

Information Sharing, Safeguarding & Federated Identity, Credential and Access Management



Homeland Security

Science and Technology

IMPROVING INFORMATION SHARING & SAFEGUARDING FOR PUBLIC SAFETY

Information Sharing and Safeguarding (IS&S) is a fundamental need of the U.S. public safety (PS) community. The community's IS&S requirements are substantial and increasing since it must respond to a wide-range of challenging, multi-agency emergencies such as opioid overdoses, school shooting incidents, and large-scale natural disasters. Federated Identity, Credential, and Access Management ("Federated ICAM") is a critical capability that can help advance PS IS&S capabilities across federal, state, local, tribal, and territorial agency boundaries. Advancement of technical capabilities and solutions in these areas is critical to helping the PS community fulfill its mission of ensuring the protection and well-being of U.S. citizens. The primary goal of this Department of Homeland Security (DHS) Science and Technology Directorate research-and-development (R&D) project is to produce substantial advancements in the maturity levels of several key trustmark framework software tools that will help the PS community better fulfill its mission through more effective trusted IS&S and Federated ICAM capabilities.

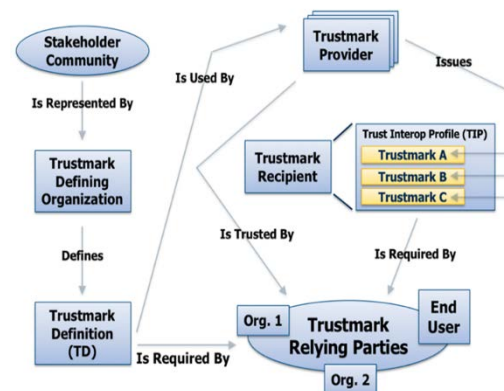
NECESSARY MATURATION OF THE TRUSTMARK FRAMEWORK

The Georgia Tech Applied Research Corporation (GTARC) R&D effort addresses the most pressing gap in the current trustmark framework: the lack of mature software tools to support the framework's primary use-cases such as emergency communications interoperability. Upgrading the trustmark framework's Federated ICAM capability would help advance public safety IS&S communications across agency boundaries. The intent of the trustmark framework is to make IS&S and Federated ICAM trust criteria transparent and explicit so all parties to a trusted information sharing transaction can understand exactly what criteria must be satisfied for trust and interoperability to exist as well as what assessment steps must be completed—through either a self-assessment process or a more rigorous third-party assessment.

PROJECT VALUE TO THE PS COMMUNITY

- Increased agility and scalability of IS&S and Federated ICAM trust relationship management for PS agencies

- Decreased IS&S and Federated ICAM costs for PS agencies
- Increased information sharing among PS agencies and their partners, leading to better PS mission outcomes
- Improved effectiveness in fulfilling the PS community's mission of protecting U.S. citizens and saving lives



The Trustmark Framework Functional Model

UPCOMING MILESTONES & DELIVERABLES

- Release Trust Policy Authoring Tool v2.0 open source on GitHub
- Release Trustmark Assessment Tool v2.0 open source on GitHub
- Submit Trustmark Binding Registry Pilot Rollout Plan to DHS
- Submit Trustmark Pilot Rollout Plan to DHS
- Plan and begin to execute trustmark tools pilot/demo with Texas A&M Internet2 Technology Evaluation Center (ITEC)
- Plan and begin to execute trustmark tools with the FBI Criminal Justice information Services' policy pilot with Texas Department of Public Safety (DPS)
- Plan additional trustmark tools pilot activities with the National Law Enforcement Telecommunications System and other yet-to-be-determined partners

PERFORMERS/PARTNERS

- Georgia Tech Research Institute
- Texas A&M ITEC
- Texas DPS
- SAFECOM
- Nlets

