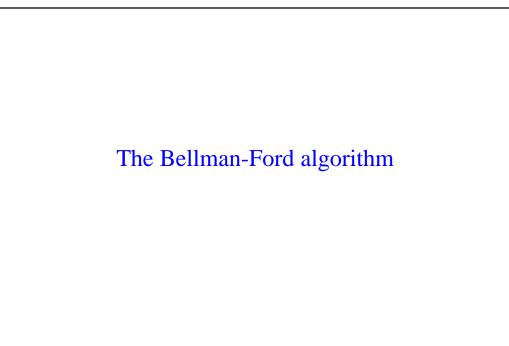


The second method to avoid loops is to use triggered updates

- A triggered update happens when an entry in the routing table is modified (e.g. when a link breaks)
- Triggered updates reduce the probability of loops
- Triggered updates also speed up counting to infinity
- RIP advertises
 - when the refresh timer expires, and
 - when a change occurs in an entry
- Loops are still possible, e.g. because of packet loss

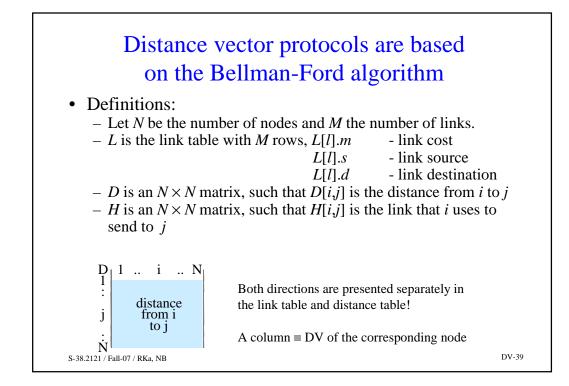
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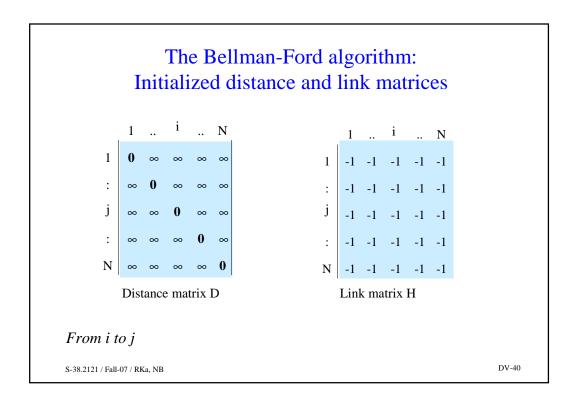


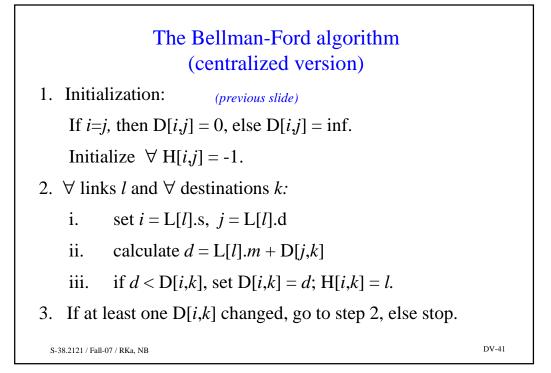
DV-38

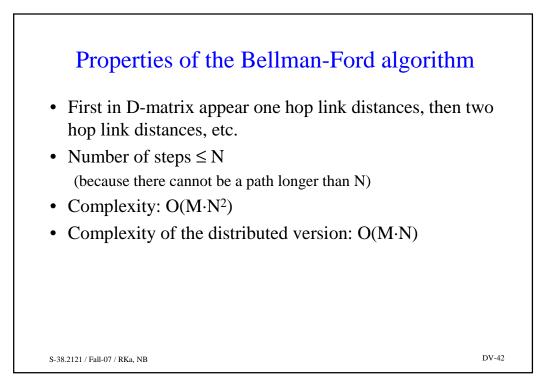
DV-37

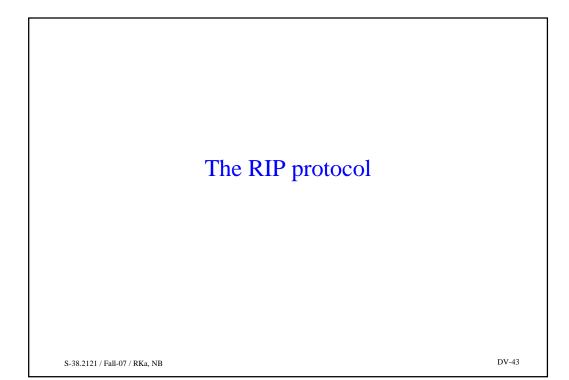
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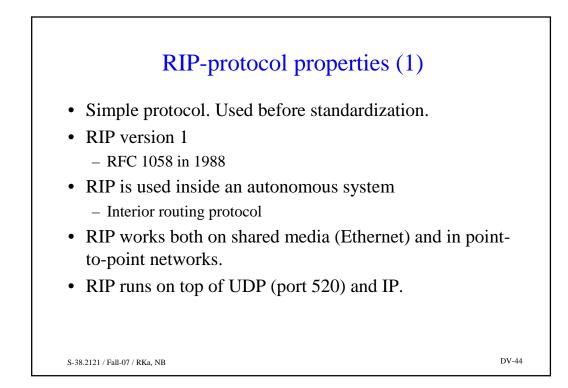


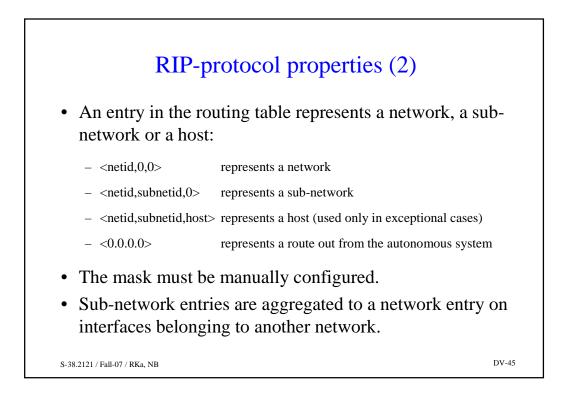


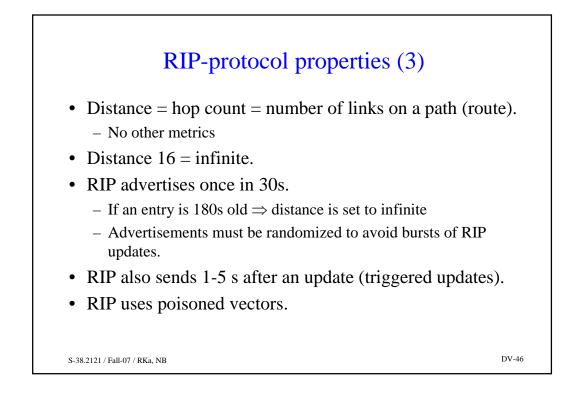


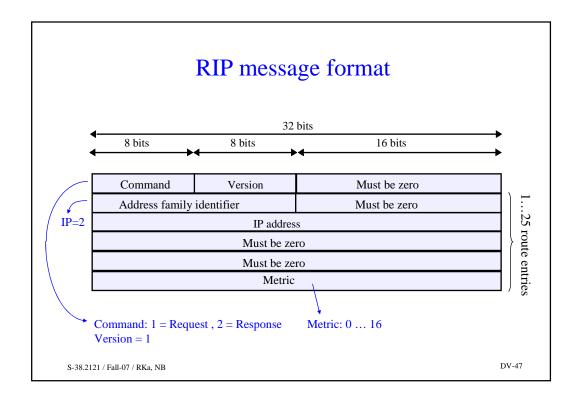


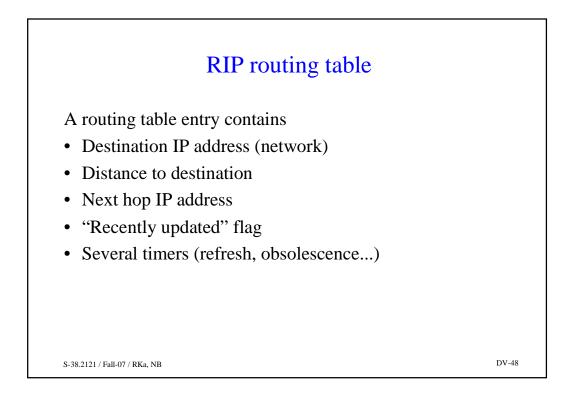


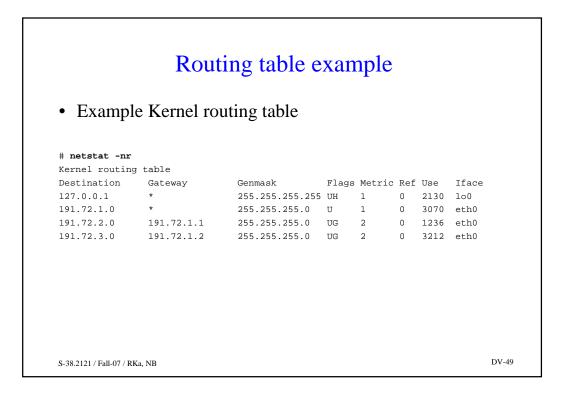


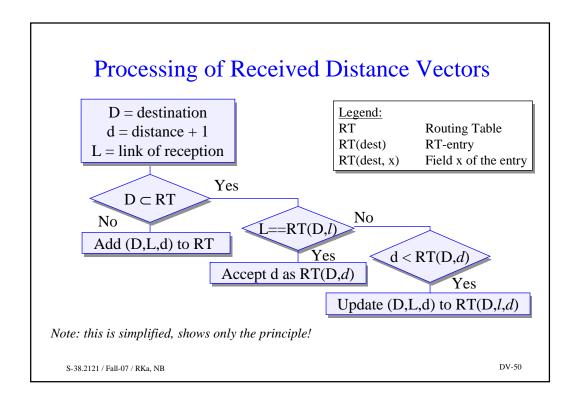












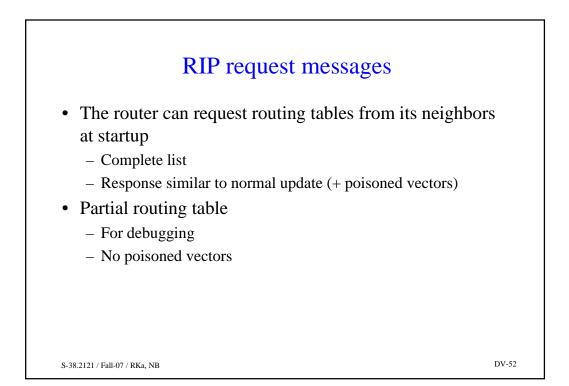
RIP response messages

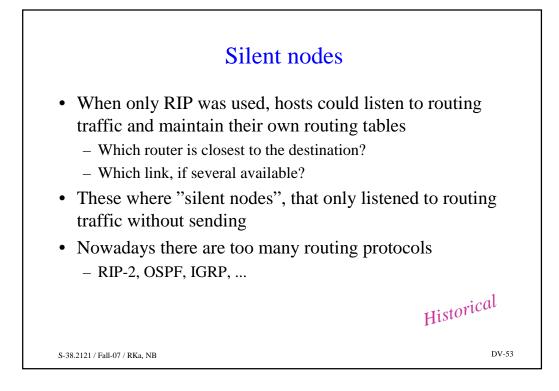
- Distance vectors are sent in response messages
- Periodic updates (30 seconds period)
 - All routing table entries
 - Different DV on different links because of poisoned vectors
 - More than 25 entries \Rightarrow several messages
- Triggered updates after changes
 - Contains changed entries
 - 1-5 seconds delay, so that the message contains all updates that are related to the same change

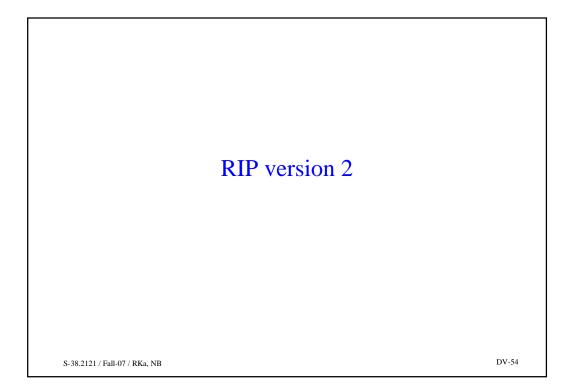
DV-51

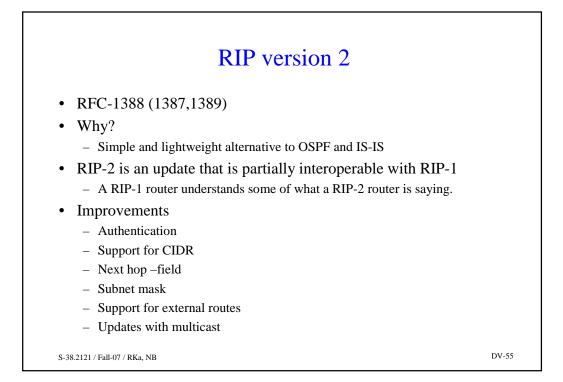
• Destinations with infinite distance can be omitted if the next hop is same as before.

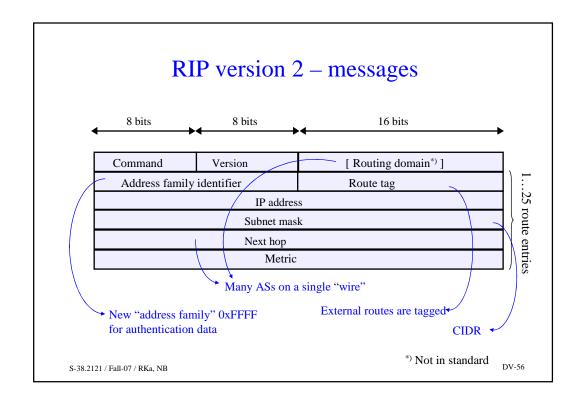
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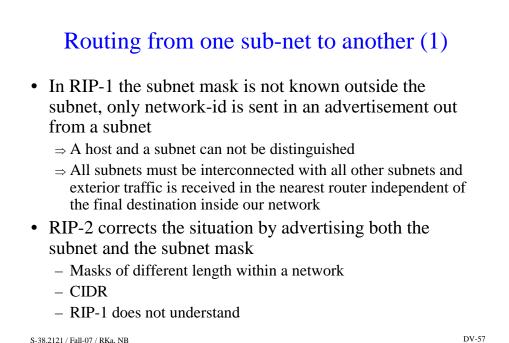












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