

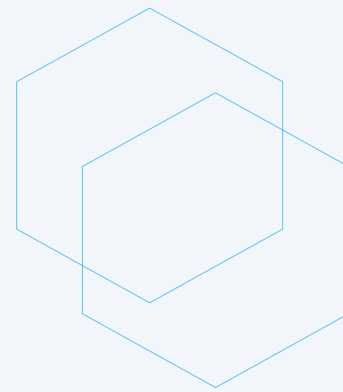
Banking – Safe and Secure!

High-Performance Real-Time Fraud Detection at
Banking IT Specialist Atruvia



 **ATRUVIA**

Initial situation and challenges



Phishing scams, shock calls, fake online stores, alleged debt collection letters, emails or text messages from supposed banks: when it comes to fraud detection, financial service providers are constantly having to adapt to new challenges. In particular, **the real-time detection of fraud attempts is critical to success**. Atruvia, an IT service provider for the German „Volksbanken und Raiffeisenbanken“ and other companies and central institutions in the cooperative financial group, is also dealing with this issue. Due to the high volume of data, Atruvia has taken on this challenge with the help of a **highly scalable big data solution in its own data center**, which checks transfers for known fraud patterns in real-time. The performance of the system is of crucial importance here. This is because in financial transactions, such as bank transfers, **every millisecond** counts, especially at the point between the customer's request and the actual execution.

When the market for big data distributions changed and the software previously used by Cloudera was restructured, it became imperative to migrate the big data cluster and Atruvia looked for an alternative big data distribution. The team found what it was looking for in Stackable, a provider of a modern and **modular open source data platform from Germany**.

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*With Stackable, we never had the feeling that we were just one customer among many. On the contrary, the Stackable team always gave us the feeling that we were their priority. We really felt that we were in good hands at all times. This level of commitment to our project and **this fast and technically sound service is something we have never experienced from others before.***

Jens Dennig, Solution Architect at Atruvia AG

ATRUVIA

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Together with Atruvia's highly competent team, we were able to establish the Stackable Data Platform as part of a mission-critical application and meet the highest performance and reliability requirements.

Sönke Liebau, CPO and Co-Founder at Stackable

Stackable

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Solution

The Stackable Data Platform offers users a **curated selection of the best open source data apps** for data storage, data processing and data analysis, with Apache HBase and Apache Hadoop HDFS selected as the central components for fraud detection. **Modularity and flexibility** make it easy to upgrade individual apps or add additional components. Even components that were not included as standard in the Stackable Data Platform were identified during the course of the project and also supported by Stackable in consultation with the customer.

As the **Stackable Data Apps run on Kubernetes**, the change in big data distribution also enables migration from a bare metal installation to a modern Red Hat OpenShift private cloud.

Finally, it was important to Atruvia that Stackable subjects its software to continuous **vulnerability tests in accordance with current European security standards** in order to maintain the security of its platform at a very high level.



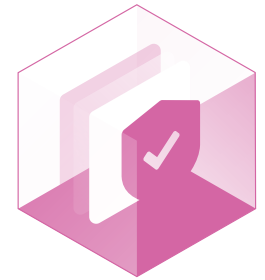
Results and successes

Working closely with Stackable's support and professional services team, Atruvia's team of experts **successfully migrated their fraud detection system** to a modern, open and future-proof solution **based on the Stackable Data Platform**.

The switch from a bare-metal installation to the **Red Hat OpenShift Private Cloud** was made possible by the Red Hat OpenShift certified Stackable components. The new solution is operated fail-safe in two data centers. Extensive performance tests in the production system after go-live confirmed that the solution meets the expected performance standards. **Performance and security were even improved compared to the previous platform**.

Not only during the entire migration project, but also during productive operation, Stackable's service team now ensures constant consulting and reliable support for the application.

The result is convincing: not only is the Atruvia team very satisfied with the use of the Stackable Data Platform. **The previous costs in the area of fraud detection have been more than halved thanks to the switch to Stackable**. A clear win!



Services at a glance

Provision of the Stackable Data Platform

Support with configuration and rollout

Successful performance tests on Kubernetes

Targeted backports of patches to enable Atruvia to operate a stable HBase version

Continuous analysis and mitigation of vulnerabilities in the open source software

24/7 support of the operation as part of the business subscription

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*Stackable has supported us very well in ensuring that we can now operate our Fraud Detection product scalably in the cloud. The result is not only a high-performance system. **We have also been able to more than halve our costs in this area.***

Ronald Hapke, Tribe Lead „Security Solutions“ in the “Digital Solutions“ business unit at Atruvia AG



About the customer

Atruvia AG is the digitalization partner in the Genossenschaftliche FinanzGruppe. The company combines decades of expert knowledge in banking and information technology. The IT solutions and services tailored specifically to banks range from data center operations to the Atruvia banking process and app development. The company uses forward-looking technologies such as smart data and places great emphasis on process optimization and regulation.

Headquartered in Karlsruhe and Münster, with branches in Munich, Frankfurt and Berlin, the company currently employs almost 8,400 people in the group of companies, who together generate an annual group turnover of around 1.77 billion euros. Atruvia's customers include around 820 Volksbanken and Raiffeisenbanken in Germany, the companies of the cooperative financial group as well as numerous private banks and companies from other sectors, including the ADAC. Atruvia manages around 164,000 banking workplaces and administers almost 86 million customer accounts. With over 32,000 of its own self-service machines throughout Germany, the company ensures a smooth cash supply across the country. Atruvia operates the agree21 banking procedure in its high-security data centers.

More at
www.atruvia.de



About Stackable

With its open source data platform, Stackable stands for professional data sovereignty in the corporate context. The company is committed to data security, openness and transparency and offers first-class support at fair conditions.

The company, based in Wedel, Germany, was founded in 2020 out of the open source community. Stackable relies on open source code to support companies in dealing with big data. As an innovative and internationally active player, Stackable puts the community at the center, promotes cooperation instead of competition and supports companies in the development of their data architecture.

More at
www.stackable.tech

