

Request for Quotation
Router Configuration Cleanup & Documentation,
Hardware Procurement & Deployment

OARC Engineering

2021/04/24

Background

OARC has two physical locations with our own routing infrastructure: Hurricane Electric's FMT2 facility in Fremont, California, and as a guest of the Canadian Internet Registration Authority in Ottawa, Ontario. The routing configurations at these two locations have been subject to a certain amount of "bit rot" over the last few years, and we are looking for assistance with cleaning this up, in order to facilitate easier management in the future. Both routers are running Cisco IOS.

- OARC's main location was physically moved to FMT2 several years ago. This included new upstream transit, new peering, and a renumbering of the network. In the interests of minimal down time and minimizing work hours, some of these changes received less attention than would have been ideal. For example, some peering configurations appear to have been left in place even though the peers are not present at the new location.
- There are a number of ACLs in both routers, which reference other networks, that do not have appropriate annotations or documentation. These need to be individually assessed for whether they are currently required, and either removed or documented.
- The routing configurations in OARC's main location in Fremont, California, and the satellite site in Ottawa, Canada, both have partial IPSEC configurations, left over from an previous experiment, which need to be excised.
- The routing hardware is aging and needs a physical upgrade/replacement in order to support additional transit connections.

Required Work

OARC is seeking an external contractor to review the current configurations of both routers and:

- identify and remove unnecessary configuration
- document peering configurations and ACLs that are currently used
- recommend and implement missing best practices and other potential improvements in the existing configuration

We are also in need of new routing hardware, and are seeking someone to take our requirements list and budget limitations and convert them into purchasing recommendations. After purchasing, the contractor would be responsible for initial configuration of the new hardware, and for assisting in the planning and execution of deployment. If the contractor is physically located near our Fremont, California data centre, this could optionally include time spent doing the physical installation and migration from the old hardware.

Configuration of the new hardware can be combined with the configuration cleanup work.

This work may require coordinating with OARC's network peers or transit providers on OARC's behalf.

We expect this work to take between 80 and 120 hours to complete. Work is to begin as soon as the selected contractor is available. The contractor must be able to devote at least 20 hours per week to this contract. This work can be done remotely, so the contractor's location is not a factor.

Compensation

Compensation for this work will include time worked at the agreed-upon rate. OARC will cover reasonable pre-approved expenses related to the completion of this work.

Submitting a Quote

Please submit questions, proposals, and/or quotes to jobs@dns-oarc.net. Please include your relevant experience, availability, and desired rate.