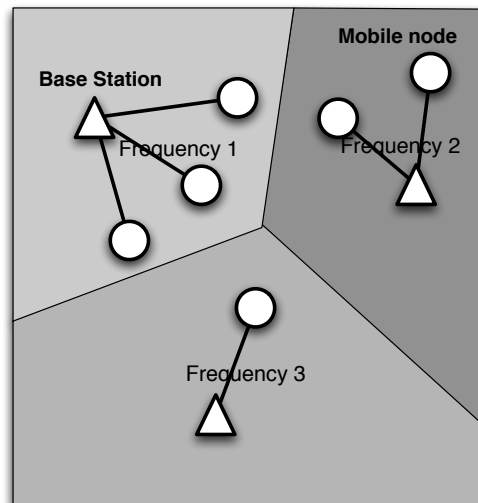


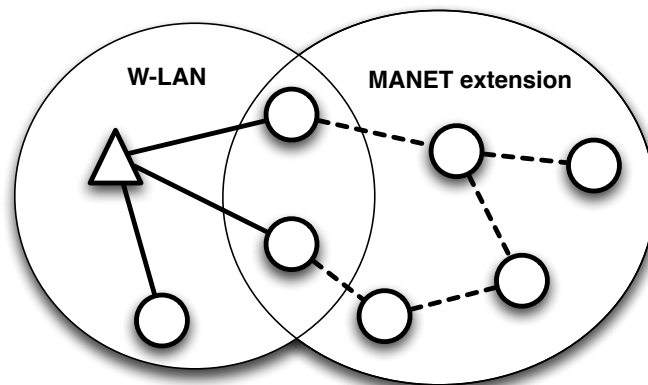
Exercises of lecture
Mobile Ad Hoc Networks
 Summer 2007
 Sheet 1

SECTION 1:

In some cellular networks different frequencies are assigned to neighbored cells. This assignment is done beforehand and all mobile nodes communicate to the cell's central station on the same frequency and avoid radio interferences with the nodes of the neighbor cells. Discuss whether and how such a frequency assignment can be used in mobile ad hoc networks as well.

**SECTION 2:**

Assume that a standard wireless local area network, e.g. IEEE 802.11, should be extended to allow nodes to connect to the base stations over multiple hops.



Which layers in the ISO/OSI layer are affected by this extension? Explain your answers!