

OSPF-TE Extensions for Flex-grid

draft-dhillon-ccamp-super-channel-ospfte-ext-06
IETF-88, Vancouver

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Agenda

- Changes since IETF-83
- Proposal summary
- Next Steps

Changes in V.06

- Ver.06 submitted in Oct'13
- No significant change since IETF-83 (Paris)
- Mainly refresh & editorial cleanups

Proposal - recap

- Meets requirements captured in FWK doc
- Simple extensions to ISCD [RFC 4202]
 - New Switching Capability
 - Flex-Grid extensions in SCSl
- Flex-Grid extensions summary
 - Divide C-band in to ‘Slices’ of certain width
 - Advertise ‘Slice’ availability
 - Support for BW advertisement per priority
 - Support for Min & Max ‘Frequency Slot’ use per LSP

Next Steps

- Time to discuss solution drafts?
- Merge options with other contributions
- Review comments are welcome

Generalized Label for Super-Channel Assignment on Flexible Grid

draft-hussain-ccamp-super-channel-label-06
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Agenda

- Changes since IETF-87
- Proposal - Summary
- Next Steps

Changes in V.06

- Ver.06 submitted in Oct'13
- No significant change since IETF-83 (Paris)
- Mainly refresh & editorial cleanups

Proposal - Summary

- Meets requirements captured in FWK doc for single frequency slot case
- Extends [RFC3471] [RFC6205]
 - Defines a new generalized label format for super-channels assignment on flex-grid networks
- Super-Channel Label extensions summary
 - Allows label assignment for both Contiguous Spectrum and Split-Spectrum Super-Channels
 - Provides three encoding options for the label
 - List of (n, m)
 - List/Range (n_start, n_end)
 - Bitmap

Next Steps

- Status: some offline discussions happened in the past
- Pending issues – encoding specifics
- Merge options with other contributions
- Review comments are welcome

**Super-Channel Optical Parameters GMPLS Routing Extensions
draft-hussain-ccamp-super-channel-param-ospfte-03.txt**

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**Super-Channel Optical Parameters GMPLS Signaling Extensions
draft-hussain-ccamp-super-channel-param-sig-03**

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Motivation

- Coexistence of super-channels using different modulation formats
- Adjacent super-channels may affect each other detrimentally
- It is desirable to evaluate the mutual impact of the existing and new super-channels on each other's quality of transmission

Proposal Summary

- This draft defines GMPLS routing/signaling extensions
 - Number of Carriers
 - Carrier Center Frequency (THz)
 - Carrier Modulation
 - Carrier Baudrate (Gbit/s)
 - Carrier FEC Type

Next Steps

- Framework requirement discussion?
- Review comments are welcome