Internet Enabled Social Patrol

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MITRE MSR
Problem

- Enterprise-focused social networking applications for mobile devices are limited by their ability to securely pass information across a firewall.
  - Need to pass useful information while maintaining security
  - Need to provide helpful capabilities for members of the organization in question
  - Need to ensure that the provided tools are interoperable with other systems, easy to update/modify

Social networking tools are useless without a social network
Background

Leverage existing social networking services and information sources
Objective

- To develop a MITRE-specific social networking tool for mobile applications
  
  - Establish protocols for securely passing information across the firewall
  
  - Isolate security methods from branding/access to other tools to allow easy porting to MITRE sponsors

  - Create a tool that facilitates identification of/collaboration among individuals with similar interests throughout MITRE
Activities

- **Phase 1**
  - Identify I-SPI Social Networking capabilities and data to be exchanged
  - Design I-SPI System Architecture
  - Design and develop I-SPI desktop client
  - Design the user interfaces for Adobe Air app and iPhone app
  - Work with INFOSEC on a security strategy
  - Set up a lab to move data between internal and the DMZ

- **Phase 2**
  - Examine COTS solutions for Service Oriented Architecture
  - Develop I-SPI mobile client
  - Develop algorithms for social services (e.g., People You Should Know)
  - *Enable an infrastructure – let others build upon our tools!*
Highlight

I-SPI Service Delivery

1. Connect to cell tower and internet
2. Login to Relay Server
3. Validate user credential
4. User selects services
5. User service request
6. Get service request by pointing
7. Reach out web services, get necessary information, analyze it, and generate information requested by user
8. Get info from Relay Server
9. Send info to user
Demonstration

People You Know

People You Should Know

All information and tracking is determined by you! Private and Secure.
Impacts

For MITRE:

- Provide capabilities that will allow MITRE employees to find and make contact with people with whom they share interests
- Facilitate the organization of on-the-fly meetings between people who are in close physical proximity to each other, even if someone is not in their primary office location

For MITRE Sponsors

- Provide a technical capability for passing information across security boundaries that can easily be implemented by MITRE’s sponsors
- Create an architecture that can easily be re-skinned to align with sponsor needs
Future Plans

- I-SPI Internal Eventing Server and Relay Server application
- I-SPI Desktop and Mobile Client application
- Deliver to sponsors