DIMENSIONING OF IP NETWORKS –

A STILL INCOMPLETE FRAMEWORK

Thomas Bauschert, Anton Riedl

Abstract

This talk deals with the link dimensioning process for IP traffic and presents a still incomplete framework, giving directions to find appropriate, scenario-specific dimensioning models. We analyze the dimensioning problem for different network and technology scenarios, and summarize important decision variables and design models in form of a decision tree. One part of the material is taken from recent publications, while the other represents the outcome of our own studies. For the case of IP access networks with elastic traffic, the applicability of our theoretical model is validated by simulations.