

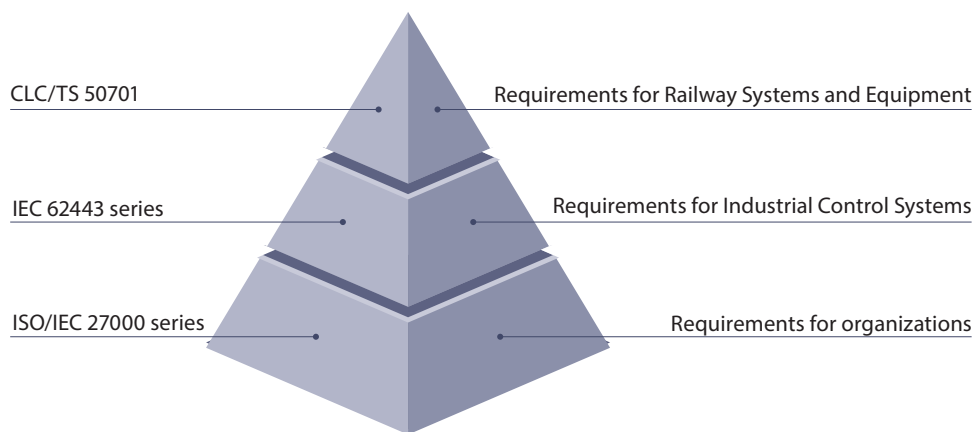
Development of Cybersecurity System

Railway operators are increasingly requiring cybersecurity solutions integrated with their signaling systems in the face of growing cyber risks and threats.

In response to this need, Kyosan has developed a cybersecurity solution for train signaling systems referring to the following international standards.

- ISO/IEC 27001 Series — Information Security Management Systems
- IEC 62443 Series — Security for Industrial Automation and Control Systems
- CLC/TS 50701 — Railway Applications: Cybersecurity

Kyosan has its Cybersecurity system solution accessed by an independent third party before having its delivered to the train operator.



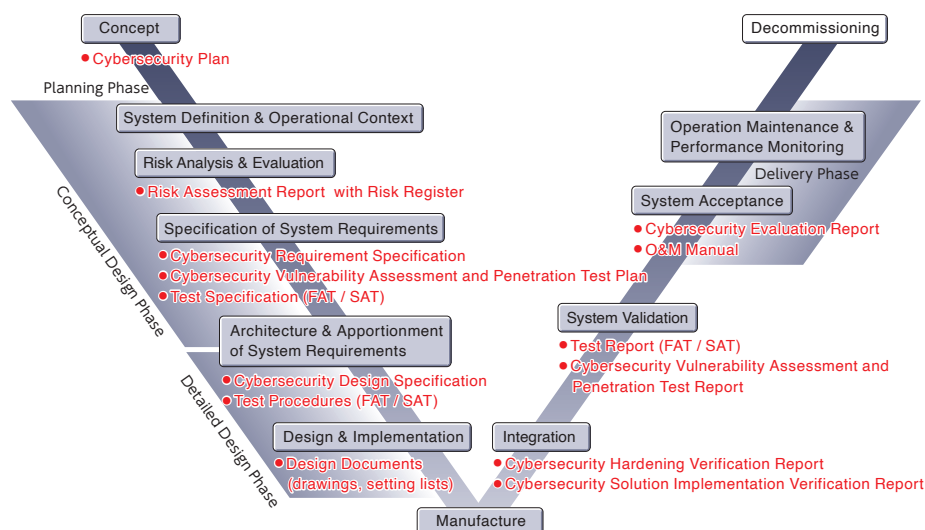
Relationship Diagram of Relevant Standards



Cybersecurity Server

A structured lifecycle approach was applied during development of the system to analyze threats, vulnerabilities, and mitigation measures from a cybersecurity perspective, tailored to railway signaling systems.

Consideration has been given to ensure that system implementation does not interfere with the daily operations of train operators, while maintaining system isolation to protect the cybersecurity environment.



Documents Prepared for Each Lifecycle Phase