

Cybersecurity in product development

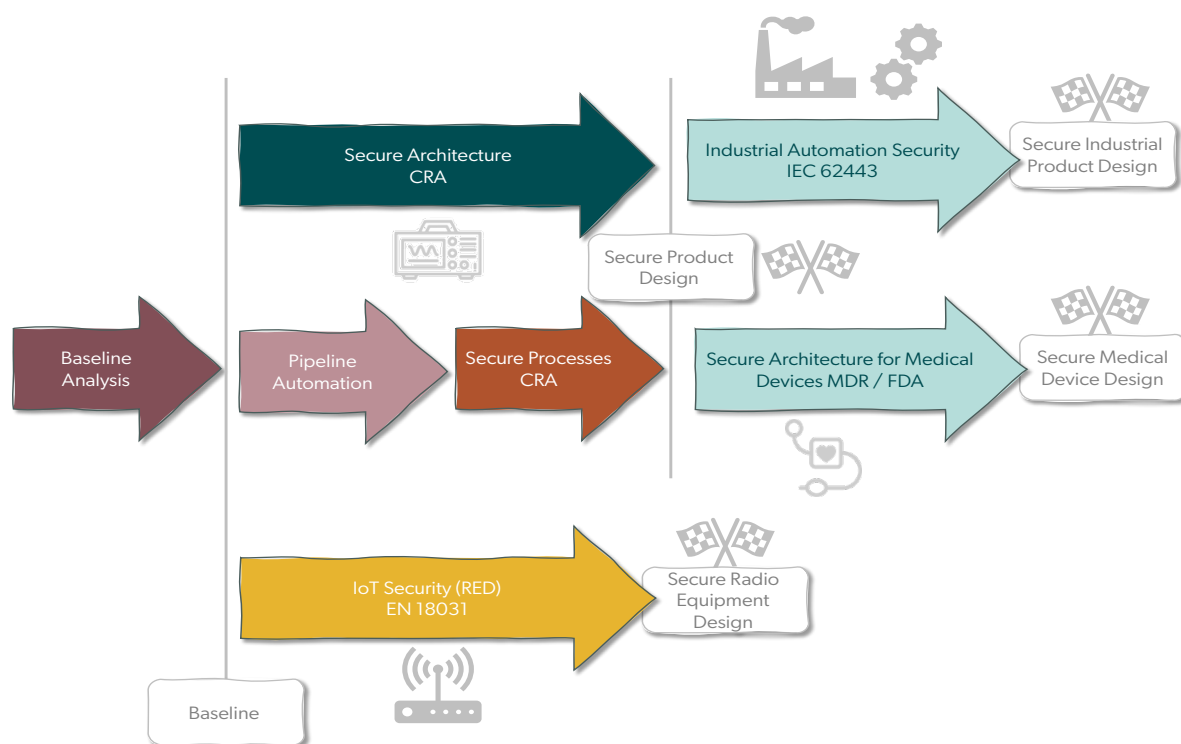
Service portfolio

Challenges and benefits

Cybersecurity impacts all industries. By the end of 2027, products with data connections can only be placed on the market in the EU if they meet the requirements of the **Cyber Resilience Act (CRA)**. This affects both, processes within the company and the actual product design. Monitoring for vulnerabilities will be mandatory from September 2026. Similar requirements are in place for medical devices for quite some time already.

ikonplan has recognised the uncertain situation in the market and developed **appropriate offers** to support companies in the timely implementation of the CRA.

We would be very happy to discuss your requirements in a **free initial consultation**.



«Baseline Analysis» Module

This module provides an introduction to cybersecurity in product development. You will gain a clear overview of security vulnerabilities in the software code and potential areas for improvement. The configuration of the development environment and code management are also included in the analysis.

Deliverables:

- Static code analysis report
- Software bill of materials (SBOM)
- Vulnerability report

«Pipeline Automation» Module

This module automates artefact generation and reduces manual work. In the future, no software code containing known vulnerabilities will be released. All relevant reports are generated automatically and integrated into each release – for greater efficiency throughout the entire release process.

Deliverables:

- Secure pipeline configuration
- Automatic report generation in the pipeline (unit tests, code coverage, static code analysis, SBOM, vulnerability reports)

«Secure Architecture» Module

A CRA-compliant architecture follows the principle of «security by design» and considers security requirements from the very beginning. This module provides an assessment of the current architecture, identifies design vulnerabilities and highlights suggestions for improvement – from simple hardening measures to more extensive adjustments.

Deliverables:

- Threat modelling report (e.g. using STRIDE, attack tree)
- Summary report on architecture with a list of security requirements and suggestions for improvement

«Industrial Automation Security» Module

The EU CRA Regulation (December 2027) requires cybersecurity to be taken into account in industrial control systems (IACS). This module creates a compliant documentation in accordance with IEC 62443, based on your existing documents and supplemented by the necessary security evidence, which we will elaborate together if required.

Deliverables:

- Technical documentation in accordance with IEC 62443

«Secure Architecture for Medical Devices» Module

Medical devices are subject to more extensive requirements than those specified in the CRA. This module supplements the secure architecture analysis with the additional analyses and documentation required by regulations (e.g. architectural views). The result is a complete architecture documentation in accordance with FDA and MDR.

Deliverables:

- Risk assessment based on threat modelling
- Architectural views and security controls in accordance with FDA requirements

«IoT Security (RED)» Module

After August 2025, internet-connected radio devices must meet the security requirements of the EU Radio Equipment Directive (RED). This module provides the documentation in accordance with EN 18031, which supplements your technical documentation. If necessary, additional tests and security evidences are performed.

Deliverables:

- Technical documentation in accordance with EN 18031

«Secure Processes» Module

The EU CRA regulation not only affects new product designs, but also organisational processes such as vulnerability monitoring and reporting obligations – throughout the entire product life cycle.

This module assesses your existing processes and identifies which processes need to be adapted or newly introduced in order to become CRA-compliant. You will receive clear recommendations for action along with a roadmap, which konplan can support you in implementing, if desired.

Deliverables:

- Gap analysis report with specific measures

