RSVP-TE Labeling and Signaling in support of Flexible Grid

CCAMP WG, IETF 89th, London, UK

draft-farrkingel-ccamp-flexigrid-lambda-label-08.txt

draft-zhang-ccamp-flexible-grid-rsvp-te-ext-04.txt

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Overview

- Two drafts

  - Different origins
  - Separate the different issues

- Define the format of a flexi-grid label in the context of RFC 6205 LSC labels

  - What quantity is switched (Slot Width (GHz) = 12.5 GHz * m)
  - What resource is reserved (Grid= ITU-T Flex)

- Update to traffic parameters (TSpec and FlowSpec) to specify the flexi-grid bandwidth information

- Signaling procedure

  - Basic signaling procedure followed
  - New Objects/parameters need to be used

Changes from Previous Versions

- Ensured consistency between the two drafts

- Updated label and traffic parameter format

  – Changed length of m field to 16 bits for future-proofing

- Added sections on "Implementation Status" (RFC 6982)

  – CTTC

  – More additions planned

- Editorial updates through the draft, including Contributor and Acknowledgment sections

Open Issues and Next Steps

- Should we make the channel spacing more flexible?

    - Currently CS value 5 means channel spacing is 6.25 GHz
    - We could make this a variable parameter
        - Prefer to revisit this using CS value 6 in the future if it becomes an issue

- How do we handle concatenation and virtual concatenation?

    - It seems we already have mechanism in GMPLS(e.g., RFC6344, etc.)

- These should all be questions for the working group (not just the authors)

    - Framework is already a WG draft
    - Time to adopt these two drafts into the WG