

T-110.5140 Network Application Frameworks and XML

12.05.2009 Examination (9-12 in T1)

Choose 3 of the 4 topics below and write essays on them. Each topic has additional questions as hints on what kind of material you should include. Discuss other relevant issues as well. Remember to consider what is important and what is not when writing your essay.

Remember to include the following information in your paper: the course name, date, student ID, name, and signature.

1. Multi-layer security

Is security support needed on multiple layers? How do the security solutions differ? What combinations are useful? What combinations are not useful? Consider also Web services.

2. Web services and message routing

What is the motivation for routing messages and how does SOAP fit into the picture? How does the routing work? What about security and performance?

3. Overlay routing vs. network layer routing

What is overlay routing? What are its characteristics and how does it differ from network (IP) level routing?

4. Host mobility and multi-homing

What are mobility and multi-homing? Give some examples on different types of mobility. What kind of requirements do they put on the IP architecture? What kind of solutions have been proposed? What about HIP and overlays?