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**Reliable Internet Inc. SIX Extension Proposal**

Pursuant to Seattle Internet Exchange (SIX), this document shall serve as Reliable Internet Inc's (Reliable) notice of intent, pending SIX approval, to deploy SIX extension switch at Arrow DC2 facility located at 2712 – 37th Ave NE Calgary, AB T1Y5L3 Canada. The purpose of this extension is to provide an economical peering option in the province of Alberta. The cost of transport from Calgary to Seattle (and other hubs) is very hard to justify for individual local networks. This extension switch will provide an economical solution for these local networks by aggregating their traffic.

Reliable proposes to install and manage Arista 7280 as the extension switch that will be dedicated to only SIX traffic.

- ❖ We have 3 identical Arista 7280 switches available. Two switches will be kept on hand in the event of hardware failure.
- ❖ The switch will be monitored 24/7 for functionality and performance. Management will be limited to Reliable's private network and SNMP read only access will be provided to SIX admins.
- ❖ The switch will be redundantly powered by circuits that each have both UPS and Generator back-up.
- ❖ The switch will support both the standard and jumbo frame VLANs
- ❖ The switch will be connected to the SIX Core at Westin building via 2 x 10G point to point links in a LAG provided via diverse carriers.
- ❖ If any of the two-carrier path lose diversity for other than a temporary amount of time, Reliable will work to re-obtain diversity either by changing a circuit or adding an additional circuit
- ❖ Reliable will upgrade and bear the cost to increase connectivity if utilization goes above 66% on a 5 minute sample.
- ❖ Reliable will cover all hardware, colocation, software, cross connect, management, maintenance, transport and other costs associated with this extension.
- ❖ Reliable would request that SIX staff place an initial MAC limit of 10 and work with our staff to increase this limit as needed.
- ❖ Reliable will provide notification to the SIX when new customers connect so that the MAC filters can be updated accordingly

Members Policies:
- ❖ Members will be made aware they are connecting to an extension switch, not the core.
- ❖ Members will be made aware of the SIX rules (https://www.seattleix.net/rules)
- ❖ There will be minimal monthly port fees that are designed to cover a portion of the transport and cross connect fees
- ❖ Members will be provided with graphs and statistics on their port(s) but will not have access to details of other member ports.
- ❖ No BPDU will be allowed and only 1 MAC per member per port.
- ❖ Violation of any SIX policies will result in immediate port shutdown.
- ❖ Reliable will subordinate to SIX staff on the handling of any policy violations.

Implementation:

- ❖ Reliable is prepared to pay for 1 x 10g port fees to SIX. Our parent organization, Arrow Group Inc. has paid for 1 x 10g already.
- ❖ Reliable will order 2x10G point-to-point immediately upon SIX approval of this proposal.
- ❖ Equipment installation, turn up and testing will occur no later than 30 days following the point-to-point turn up.
- ❖ There are at least 8 networks that will connect immediately. We expect 6-7Gbps of initial traffic.

Network Topology: