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AS32621

Minnesota VoIP SIX Extension Update proposal:

Pursuant to the SeattleIX switch interconnect policy at: https://www.seattleix.net/rules, this document will serve as Minnesota VoIP's notice of intent, pending SeattleIX approval, to upgrade SeattleIX extension services to companies who are collocated in Minneapolis Minnesota, and the immediate surrounding areas. The upgraded extension switch will be located at 511 11th Ave S, Suite 100, and be a direct replacement to the existing Cisco 4900M extension switch. 1G, 10G, and 40G connections will be supported on this upgraded switch. The purpose of the extension switch is to add additional port capacity to account for increasing interest in connecting to the SIX via the MN VoIP extension.

Minnesota VoIP proposes to purchase, install, and manage an Arista 7050S-64 as the extension switch that will be dedicated to only SIX traffic
-The switch will be monitored 24X7 for both functionality, as well as quality of its performance
-An identical switch will be kept on hand in the event of hardware failure
-The switch will be redundantly powered by circuits that both have UPS/Generator backup
-Management of the switch will be limited to Minnesota VoIP's internal private network, and read only SNMP for SIX admins.
-The switch will support both the standard and jumbo frame VLANs
-The switch will be connected to the SIX Core via 3 existing geographically diverse 10G Wavelengths
-Minnesota VoIP will bear the cost of the extension switch including maintenance, power, collocation, cross connects, and the wavelengths connecting the switch to the SIX Core
-Minnesota VoIP will upgrade, and bear the cost to increase uplink connectivity if utilization goes above 66% based on a 5 minute sample.

Switch Policies:
-Members will be limited to a single MAC address per VLAN
-BPDU will not be permitted
-Violation of the above will lead to automatic port shutdown
-The following is the proposed member facing port config:
  switchport port-security 1
  storm-control broadcast level 0.01
  storm-control multicast level 0.01
  spanning-tree bpduguard enable

Implementation:
-Upon approval of this upgrade proposal, Minnesota VoIP will notify all participants on the SIX of the proposed maintenance window to complete the upgrade. The notification will be a minimum of 2 weeks prior to the maintenance outage.