



TRU'AUTH 4

PRODUCT DATA SHEET

Tru'Auth 4 enables Telcos, ISPs and Service Providers to roll out new and innovative services on their WiFi, mobile and broadband (FTTH/GPON/xDSL/cable) networks.

ANTlabs TRU'AUTH 4 AAA

Tru'Auth is a proven, scalable, exceptionally reliable, and flexible AAA and provisioning system to meet the requirements of the most demanding and diverse operating environments. It enables Telcos, ISPs and Service Providers to roll out new and innovative services on their WiFi, mobile and broadband (FTTH/GPON/xDSL/cable) networks.

STANDARD FEATURES

→ Template-based Account Type Definitions

- Time-limited account
- Volume-limited account
- Time-and-Volume-limited account
- Automatic relogin of valid sessions

→ Provisioning Capability

- Online Signup (OSU) Server
- Web-based Application Programming Interface (API)
- Short Message System (SMS) One-time Password (OTP)
- Account generation via Account Receipt Printer
- Time-based attributes for time of day & day of week VSA
- IP Pool Management

→ Authentication, Authorization, & Accounting

- PAP, CHAP, MS-CHAP
- EAP (SIM, AKA, TLS, TTLS, PEAP)
 - Simulation of HLR for EAP-SIM authentication
 - IMSI triplets caching & EAP Fast support for EAP-AKA
- LDAP subscriber session lookup
- LDAP for Identity and Access Management (IAM)
- Hotspot 2.0
- MAC-based authentication
- Customizable authorization methods
 - Extendable user integration with customer CRM/OSS/BSS systems

→ Performance

- Up to 50,000 TPS Radius messages
- Up to 10,000,000 active login sessions and local provisioned subscriber accounts with external DB
- Up to 1,000,000 IP per IP Pool and up to 10,000,000 IP
- Up to 1500 TPS LDAP messages
- Up to 2000 concurrent LDAP connections (with ADC)

→ Logs and Reports

- Accounting logs (searchable)
- Online user listing (searchable)
- Listing of failed login attempts
- IMSI to TIMSI to MSISDN mapping for reporting

→ Administration

- Secure web-based administration
- Command line interface
- Audit log tracking
- Supports secured operational management access with LDAP systems

→ Proxy Policies

- AAA Radius Proxy
- WISPr / iPass support
- Quota management for proxied authentication
- Centralized accounting for clearinghouse capability

→ Reliability

- High availability (automated failover with session synchronization)
- System snapshot backup and restore
- Web-based patch management

→ Diameter / 3GPP Interfaces

- Gx Online provisioning interface to PCRF
- Gy Online charging interface to OCS
- SWm Interface with ePDG for UE authentication
- SWx UE authorization with HSS
- Diameter Routing Agent

→ Related Systems

- Tru'Auth Central Management System (CMS)
- Tru'Auth Application Delivery Controller (ADC)
- Tru'Auth Message Application Part Gateway (MAP)

→ Supported Systems Integration

- Unix PAM compatibility for LDAP authentication
- BNG/EPG support with CoA & DM
- Multiple service context support
- Dual Stack IPv4/IPv6 support
- External DB support for policy integration and reporting
- Carbon Copy of Accounting messages

→ RFC Compliance

- RFC 2865 Remote Authentication Dial in User Service (RADIUS)
- RFC 2866 RADIUS Accounting
- RFC 2869 RADIUS Extensions
- RFC 2619 RADIUS Authentication Server MIB
- RFC 2621 RADIUS Accounting Server MIB
- RFC 1227 SNMP MUX Protocol and MIB
- RFC 2868 RADIUS Attributes for Tunnel Protocol Support (TPS)
- RFC 2867 RADIUS Accounting Modifications for TPS
- RFC 2307 LDAP as Network Information Service



SPECIFICATIONS / MODULES / ADD-ONS

Tru'Auth AAA	4100	4200	4400
Subscribers	500K	2M	3M
Login Subscriber Sessions	250K	500K / 1M ¹	750K / 1.5M ¹
TPS	500 (Radius) 500 (LDAP)	750 / 1500 ¹ (Radius) 750 (LDAP)	1500 / 3000 ¹ (Radius) 1500 (LDAP)
DB Records (Searchable)	1M	5M	10M
Supported Network Interfaces	10/100/1000 Base-T 2 x Service Port (bonded) 2 x HA Port (bonded) 2 x Management Port (bonded)		
CDR Logs	1M	5M	10M
Power Supply	Redundant 350W	Redundant 750W	
Nett Weight ²	13.6 KG	21.9 KG	
Dimensions	1U 434.0 (W) x 595.6 (D) x 42.8 (H) mm	1U 482.0 (W) x 808.5 (D) x 42.8 (H) mm	
Remote Management	1 x Network Remote Management KVM Port		
Certifications	SCC, CNCA or CCC, CE, TUV, IECEE CB, KSA ICCP, NRCS, BSMI, NRTL, ACMA or C-Tick, ICES, VCCI, GS, GOST, SABS, FCC, ICT		

1 CMS Recommended
2 Actual weight may vary based on hardware configuration

TRU'AUTH-RELATED SYSTEMS

	Tru'Auth CMS		Tru'Auth MAP	Tru'Auth ADC	Tru'DB
	4200	4300	4200	4200	4300
Login Subscriber Sessions	-	-	-	-	10M
TPS	-	-	500	50K (Radius) 1500 (LDAP)	-
DB Records (Searchable)	100M	1B	-	-	2B
CDR Logs	1.5B	4.5B	10M	10M	10M
Supported NIC Interfaces	10/100/1000 Base-T				10/100/1000 Base-T 10GBASE-SR (only for HA)
Network Interfaces	2 x Service Port (bonded) 2 x HA Port (bonded) 2 x Management Port (bonded)		2 x Service Port (bonded) 2 x Sigtran Ports 2 x Management Port (bonded)	2 x Service Port (bonded) 2 x HA Port (bonded) 2 x Management Port (bonded)	
Power Supply	Redundant 750W		Redundant 350W	Redundant 450W	Redundant 750W
Nett Weight ¹	29.6 KG	30.8 KG	13.6 KG	17.6 KG	30.8 KG
Dimensions	2U 434(W) x 693.8 (D) x 86.8 (H) mm		1U 434.0 (W) x 595.6 (D) x 42.8 (H) mm	1U 434.4 (W) x 714.6 (D) x 42.8 (H) mm	2U 434(W) x 693.8 (D) x 86.8 (H) mm
Remote Management	1 x Network Remote Management KVM Port				
Certifications	SCC, CNCA or CCC, CE, TUV, IEC EE CB, KSA ICCP, NRCS, BSMI, NRTL, ACMA or C-Tick, ICES, VCCI, GS, GOST, SABS, FCC, ICT				

1 Actual weight may vary based on hardware configuration

VIRTUALIZED AAA

The Tru'Auth 4 virtual appliance product family supports several virtual platforms (VMware ESXi, QEMU-KVM and Amazon AWS).

VM SIZING

Virtualized Tru'Auth AAA			
Model	TA vAAA 4100	TA vAAA 4200	TA vAAA 4400
RAM	16 GB	32 GB	96 GB
Recommended CPU	8 Core x 2.4 GHz	16 Core x 2.6 GHz	32 Core x 3.0 GHz
Storage	800 GB	1 TB	1.2 TB
NIC	3 vNICs	3 vNICs	3 vNICs

Virtualized Tru'Auth CMS		
Model	TA vCMS 4200	TA vCMS 4300
RAM	32 GB	64 GB
Recommended CPU	16 Core x 2.4 GHz	24 Core x 2.6 GHz
Storage	1.2 TB	3.6 TB
NIC	3 vNICs	3 vNICs

Virtualized Tru'Auth ADC		
Model	TA vADC AAA 4200	TA vADC LDAP 4200
RAM	8 GB	8 GB
Recommended CPU	16 Core x 3.0 GHz	16 Core x 3.0 GHz
Storage	800 GB	800 GB
NIC	3 vNICs	3 vNICs