



9/22/2020

Subject: Wowrack Interconnect Revision Proposal

Pursuant to the Seattle Internet Exchange policies and rules at <https://www.seattleix.net/rules>. This document serves as a notice of intent, pending the Seattle Internet Exchange Board approval, to upgrade Wowrack extension transport with the SIX, previously dated 5/12/2017 located in 12201 Tukwila International Blvd Suite 100. The purpose of this revision is to upgrade Wowrack transport layer to the extension to increase its capacity and redundancy currently from 3x10Gbps to 2x100Gbps connected to two diverse fiber paths and a VLT (MLAG) paired switches.

1. Wowrack proposes to upgrade existing transport switch to 2x2 Dell Force10 S5148-ON at the Westin Building and IGW Tukwila.
2. The switches will be powered by redundant AC power that are protected by both Datacenter UPS and generator power.
3. Sufficient identical switch will be kept as spare including its components.
4. The transport switches will be connected via two diverse dark fiber paths from two different providers.
5. The switches will support both the standard and jumbo MTU frame VLANs.
6. The switches will be managed and metrics monitored 24x7 by Wowrack NOC for congestion, latency, errors or failures.
7. The Westin Building switches will be connecting directly to the SIX Fabric in VLT (MLAG) with 2x100G trunk/peer links.
8. Wowrack will bear the costs of the extension switch including its maintenance, power, colocation, cross connects and the transport connecting to the SIX Fabric.
9. Wowrack will upgrade and bear the cost to increase uplink capacity if utilization goes above 66% on a 5-minute sample.

Switch policies:

1. Members will be made aware they are connecting to an extension switch.
2. Members will be made aware and adhere of the SIX rules (<https://www.seattleix.net/rules>).

3. There will be minimal monthly port fees to cover portion of the transport and cross connect.
4. Members will be limited to a single MAC address per VLAN.
5. Members will be provided with graphs and statistics on their port(s).
6. BPDU will not be permitted.
7. Violation of the above or any of the SIX policies will result in port shutdown with the following configuration

```
spanning-tree rstp edge-port bpduguard shutdown-on-violation
mac learning-limit 1 sticky
mac learning-limit learn-limit-violation shutdown
```

Implementation:

1. Wowrack will order and run new 2x100G cross connect with Westin Building colocation provider upon SIX approval
2. Wowrack will order the new transport switches immediately upon SIX approval of this proposal.
3. Equipment install and topological change migration will occur approximately within 30 days of the SIX approval.
4. Wowrack will notify all participants on the migration and work with the SIX on a proposed maintenance window to complete the upgrade.

Topology:

