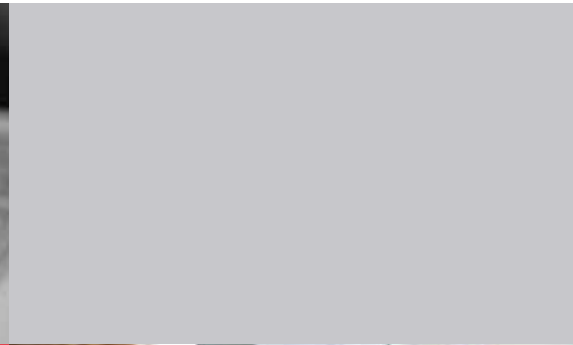


Medusa

Authentication platform



Do you want to offer your clients, suppliers, partners or employees high-security internet access to your organisation's data and applications? If your priority is a robust and well-established infrastructure solution, then Medusa – our central authentication platform – is your product of choice.

Medusa features a flexible and open architecture that already integrates many authentication services, and the number of available plug-ins is constantly growing. Medusa offers you versatile configuration options, so it can be integrated into your IT environment in no time. By deploying Medusa, you can achieve two apparently conflicting objectives at a stroke: cost efficiency, and an accurate fit.



The market is setting ever-higher requirements for secure access and defence against unauthorised attacks on web applications. Ergon began to focus on these key issues more than ten years ago, triggering the development of Medusa – a central upstream authentication platform. When combined with a Web Application Firewall (WAF) such as Ergon Airlock, Medusa ensures across-the-board protection for your corporate access.

Medusa features

- **Tokens supported**
OTP (SecurID, SecOVID, etc.), Client-Zertifikate (X.509, SuisselD, etc.), Flickering
- **Integrated tokens**
Password, mobile TAN, mobile OTP, matrix card, email-OTP
- **Single Sign-on**
SAML 2.0 idp/SP, Kerberos, HTTP cookies, HTTP headers, URL tickets
- **User directories**
JDBC databases, LDAP directories/MS ActiveDirectory, integrated databases, etc.
- **User administration/IAM**
User, token and role administration, self-registration and self-migration, report engine, password policy enforcement
- **Interfaces**
Web application, RADIUS, SOAP interface, EAP/TLS 802.1X
- **Operational features**
multitenant, failover and clustering, audit log, log viewer
- **Operating systems**
Java-based: Windows, Solaris, Linux, AIX, VMWare, etc.

An established solution with a broad-based market presence

Medusa is deployed to guarantee secure client and employee logins in every sector such as banks, insurance companies, administrative organisations and industrial enterprises. More than 60 clients in Switzerland have already opted for this solution – and our user base is continuing to grow. Medusa is a highly mature product that offers an excellent cost-to-benefit ratio.

High flexibility ensures low integration costs

Medusa features a modular structure with flexible configuration. To meet clients' specific requirements, additional business requirements can easily be integrated from an extensive base of standard functionalities with the help of a plug-in mechanism. Thanks to its construction kit principle, Medusa is modular and flexible as regards its functional scope, and also when it comes to cost.

Simple installation and trouble-free operation

Once Medusa has been installed and configured, it runs with no need for further interventions. Regular updates from Ergon ensure that the product is always at the forefront of technology so that it can ward off the latest attack scenarios.

High-security access at bank level

Medusa offers maximum security. It is used for internet banking and also to protect other sensitive employee logins. Our development process is governed by strict quality standards, and the design of Medusa's internal architecture guarantees utmost security.

Single Sign-On (SSO) for heterogeneous application landscapes

Medusa ensures that other web applications with their own user master records are equally simple to integrate into the standardised web SSO infrastructure. Alongside a large number of supported SSO mechanisms (including SAML), Medusa also accepts authentication tickets issued by other parties.

Flexible choice of credentials

Medusa supports numerous internal and external credentials (means of authentication). Any desired number of credentials can be used in parallel with Medusa. If



required, the migration to a different credential can be automated to minimise the implementation cost.

A platform with its own integrated low-cost authentication services

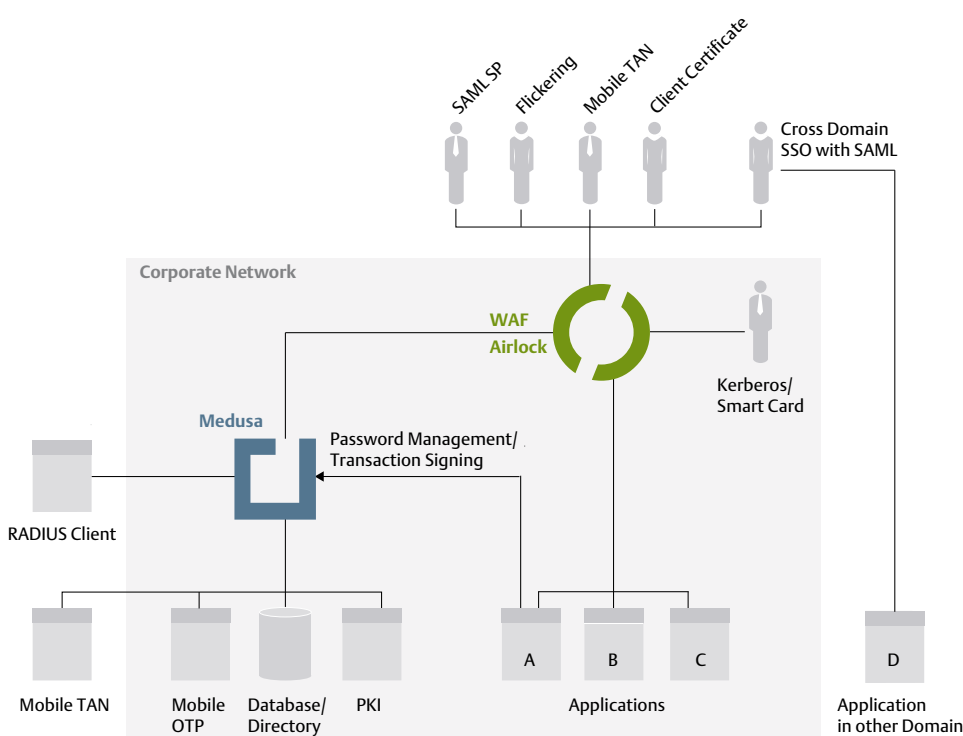
Medusa is equipped with its own integrated authentication services: matrix card, mobile TAN via SMS and mobile OTP. All of these are low-cost options, because there is no need to purchase tokens or specific operating hardware. Management of these options is fully integrated within the product.

High level of automation for user administration processes

Medusa's user administration is an IAM tool that comprehensively covers a user's entire life cycle with the use of automated workflows. To guarantee efficient operation, Medusa can be configured so that the processes run automatically with no interaction by the administrator or Helpdesk staff.

Centralised user data – SOA interface for client applications

Medusa is the central hub for all aspects of authentication data management. Medusa provides other applications with a web service interface that offers authentication-related actions: for instance, Medusa can implement complex password guidelines, but password changes can still be handled decentrally in a business application. Moreover, Medusa makes its services available to other components in an SOA environment.



Architecture
 Medusa is mostly used in combination with Airlock. As the upstream HTTP reverse proxy, Airlock handles session management, protection against web attacks (filtering) and forced authentication. Medusa carries out the authentication and forwards the information on the logged-in user to the protected applications in a suitable form (ID propagation).
 Medusa comprises four elements: the login application, the admin application, the workflow engine and the web service. These elements can be installed flexibly in different zones so that high-security applications can be implemented.

«Authentication applications are highly exposed: they can be reached anonymously by all users, including potential attackers. This is why the security of login applications is a key issue as regards the overall security of web application systems. The Medusa authentication platform was developed in the light of this knowledge, and it is subject to the strictest quality controls.»

Marc Bütikofer, cryptology and security expert at Ergon



smart people – smart software

Ergon stands for highly qualified IT specialists with a clear focus on customer benefit. The company leads the field when it comes to developing custom applications, and it is an established manufacturer of software products. Solutions from Ergon give customers a real competitive edge.

By consistently aligning itself with the market and maintaining close links with science and research, Ergon can anticipate the latest trends and cater for them thanks to its technological creativity. Satisfied customers and satisfied staff are the key to its success.

In 2010, Ergon achieved turnover of CHF 27.1 million, and the company employed a workforce of 139 as at 31 December 2010. Ergon won the SwissICT Award (2008) in the Champion category, and the Prix Egalité (2011) in the SME category.

For more information, visit www.ergon.ch

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