

Aventra Security Solutions

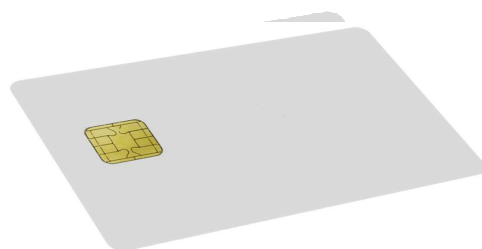


Overview

Our modern society relies more and more on electronic identification of users in areas like secure e-mail, authentication, and electronic signatures. Aventra has developed a full portfolio of security products to address these challenges. These products include secure tokens, personalisation and deployment tools, and software platforms for applications using tokens to authenticate users, as well as solutions to manage the safe and smooth issuance of electronic ID's and much more. Aventra also has a full-service bureau for producing cards ranging from simple bar-coded library cards to advanced PKI enabled ID cards.

ActiveSecurity MyEID Card

MyEID PKI Card is a **secure token** for authenticating users and performing cryptographic calculations like electronic signatures. MyEID card also serves as a visual ID card and access control token. Based on the latest JavaCard™ technology, it enables the upgrading of the functionality by adding or removing software modules, called applets. Java™ is an open technology, supported by many of the leading smart card suppliers. Customer specific applets can be developed by Aventra or by third parties.



The MyEID applet developed by Aventra conforms to global Public Key Infrastructure standards like ISO7816 and PKCS#15. For highest possible security the user PIN can be replaced or complemented with two additional technologies: GridPIN is based on a pop-up challenge grid that is used to form a onetime

PIN that cannot be re-used by outsiders watching the authentication. PalmSecure™ biometric technology by Fujitsu uses the unique blood vein patterns in the palm of the user's hand.

MyEID card is also available as a Dual Interface version, compatible with T=CL protocol also emulating Mifare™. It is also possible to combine various RFID technologies on a standard MyEID card. MyEID card comes with a Microsoft certified Windows Smart Card Minidriver, as well as MyClient software, supporting both CSP and PKCS#11 interfaces. It is also PIV compliant, which makes it suitable for many Thin Clients.

ActiveSecurity MyLogin

MyLogin enables **easy and secure login to Windows** computers and workstations. It lets you use an RFID card instead of entering your password and username manually. This makes the login process easier and safer. Eliminating hard-to-remember passwords also reduces the workload of the administrators. The cards can also be used as visual ID and/or in access control, combining both physical and logical access into one card.

MyLogin works with single stand-alone computers as well as workstations in larger environments. You can use almost any RFID card in the Mifare™ family, as well as Felica and NFC.



Active Process Manager

Active Process Manager (APM) is a **complete software solution for the personalisation and management of smart cards and related processes**. It can be configured to control all the hardware of a typical smart card personalisation unit. It is especially well suited to building an RA service point for PKI card issuance systems. It is also a very powerful building block in large Card Management Systems (CMS). As such, it can be used for smaller CMS applications. APM is easy to connect to existing systems and services.

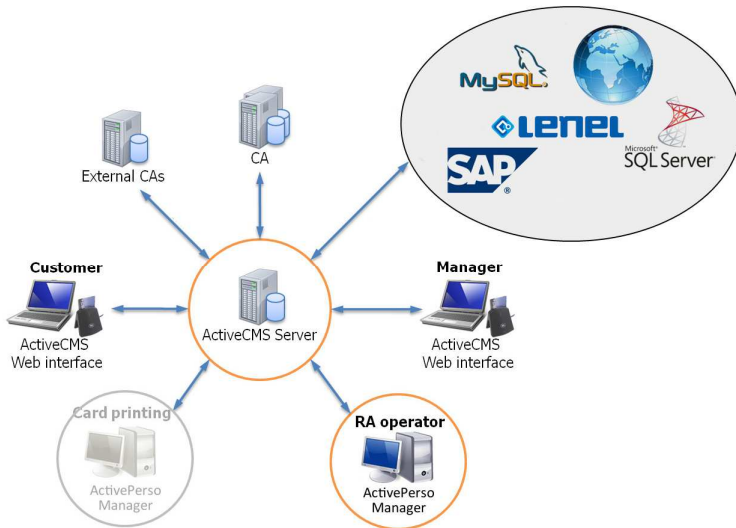
The innovative software architecture of APM allows an easy adaptation to various personalisation needs. It consists of a large selection of software modules that interface the system to the external world, such as hardware or services. A specific functionality can be achieved by chaining and configuring the software modules, or plug-ins. APM can be installed under Windows™ XP, Vista, 7, and 8. APM has a clear and simple user interface. There is a separate interface for configuring the functionality.



ActiveCMS

ActiveCMS is a **flexible and cost-effective IAM and card management system**. ActiveCMS makes complicated workflows and processes automatic, saving a lot of time, and eliminating errors. It gives you full control of identities, credentials, access rights, roles, competences, and tokens in your organisation. ActiveCMS fully supports strong authentication, enabling the use of certificates on smart cards to log in to computers and services. It can adapt to virtually any kind of need because it is highly scalable and fully configurable. The intuitive browser interface of ActiveCMS lets the operators carry out all user and token

management tasks with minimal training. The user interface can be tailored to specific needs, and bespoke interfaces can be created to optimise tasks that are frequently used.



The modular structure of ActiveCMS Server enables it to be integrated easily to all kinds of existing infrastructures. ActiveCMS Server can support an unlimited number of organisations in separate databases, which makes it suitable for providing card management services to other organisations.

Only a web browser is needed for basic user and token management operations. Local card personalisation, data capture, and connection to local databases and services can be achieved with Active Process Manager, which acts as an interface between Active CMS and the external world.

Security in ActiveCMS is scalable. Database fields can be encrypted. Every action is stored in the log and signed electronically. Operators can be authenticated with smart cards. Any action in the system can be set to require approval using electronic signature.

Other services

Consulting and custom development

Aventra has a wide experience in identity management projects, PKI and RFID technologies, as well as in integrating our products in customer environments. We have successfully completed many projects ranging from custom Java applets to nationwide systems. We are ready to place our expertise at our customers' disposal already in the planning phase of a project.

Service and support

Many customers need support to maintain their systems in perfect condition and to ensure uninterrupted operation. Aventra provides support for all our software products. We can also service in house most of the hardware we deliver. For the most critical installations we provide a hot line telephone number with guaranteed response times, and ready-to-dispatch spare hardware dedicated to named customers.



Personalisation services

In addition to our software production and system integration, Aventra also has a full-service bureau to serve the customers who do not wish to produce their cards themselves. To guarantee maximum security, we have built a separate high-security production room with completely independent access control and recording video surveillance. All production data is handled physically within our secure premises.

Aventra produces more than half a million personalised cards annually. Our own service bureau also adds to our expertise in producing first class systems and software for card personalisation and management.

Customers

Our security products have a high market share in Finland. Many authorities use smart cards and card personalisation systems by Aventura, most notably in aviation and healthcare sectors. Tens of thousands of PKI enabled ID cards are produced each year using our systems.

Summary

Aventura's security related products and systems range from smart tokens to high-end process control and management systems. These building blocks can be used for a wide range of applications. It is possible to set up an ID card solution for a small company, or construct a country-wide PKI card production system integrated to large existing databases and external services. Aventura also has in-house smart card personalisation, custom development, as well as consulting and support services.



About Aventura Ltd.

Aventura specialises in information security products and services. We are focusing especially on Public Key Infrastructure and RFID technologies. Most of our products are developed in house.

Aventura offers a complete portfolio of products related to secure identification ranging from high security smart cards to complete systems and solutions for issuing and managing identities, cards, and secure tokens.

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