IAP800® OATH SERVER

Strong Authentication & Anti Fraud

IAP800® has been the first worldwide full OATH Strong Authentication Solution. OATH is the reference standard for modern authentication solutions to IT resources.

IAP800® can also integrate a powerful Anti Fraud engine (through the AFT algorithm), allowing total on-line transaction integrity and security.

IAP800® architecture follows the technological evolution of authentication platforms, more and more standard compliant, that's to say OATH standard, allowing companies to obtain many benefits in terms of application flexibility, independence from a proprietary solution, full infrastructural flexibility, server independence from authentication devices.

IAP800® is particularly suited to secure strong authentication and validation services for Home Banking, on-line Payments, Remote Access, Web Health, e-Auctions, e-Commerce, etc.

IAP800® is a solution:

🔹 **Zero Client Impact:** its authentication devices work in unplugged mode without any connection, desired feature for successful web retail services.

🔹 **Full OPEN:** it allows companies to be "Un-Bound" from monolithic proprietary logics of a unique vendor, allowing to focus on the quality of service.
Server platform and OATH devices can be changed anytime with any other OATH devices.

🔹 **Complete,** both server and client side:

✓ Server side, the solution, besides having all the features of a full OATH Authentication server, provides an Anti Fraud Module (IRETH-AFT algorithm), able to manage transactional on-line services, ensuring total protection from any falsification during critical data transfer.

✓ Client side, IRETH produces several authentication devices: from authentication displaycards to payment displaycards, tokens, Mobile OTP (Phone App), SMS OTP, etc.

🔹 **Scalable:** in terms of huge amount of users and concurrent accesses

🔹 **Integrable:** by exposed interface connectors, no effort is required for client application integration; furthermore, IAP800® is perfectly interoperable with any other security platform (IAM, AC, SSO, Remote Signing, digital sign systems, etc.)

🔹 **Secure:** thanks to its High Reliability schemes, it provides "business continuity"

🔹 **Flexible:** in terms of evolution and customization, it is able to add several useful functionalities for new authentication, fraud protection, payment services, etc...

🔹 **EBA Compliant** according to the new PSD2 regulations

Engine	✓ OATH OTP Strong Authentication Module
Algorithms	✓ HOTP, TOTP, OCRA (OATH) ✓ RCR, CRT, AFT (IRETH)
On-line Payment Features	✓ Supports Dynamic CVV
Modules	✓ Anti Fraud, Transaction Integrity ✓ Fraud Detection ✓ Analysis & Logging authentication requests
Integration	✓ Web Services for web applications and Radius for network company access
Console	✓ Easy and customizable, Administration Web Interface, very simple and powerful
Standard	✓ OATH: NO infrastructural constraint between Server Platform and Devices
Performances	✓ Multi-channel: Internet / Phone / Mobile ✓ Scalable and Reliable: 1 sec authentication reply on over 2.000 concurrent users; more than 5 million users with 1 appliance
Interoperability	✓ MPM Module (Multi OTP Providers Manager) : a simple and reliable interoperability solution to manage different authentication systems (OATH and NON OATH)
Management	✓ Zero management in Server-Farm (Appliance or Virtual-Server appliance versions)
Security	✓ High Availability Full support (Active-Standby or Active-Active) / Disaster Recovery Infrastructure Support

IRETH proposes on the market different editions, for different requirements. In particular:

Multi-level Administration
It allows to create sub-groups of OTP devices, that can be administrated independently from other groups through dedicated administrators.

Supported Algorithms
IAP800® can manage any type of OATH standard device, and can support several other algorithms like IRETH RCR and CRT for authentication issues or AFT Anti Fraud for the on-line transactions integrity.

Fraud Detection
Through many customizable filters, the FD module provides several utilities to detect fraud like the verification of access requests reliability referred to space and time, the verification of geographical IP, the real-time management of alarms, etc.

Functions	IAP800® Full Edition	IAP800® Business Edition
Multi Level Admin	✓	
Full OATH Algorithms	✓	✓
IRETH Algorithms	✓	
Anti Fraud (AFT algorithm)	✓	
Fraud Detection FD	✓	
Log Statistics and Analysis	✓	✓
SMS OTP	✓	
Virtual OATH Token Extension	✓	✓
Passive OTP Card Extension	✓	
Caller ID Extension	✓	
Backup Server License	✓	
Dynamic Window	✓	✓