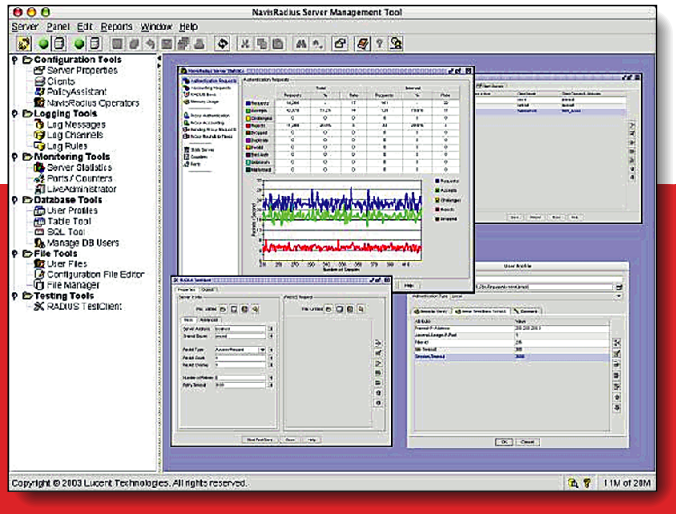
NavisRadius™ Authentication Server



The *NavisRadius*™ AAA server extends industry-leading authentication capabilities to Wireless Network management, providing total visibility with its expanded Graphical User Interface.

Benefits:

- Offer most extensive set of Authentication, Authorization and Accounting features available today for wireless networks
- Complete support for Wi-Fi Wireless LANs
- Full interoperability with 3G Wireless WANs
- Easy integration in heterogeneous architectures and with other RADIUS systems

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The Lucent *NavisRadius*™ Authentication Server is the Authentication, Authorization and Accounting (AAA) server of choice for major service providers, ISPs and Enterprises due to its proven performance and its flexible, extensible PolicyFlow™ architecture built on Java™-based programming language. In addition, *NavisRadius*™ server provides an expanded graphic interface for overall server configuration, management and monitoring.

The latest release *NavisRadius*™ server delivers expanded functionality to address your deployment of wireless LANs and other networks deploying 802.1x and EAP protocols.

Most extensive set of AAA support features available – for wireline and wireless networks

Based on a powerful multithreaded engine and a robust core request queue processor, the *NavisRadius*™ server offers the most extensive set of Authentication, Authorization and Accounting features available today. While most AAA servers provide some flexibility, the *NavisRadius*™ server is the only one to offer a built-in programming language for writing custom AAA Policy applications. This powerful PolicyFlow™ language allows the system to conform to any possible policy scenario, eliminating the need to compromise your requirements or adjust your designs to meet other AAA software's fixed view of the world.

With an extensive list of features and millions of ports managed worldwide, *NavisRadius*™ server is a complete AAA solution that addresses the strictest service provider requirements for flexibility, reliability and security.

Complete support for Wi-Fi Wireless LANs

With the recent explosion of Wireless Enterprise LANs and public Hot-Spots the need for secure access is rapidly evolving and expanding.

The extensive implementation of Wi-Fi networks using 802.1x and Extensible Authentication Protocol (EAP) for access control requires a AAA server that supports all the current standards. In addition to its use in authenticating users, client hardware and servers, EAP can also be used to support dynamic key creation for securing the network traffic flowing through the air. This capability provides an additional layer of protection for users and administrators concerned about data security.

As a member of the Wi-Fi Alliance, Lucent is able to deliver expanded point-and-click support for the complete list of EAP types in use for Wi-Fi today and coming in the near future:

- EAP-MD5-Challenge	Simple CHAP like password based authentication.
- EAP-TLS	Certificate based mutual authentication of client and Access Point server.
- EAP-Cisco® Wireless (LEAP)	Proprietary support for early Cisco® wireless devices.
- EAP-Tunneled TLS (TTLS)	Single sided certificate authentication (like SSL) supports standard AAA options like PAP/CHAP, proxy etc.
- EAP-Protected EAP (PEAP)	Single sided certificate authentication (like SSL) for secure EAP. Supports additional options like password, proxy etc. Supported by Microsoft®, Cisco® and RSA® systems.
- EAP-MS-CHAPv2	Password based authentication for use with NT-SAM, Active Directory and plain text passwords.
- EAP-Generic Token Card	Basic transport for PAP and Token cards (e.g. SecurID, VASCO, SafeWord®, etc.). Typically used with PEAP or TTLS.
- EAP-SIM*	SIM Based authentication using GSM/GPRS SIMs
- EAP-AKA*	SIM Based authentication using UMTS SIMs

* Available October 2003

EAP can be easily integrated within custom tailored policies created with the *NavisRadius*™ PolicyFlow™ programming language or via the system's new PolicyAssistant – an easy to use step-by-step GUI wizard that allows administrators to build specific policies in a fast easy and efficient way.

To provide additional security for wireless networks, the *NavisRadius*™ server can integrate EAP with secure token access using products like SecurID, Defender, SafeWord® and VASCO.

Fully enables 3G mobility wireless WANs

Extensive support for RFC (AAA & RADIUS) and TIA (IS-835) standards provide the feature set needed for Wide Area packet networks (CDMA, GPRS & UMTS), Mobile-IP, and VPN/tunneling. Combining a carrier-class architecture with the latest functionality required by wireless operators, the *NavisRadius*™ Server is the ideal choice for the new generation of wireless data services.

Easy integration to existing systems

The *NavisRadius*™ server can interface seamlessly with existing RADIUS systems and back-end storage technologies. It also is flexible in deployment with support for a wide range a number of operating platforms, including Windows®, Sun® Solaris®, HP-UX and Linux. The *NavisRadius*™ server can even deliver high AAA rates on entry-level platforms. Compliant with the latest RFCs and providing strong multi-vendor client support (based on an extensible XML dictionary), The *NavisRadius*™ server provides all the features that any network operator, wireless or otherwise, could require to ensure accurate, reliable authentication and accounting to meet today's needs as well as the evolving needs for the future.

Features:

NavisRadius™ Server also delivers an extensive suite of features:

- PolicyFlow™ AAA programming language
- Server monitoring and statistics tools
- SNMP MIB and Trap support
- Easy SQL data base integration
- Read/write from LDAP directories
- Strong authentication (based on token cards)
- Flexible retry/alternate data source logic
- Complete support for Proxy RADIUS
- Configurable accounting
- CDR mediation and configurable login
- Extensive logging capabilities with multiple log channels (Syslog, SNMP, SQL, file, etc.)
- Available for most popular platforms (Windows, Sun, HP & Linux)

Navis® iOperations Software Solutions

The *NavisRadius*™ Authentication Server is a member of the *Navis*® iOperations portfolio of products, comprehensive multi-vendor, multi-technology Operations Support Systems for wireline, wireless, optical, circuit and data networks. *Navis*® iOperations systems are developed on extensible, programmable platforms, open APIs and advanced system architecture to provide carrier class reliability and scalability, as well as rapid and affordable integration into your preferred operations infrastructure.

The award winning Lucent *Navis*® iOperations portfolio support the breadth of Network Management Operations, including Service Provisioning, Service Assurance, Element Management, Mediation, and Modeling. *Navis*® iOperations solutions enable the delivery of advanced services across current and next generation networks – while improving efficiencies, significantly reducing operating expenses and delivering the Quality of Service that customers demand.

Navis® iOperations Software solutions are supported by Lucent Worldwide Services (LWS), Systems Integrators, and Service Provider partners who provide a comprehensive suite of world-class planning, deployment, operations and maintenance services.

To learn more, contact your Lucent Technologies sales representative, authorized reseller or sales agent.
You can also visit our web site at http://www.lucent.com/oss.

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