

RSVP-TE Signaling Extensions in support of Flexible Grid

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draft-zhang-ccamp-flexible-grid-rsvp-te-ext-02.txt

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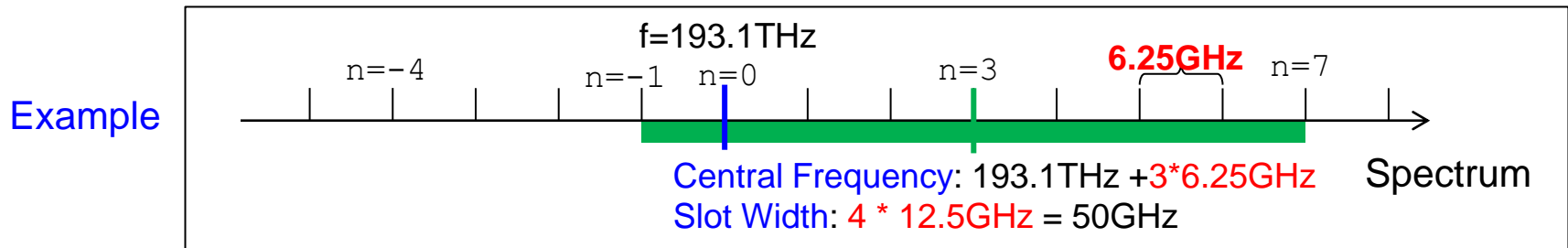
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Changes from Version 01

- Refined to make it consistent with
 - Flexi-grid Framework <draft-ogrcetal-ccamp-flexi-grid-fwk-03>
 - Label Format <draft-farrkingel-ccamp-flexigrid-lambda-label-06>
- Removed texts duplicated
 - Terminology refers to Flexi-grid Framework
- Added Adrian Farrel as the co-author, welcome on board, 😊

SSON RSVP-TE Extensions

- Traffic parameters: indicates **how much spectrum resource is requested**
- Label: use the one defined in `<draft-farrkingel-ccamp-flexigrid-lambda-label-06>`



```

Traffic Parameters  +---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
| m=4 (4*12.5G) |                                     Reserved                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+

Label              +---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
| Grid=  C.S.=  Identifier | n = 3 (3*6.25GHz) |
| FLEX  6.25 |                                     |
| m=4 |                                     Reserved                                     |
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
    
```

Summary: m will appear in two places:
 (1) In Traffic parameter: indicating what the expected LSP bandwidth is; E2E unchanged;
 (2) In Label: indicating bandwidth allocation on each hop; may vary;

Discussion: Allow 0.5 in n & m?

- During ITU-T SG15 meeting, G.872 has been updated to allow for 0.5 in n and m.

[ITU-T G.872.1]. The effective frequency slot width of a media channel is that part of the frequency slots of the filters along the media channel that is common to all of the filters' frequency slots. The parameters "n" and "m" as defined in Clause 7 of [ITU-T G.694.1] are used to describe the effective frequency slot with the exception that n and m (for cases where the n value of the constituent filters' frequency slots are not all the same) may have a granularity of 0.5 rather than being integers. A media channel may be dimensioned to carry more than one OCh P signal. Also

(excerpted from G.872, consented during latest SG15 plenary meeting)

- **Question:** Is effective frequency slot used in signaling?
Is it necessary to update label format to reflect this?
(simple solution: 1 bit to support 0.5)

Next Steps

- What are the working group plans to deal with the set of flexi-grid drafts?
- Refine it according to the feedback from the meeting or mailing list