



VU™ Mobile Tokens

Datasheet



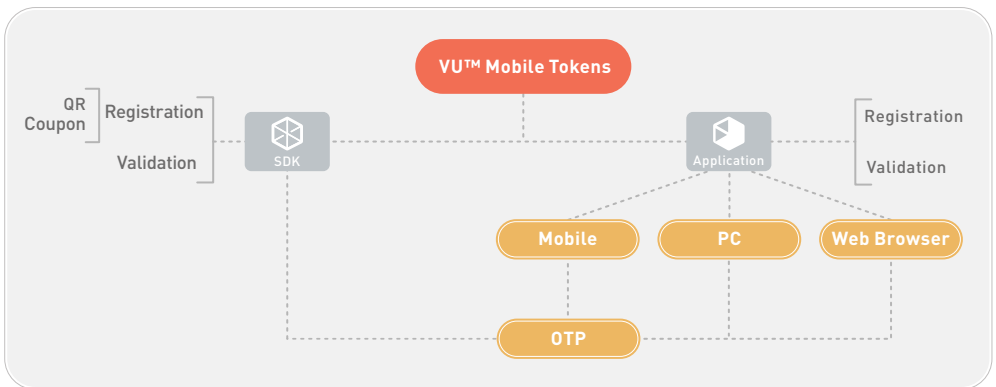


What is it?

It is the SDK component that allows to integrate the functionalities of VU™ App & Cloud Server to the mobile applications of Android and iOS, providing robust authentication to register, generate and validate two-factor authentication methods.

It does not depend on phone or Internet network, which helps avoid delays and reduce the need of remembering multiple, long passwords. It is intuitive and the device can be unlocked with a PIN or the fingerprint. The token can be easily recovered in case the device is lost or stolen, and can work on mobile devices, PC and web, without agents.

Logic operating diagram





Browser

Firefox
Internet Explorer 10 or above
Google Chrome
Apple Safari

Technology

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
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

Report Management

Crystal Reports
Syslog
Nagios

Mobile Compatibility

iOS
Android
Windows Phone
HTML 5
USSD
SMS
Push Notification

Hardware Dimensioning*

Number of users	Instancia Principal		Instancia Secundaria		Transactions per second	Required storage	LOG Storage
	Processor	Memory	Processor	Memory			
1 to 10.000	4 processing threads	2 GB RAM	4 processing threads	2 GB RAM	40	60 GB - HD	60 GB - HD
10.000 to 50.000	8 processing threads	4 GB RAM	8 processing threads	4 GB RAM	80	120 GB - HD	120 GB - HD
50.000 to 100.000	16 processing threads	8 GB RAM	16 processing threads	8 GB RAM	160	240 GB - HD	240 GB - HD
100.000 to 250.000	32 processing threads	16 GB RAM	32 processing threads	16 GB RAM	320	480 GB - HD	480 GB - HD
250.000 to 1.000.000	64 processing threads	32 GB RAM	64 processing threads	32 GB RAM	640	1 TB - HD	1 TB - HD

* The calculations and estimates contemplate the functioning on high availability.





Software requirements and compatibility

SDK of VU™ Mobile Tokens

VU™ offers the possibility of adding the VU™ Mobile Tokens functionalities to the existent applications through the SDK of VU™ Mobile Tokens, which includes all the necessary methods to carry out the integration.

In order to improve the implementation experience of the developer that will integrate the SDK, VU™ delivers use examples of all the functionalities. This makes it easier to translate to the real scenario of implementation.

The SDK is available for the following languages: Java, JavaMe, Javascript, Objective-C.

VU™ provides a class with all the required functionalities and the corresponding documentation to deploy an authentication via OTP.

The public functionalities are detailed below:

- Activation of algorithm of unique OTP per user
- Delivery of the corresponding OTP code
- Return of the current OTP's lifetime
- Synchronization of the time with the server for the proper functioning of the OTP
- Encryption and decryption of the secret shared between VU™ Mobile Tokens and the server
- Delivery of the secret ready to be stored





Integration API

The infrastructure is designed to integrate with any other platform, no matter the used language, through Web REST or SOAP services.

The application is composed of different methods, identified with functionalities destined to the administrative management and to be used by final users. The communication between the presentation layers and the VU™ App & Cloud Server is made through a SSL connection.

The available methods allow to:

- Sign up, validate, block and unblock users on the VU™ Mobile Tokens system.
- Deregister the VU™ Mobile Tokens assigned to the user on the VU™ Mobile Tokens system.
- Report the user status on the VU™ Mobile Tokens system.
- Validate the VU™ Mobile Tokens of a final user.
- Provide the OTP assigned to the user on the VU™ Mobile Tokens system.
- Validate OTPs.
- Deactivate transactions.
- Enable transactions to validate on the VU™ Mobile Tokens system.

Operative System	Database	Virtualization	High Availability
Debian 7 or higher	MySQL 5.6 or higher	VMWare	HA Proxy
Ubuntu 14.04 or higher	PostgreSQL 9 or higher	Citrix	KEEPALIVE
Red Hat RHEL 6 or higher	Oracle 10 or higher	Microsoft Hyper-V	REPMGR
Suse 10 or higher	MS SQL 2008 or higher	RHEV	DRBD
Solaris 10 x86	MS SQL 5.6 or higher	Virtual Box	
Solaris 10 Sparc	MariaDB 5.5 or higher	Docker	
Windows 2008 R2 or higher	DB2		

