

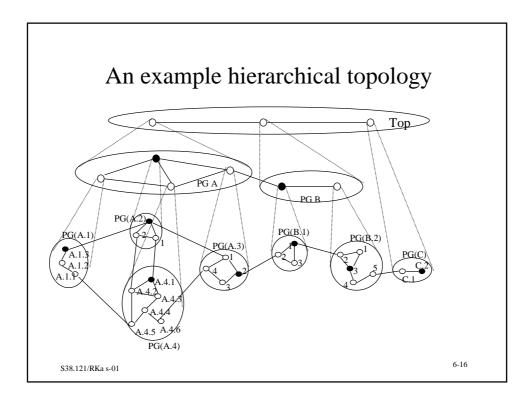
Peer Group Leaders build and maintain group hierarchy

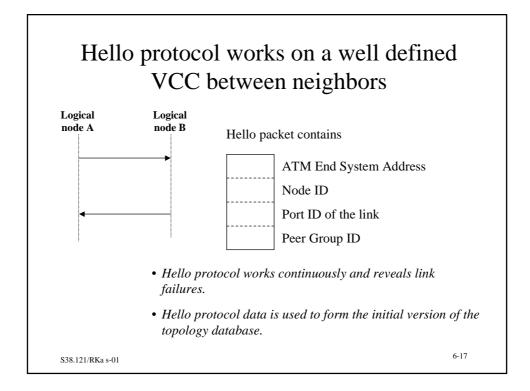
- Bottom level PGLs build their parent peer groups (NOTE: children create their parents!!!)
- Parent peer group has a consistent topology database
- Topology of the parent group is distributed in the child groups
- A PGL is elected in the parent group
- The PGL of the parent group represents the group in the next upper level parent peer group

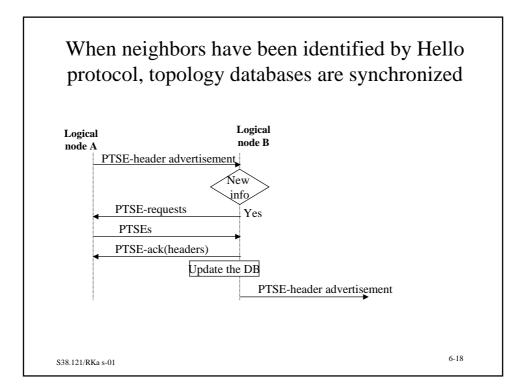
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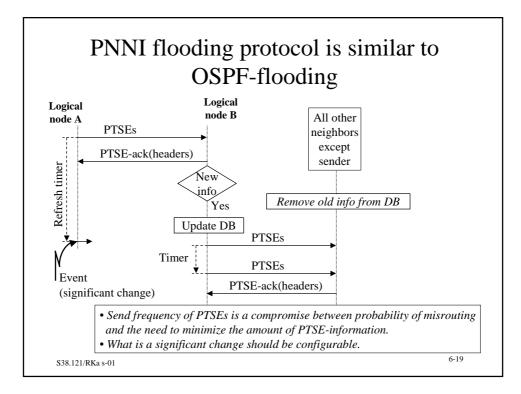
• Key criteria of group membership is longest common address prefix

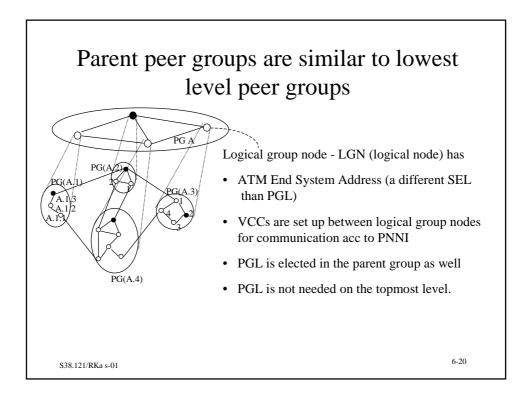
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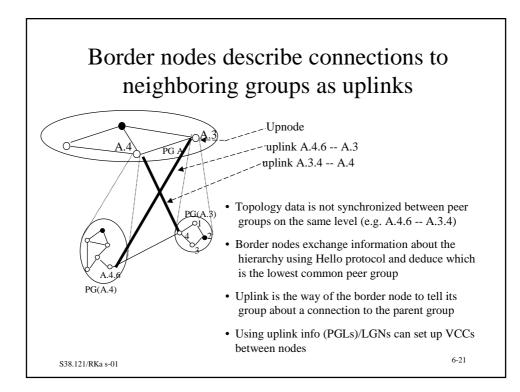


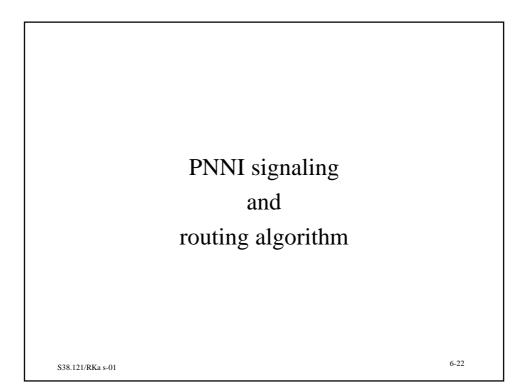


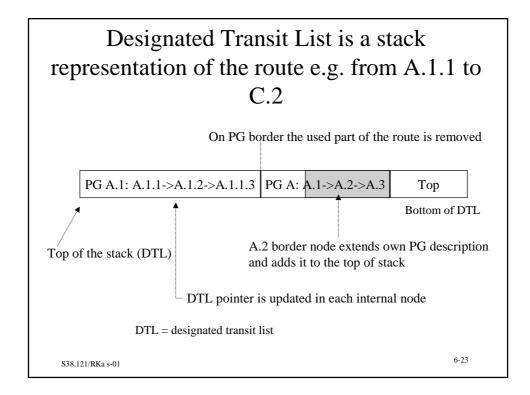


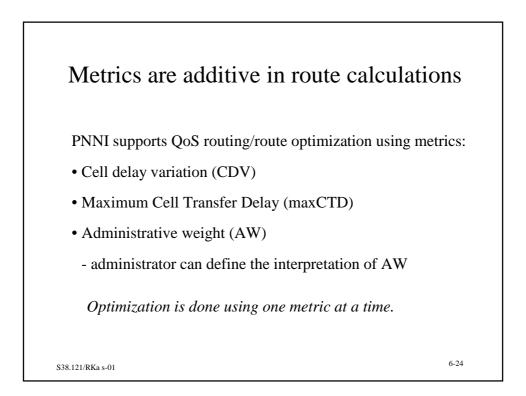


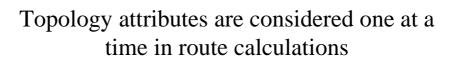




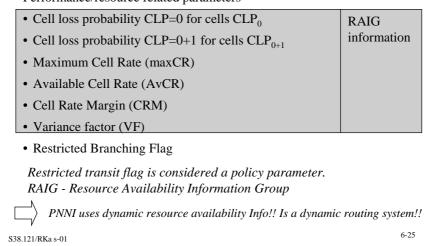


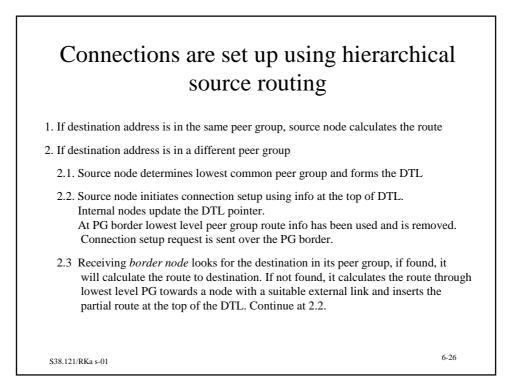


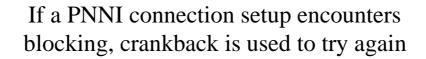




Performance/resource related parameters







- Crankback may become necessary if newest topology information has not been advertised to the node that calculated a portion of the route.
- Because of crankback any node on the path may need to make a routing decision.
- Crankback returns the call in the order determined by DTL.
- Normally crankback continues to a border node, such that the original routing policy can be preserved: First to the closest border node, then until the border node of parent peer group or the source node whichever is closer, etc.

6-27

S38.121/RKa s-01

