E-learning Media Server Evaluation and its architecture modeling with signaling load tests

Amir Hossein Ashouri¹, Fatemeh Samsami², Ahmad Akbari³

¹²³ Department of Computer, E-learning Center,
Iran University of Science and technology, TEHRAN, IRAN
Amirhossein.ashouri@gmail.com

Abstract
Continuous progress in learning management systems and online courses directs the system developers to exploit high performance media servers. In this paper, we focus on media server evaluation, its architecture modeling and services. As a powerful Open-Source media server we use SEMS for testing, evaluation and development. For the client side, we use an open-source SIP traffic generator called SIPp which is able to generate SIP calls needed for testing the media server. Results show that the server is saturated for a certain value of input call rate. Our result can be exploited for optimizing e-learning media servers.

Keywords
SIP, Media Server, SIPP, SEMS, RTP, signaling process

References