



CUSTOMER REFERENCE

NIS AG

Company

Industry: Software Manufacturer,
Energy Sector

Location: Sursee

Founded: 1996

Employees: 40

Knowledge for the Energy Future

NIS AG is a leading provider of network information systems for energy suppliers such as BKW, CKW or EKZ, and thus a central partner for the security of Swiss infrastructure. Today, energy companies face the challenge not only of reliably planning and documenting networks, but also of ensuring the operation and access to critical information according to the highest security and efficiency standards.

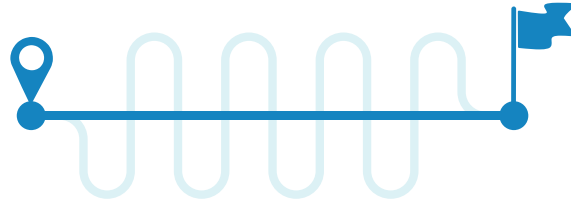
This is precisely where NIS AG comes in: with innovative geodata-based complete solutions and a consistently modern approach to software delivery, it sets new standards for the provision and use of network information systems.

This enables NIS AG to offer energy suppliers the opportunity to use knowledge efficiently, transparently and comprehensibly – thus laying the foundation for a secure, economical and sustainable energy supply in Switzerland.



Digital Strength, Resilient Supply

NIS AG faced a fundamental transformation: away from classic on-premise solutions that had to be operated by customers and maintained with considerable effort, towards a modern SaaS model.



The goal was to significantly shorten release cycles, provide new functionalities faster, enable flexible subscriptions and feature flagging, and maintain the highest availability and security standards.

This change meant for NIS AG not only a technological reorientation, but also the development of new skills and a completely new mindset – from a software supplier to an operator of its own cloud-based service offering.

The first steps were demanding: all project modules had to be recorded and thought through – from scaling and access concepts to security, interfaces, and components. The central question: Where does the necessary knowledge come from, and how can it be translated directly into a marketable, customer-oriented solution?

Choosing the right partners was key to NIS's successful transformation.

AWS convinced with strong technology and positive past experiences, while copebit provided direct access to expert knowledge, specialists, and the AWS partner world. **For NIS, the Migration Acceleration Program (MAP) was initiated – a turning point in the project.** AWS delivered the technology, copebit the market expertise – from the first idea to the market-ready product. Close collaboration with AWS experts for Well-Architected principles created a stable foundation that enabled NIS AG to test faster, act closer to the customer, and transfer the added value from almost 30 years of software development into a modern SaaS world.

„The support from AWS and copebit was above & beyond. This commitment decisively helped us successfully drive our transformation forward.“



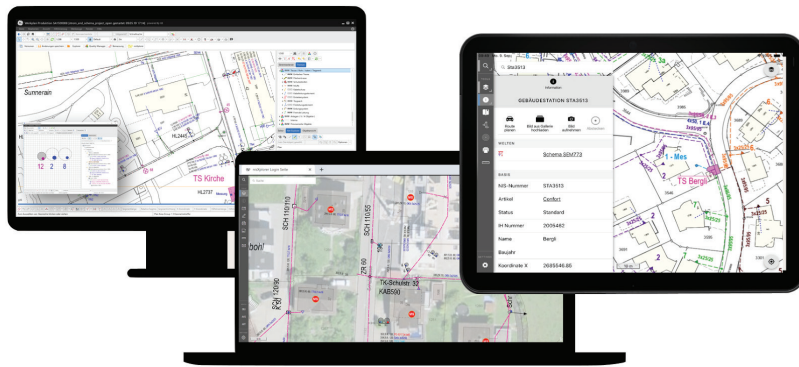
Andreas Boos
CTO NIS AG

Think big, run Well

NIS AG's customer base is diverse: some energy suppliers operate compactly and agile, while others work within highly complex structures and process data volumes in the range of several hundred gigabytes. The new SaaS offering takes this diversity into account, ensuring maximum flexibility as well as the highest security and scalability standards.

The technical implementation therefore consistently follows the **AWS Well-Architected Principles**:

- **Landing Zone** for productive, non-productive, and sandbox accounts – secured with AWS Shield and GuardDuty, and multi-tenant capability.
- **Kubernetes Cluster** extremely scalable and orchestrated via EKS, load distribution via Load Balancing, and FluxCD.
- **Desktop Virtualization** based on Amazon AppStream 2.0 to enable performant and secure access to the platform. All orchestrated via Ansible
- **Interfaces** to GE Vernova's cloud-enabled partner software.



The results are impressive: thanks to the close cooperation with copebit, the implementation was smooth, without shortcuts and at the highest level of quality. Together, a platform was created that is AWS Foundational Technical Readiness (FTR) Certified - **a clear seal of approval for stability, security and best practices**. At the same time, NIS AG successfully established itself as an AWS Technology Partner for software, laying the foundation for further growth.

Code Instead of Complexity

The major change is now tangible: the entire previous software stack has been fully migrated to the cloud and is now available as **Infrastructure as Code**. Thanks to copebit's experience, every component of the platform – from infrastructure and security mechanisms to workloads – could be comprehensibly described, versioned, and reproducibly implemented. This automation reduces errors, is fully auditable, and enables the NIS team to deliver new features faster and more relaxed.

A large part of the basic workloads is already automated, so that the developers at NIS AG can finally concentrate on what they enjoy most: new releases, additional functions, and tangible added value for their customers. A major part of this accomplishment is due to copebit's support, experience and foresight. With their expertise and market experience, they have laid the foundation on which NIS can now work more innovatively, securely, and relaxed.

Particularly important is the implementation in a private architecture, which ensures integrity, data protection, and compliance according to the highest Swiss standards. This allows NIS to fulfill exactly what customers always appreciate: network information must be securely, transparently, and reliably available to bear responsibility for society. This mission shapes the new SaaS solution – and makes it a central building block for the future of energy.



"With Infrastructure as Code and end-to-end CI/CD automation, we have laid the foundation so that Day-2 operations at NIS AG no longer depend on manual processes. Instead, the platform runs stably, reproducibly, and scalably – and the team can fully concentrate on innovation and product development."



Dario Duff
DevOps Engineer, copebit



Data in Transition

The first client has already been successfully migrated – stable and performant in operation. Step by step, all other clients will now follow, while the product is continuously expanded with new functions and interfaces are optimized.

This increases the benefit of the solution for both clients and NIS itself: data becomes even more valuable in the long term and opens up new possibilities beyond classic network documentation.

About copebit

Copebit AG is an innovative and dynamic Swiss IT company with focus on cloud consulting, development, engineering and operations. Besides the standard to always master the latest cloud portfolio, copebit AG also offers project management from «classic» over HERMES 5 to the diverse world of «agile methods» like SCRUM and SAFe. Results and a successful cooperation with the customer are always in the foreground.

Copebit consciously focuses on sustainable values such as transparency, partnership and a long-term approach - for a meaningful everyday working life.



Your contact:

Roman Frei
roman.frei@copebit.ch
+41 43 505 12 25

copebit AG
Birmensdorferstrasse 67
8004 Zürich
www.copebit.ch

