

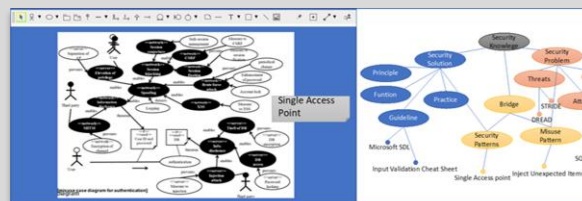
APPLICATION SECURITY

SUPPORT SECURE SMART CITY APPLICATIONS' DEVELOPMENT

Brief description about the FG "Although smart city platform itself is secured, application-level vulnerabilities make systems insecure. However, ensuring application-level security requires tremendous efforts for developers. The Application Functional Group provides a set of methodologies and tools to support development of secure smart city applications on top of the M-sec platform."

FEATURES

- The **Security Analysis Tool (SAT)** supports security requirement analysis by reusing typical threats and their mitigation approaches stored in a knowledge base.
- The **Modal System Transition Analyzer (MTSA)** supports designing secure smart city applications by synthesizing a correct specification ensured to satisfy application-level security requirements.



Security Analysis Tool



Modal System Transition Analyzer

KEY BENEFITS



reduce engineers' effort for analyzing security requirements



mitigate risks to miss typical security threats



mitigate typical risks from human errors in designing the application logic and reduce the wide number of tests performed to verify the security level.

SYSTEM REQUIREMENTS

- MTSA can run on Java runtime
- SAT is implemented as a plugin of astah* (an UML modeling tool developed by Change Vision, Inc.)

DID YOU KNOW?

What is the unique about the component? What makes it stand out from the competitors?

M-Sec provides a set of cutting-edge tools supporting developers to systematically analyze, design, and implement secure smart city applications.