

# **REQUEST FOR PROPOSAL**

## Hosting of ARIN Public Facing DNS Network Services

### **EXECUTIVE SUMMARY**

The American Registry for Internet Numbers, ARIN, is seeking Internet Co-Location providers (Hosts) to bid to host ARIN equipment and applications used in the operation of ARIN's public facing DNS resolution services. This service, provided by ARIN, is a critical part of the Internet's infrastructure. ARIN is seeking proposals from sites located in Canada and the Caribbean.

ARIN is operated as a non-profit 501(c)(6) corporation and is chartered for educational, charitable, and scientific purposes. It is a membership organization with an official IRS designation as a "business league".

### **STATEMENT OF WORK**

ARIN is requesting proposals for the hosting of ARIN equipment and Internet connectivity suitable for supporting ARIN services. ARIN will be providing ARIN DNS services at this site. A detailed explanation of the requirements for providing these services summarized below:

#### **Section 1: Rack Space / Power**

##### **1.1 Physical Requirements:**

The host shall provide rack space, power and cooling for 11 U (approximately ¼ rack) of ARIN equipment

##### **1.2 Power requirements:**

The host will provide an electrical circuit of no less than 20 Amps, 120 volts. All power provided will be regulated and be on a power backup system such as a generator. ARIN's expectation is that power will be available 99.9% of the time.

#### **Section 2: Network Requirements**

##### **2.1 Summary**

- The host will provide 2 X 1Gb (Gigabit Ethernet) Full Duplex, 1000mb, no auto.
- The host will provide native IPv4 and IPv6 connectivity.
- The host will allow ARIN BGP announcements.
- The host will provide a /24 IPv4 Address Assignment with transit to the Internet.
- The host will provide a /48 IPv6 Address Assignment with transit to the Internet.
- The host will provide a full view of the IPv4 and IPv6 routing table.
- The host will provide 24x7x365 NOC contact information for problem resolution.
- The host will provide environmental and security infrastructure at their facilities.

##### **2.2 Connection Requirements**

The host will provide two 1000 Mbps Ethernet connections. All ports must have auto-

negotiation turned off and be locked to 1000 Mbps full duplex. The host will provide a detailed description of their Internet transit infrastructure including a topological map and BGP information.

### **2.3 Address Space Requirements**

The host may be asked to provide one publicly routable /24 IPv4 address block and one publicly routable /48 IPv6 address block. The network blocks will be used for both management and publicly available services. If the host is unable to provide address space; ARIN will work with a transit provider for IP address space.

### **2.4 Routing Requirements**

The host will peer with ARIN's routers via BGP4 and/or provide access to the peering fabric via BGP4. The host will facilitate transit for ARIN for the /24 and /48 given by the host, as well as facilitate additional /24's that ARIN may use to announce services.

### **2.5 Quality of Service**

The host will provide ARIN with QOS services to ensure that management traffic such as VPN and other management mechanisms perform adequately. The host will not administer any QOS policies without the approval of ARIN.

### **2.6 Security Requirements**

The host must provide access control mechanisms such as router ACLs to filter traffic at ARIN's request. The host will not apply any access controls without ARIN's approval.

## **Section 3: Facilities**

### **3.1 Environmental Systems**

The host shall provide Heating, Ventilation and Air conditioning (HVAC) and other environmental components including UPS and fire suppression. All of these systems will be operational 24x7x365 with 99.9% availability.

### **3.2 Security**

The host facility will have security procedures in place to prohibit anyone from accessing ARIN equipment without ARIN authorization.

## **Section 4: Service Availability**

### **4.1 Uptime Guarantee**

The host will guarantee network availability of 99.9% of any given month excluding scheduled maintenance. Scheduled maintenance is defined as downtime for which the host has provided notification to ARIN at least 7 days in advance. ARIN and the host will jointly determine the cause of any unscheduled downtime.

### **4.2 Notification**

The host will notify ARIN of all outage events via e-mail to designated ARIN contacts.

## **PROPOSAL SCHEDULE**

All proposals must be submitted no later than close of business on 16 October 2009. ARIN will evaluate the proposals and will select a winning bidder no later than 30 October 2009. It is expected that all bidders are able to meet the requirements set forth in this document at the time they submit their proposal.

## **TERMS AND CONDITIONS**

All contractual terms and conditions related to the work performed, non-disclosure of information, or liability issues must be detailed. ARIN will require that the vendor performing this service sign a non-disclosure agreement due to the proprietary nature of the information ARIN retains for its subscribers. Please provide references in your response to this request, proposed fees and charges.

## **SUBMIT PROPOSAL TO:**

[rfp-hosting@arin.net](mailto:rfp-hosting@arin.net)

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