



F- Root SERVICES

This Memorandum of Understanding (“MOU”), dated as of _____, 20____, (the “Effective Date”) represents the entire agreement for services between Internet Systems Consortium Inc., a Delaware non-profit corporation, located at 53 Main Street, Newmarket, NH 03857 (“ISC”) and _____, located at _____ (“Local Sponsor”). Local Sponsor desires to receive F-Root services from ISC and ISC wishes to provide those services. Any additions or changes will be documented in writing and become an addendum to this document.

1.0. The Services.

1.1. Description and Purpose. ISC and Local Sponsor agree to jointly pursue the installation and operation of a new or replacement root name server(s) in Local Sponsor’s service region. Subject to the conditions contained herein, ISC and Local Sponsor shall provide F-Root services at Local Sponsor’s location for the purpose of providing faster access to the Internet DNS root, enhancing Local Sponsor’s region’s Internet independence and sovereignty and reducing its dependency on external infrastructures, increasing resiliency of Local Sponsor’s Internet infrastructure against cyber-attacks and contributing to the greater good of the worldwide Internet.

1.2. Location. The location for F-Root services will be selected by Local Sponsor and agreed upon by ISC; however, ISC may refuse a selected location for political or technical reasons. Location of a successful installation shall be referred to as a “Local Sponsor-supported ISC Root Server Location”. For purposes of this MOU the Local Sponsor-supported ISC Root Server Location shall be located at _____ (City) _____ (Country) _____ (Site Code).

1.3. Limitations.

1.3.1. Local Sponsor will not refer to itself as a Root Server Operator. ISC is the Root Server Operator. Local Sponsor has agreed to host an instance of F-Root for the mutual benefit of ISC and Local Sponsor. The F-Root instance is not to be referred to as a "mirror" or a "replica". It is to be called either "an F-Root server" or "an F-Root server instance".

1.3.2. Local Sponsor, or its connectivity partner if other than Local Sponsor, will not inspect and/or block any DNS traffic unless requested by ISC for the purposes of protecting a node against a network attack.

1.4. Mutual Understandings.

1.4.1. Each server will answer as F.ROOT-SERVERS.NET (192.5.5.241 and 2001:500:2F::F) using wide area “BGP anycast” from AS3557. No new root service identities are created by this MOU.

1.4.2. In no event shall ISC’s BGP autonomous system, or IP address space, or the F.ROOT-SERVERS.NET host name be operated or modified other than directly by ISC employees and contractors. No service identifier used by ISC in the provision of

root name service is conveyed by this MOU. In the event of termination by either party, these service identifiers will immediately cease to be used in all Local Sponsor-supported ISC Root Server Locations in order to transfer that region's root server traffic load to ISC's other, non-Local Sponsor locations.

1.5. Local Sponsor's Duties.

- 1.5.1.** Local Sponsor will provide or cause to be provided, at its own expense, all hardware, network connectivity, rack space, power and other operational requirements as jointly agreed by Local Sponsor and ISC.
- 1.5.2.** Local Sponsor will endeavor, by its choice of location for this new service, to reach the largest possible ISP community in each region, including diverse IP transit providers and neutral IP/BGP Internet exchanges. Every effort will be made to see root DNS queries answered for as many local network operators as possible.
- 1.5.3.** Local Sponsor will resolve service issues that impact the operation of the Local Sponsor-supported ISC Root Server Location within six (6) months. Critical issues shall be resolved within one (1) month.

1.6. ISC's Duties.

- 1.6.1.** ISC will operate the BGP routers in such a way that all possible networks in the local region can avail themselves of a very close and highly responsive edition of the F.ROOT-SERVERS.NET service. ISC will operate the DNS servers in such a way that all queries received are answered, unless the server is under DoS attack, and subject to normal security filtering such as ingress and egress rate limiting, RFC1918 filtering, and other practices used by root server operators. Out-of-region DNS query traffic will also be answered in the event of distant server failures or other anomalies.
- 1.6.2.** ISC will, as reasonably possible, include Local Sponsor's interest when setting or defending technical policies in the DNS root server community. This includes, but is not limited to, the provision of open, continuous, wide scale, high availability root name service based on unmodified root zone data as published by IANA.

2.0. Security.

2.1. Security. Each party will ensure industry standard security measures are followed to control access to the Service. This will include, but not be limited to, physical and network access. No access tokens shared between the parties shall be disclosed to any third party.

3.0. Fees.

3.1. Fees. Each party shall bear its own costs to install, operate and maintain the F-Root server instance, as more fully described in Sections 1.5 and 1.6.

4.0. Term and Termination.

4.1. Term. The term of this MOU shall be twelve (12) months beginning on the Effective Date with automatic renewal unless either party cancels in writing thirty (30) days prior to

the end of the current twelve (12) month term.

4.2 Termination. Either party may cancel this Agreement at any time for convenience with thirty (30) days written notice.

5.0. Disclaimer of Warranties. ISC will provide the Services to Local Sponsor on a best effort basis. ISC will not be held liable for damages of any sort by Local Sponsor due to, but not limited to, usage, outage or downtime of services. ALL INFORMATION, SERVICES, GOODS AND SOFTWARE, IF ANY, WHICH IS PROVIDED BY ISC IN CONNECTION WITH THIS AGREEMENT, IS PROVIDED SOLELY ON AN AS-IS BASIS, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY ARISING OUT OF ANY COURSE OF DEALING, CUSTOM OR USAGE OF TRADE, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INTERFERENCE AND NON-INFRINGEMENT. ISC DOES NOT WARRANT THAT ANY SOFTWARE, FIXES, PATCHES, REVISIONS, UPDATES OF MODULES, IF ANY, PROVIDED BY ISC IN CONNECTION WITH THIS MOU, WILL BE BUG-FREE OR ERROR-FREE OR THAT ANY CORRECTIONS WILL BE EFFECTIVE.

6.0. Confidential Information. All data provided by either party will be treated as confidential by the receiving party in the same manner and with the same care as it would treat its own confidential information.

7.0. Public Announcements. Local Sponsor agrees to participate in a joint press release regarding the parties' efforts to deliver F-Root Services to Local Sponsor's region and to allow ISC to publicize same through its usual means; provided that neither party will publicize without prior approval of the other.

IN WITNESS WHEREOF, the parties hereto have caused this MOU to be executed and delivered as of the date set forth below.

Dated this _____ day of _____ 20____

INTERNET SYSTEMS CONSORTIUM INC.	LOCAL SPONSOR:
By:	By:
Name:	Name:
Title:	Title: