

Your partner in EU CRA compliance

Challenges with EU CRA

Complex requirements

Manufacturers struggle to meet cybersecurity standards while balancing cost and usability.

Lack of experience

The specific technical requirements and implementation practices are still being formulated.

Our expertise

Device software

- Custom software development for industrial devices.
- Complex embedded platform development.

Connectivity

- Industrial communication protocol development and integration.
- Secure communication protocols (Diffie-Hellman key exchange).

Security

- Device security (TrustZone, Secure Boot, Secure firmware update, secure element integration).
- Device identity and user access management.

Compliance with standards

- EU CRA compliance (analysis, recommendations).
- Standard based cybersecurity compliance and
- Implementation of requirements (e.g., IEC 62443).

Who are we

Custom software developers

Specializing in industrial automation and HVAC.

Experience

30+ years of expertise in business-critical devices and applications.

Over million man-hours of embedded software development since 1993.

Markets & notable clients

Nordic, Netherlands, Germany.

Danfoss, Stiebel Eltron.

Hands-on experience

Over 7M+ € in new product development work annually.

Our solution

- We conduct the cybersecurity analysis.
- We recommend technically reasonable solutions for devices: *security, cost, usability*.
- We implement the required software features.

Situation assessment – self-assessment (of compliance of IEC 62443)

Consulting for risk mitigation – risk mitigation decisions (to comply with IEC 62443)

Implementation – implementation of security features (to comply with IEC 62443)

EU CRA
compliance

Architecture

Coding

Testing

Our services

For EU CRA compliance we provide following services for device manufacturers:

Situation assessment

- Self-assessment for compliance with EU CRA
- Cybersecurity risk analysis and data architecture mapping
- Software development process and delivery review

Consulting and training

- Consulting risk mitigation decisions
- Recommending technically and business-wise reasonable solutions
- Training in secure software development

Implementation

- Software architecture and design
- Implementation of requirements and security features
- Security update and vulnerability handling mechanisms

Engineering a new product

Our offering for new product development

For developing a new product in compliance to EU CRA we provide:

Team of experts

Our team of 1-2 experts joins the client's development team.

Active cooperation

Regular weekly interactions for at least two months.

Key tasks

Assessing requirements and offering guidance in decisions.

Case study

Enhancing security for a flagship product *

Challenges

- Very complicated embedded modular platform architecture
- Works both as a standalone and in a system (slave, state machine, controller for 1/0)
- Ca 1700 configuration parameters with cross-dependencies
- 3M+ rows of code (the size of Win3.11)

* Proekspert possesses years of expertise in developing this product.

Facts about project

Product: Electric Motor Drive

Team size: 1 FTE (+ client team involved)

Time period: 3 months

Approximate cost: 40 000 €

Outcome: compliance to EU CRA and IEC 62443 achieved

Get in touch

Our experienced engineers can help assess cyber risks concerning your product. Contact us for further information.

Read more about this solution on our website:

proekspert.com/iec-62443-compliance-analysis-service



Terry London

Partner & Product Manager

terry.london@proekspert.ee