



Improve Your Network's Health and Routing with Merit RADb

Merit RADb's user portal provides a convenient dashboard with powerful tools for Border Gateway Protocol (BGP) route examination, network asset management, route asset monitoring, and network health inspection. The status of your registered network objects is easily at your fingertips. The Merit RADb portal includes the following tools and features:

Global BGP Visibility

- Allows Merit RADb users to examine the visibility of their network routes and AS numbers from a worldwide perspective, collecting data from 38 different BGP (Border Gateway Protocol) route table view points around the globe via the Route Views Project. Merit RADb distills the connectivity information and allows users to easily compare their BGP routing information.

Route Asset Monitoring

- Monitors diverse routing and host reputation data feeds and sends email notifications at custom intervals. This new feature enables organizations to better monitor the health of their routing assets.
- Provides Merit RADb members with a view of their network assets from an outside perspective. Prefix alerts are generated when observed routing events in live BGP (Border Gateway Protocol) sessions conflict with information registered in Merit RADb, or differ from historically learned route origination information. This routing anomaly detection can quickly alert you to possible route hijack events.

Route Alerting

- Provides global BGP monitoring, using 38 data feeds from BGPMon/Route Views based collectors. This diverse routing sample now gives a richer set of alerts on every Merit RADb customer's registered routing assets.

Object Management

- Manage your registered objects through an online interface. Based on the Routing Policy Specification Language (RPSL) standard, this feature provides a summary of registered routing objects, including as-set, aut-num, filter-set, inet-rtr, mntner, peering-set, role, route, route-set, route6, and rtr-set. You can upload multiple objects using a single text file. Support for RPKI (Resource Public Key Infrastructure) is provided via an additional URI (Universal Resource Indicator) attribute that can be added to your route object.
- Review your relevant Regional Internet Registry (RIR) allocation information easily for accuracy. Merit RADb's portal provides several consistency checks to ensure your registered routing objects are correct and alerts members to Internet routing changes.

Host Reputation

- See how others view your network from a reputation perspective. Is your network viewed as a source of malicious activity? Merit RADb can let you know. Host reputation examines over 20 distinct data sources to inform Merit RADb users of many types of malicious activity on their network, such as spam, malware, and botnets.

Account Maintenance

- The Merit RADb portal offers convenient account maintenance and a detailed service history.

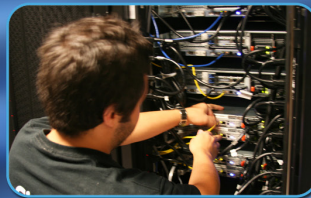
More Features

- Merit RADb mirrors data of more than 30 other IRR databases.
- Merit RADb is the only routing registry to offer 24x7 technical support and consulting.
- Merit RADb offers public WHOIS queries, with advanced search options to perform inverse lookups, isolate specific registry databases, and search for primary keys only.

Why is it important to register your network routing assets?

- A number of transit providers require their customers to register routes and filter customer route announcements based on registry content.
- Your organization's routing policy will improve by associating network prefixes with the origin ASN.
- By filtering unauthorized announcements, your organization can prevent route hijacking and denial of service.
- In addition to declaring your chosen network policy you can now obtain valuable information about the health of your network assets by maintaining accurate information in Merit RADb.

www.radb.net



Register & Better Manage Routing Assets

Merit RADb (www.radb.net) is a public registry of network routing information that assists with the transfer of data over the Internet. Merit RADb provides organizations with tools to register their network routing assets, track routing changes, and determine the health of network assets.

Thousands of organizations that operate networks, including Internet service providers, universities and business enterprises, have registered their routing policies in Merit RADb to facilitate the operation of the Internet.

- Merit RADb contains the registered routing information for more than 1,800 organizations—from small companies to Fortune 500 corporations—with new organizations registering every day.
- Merit RADb's WHOIS servers receive over 6M queries per day from over 300K unique hosts.
- Merit RADb members have registered over 400,000 route objects in the routing database.
- Merit RADb has remained at the forefront of Internet routing practices and includes over 1,100 IPv6 route objects.

The information in Merit RADb enables organizations to troubleshoot routing problems, automatically configure backbone routers, generate access lists, and perform network planning.

Innovative Tools and Features

Recently upgraded with powerful management and diagnostic tools, Merit RADb's user portal allows users to examine the global visibility of their network routes and AS numbers, provides various consistency checks to ensure registered routing objects are correct, and alerts members to Internet routing changes.

As the only Internet routing registry (IRR) to offer 24x7 customer support, Merit RADb now alerts members to the health of their network assets as observed by various external sources on the Internet. Merit RADb maintains active data mirrors of more than 30 other IRR databases. See more features on opposite page.

It's Easy to Join Merit RADb

Any organization worldwide with an autonomous system number (ASN) may register in Merit RADb for an annual fee of \$495 (U.S. Dollars). Non-profit organizations may register annually for \$395.

Register today at www.radb.net

Assisting Internet Routing Since 1995

When the process of transitioning the NSFNET to the commercial Internet began in 1993, the National Science Foundation selected Merit Network and a partner organization to act as Routing Arbiters.

In 1995, the Routing Arbiter Database went into production. The Routing Arbiter team deployed Route Servers at all Network Access Points for the Internet.

After its deployment, hundreds of organizations that operate networks—including ISPs, universities, and business enterprises—began to publicly publish, or register, their routing policies and route announcements in the RADb to facilitate the operation of the Internet.

Today, more than 1,800 organizations have registered their routing information in Merit RADb, with new organizations registering every day.

