



## EZIO SERVER

### **A token vendor-agnostic authentication server**

Gemalto is the world leader in Digital Security, and a key supplier of products and services, e.g. smart cards and personalization, to banks everywhere. Our Ezio Server is the heart of the world's most versatile, scalable and secure authentication solution dedicated to protect eBanking, eCommerce and mBanking. It is token vendor-agnostic and offered in appliance mode and as off-the-shelf solutions.



The Ezio Server is a field-proven authentication solution designed to enhance online banking services and provide a secure user-experience. It is token vendor-agnostic enabling freedom of choice and fully committed to offer flexible, secure and easy deployments.

#### **A Complete Turnkey Solution**

In an environment of constant change and increased fraud attacks, banks need a security solution that is adaptive and reacts to market changes. A strong, comprehensive, scalable and cost-effective solution that allows freedom of choice - without compromising on the security, speed of deployment and features offered to end-users.

The Ezio Server is the natural starting point of any eBanking security set-up. Highly customizable and agnostic, it allows banks to combine different authentication schemes with all brands of hardware and software tokens - enabling secure authentication and consistent user-experience across various types of online banking channels.

This server supports both standard multi-factor authentication such as One Time Passwords (OTP) and Challenge/Response, including more advanced transaction verification and signing methods such as EMV/CAP/DPA, OATH and OCRA.

#### **A Token Vendor-agnostic Server**

The Ezio Server authenticates millions of online banking users every day, authorizes remote access and internet transactions and protects sensitive data from fraudulent online attacks.

Gemalto is fully dedicated to offer freedom of choice. With this authentication server there is no lock-in to any token vendor or solution, allowing banks to keep pace with evolving business needs and roll-out across multiple countries while optimizing costs. Various tokens can be used, in combination, to provide a secure, yet flexible authentication realm. This allows banks to issue different tokens from different vendors and types - all being authenticated with the same server.

The Ezio Server is field proven with a track record on supporting multiple token types tested and confirmed by 24 different token vendors.

### Multiple Channels, Multiple Devices

A key benefit of the Ezio Server is that it allows banks to pick and mix from our selection of channels and installations — from eBanking, mBanking, phone banking and from eCommerce to eBroker or Multi-Issuer setups. Or even as an Authentication-as-a-Service setup.

Thanks to its unique flexibility and the ability to support several authentication devices and solutions simultaneously, the Ezio Server allows you to easily segment your customer base to support different customer needs. It allows banks to assign different kind of security devices for different use cases based on risk profile, usage pattern and preferences.

The Ezio Server has a multi-tenant architecture supporting up to 1024 user domains, each with separate authentication policies, but sharing a single authentication infrastructure.

### Next- generation Authentication Solution

The Ezio Server appliances are high performance appliance that provide multifactor authentication with end-to-end encryption of keys protected by a FIPS-certified Hardware Security Module (HSM).

The appliances in the authentication server were placed in the Visionaries quadrant in Gartner's 2011 Magic Quadrant for User Authentication.



"Your Authentication Offerings are strong compared to competing vendors: no-one else has the same range of delivery options you do."

The DS3 Authentication Server positioning in Gartner, 2011

## KEY FEATURES

### Identity Assurance and Access Control

- > Strong 2FA of OTP
- > E2E encryption of password/OTP
- > Separation of domains
- > Comprehensive audit logging and reporting
- > Clustering support for high-availability and disaster recovery
- > FIPS 140-2 Level 3 HSM for key storage and cryptographic operations
- > Centralized web-based administration for managing the system

### Compliance with Regulatory Standards

- > FFIEC (the US)
- > MAS IBTRM (by Singapore Monetary Authority)

- > HIPAA, Sarbanes-Oxley and other industry-specific regulations

### A Flexible Solution Supporting Open Standards

- > Supports a wide range of 2FA tokens, both hardware and software
- > Lightweight Directory Access Protocol (LDAP)
- > Remote authentication dial-in user service (RADIUS)
- > Java application programming interfaces (APIs)

### Mature and Certified

- > Certified for RSA Secured Partner Program
- > MasterCard EMV CAP
- > Ready for IBM Tivoli® Software Program
- > Initiative for Open Authentication (OATH)

## Technology Roadmap

As more people use online platforms to carry out more sensitive and higher valued transactions, the need for organizations who operate such systems to have the ability to remotely verify the identity of the user becomes extremely critical. The Ezio Server was designed and implemented to specifically meet such organizations' user authentication requirements, with emphasis placed on security, cost-efficiency and flexibility.

The Ezio Server offering is an end-to-end solution that includes services such as: consultancy, installation, integration, training and life-cycle maintenance.

The authentication server holds features such as end-to-end encryption and transaction authorization allowing banks to provide customers with a peace of mind - leading to increased confidence, trust and loyalty towards the bank.

**With the Ezio Server as your authentication solution you can secure your current investment as well as technology roadmap for the future.**

APPLIANCE MODELS	DSX-50	DSX-100
Specifications	<ul style="list-style-type: none"><li>&gt; 19" 2U rack mount server</li><li>&gt; 1x Intel Xeon Quad Core CPU</li><li>&gt; 8GB RAM</li><li>&gt; 1 x 146 GB - OS + Application</li><li>&gt; 2 x 146 GB (RAID 1) – Data</li><li>&gt; Gigabit Ethernet</li></ul>	<ul style="list-style-type: none"><li>&gt; 19" 2U rack mount server</li><li>&gt; 2x Intel Xeon Quad Core CPU</li><li>&gt; 16GB RAM</li><li>&gt; 1 x 146 GB - OS + Application</li><li>&gt; 2 x 146 GB (RAID 1) – Data</li><li>&gt; Gigabit Ethernet</li></ul>
Performance	<ul style="list-style-type: none"><li>&gt; 100 OTP verification per second</li><li>&gt; Up to 500,000 users</li><li>&gt; 1000 concurrent login sessions</li></ul>	<ul style="list-style-type: none"><li>&gt; 200 OTP verification per second</li><li>&gt; Up to 5,000,000 users</li><li>&gt; 2500 concurrent login sessions</li></ul>
COMMON FEATURES		
Key Components	<ul style="list-style-type: none"><li>&gt; Pre-Hardened Linux with built-in packet filtering Firewall</li><li>&gt; Authentication Server with Web Based UI and Database</li><li>&gt; Radius Server</li><li>&gt; Embedded Software HSM</li><li>&gt; Optional FIPS 140 – 2 certified Hardware HSM</li><li>&gt; Java Client API with two ways SSL based communication support</li></ul>	
IT Infrastructure Support	<ul style="list-style-type: none"><li>&gt; Web and Application servers: IIS, Apache, Tomcat and IBM Websphere and Oracle Weblogic</li><li>&gt; TAM EB Webseal</li><li>&gt; CA SiteMinder</li><li>&gt; Radius Clients</li><li>&gt; VPNs</li></ul>	
Token Support	<ul style="list-style-type: none"><li>&gt; HW tokens: OATH HOTP &amp; TOTP, OCRA, EMV CAP, Vasco Digipass, RSA SecuriD and Safenet</li><li>&gt; Software tokens: certificates and SMS OTP</li></ul>	