ANTlabs

Tru'Auth 3
Product Data Sheet

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 and EAP Fast support for EAP-AKA
- LDAP subscriber session lookup
- 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 2000 concurrent LDAP connections*

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 AD/IPA/2FA 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
- 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

With ADC
**Refer to separate datasheet*

Specifications

Model	Tru'Auth AAA		
	3100	**3200**	**3400**
Subscribers	500K	2M	3M
Login Subscriber Sessions	250K	500K / 1M*	750K / 1.5M*
TPS	500	750 / 1500*	1500 / 3000*
DB Records (Searchable)	1M	5M	10M
CDR Logs	100M	500M	500M
Supported NIC Interfaces	10/100/1000BaseT		
Network Interfaces	2 x Service Port (bonded) 2 x HA Port (bonded) 2 x Management Port (bonded)		
Power Supply	Redundant 350W	Redundant 750W	
Nett Weight**	13.6KG	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	CNCA or CCC, CE, TUV, IEC, IECEE, CB, Energy Star, EPEAT, NRCS, BSMI, ACMA or C-Tick, ICES, VCCI, GOST, KCC, FCC		

* CMS Recommended
**Actual weight may vary based on hardware configuration

Tru'Auth Related Systems

Model	Tru'Auth CMS		Tru'Auth MAP	Tru'Auth ADC	Tru'DB
	3200	**3300**	**3200**	**3200**	**3300**
Login Subscriber Sessions	-	-	-	-	10M
TPS	-	-	500	50K (AAA) 500 (LDAP)	-
DB Records (Searchable)	100M	1B	-	-	2B
CDR Logs	1.5B	4.5B			5B
Supported NIC Interfaces	10/100/1000BaseT				10/100/1000BaseT, 10GBASE-SR (only for HA ports)
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***	29.6 KG	30.8 KG	13.6KG	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	CNCA or CCC, CE, TUV, IEC, IECEE, CB, Energy Star, EPEAT, NRCS, BSMI, ACMA or C-Tick, ICES, VCCI, GOST, KCC, FCC				

***Actual weight may vary based on hardware configuration

Virtualized AAA

The **Tru'Auth 3** virtual appliance product family supports several virtual platforms (VMware ESXi, QEMU-KVM and Amazon AWS).

VM Sizing

Model	Virtualized Tru'Auth AAA		
	TA AAA 3100	**TA AAA 3200**	**TA AAA 3400**
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

Model	Virtualized Tru'Auth CMS	
	TA CMS 3200	**TA CMS 3300**
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

Model	Virtualized Tru'Auth ADC	
	TA ADC AAA 3200	**TA ADC LDAP 3200**
RAM	8 GB	8GB
Recommended CPU	16 Core X 3.0 GHz	16 Core X 3.0 GHz
Storage	800 GB	800 GB
NIC	3 vNICs	3 vNICs