

Abstract

We formalise the Cyber-physical attacks in process algebraic means using CSP (communicating sequential processes), which targets and vulnerable the physical devices using cyber attacks. Attackers attack in several ways and damage the communication or transmission between different systems, they can steal sensitive information and can destroy the systems. In case of sensitive information sharing these attacks are the worst scenes. We focus on DDoS sub-type MiTM attack to detect and make the communication secure between the cyber physical systems using security protocol (SSL) and its formal verification is done with PAT model checker using CSP.