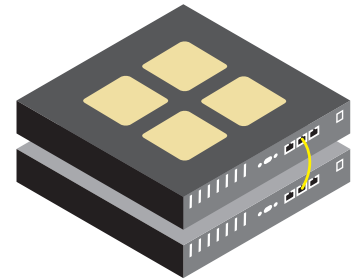


# RADIUS One Network Identity Appliance

The Infoblox RADIUS One network identity appliance delivers the widely used RADIUS protocol for performing network authentication, authorization, and accounting (AAA) functions and a web-based user interface in a single product.



## PROTOCOL FEATURES

### Authentication Methods

RADIUS One supports all popular authentication methods, including both certificate-based and non-certificate-based methods:

- PAP – Password Authentication Protocol
- CHAP, MS-CHAP and MS-CHAPv2 – Challenge Handshake Authentication Protocol
- EAP – Extensible Authentication Protocol for 802.1x port-based authentication
  - › EAP/MD5 – Mandatory EAP authentication method
  - › EAP/TLS – Extensible Authentication Protocol Transport Layer Security, provides mutual authentication, requires client certificates
  - › EAP/TTLS – Provides mutual authentication, does not require client certificates
  - › EAP/PEAP – Similar to EAP/TTLS; client software is included in Microsoft Windows XP
  - › EAP/LEAP – Lightweight Extensible Authentication Protocol, Cisco proprietary EAP method; works only with Cisco and Apple WLAN equipment

### Data Sources

RADIUS One supports the use of both internal and external data sources:

- Internal User Store – User data is stored in the Infoblox database included in the RADIUS One appliance
- RADIUS Proxy Authentication – User data is stored on a remote RADIUS server (RADIUS One or third-party)
- LDAP-Standard – User data is stored in a remote LDAP server; supports a variety of LDAP implementations
- Microsoft Active Directory – User authentication data is stored in an Active Directory Domain Controller
- SecurID (ACE/Server) – Users are authenticated using a hardware token

and an RSA Security ACE/Server

- Kerberos v4 – Users are authenticated using a ticket-based network authentication system

### Authorization and Authentication Features

- Livingston/Lucent/RABU call detail format
- MERIT v2 format
- Cisco TACACS+ accounting record format
- Simple session format
- Proxy accounting
- Exclusion of attributes from logging

### Other Features

- Performance rated at 950 authentications per second
- Realm alias support
- Logging to local or remote syslog server
- iPass/GRIC support
- Multiple vendors and dictionary support (import/export facility)
- EAP certificate management tools
- User administration: can create users and permissions per realm
- RFC compliance
  - › RFC 2619 – RADIUS Authentication MIB Objects
  - › RFC 2621 – RADIUS Accounting MIB Objects
  - › RFC 2716 – PPP EAP TLS Authentication Protocol
  - › RFC 2809 – Compulsory Tunneling via RADIUS (informational)
  - › RFC 2865 – Remote Authentication Dial-In User Service
  - › RFC 2866 – RADIUS Accounting
  - › RFC 2867 – RADIUS Accounting Modifications for Tunnel Protocol Support
  - › RFC 2868 – RADIUS Attributes for Tunneling Support
  - › RFC 2869 – RADIUS Extensions

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# RADIUS One Network Identity Appliance

## MANAGEMENT FEATURES

- Common console/admin program
- Session logging
- Event logging
- Simultaneous access control (concurrency management) for user or realm
- Simultaneous access control for custom groups
- Certificate validation during imports
- SNMP support
- Works with Netscape 4.7 or higher (Windows, Linux, Irix, Solaris, HP-UX, AIX)
- Works with Internet Explorer 5 or higher
- Intuitive RADIUS administration
- Fine-grained user access control
- Graphical tools and wizards for
  - › Setting up initial configuration
  - › Importing existing data
- Hardware and software monitoring
- Configurable system logging

## Interface

- Secure, web-based GUI
- No additional software installation required

## APPLIANCE FEATURES

### Security

- Certificate-based encryption, both self-signed and CA generated
- IP address-based access list on access to the management and scripting interfaces
- Minimal TCP and UDP ports available
- Secured HA (HA communication)
- Secured replication between HA (db\_repd)
- Secured management (HTTPS)
- Secured upgrades (binary is signed)
- Secured passwords (can be as MD5/SHA1)
- Secured Scripting interface for large configs.

### Software Platform

- Customized, minimal Linux distribution
- Optimized kernel tuned for network and file system I/O performance
- Journalled file system for power failure recovery
- Transaction-protected, embedded database
- Real-time monitoring and failure notification of RADIUS services, hardware, remote interface availability
- One-button, secure upgrades
- Secure remote scripting interface
- Minimal open ports
  - › 1812, 1813 RADIUS
  - › 443 SSL (access control available)

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