Accountable Information Usage in Fusion Center Information Sharing Environments

Status Report
May 18, 2009
Project Tasks

• Six transactions
  – Identify three privacy-related transactions
    • Plus one variation to each
  – Produce XML schema & OWL ontology
  – Create representation of the transactions

• Applicable rules
  – Convert to engineer-accessible intermediate form
  – Produce in AIR

• User Interface
  – Ask for advice before taking action
  – Receive compliance information
  – Record advice received

• Evaluation
Identify Transactions

• Change of focus from audit to action
  – Possible Challenges:
    • “Can I share this private information?”
    • “Can I share this private information with that person (or organization)?”
    • “If I share this private information with that person, what will their rules allow them to do with it?”
    • “If I combine this information with that information, does it expose something private that must be protected?”
    • “If I can’t share it with that person, can you tell me who I can share it with?”
    • “If I can’t share it with that person, can you tell me what to change or delete so I can?”
  – Fusion Center to provide input
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<th>Program Element / Project</th>
<th>Major Tasks</th>
<th>Key Milestones and Deliverables (end of….)</th>
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| 1. Scenario Creation                                          | • 0-1 month – Arrange and meet Fusion Center workers; obtain rules, document(s)/data, and worker attributes to model  
• 0-1 month – Create the scenario to be used                                                                | • 1 month – Written description of the scenario                                                                                                           |
| 1. Policy Representation                                      | • 0-3 months – Parse policies into intermediate (engineer-accessible form)  
• 1-4 months – Code policies in AIR                                                                            | • 3 months – Brief report of any gaps in the policies discovered through parsing  
• 4 months – Policies in AIR  
• 5 months – Brief report of difficulties encountered in expressing policies in AIR  
| 1. Transaction Accountability                                 | • 2-4 months – Create ontology and taxonomies needed to describe the transactions in the scenario  
• 3-6 months – Code XML schema representing the transactions  
• 2-6 months – Create simple User Interface                                                                       | • 4 months – Ontology and taxonomies  
• 6 months – XML schema  
• 6 months - User Interface  
• 6 months – Demonstrate & present reasoning over each transaction  
• 6 months – Brief report of any unanticipated challenges or discoveries in this phase  
| 1. Feedback                                                   | • 6-7 months – Arrange and demonstrate for no more than 10 relevant ISE reviewers                                                                 | • 7 months – Report & present reviewer feedback                                                               |