**7B3 VoIP Dynamic Resource Allocation in IP the DiffServ Domain: H.323 vs COPS Interworking**

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**Abstract:**

This short paper presents a proposal and its implementation for dynamic resource allocation in a Voice over IP environment in DiffServ core network. In the paper, some interoperability tests are shown to detail the implementation progress. We will show that both the access request to the backbone network and the resource reservation are performed by means of a combination of two signalling protocols (H.323 and COPS). The goal of this short paper is to show that a simple interworking architecture between VoIP and DiffServ can be successfully adopted to provide VoIP users with a scalable and flexible Service Level Agreement scheme. In our proposal, network resources are automatically requested with a combination of the “outsourcing” and the “provisioning” scenario at the call set-up time, avoiding the waste of resources caused by a static SLA definition.