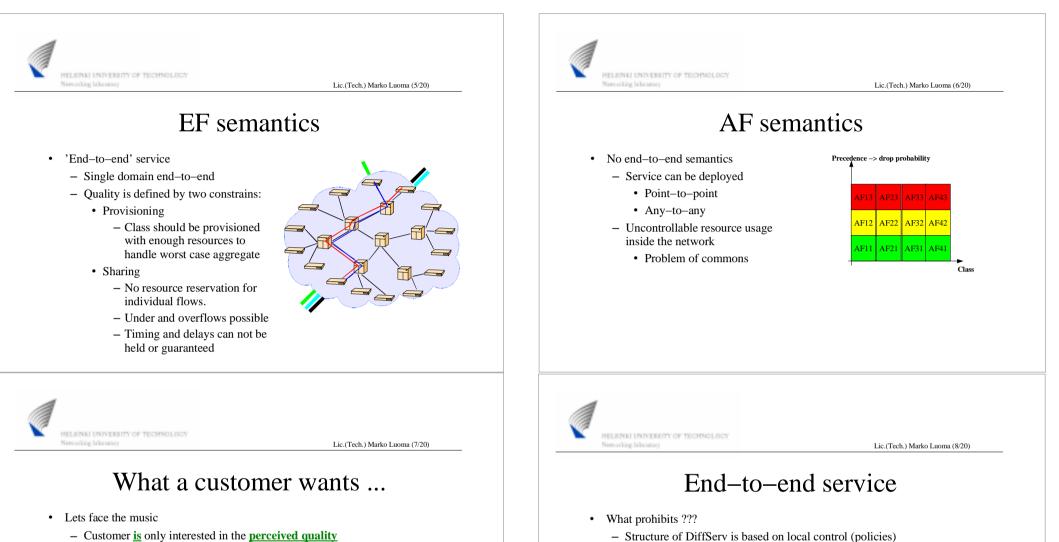


- Access to the network is sold to the customers



- . How this so are calling command
- How things are rolling compared
 - Minute ago
 - Year ago
- Customer is not interested in the novel technology which is behind the service
- This means end-to-end service quality

- <u>Is not</u> within single ISP

• End-to-end

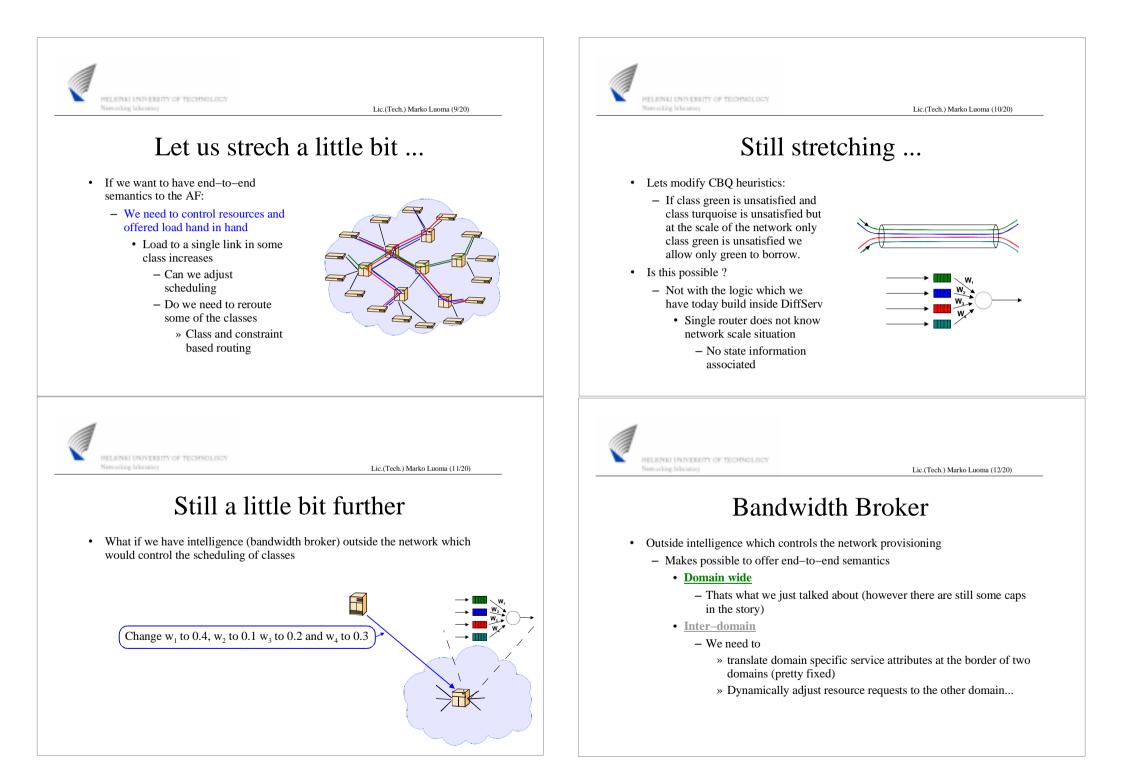
- It is between source and destination

• Classification based on the policies at the edge of the network

• Forwarding based on the policies in the core of the network

- We can stretch through single domain (ISP) with EF

- We may stretch through single domain (ISP) with AF





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Inter-domain issues

- Inter-domain traffic forwarding is based on bilateral of multilateral peering agreements
 - These tend to be business of lawyers and therefore rather static
 - Our demand is varying rapibly and therefore we need to be dynamic
 - · Peering agreements must change to more flexible
 - Rule of thumb: more money -> more lawyers -> more static
 - We need to brake that rule by defining peering more dynamically
 - » One idea: charging should be based on the aggregate traffic in the classes and rate of change requests



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Other issues

- 2Mbps access link is eaily overloaded when both sides have higher capacities
 - Access link is not DiffServ if ISP does not deliver customer premises equipements.
- Corporate LAN may cause service degradation to the traffic passing out the corporate LAN
 - Solution is to use some mechanism to guarantee that traffic is not degraded inside high speed LAN
 - IntServ

