

Verax AAA Manager

Service provisioning and management of AAA servers

Easy management of multiple AAA servers of various types via an intuitive, rich graphical user interface.

Open for integration with third party systems and/or EAI bus.

Increased operational efficiency of user and service activation on AAA servers.

Simplifies and streamlines service management and reduces errors and fallout, reducing customer churn.

Carrier-grade solution with 99,999% reliability rating.

Support for **various types of AAA servers**.

Instant monitoring of AAA servers via rich, visual reports such as server statistics, concurrent sessions, NAS usage and others.

Product overview

Verax AAA Manager is an application providing an intuitive, graphical user interface for the management of AAA (Authorization, Authentication and Accounting) servers e.g. Radius, Diameter and others.

EAI ready

As part of the **Verax OSS/BSS Suite**, the AAA Manager is also a collection of back-end services (that can be combined with the Verax Provisioning Service) that can be used directly (RMI/SOAP) or through EAI in order to provision users and services in the AAA servers on the network.

Security

Provisioning and AAA servers are critical and sensitive elements of any operator infrastructure; therefore secure access is a key concern. All access to AAA Manager (both the GUI front-end and back-end services) is protected by a system of rights, roles and privileges configured from the Verax Administrative Console.

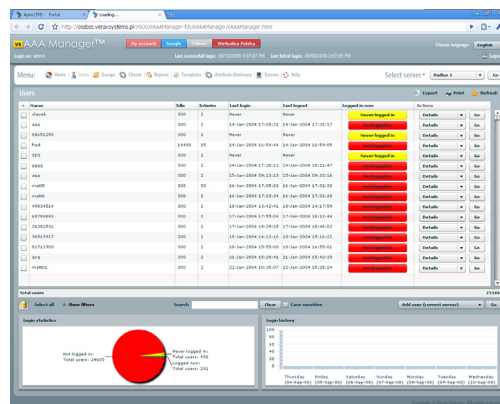
Technology advantage

Built on the state-of-the-art J2EE application server technology, the AAA Manager runs virtually on any hardware and can scale to manage up to hundreds of servers, thousands of NAS devices per server and millions of users.

The use of the advanced, feature rich Adobe® based graphical interface technology allows administrators to manage their networks in an easy and productive manner.

Verax AAA Manager feature overview

- Off the shelf support for most popular types of AAA servers including **Radius and Diameter**. In addition Verax Systems provides an open Java interface to develop proprietary or new server modules.
- **User provisioning** across multiple, heterogeneous AAA servers based on attribute templates using a simple and intuitive user interface.
- Management of individual or group attribute values for already provisioned users and groups.
- **Mini-reports** instantly showing current activity statistics for servers and NAS (Network Access Server devices), with advanced scoping and filtering capabilities.
- Group **provisioning** across multiple, heterogeneous servers based on group attribute templates and attribute values.
- **Attribute templates** for error-free provisioning. A single template is a hierarchical collection of attributes and default values for uniform and error-free provisioning of users and groups. Exemplary attribute templates include WiFi (with Nomadix attributes), WiMax, IP VPN or others.
- **Attribute dictionary**, helping operators to use human-readable AAA attribute names (i.e. CISCO or Juniper proprietary attributes) with attribute file import capability.
- **NAS management** allowing NAS management on each server (add, remove, set secret, change NAS type and others).
- Detailed **usage reports** showing connection history and each user's activity.
- **NAS reports** showing summary and detailed usage per each NAS/RAS device allowing operators to accurately design the capacity of their networks.
- **Concurrency reports** showing maximum concurrency and utilization of each NAS/RAS device in a defined period of time.
- Active users and session reports for given time periods.
- **Server log statistics reports** showing numbers of START/STOP and INTERIM records critical for evaluating AAA server load and detecting abnormal network conditions.

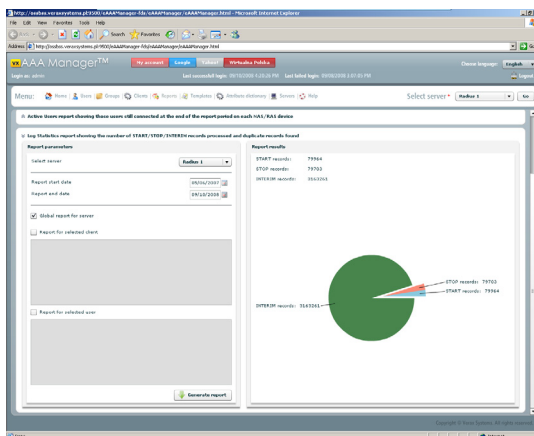


About Verax Systems
 – Verax Systems is a software product & solution provider specializing in network management, application monitoring and operations support systems.
 Since its incorporation, Verax Systems has successfully provided services and delivered numerous projects on five continents.

Benefits

Verax AAA Manager benefits include:

- Centralized management of AAA server farm via a single GUI, **reducing cost of operational management**.
- **Advanced reports** allowing for better network planning (e.g. most used NAS, most loaded servers) and detecting abnormal network conditions before they become a problem.
- **Increases operational efficiency** of service activation.
- Simplifies and **streamlines service management** and reduces errors and fallout, reducing customer churn.
- **Assures repeatability** of the provisioning process through automation via use of attribute templates.
- Ensures **provisioning transaction consistency**.
- Can be deployed either as a stand-alone solution or as part of a greater, overall system.
- **High productivity** – Verax AAA Manager offers a rich and intuitive GUI interface, allowing management of AAA servers in an easy, intuitive and efficient manner.
- **Low cost of introduction** – Verax AAA Manager supports virtually any modern operating system and database type and does not require heavy investments in hardware. It can also be migrated from open source to commercial environments as managed networks grow.



OPERATING SYSTEMS SUPPORTED (SERVER SIDE)

Linux x86 and x64 systems (2.6.x kernel required) such as Red Hat Enterprise Linux, SuSE Enterprise, Debian, Mandrake and others (Verax Systems recommends Enterprise Linux systems) using Tomcat as an application server.

Solaris 2.9, 2.9 and 10** (SPARC and x86 processors) using Tomcat as an application server.

Microsoft Windows 2000, XP, Server 2003 (PC).

IBM System i (OS/400) version 5 and later (requires WebSphere application server license).

Verax OSS/BSS Suite has been implemented using Sun Java technology for maximum portability – please check with us for support for other operating systems.

DATA BASES SUPPORTED (SERVER SIDE)

Oracle 9 and 10 (grid configuration optionally).

MySQL 4 and 5 (as a cluster optionally)

IBM DB/2

Microsoft SQL Server 2000

Please check with us for support for other, less popular database systems.

CLIENT SIDE

Any web browser supporting Adobe Macromedia Flash technology.

International support

Verax OSS/BSS Suite applications are multilingual by default. The language of the user interface is changed at runtime which significantly reduces the total cost of ownership for non English speaking countries.

On-line demo

Verax OSS/BSS Suite on-line demos are available at: www.veraxsystems.com/en/products/ossbss

Learn more

To learn more about Verax OSS/BSS Suite visit us at: www.veraxsystems.com.