

PROJECT / Software Agents for Prevention and Auditing of Security Faults in Networked Systems

SAPA

Main Objective:

The main objective of this project is to improve the capabilities of networked systems to detect possible security flaws by using Agent-based applications. The main aim is to enable the dynamic, intelligent and autonomous detection of vulnerabilities and exposures in systems and to make them available to network administrators. We will use FIPA-compliant Agents to monitor the network and interact using ACL (Agent communication language). There are two main advantages of this approach: we will reduce the amount of data sent to network administrators (currently used tools send huge amounts of data), and present only relevant information preprocessed by our agent. The other advantage is the ability of knowledge interchange between Network Agents and User Agents, which by itself can bring a natural enhancement to the overall performance of the system.

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