Telecommunication Services Engineering (TSE) Lab
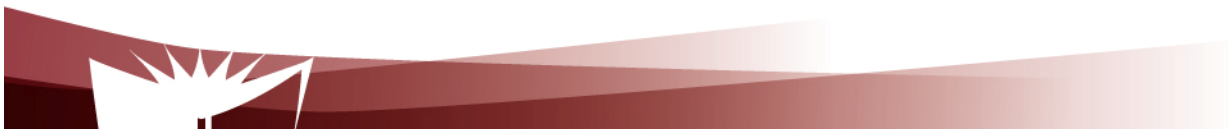
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INSE 7110 - WINTER 2012 - Preview:
Dial-Out Conferencing with Centralized Mixers in NGNs

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Dial-Out Conferencing with Centralized Mixers in NGNs
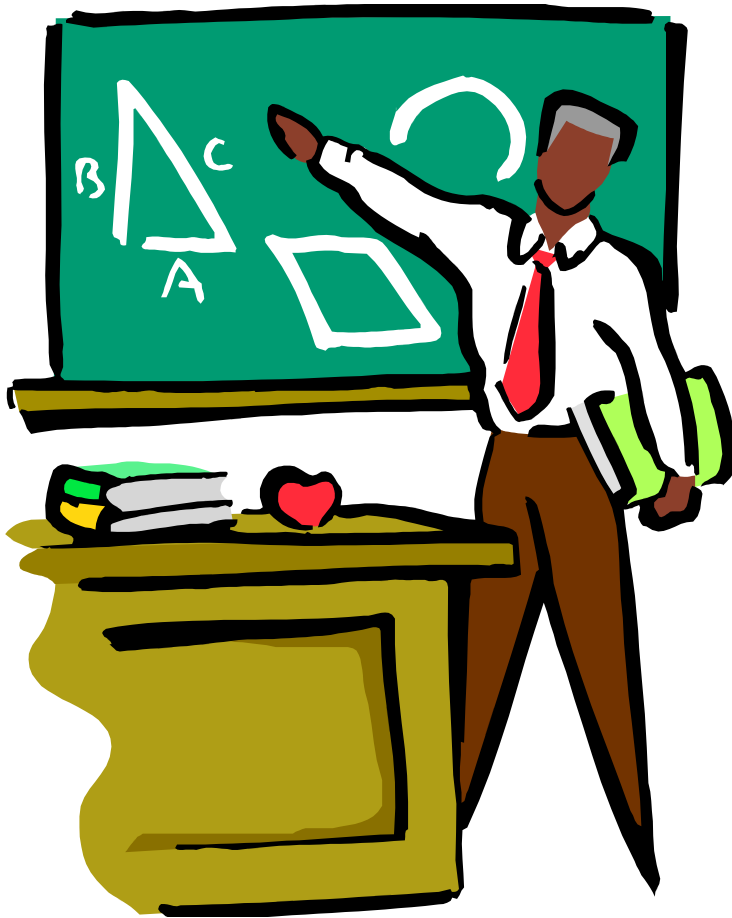
- **1 – Objectives**

- **2. Overview**

- **3 – Groups**

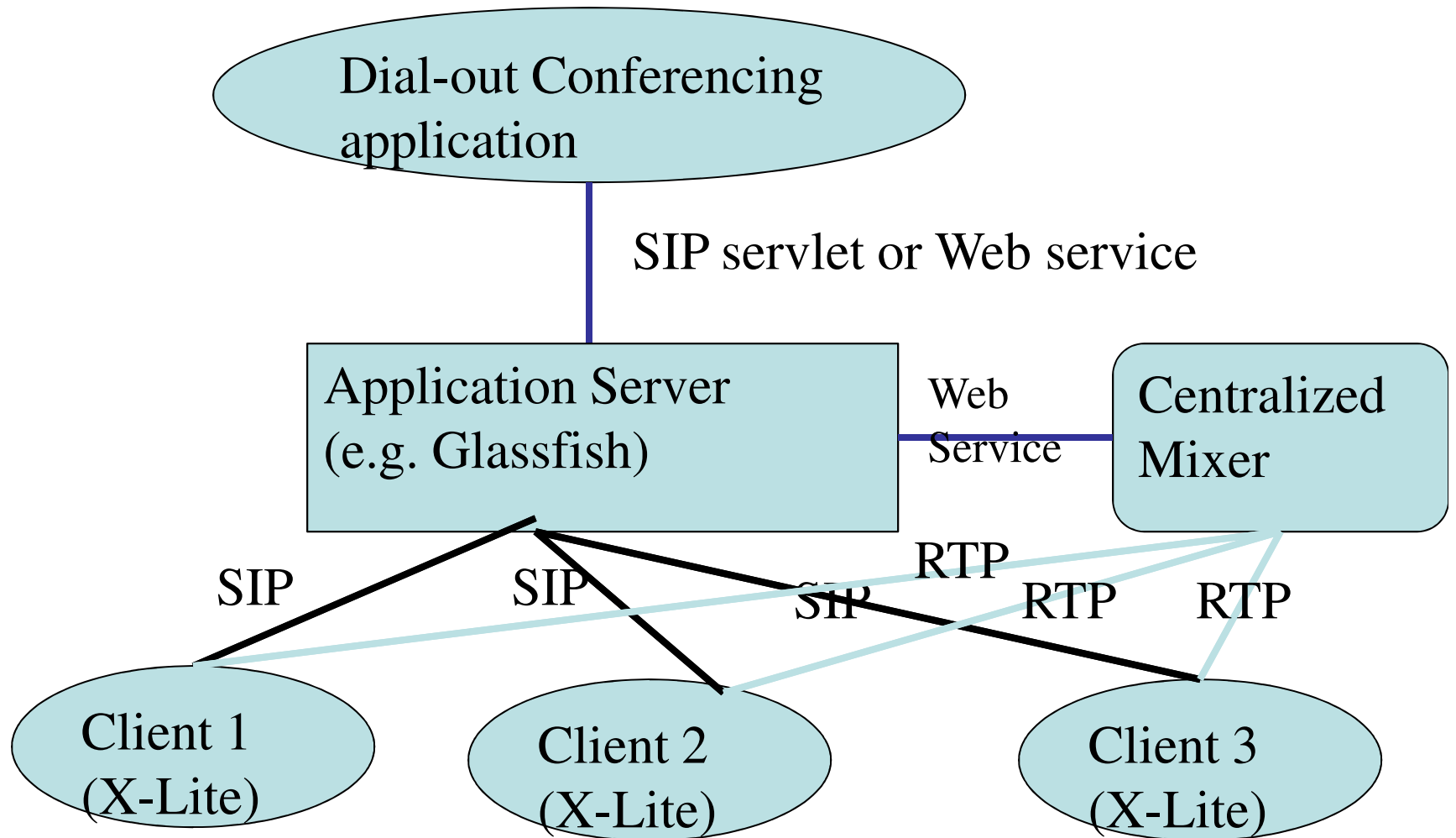- **4. Expected output**

- **5. References**

Objectives

- Learn how to use application servers (e.g. Glassfish) for application development and deployment in NGN environments (e.g. SIP environment)
- Learn how to use/re-use existing NGN user equipments (e.g. SIP X-Lite)
- Learn how to use the key VAS technologies (e.g. SIP servlets, Web services) to develop simple applications
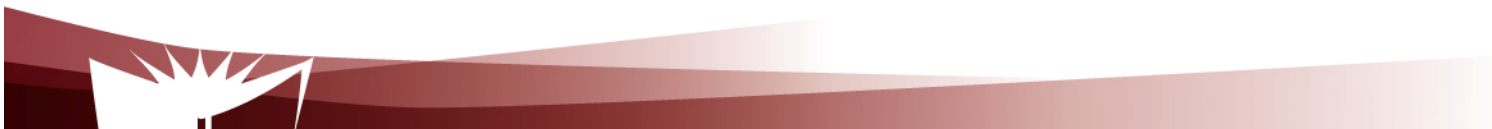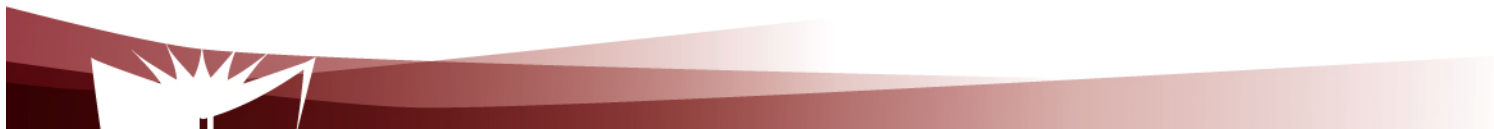- Develop and deploy a concrete application

Overview

Overview

1. Dial-out conferencing application: Consult reference [1] for the semantic
2. Interface between conferencing application and application server (Choice of VAS technology left to student – If RESTFul Web services is used then full model already provided in reference [1])
3. Mapping between conferencing application interface and SIP messages to be done in application server (Suggested application server: Galssfish)
4. Interface between application server and centralized mixer: To be proposed by students (May be RESTFul Web services based or SOAP-Based Web services – Java Media Framework (JMF) is suggested as basis for the mixer)
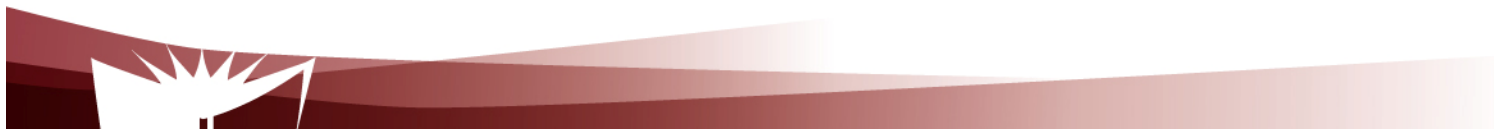5. Clients could be any SIP client (e.g. X-Lite)

Groups

- The project should be done in group of 2
- For customization / personalization students should discuss with course instructor.

Expected output

- Live demo introduced by a short power point presentation (5 slides maximum)
- Report (20 pages maximum)

References

- 1. F. Belqasmi, C. Fu, R. Glitho, RESTful Web Services for Service Provisioning in Next Generation Networks: A Survey, *IEEE Communications Magazine*, December 2011, Vol. 49, No12