

Routing and Wavelength Assignment Information Model for Wavelength Switched Optical Networks Switched Optical Networks

draft-ietf-ccamp-rwa-info-14.txt

Greg M. Bernstein (ed.), Grotto

Young Lee (ed.), Huawei

Dan Li, Huawei

Wataru Imajuku, NTT

Diego Caviglia Ericsson

Anders Gavler, Acreo

Jonas Martensson, Acreo

Itaru Nishioka, NEC

Cyril Magaria, NSN

Updates from v.13 to v.14

- Added an editorial comment on Section 7.1 (Dynamic Link Information)
 - Clarified that this information model does not dictate placement of information elements in protocols. In particular, added a caveat that the available label information element may be placed within the ISCD information element in the case of OSPF.

“Note that the above does not dictate a particular encoding or placement for available label information. In some routing protocols it may be advantageous or required to place this information within another information element such as the interface switching capability descriptor (ISCD). Consult routing protocol specific extensions for details of placement of information elements.”

- Generic Encoding Draft addresses the placement of ISCD (Next).

Summary and Next Step

- All pending issues have been resolved for this draft.
- Make ready for WG LC.

General Network Element Constraint Encoding for GMPLS Controlled Networks

draft-ietf-ccamp-general-constraint-encode-07.txt

Greg M. Bernstein (ed.), Grotto

Young Lee (ed.), Huawei

Dan Li, Huawei

Wataru Imajuku, NTT

Diego Caviglia Ericsson

Anders Gavler, Acreo

Jonas Martensson, Acreo

Itaru Nishioka, NEC

Rajan Rao, Infenera

Updates from v.6 to v.7

- Added priority information in the Available Labels Sub-TLV (Section 2.3)

The Available Labels sub-TLV link consists of an availability flag, priority flags, and a single variable length label set field as follows:



Where

- A (Availability bit) = 1 or 0 indicates that the labels listed in the following label set field are available or not available,
- Priority Flags: Bit 8 corresponds to priority level 0 and bit 15 corresponds to priority level 7. If a bit is set then the labels in the label set field are available or not available as indicated by the A bit for use at that particular priority level.

Updates from v.6 to v.7

- Added priority information to Shared Backup Labels Sub-TLV (Section 2.4)

The Available Labels sub-TLV link consists of an availability flag, priority flags, and a single variable length label set field as follows:



Where

- A (Availability bit) = 1 or 0 indicates that the labels listed in the following label set field are available or not available,
- Priority Flags: Bit 8 corresponds to priority level 0 and bit 15 corresponds to priority level 7. If a bit is set then the labels in the label set field are available or not available as indicated by the A bit for use at that particular priority level.

Pending Issues

How to bind generic label notion to Switching Capability

- Option 1: Use ISCD. By putting 'Available Labels sub-TLVs' into SCSI.
- Option 2: Extend 'Available Labels sub-TLVs' by adding an information that indicates Switching Capability

Summary and Next Step

- Resolve all the pending issues and be ready for WG LC.