

# PRODUCT SHEET



## ADVANTAL'S AAA SOLUTION

### Overview

Advantal's TACACS+ AAA Solution is an enterprise-grade, high-performance platform built to secure and manage user and device access.

It is designed for modern, hybrid IT environments where control and visibility are critical.

Powered by the TACACS+ protocol, it offers centralized authentication, granular authorization, and comprehensive accounting.

Every access request and session is tracked, verified, and logged with precision. The solution is optimized for large-scale enterprise and government deployments. It enforces consistent access control policies and ensures audit-ready activity records. With proven reliability, scalability, and security, it keeps distributed networks protected and compliant.

### MAKE AND MODEL



**Make** - Advantal



**Model Version** - V2.4

### KEY FEATURES AND BENEFITS

#### Fully Licensed for Enterprise Scale:

Advantal's AAA comes **pre-licensed to support large scale deployments from day one**, ensuring immediate enterprise readiness without any need for additional licensing or expansion costs.

#### Unified Access Control:

Enables enterprises to authenticate and authorize users and endpoints across **wired, wireless, and VPN networks** with consistent policy enforcement throughout the organization.

### **Secure Authentication:**

Implements dedicated authentication services and security policies for users accessing **network appliances and servers**.

### **Comprehensive Access Manageability:**

Offers full administrative control and manageability of user access for **routers, VPNs, firewalls, dial-up, DSL, cable, storage, VoIP, and wireless networks** using **IEEE 802.1x** standards.

### **Centralized Administrator Control:**

Leverages a unified access framework to control administrator access and configurations across all **RADIUS-enabled network devices**.

### **Command and Control Center:**

Provides centralized management for **user authentication, authorization, and accounting (AAA)**, ensuring complete visibility and governance of network access.

### **High Availability & Redundancy:**

Designed with **built-in high availability**, ensuring continuous authentication service with failover and redundancy mechanisms for mission-critical uptime.

### **Multi-Protocol Access Support:**

Authenticates users accessing core network devices via **serial/console port, telnet, SSH, and web agents**, maintaining encrypted and secure sessions.

### **Redundant Server Architecture:**

Enables users to access either the **primary or backup server** with **encrypted keys** during authentication, ensuring continuity of operations.

### **Advanced RADIUS Configuration:**

Allows configuration of **global RADIUS parameters** such as timeout, retransmission attempts, login retries, and time-of-day restrictions for granular control.

### **Centralized Access Control:**

TACACS+ centralizes **authentication, authorization, and accounting** for all network devices, offering consistent policy enforcement.

### **Scalable Architecture:**

Designed to support large enterprise and government networks, handling thousands of concurrent sessions without performance degradation.

### **Comprehensive Accounting and Auditing:**

Logs every access attempt, command execution, and session for audit-ready visibility and compliance tracking.

### **Role-Based Administrative Access:**

Provides multiple access levels for AAA administrators, grouping of network devices, and streamlined security policy management.

### **Multi-Protocol and Vendor Compatibility:**

Seamlessly integrates with RADIUS, LDAP, and Active Directory, supporting IPv4, IPv6, and multi-vendor network devices.

### **Tight Integration with Routers & VPNs:**

Delivers advanced interoperability, including **Multi-Chassis Multilink PPP** and **command authorization** for enhanced routing security.

### **Flexible 802.1X Authentication:**

Supports multiple authentication protocols including **EAP-TLS, PEAP, EAP-MD5, EAP-FAST, MSCHAP v1/v2, and CHAP**, ensuring compatibility across environments.

### **Layer 3 Access Control:**

Supports **Access Control Lists (ACLs)** across routers, switches, firewalls, and VPNs for granular traffic enforcement.

### **Context-Aware Policy Enforcement:**

Enables restrictions based on **time of day, day of the week**, and user/device profiles to enforce precise access control.

### **Web-Based Management Interface:**

Includes a **user-friendly web interface** for easy configuration and distributed administration of user and group profiles.

### **LDAP & AD Integration:**

Natively supports **Active Directory (AD)** and **LDAP** configuration using **IPv4 and IPv6**, enabling unified directory-based authentication.

### **LDAP Forwarding:**

Provides **LDAP authentication forwarding** to authenticate users stored in external directory services from leading vendors.

### **Token Server Support:**

Offers compatibility with **any One-Time Password (OTP)** solution that complies with **RFC 2865 RADIUS standards**, including RSA and similar systems.

### **Policy Decision Point (PDP):**

Acts as a **central PDP** in policy control environments, evaluating host agents, determining host states, and applying client ACLs dynamically.

### **Comprehensive Policy Evaluation:**

Evaluates host compliance based on **OS patch level, antivirus status**, and other parameters, recording evaluation results for system monitoring and security enforcement.

### **TACACS+ Administration:**

Fully supports **TACACS+** for **role-based access control, per-command authorization**, and **flow-based administration** with detailed audit logs.

### **Granular Device Control:**

Enables creation of **TACACS+ profiles** such as Monitor, Privilege, and Default to control login sessions, and **authorization policies** defining permitted command sets.

### **IPv6 Ready TACACS+ Support:**

Provides seamless **TACACS+ and RADIUS** administration and accounting over **IPv4 and IPv6** networks.

### **Attribute Substitution Support:**

Facilitates **shell profile attribute substitution** for flexible device command authorization.

### **Enhanced Security:**

TACACS+ separates the authentication and authorization processes and uses full packet encryption, ensuring secure communication between clients and servers.

### **Comprehensive Access Control Mechanisms:**

Includes **downloadable ACLs (dACLs)**, **VLAN assignments**, and **URL redirects** for granular access enforcement.

### **Administrator Classification:**

Allows access request classification based on **network location**, **device group membership**, or **RADIUS attributes**.

### **End-to-End Security Features:**

Incorporates **Downloadable IP ACLs**, **Certificate Revocation List (CRL) comparison**, **Machine Access Restrictions (MAR)**, **Host IPS**, and **Network Access Filtering (NAF)** for advanced endpoint compliance.

### **Product Lifecycle Assurance:**

Guaranteed **non-End-of-Life or End-of-Support** status for a minimum of **seven years** from the date of supply.

### **Comprehensive OEM Support:**

Backed by a **long-term warranty** covering hardware replacement, repairs, and software updates/upgrades within **4 hours of reporting**, available **24\*7\*365** with no additional cost to the customer.

### **TTP Approved:**

Advantal's TACACS+ AAA Solution is **TTP Approved**, ensuring **trusted performance, compliance, and interoperability** across enterprise and government networks.

This certification reinforces its **credibility for mission-critical deployments**, meeting stringent **security and operational standards** required by regulated sectors.

## CONCLUSION

Advantal's **TACACS+ AAA Solution** is built to meet the evolving access control and security demands of modern enterprises and government networks. By leveraging the **TACACS+ protocol**, it provides **centralized authentication, granular authorization, and comprehensive accounting**, giving organizations full control and visibility over every administrative action.

Unlike legacy systems, TACACS+ separates authentication and authorization processes, ensuring **stronger encryption, better scalability, and more precise access governance**.

It empowers IT teams to **enforce role-based permissions**, monitor all command executions, and maintain **audit-ready logs** for compliance and incident analysis.

The solution's **redundant architecture, multi-protocol integration, and policy-driven control** ensure continuous uptime and consistent enforcement across diverse, distributed environments. Its compatibility with **Active Directory, LDAP, and RADIUS** allows seamless deployment in hybrid infrastructures without disrupting existing authentication frameworks.

With **TTP Approval**, proven reliability, and enterprise-grade scalability, Advantal's TACACS+ AAA Solution forms the **foundation of secure device administration, identity management, and network accountability**.

It enables organizations to operate with **confidence, compliance, and complete control**—today and in the future.

## CONTACT FOR SUPPORT



### *Corporate Office*

Unit No. 527 and 528, 5th Floor, Vipul Trade Centre, Sector 48, Sohna Road, Gurugram, Haryana – 122018, India



### *Development Center*

17-A, Electronic Complex, Pardesipura, Indore, Madhya Pradesh, 452010

### *For Sales Assistance*

[sales@advantal.net](mailto:sales@advantal.net)

+91-7314037720

[kartikay.shukla@advantal.net](mailto:kartikay.shukla@advantal.net)

+91-9971161261

[www.advantaltechnologies.com](http://www.advantaltechnologies.com)