



# Improved IT Security in Data Centers all Over the World

LANXESS AG is a leading global specialty chemicals group based in Cologne that employs over 16,000 people across 50 locations in just under 30 countries.

LANXESS AG's diverse product portfolio requires the use of a wide range of technical chemical procedures and formulae – intellectual property that has to be protected.

## COMPREHENSIVE IT SECURITY ANALYSIS

In order to discover how vulnerable the company's data centers were to cyber attacks, the specialty chemicals group tasked TÜV Rheinland with carrying out a comprehensive IT security analysis. Leveraging the Computer Security Incident Response Team (CSIRT) – an expert task force within TÜV Rheinland – the aim was to perform a deep assessment of LANXESS information security processes, procedures and defenses to understand where the greatest risk of an attack lie, and how to prevent an attack from occurring.

The cyber security audit began by taking a critical look at existing LANXESS network security devices, evaluating what was in place and how the internal security team

was managing them. When deficiencies were identified, TÜV Rheinland sourced best-of-breed solutions to fill security gaps.

The second step was for TÜV Rheinland to assess the internal security team's cyber attack readiness. They achieved this by running simulations based on real data to understand the team's ability to identify complex attack patterns and to analyze and effectively deal with them. After each simulation, the CSIRT team provided detailed feedback, trainings and support.

TÜV Rheinland continues to work with LANXESS as a managed service provider, supporting security operations. The CSIRT team works hand-in-hand with the internal security team to manage risk mitigation efforts.



TÜV Rheinland and its Computer Security Incident Response Team (CSIRT), will support you in the event of a cyber attack as fast as possible. The CSIRT is a highly-

qualified rapid task force, comparable to a fire department, which assists you in analyzing and combating cyber attacks.

## CSIRT as a Managed Security Service:

### GLOBAL LOGISTICS AS A CHALLENGE

One of the greatest challenges when implementing technological solutions is global logistics – just think of all the different import and customs regulations or local invoicing conventions. TÜV Rheinland has locations in 69 countries so far, giving it the advantage of being able to draw on professional and cohesive teams and processes as well as local expertise when managing the requirements of international projects.

Thanks to its global presence, TÜV Rheinland was able to cover every aspect in the case of LANXESS while, seamlessly implementing the integrated security solution in every data center around the world.

### DEVELOPING THE REQUIRED EXPERTISE

Technology alone can't provide everything companies need to defend themselves against cyber attacks. That's why TÜV Rheinland has built the expertise required to identify and remediate IT security incidents while, providing managed services to both enterprises and SMBs.

At LANXESS, TÜV Rheinland guided the in-house security team through the incident learning phase. "By choosing an outside supplier to supplement our global IT security infrastructure, we have taken an important and considerable step forward in the arms race with cyber criminals. During this process, TÜV Rheinland supported us with a competent project team, available at all times, and successfully qualified our employees to work with the new systems," said Udo Nelken, Director of Technical Support at LANXESS.

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