



VU AES[®]



► What is it?

It is a module to provide customer service and management of its keys, devices, roles and permissions that allows the management of products and authentication factors.

► Benefits



It offers reports, filters and the ability to export them in different formats.



It has a complete operation traceability.

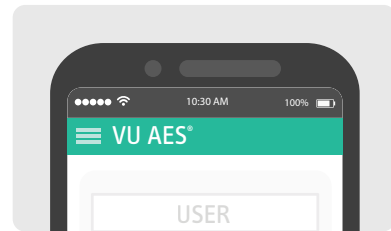


It improves the business operation auditing process.



It integrates both the internal and external user management.

► Differentials



- Parametrizable and configurable.
- Customizable.
- Integrable with Active Directory, LDAP, API REST and WSDL.



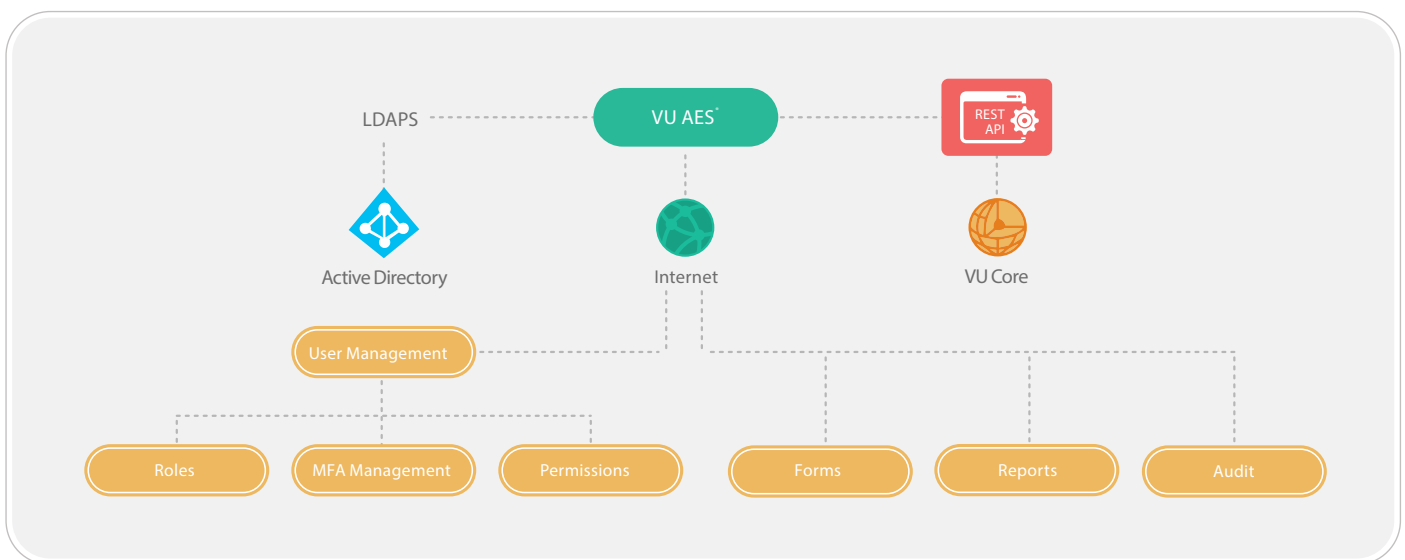
VU AES®

About VU AES®

It is a module that offers customer service. It simplifies the management of passwords, devices, roles and passes for product administration and authentication factors; all through its web interface.

It offers reports, filters and the ability of exporting them on different formats. It simplifies the business operation auditing and it has full operation traceability. It also integrates the internal and external user administration.

Its main differential feature is the screen personalization according to the client's needs, whether it is to visualize reports or forms—as a result, AES® becomes a friendly interface for the correct administration of the business.



Software requirements and compatibility

Operating System

Debian 7 or higher
 Ubuntu 14.04 or higher
 Red Hat RHEL 6 or higher
 Suse 10 or higher
 Solaris 10 x86
 Solaris 10 Sparc
 Windows 2008 R2 or higher

Databases

MySQL 5.6 or higher
 PostgreSQL 9 or higher
 Oracle 10 or higher
 MS SQL 2008 or higher
 MS SQL 5.6 or higher
 MariaDB 5.5 or higher
 DB2

Virtualization

VMWare
 Citrix
 Microsoft Hyper-V
 RHEV
 Virtual Box
 Docker

High Availability

HA Proxy
 KEEPALIVE
 REPMGR
 DRBD

Browsers

Firefox
 Internet Explorer 10 or higher
 Google Chrome
 Apple Safari

Technologies

Java 1.7 or higher

Security

RSA / SHA1 / 3DES / AES 256
 Security Certificates
 EAP-PEAP-MSCHAP v2
 TimeStamp
 HOTP/OCRA/TOTP/HMAC

Web Server

Apache 2
 Nginx
 IIS
 Weblogic
 Jboss
 Tomcat
 WebSphere

Integrations WS-I Basic Profile 2.0 SOAP 1.1 or higher WSDL 1.1 / WS-Security WSI XML Schema 1.0 TSL 2.0	Access Management Radius Cisco ACS 4.2 or higher FreeRadius Active Directory Samba Cisco ISE	Register & Report Management Crystal Reports Syslog Nagios	Mobile OS iOS, Android, Windows Phone, HTML5, USSD SMS, Push Notification
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Technical Information

VU AES[®] is a Web platform. Its integration infrastructure is designed to communicate with VU App & Cloud Server[®] through the Web REST services. Due to this, it disposes of the data saved in its DB for the administration of information in a customized way.

The application is composed of different methods, identified with functions destined to the administrative management and of use for final users. The communication between the presentation layers and the VU App & Cloud Server[®] is made through an SSL connection.

Hardware Sizing*

Number of users	Primary Instance		Secondary Instance		Storage required
	Processor	Memory	Processor	Memory	
1 to 10,000	4 processing threads	2 GB RAM	4 processing threads	2 GB RAM	60 GB - HD
10,000 to 50,000	8 processing threads	4 GB RAM	8 processing threads	4 GB RAM	120 GB - HD
50,000 to 100,000	16 processing threads	8 GB RAM	16 processing threads	8 GB RAM	240 GB - HD
100,000 to 250,000	32 processing threads	16 GB RAM	32 processing threads	16 GB RAM	480 GB - HD
25,000 to 1,000,000	64 processing threads	32 GB RAM	64 processing threads	32 GB RAM	1 TB - HD

* The present sizing estimation assumes a high availability setup.

