

IIX

www.ixpeering.net

IIX SIX Extension proposal

Pursuant to the SeattleIX switch interconnect policy at <http://www.seattleix.net/rules.htm>, this document will serve as IIXs' notice of intent, pending SeattleIX approval, to provide SeattleIX extension services to companies who don't have a presence within the Westin Building and those in the Westin Building Exchange 8th Floor colocation. Both 1G and 10G connections will be supported in this location. While this will be a paid service, the goal is to provide cost-effective peering.

The IIX proposal is divided into sections addressing the different technical aspects:

1. Administrative Access

IIX network operations staff will maintain and monitor switches for outages. To protect access to the switches, ACLs are in place on all management interfaces to protect the fabric from unauthorized access. Furthermore, all management access is performed via SSH and all switches have non-routable RFC 1918 management IP address space.

2. MAC policies

IIX will enforce the same policy limits as the SeattleIX main switch fabric. This includes BPDU filtering, maximum MAC count of one MAC address per VLAN. Violating either of these policies will result in port shutdown. To further protect the SeattleIX fabric, IIX will maintain a max MAC limit on the uplink port as well as customary protections against STP frames. We recommend the max MAC limit on the uplink start at 10 MAC addresses. The IIX NOC will provide notification to the SIX when new customers connect so that the MAC filters can be updated accordingly.

3. Hardware and Software

IIX will utilize a dedicated Brocade TurboIron to provide SeattleIX ports. The SeattleIX standard (1500-byte MTU) and jumbo (9000-byte MTU) VLANs will be offered. Customer ports will be configured as access or trunk ports as appropriate and be limited to one MAC address per VLAN, as defined in the current SeattleIX operating procedure.

4. Interconnection with the SeattleIX within the Westing Building

IIX is proposing a dedicated 10G interconnection with the SeattleIX within the Westin Building. IIX requests that the port be setup in an LACP link bundle configuration so adding 10G interconnects can be completed without disruption. As part of the process IIX will be paying the current 10G port fee of \$3,000.

5. Monitoring

IIX NOC will monitor the infrastructure for faults as well as customer port error conditions.

6. Repair

IIX will be solely responsible for all maintenance relating to this extension switch proposal. IIX will make all reasonable efforts to maintain as high of an uptime as possible with sufficient prior notice for all service affecting events.

7. Turn-up

IIX plans to provide interconnection requests immediately upon approval of this request. We have customers requesting the service today.

8. Connectivity Diagram

IIX will interconnect with the SIX at the 19th Floor MMR. The interconnects will be SMF. Below is the basic interconnect diagram

9. SNMP

IIX will provide the SIX with read-only SNMP access to the switch via the SIX management VLAN. The SIX will provide IIX with a SIX management VLAN IP address and IIX will employ an ACL to restrict access from the management VLAN subnet to SNMP UDP port 161.

