

## Peer-to-peer networks – (due till March 4, 2009)

### Exercise 1.1:

Think of advantages and disadvantages of peer-to-peer topologies from the viewpoint of the:

- 1) user
- 2) network provider
- 3) provider of digital content
- 4) state

### Exercise 1.2:

When talking about network technology, people often refer to the 7 layer ISO/OSI network model. To understand different approaches, we will also refer to this model once in a while. Find out about the 7 layer network model and briefly describe the function of each layer.

### Exercise 1.3:

In the lecture we learned, that a significant part of today's Internet traffic can be attributed to file sharing applications. How can a network provider measure the amount of traffic of a particular type? Which problems might occur with such a measurement in general?

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### Exercise 1.4:

In the lecture we will come across the term NAT (Network Address Translation). Briefly explain what NAT is and why it can be a problem for p-2-p software.