Special Purpose Label terminology
draft-andersson-mpls-spl-terminology-01

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What problem?

• When we wrote RFC 7274 ( Allocating and Retiring Special-Purpose MPLS Labels) we thought that the terminology and naming of IANA registries were clear and sufficient.

• We have found that there was some confusion among users of the terminology
  • This draft aims to resolve the confusion
  • The intention is to give us a terminology so we can specify and describe how we use Special Purpose Labels
Changes to the IANA registry

- There are two registries maintained by IANA on the same web page
  - Special-Purpose MPLS Label Values
  - Extended Special-Purpose MPLS Label Values
- Confusion arises when people say...
  - “Special-Purpose Multiprotocol Label Switching Label Values”
    - Which registry do they mean?
- Make this clearer by updating the registry names to
  - Base Special-Purpose MPLS Label Values
  - Extended Special-Purpose MPLS Label Values
Terminology

- SPL – Any special-purpose label
- bSPL – base SPL (range 0-15)
  - XL – extension label (15)
- eSPL - extended SPLs
  - range 0 – 1048675
    - 0-15 reserved
    - 16-239 available for allocation
    - 240-255 experimental use
    - 256-1048575 reserved
- cSPL – composite SPL \{XL, eSPL\}
Naming practice – one base SPL

```
|     | MPLS Label Stack entry          |
|-----+--------------------------------|
|     | MPLS Label Stack entry          |
|-----+--------------------------------|
|     | MPLS Label Stack entry          |
|-----+--------------------------------|
|     | MPLS Label Stack entry (cont.)  |
```
Naming practice – one base SPL

- bSPL
  - Extension Label (XL)
  - Extended SPL
- eSPL
  - MPLS Label Stack entry (cont.)
Next Steps and Plans

• Comments, discussion, and working group adoption