

Master
Industrie 4.0 Analyse der Systemsicherheit
Industry 4.0 System Security Analysis

Motivation

In Industry 4.0, software becomes a crucial part of the industrial assets set. Since Industry 4.0 is a fairly recent initiative that packs many promises regarding the industry digitization, its grandiose adoption needs to be examined from the software security perspective.

Tasks/Goals

the goal is to investigate and classify the major software security hinderances/ risks that can be faced by Industry 4.0, and how to draw a roadmap to eventually deal with them, by starting from the following general questions:

- How do these software hinderances affect the manufacturing process ?
- Can these challenges be properly assessed beforehand or do they come in abrupt manners?
- How can issues such as the increase of data-intensity be dealt with on the long run?
- What are the potential software solutions or plugins that can be available?

Organizational

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