



## Expert- and Engineering-Services for Cybersecurity according to IEC 62443-3 /-4

IEC 62443 is an international series of standards for network and system security in industrial communication technology. It provides a comprehensive framework for the security of industrial automation and control systems. It should be particularly emphasized that it differentiates between different players: Operators, system integrators and component manufacturers. This enables a specific risk assessment and the development of targeted protective measures for each group to strengthen systems against cyber threats.

NewTec offers support for analysis and conceptual design at system level (IEC 62443-3-2 and IEC 62443-3-3) and develops secure products based on the requirements defined in the standard for the development process and for industrial automation and control systems (IACS) components (IEC 62443-3-2 and IEC 62443-3-3).

<b>SYSTEM</b>	IEC 62443-3-2 Security levels for zones and conduits	IEC 62443-3-3 System security requirements and security levels
<b>COMPONENT</b>	IEC 62443-4-1 Product development requirements	IEC 62443-4-2 Technical security requirements for IACS components

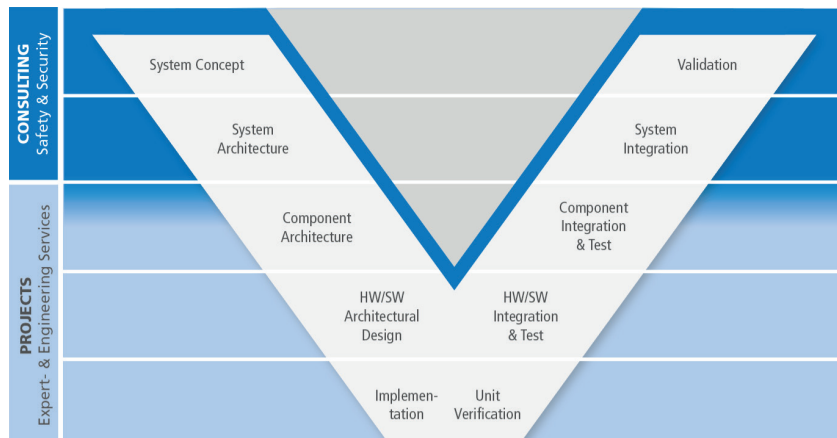


### Expert-and Engineering-Services:

- System analyses (hazard, risk and requirements analyses, static code analysis)
- Risk assessment incl. initial risk assessment and detailed risk assessment
- Risk analyses in accordance with the Zones and Conduits Requirements (ZCR)
- Definition of security levels
- Security management plan
- Security requirements specification
- Consideration of requirements for a secure development process
- Security concepts and security reviews
- Security robustness tests (penetration tests (internal/external), fuzzing)
- Software/electronics development in accordance with IEC 62443-4-1
- Consideration of the general security requirements for
- IACS components (common component security constraints, CCSC)

### Managed-Services for securing the operation:

- Continuous monitoring for weak points due to new threat situations
- Continuous monitoring for conformity with current security standards
- Continuous maintenance of the desired level of protection
- Incident management
- Obsolescence management for security-related system parts



NewTec provides support and guidance throughout the entire product development cycle.