US, South-Asia, and Europe), based on our work with and/or interactions with members of the carrier community in various fora.