

Internetworking Seminar - Topics

□ OSPF and IS-IS Evolution

- short overview
- what kind of modifications have been proposed/done to the base protocols since their introduction
 - focus on the last 5 years or so
- what's the relevance of the modifications?
- source: IETF documents
- difficulty: easyish?, but a lot of reading

□ BGP: The Best Thing Since Sliced Bread?

- short overview of BGP
- brief review how BGP has evolved lately
- a look into whether BGP is a good place to implement FOO functionality (e.g. VPNs), or whether it should be done elsewhere (i.e., the RIFT arguments)
- source: mainly IETF documents
- difficulty: medium? - some reading + understanding req'd

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□ Multicast routing and address allocation

- short overview of multicast routing protocols (PIM, DVMRP, etc.)
- examining the PIM-SM operation in more detail (+ MSDP etc.)
- how addresses are allocated to sites
- how addresses are used by the nodes/apps ("assignment")
- source: knowledge of multicast (whatever the source :-)
- difficulty: rather difficult (multicast is a challenging topic..)
 - but this is still an overview paper

□ Multihoming vs Mobility

- what's the difference?
- how is MIPvX good for mobility, but not for multihoming?
- what are the problems Layer 4 solutions face?
- why are routing-based multihoming solutions equally problematic?
 - source: a lot of different proposals
 - difficulty: medium-difficult; some reading required, and understanding what the solutions solve (and what not)
- **NOTE:** overlaps with Pasi and Sanna's proposed topics!