

Protocol Analysis of VoIP-Systems

Tadeus Uhl
Flensburg University of Applied Sciences
Institute of Communications Technology
Kanzleistr. 91-93
D 24943 Flensburg
uhl@fh-flensburg.de

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Abstract

The focus of this presentation lies in the practical aspects of multimedia communications over IP transport platforms. First, the H.323 standard will be positioned within the ISO-OSI model and discussed briefly. A detailed description of protocol procedures in multimedia communication, measured in a real IP environment, will then be presented. The protocol analyses that were conducted in course of the investigation will be documented in diagrams and evaluated. A further part of the presentation devotes itself to the question of dimensioning at the planning stage of the VoIP service in IP networks and deals with the service's most important parameters, i.e. jitter delay, communication patters and packet loss. The insights gained from the investigation can be considered as useful guidelines for the architecture of IP networks.