

RSVP + Traffic Engineering (TE)

Agenda

- In The News: Realizing that technology can make us less productive!
<https://tech.slashdot.org/story/18/02/05/159256/new-digital-technology-can-in-some-circumstances-make-businesses-less-productive>
- Field trip on Fri: Make every effort to be at Nokia by **10:15am**
- Test #1: **Wed Feb 14** (starts at **3pm**); everything to-date in labs; mod 0-4
- Take up any questions from previous lectures and labs
- Review:
 - 7 methods of choosing a path in RSVP-TE
 - 10 Sub-types in Opaque LSA (Mod 5.26); CSPF (5.48,50); ERO (5.53)
- Complete Mod 4
 - RSVP Mod 4 - Four optimizations for managing RSVP sessions
- Continue RSVP-TE, Module 5:
 - Section 4, slide 141+: LDP-over-RSVP
- Coming next:
 - NRS-II 13.4 – loose & strict hops
 - (time permitting) section 2: Basic TE config
- Lab next week: based on Nokia lab 5.3: LDP-over-RSVP

RSVP Path Selection

Seven ways RSVP path selection can be made: (NRS-II refs in brackets)

1. simply follow the IGP (default)
2. TE metrics - admin assigned "cost" - supercedes IGP; in cspf... spec (14.7)
3. bandwidth reservation (several flavours) in the prim or sec spec (15.2)
4. hops specified as "loose" or "strict" in the path specification (13.4)
5. hop limit specified using the hop-limit keyword in the LSP (14.7)
6. admin groups (link colouring; lab 5.1) in the primary... specification (14.7)
7. Shared Risk Link Group (SRLG) – for mutually exclusive prim/sec (16.2)

Configured attributes for these items are:

1. carried in type 10 Opaque LSA (or equivalent in ISIS),
2. stored in **TED**, and
3. used by **CSPF** for generating the **ERO**
("Computed Hops" in **show ... path detail**)