

SOLUTIO

POSTFINANCE: SECURE ACCESS
MANAGEMENT IN E-BANKING



SECURE ACCESS MANAGEMENT IN E-BANKING

With 1.7 million users, PostFinance E-Finance is a leader in the Swiss e-banking market. Identity and access management play a central role in supporting the large number of users. Security and efficiency can only be ensured through automated management of user data and reliable authentication. Like PostLogistics and SPI, PostFinance relies on Nevis security products for authentication and user management. Thanks to its modular approach, Nevis supports rapid integration of new applications, technologies, and authentication tools, as well as easy customization of login procedures. To enable secure and simple login from anywhere, Nevis integrates Swisscom's Mobile ID.

NEVIS AT POSTFINANCE: MODULAR, FLEXIBLE, AND EXPANDABLE

nevisProxy, nevisAuth: access management

nevisProxy is a secure reverse proxy with an integrated web application firewall (WAF). As the central entry server, nevisProxy controls access to E-Finance. It blocks unauthorized requests and routes them to nevisAuth for login and authentication. The entry servers manage large numbers of logins and user sessions. Through session sharing and stateless load balancing, the load is optimally distributed among the server population.

nevisIDM: user and access data

nevisIDM centrally stores credentials and authorization data and applies user roles for automatic administration of user data. A gateway application integrates PostFinance-specific interfaces with nevisIDM.

«THIS SOLUTION GIVES US MORE FLEXIBILITY TO IMPLEMENT OUR FUTURE REQUIREMENTS. WE CAN NOW INTEGRATE NEW USER GROUPS, APPLICATIONS, AND AUTHORIZATION PROCESSES SIGNIFICANTLY FASTER AND EASIER.»



Eric Müller, PostFinance, Architect Online Channel

With more than 2.9 million customers, PostFinance is an important player in the Swiss financial market. The subsidiary of the Swiss Post is the market leader in payment transactions and electronic account management.



SUCCESS FACTORS

- System availability, scalability, stability
- Security through combination of reverse proxy and WAF functionality
- Comprehensive zone concept, upstream authentication, secure identity propagation
- Efficiency through automated role-based user data management
- Fulfillment of advanced compliance requirements
- Parallel support of various authentication methods
- Flexible authentication and easy customization of login procedures
- Secure and simple authentication on mobile devices with Swisscom Mobile ID
- Stateless load balancing: nevisProxy instances can be taken offline for maintenance. No loss of user sessions on server breakdown.
- Integration of additional applications into single sign-on functionality
- Personalization across multiple areas by combining public and protected offerings of the PostFinance portal

FACTS AND FIGURES

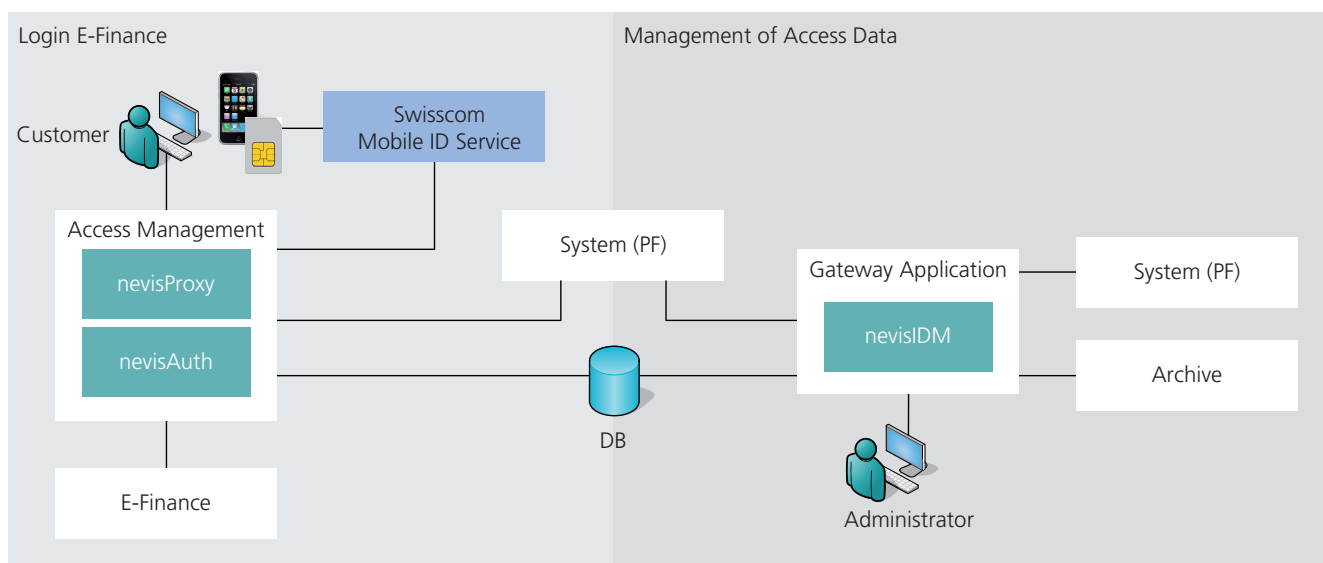
- 1.7 million users
- 6 active entry servers with multiple instances and stateless load balancing
- High transaction volumes: 400 million transactions per year
- Up to 1,900 concurrent users
- High number of logins (peak values): 831 per minute; 20,990 per hour; 218,000 per day
- Peak load: 1,620 hits/sec

TECHNOLOGY

Identity and access management infrastructure with Nevis components

- nevisProxy: reverse proxy and web application firewall (WAF)

- nevisAuth: authentication server
- nevisIDM: central management of user and access data via gateway application
- nevisKeybox: key management



Identity and Access Management System PostFinance

HIGH-END SOFTWARE & SECURITY ENGINEERING

AdNovum is a leader in the Swiss IT sector and a first choice for demanding IT projects. Our custom-made solutions are designed to the highest quality standards in the tradition of Swiss precision engineering.

AdNovum offers a full range of services to implement and maintain software and security solutions with high functional and technical requirements. For years, renowned organizations from diverse industries and the public sector have trusted the strength of AdNovum's IT competence, services, and products.

AdNovum's solutions combine standard products of renowned vendors with open-source software and open standards. They seamlessly integrate into existing systems and are easy to expand. This results in sustainable high-performance reference projects such as the identity and access management solution developed for PostFinance E-Finance.

AdNovum was founded in 1988. Headquartered in Zurich, the company has offices in Bern, Singapore and Budapest and employs 380 people, 70% of whom are software engineers with a master's degree.

CONTACT

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