Privacy

- Gal Shpantzer and cast of dozens
- [http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/CSCTGPrivacy](http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/CSCTGPrivacy)

Mission: Identify and describe privacy concerns within the Smart Grid and opportunities for their mitigation. The group strives to identify privacy expectations and practices with regard to the Smart Grid by:

- Identifying potential privacy problems and encouraging the use of relevant existing fair information practices
- Requesting input from and educating individuals and organizations on strategies for protecting and identifying acceptable use of personal information used within the Smart Grid
Privacy (2)

• Mission (2):
  – Recommend coordination of activities among relevant local, state, and federal agencies regarding Smart Grid privacy related issues
  – Providing information and considerations to organizations developing privacy policies and practices that promote and protect the interest of Smart Grid consumers and organizations

• Current Status
  – Performed a high-level privacy impact assessment (PIA), a portion of which comprised the privacy chapter within the first draft of NISTIR 7628
  – Identified 16 potential privacy concerns within Smart Grid
  – Identifying how existing widely recognized privacy principles and fair information practices may apply to the Smart Grid
Privacy (3)

• Current status (2)
  – Discussing the potential benefits of privacy certification for organizations that are involved with the Smart Grid
  – Identifying existing laws, regulations and standards that apply to Smart Grid data
  – Identifying and reviewing state-level Smart Grid privacy activities
  – Working on the privacy chapter for the second draft of NISTIR 7628

• Potential Smart Grid privacy concerns being discussed
  1. Identity Theft
  2. Determine Personal Behavior Patterns
  3. Determine Specific Appliances Used
  4. Perform Real-Time Surveillance
Privacy (4)

5. Reveal Activities Through Residual Data
6. Target Home Invasions
7. Provide Accidental Invasions
8. Activity Censorship
9. Decisions and Actions Based Upon Inaccurate Data
10. Reveal Activities When Used With Data From Other Utilities
11. Profiling
12. Stalking and Domestic Abuse
13. Unwanted Publicity and Embarrassment
14. Tracking Behavior Of Renters/Leasers
15. Behavior Tracking
16. Public Aggregated Searches Revealing Individual Behaviors
Privacy (5)

• Going forward
  – Solicit additional input from and educate other actors involved with the Smart Grid, such as equipment and appliance manufacturers, and third-party application and service providers
  – Propose characteristics and goals of privacy certification for organizations involved in the Smart Grid
  – Complete a list of privacy standards based on fair information practices applicable to all domains within the Smart Grid
  – Expand upon and clarify Smart Grid privacy concerns/issues to include within the next draft of the NISTIR
  – Document and include within the next draft of the NISTIR the existing laws and regulations applicable to Smart Grid data