

Seattle IX Extension Proposal

XM – DCIP Extension

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Author: Mathew Perkins

Author Email: mat_a_t_instavps.com

Per the SIX switch interconnect policy located at <http://www.seattleix.net/rules.htm>, this document will serve as DataCenter IP / XMission's notice of intent, upon SIX approval, to provide SIX extension services in Salt Lake City, Utah. With three locations as shown in the topology document. This will replace the existing InstaVPS extension.

XMission and DataCenter IP will operate a joint extension as outlined in the Topology document and will be offering paid services to connect back to the SIX exchange.

1) **Administrative Access**

XMission, and DataCenter IP engineers will maintain and monitor all hardware between SIX and the Salt Lake City Extension Network. The responsibility of the management of each device will be as listed in the Topology document "Managed by" under the respective topology.

2) **Media Access Control**

XMission and DataCenter IP will enforce all SIX MAC address policies per the SIX rules located at <http://www.seattleix.net/rules.htm>. All ports facing downstream clients will only allow for a single MAC address per SIX rules.

3) **Time To Connection**

XMission and DataCenter IP will request if this extension is approved that SIX increase the MAC address limit of the current XMission 10G port that will be used for this extension access.

4) **Hardware**

Each device model number is listed in the topology diagram. The network will consist of Juniper EX4550's and Brocade RX series switches.

5) **Spanning Tree**

RSTP will be enabled on the internal network in Salt Lake City, Utah to prevent loops in the topology.

6) **Upstream MAC filter**

To further protect the SIX from MAC flooding a MAC based ACL will be configured on the uplink switch to SIX preventing any unintentional MAC addresses from flooding the SIX network.

7) **9000 MTU VLAN**

The uplink port to SIX will be configured in trunk mode to support the 9K MTU VLAN

8) Basic Interconnect Diagram

