A YANG Data Model for Layer 0 Types
draft-ietf-ccamp-layer0-types-02

A YANG Data Model for WSON
draft-ietf-ccamp-wson-yang-23

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Main Content in ietf-layer0-types

Model Relationship:

```
  ietf-layer0-types
     ↓
  ietf-wson-topology
     ↓
  ietf-wson-tunnel
```

Types in Layer0: DWDM/CWDM/Flexi-grid

<table>
<thead>
<tr>
<th>Base Type</th>
<th>Detailed Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Node Types</td>
<td>WSON FOADM/ROADM, Flexi-grid node;</td>
</tr>
<tr>
<td>WA Types</td>
<td>First fit/Random/Least-loaded;</td>
</tr>
<tr>
<td>Termination Types</td>
<td>OUT/ODU/OPU/Section Layer</td>
</tr>
<tr>
<td>Bandwidth Types</td>
<td>OTU1/OTU1e/OTU1f/OTU2/OTU2e/OTU2f/OTU3/OTU3e1/OTU3e2/OTU4/OTUCn</td>
</tr>
<tr>
<td>Channel Spacing Types</td>
<td>100G/50G/25G/12.5G/6.25G;</td>
</tr>
<tr>
<td>FEC Types</td>
<td>G-FEC/E-FEC/no-FEC;</td>
</tr>
</tbody>
</table>
Changes Since -01

• Update according to YANG Doctor Review Comments:
  – Term Change: ‘Flex-grid’ -> ‘Flexi-grid’;
  – New typedef for ‘dwdm-n’, ‘cwdm-n’ and ‘flexi-n’;

```plaintext
typedef dwdm-n
{
    type int16;
    description
        "The given value 'N' is used to determine the nominal central frequency.

        The nominal central frequency, 'f' is defined by,
        f = 193.125 THz + N x 0.00625 THz,
        where 193.125 THz is the ITU-T 'anchor frequency' for transmission over the C band."
}
```

– Fraction consideration: 1 digit for GHz and 4 digit for THz?
  • E.g., in 12.5GHz channel spacing, the next one after 193.1THz should be 193.1125THz, and 193112.5GHz;
Next Step

• Alignment on grouping names with layer1-types:
  – wson-label-restriction -> wson-label-range-info;
  – wson-link-label -> wson-label-start-end;
  – wson-path-label -> wson-label-hop;

• Further proceed WG LC after YANG doctor Review;
For draft-ietf-ccamp-wson-yang

• Changes already made:
  • Update to latest layer0-types;
  • Checking out RFC8407;

• Next Step:
  • Further proceed WG LC after YANG doctor Review;