



Smart Grid and Cyber Security

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Smart Grid Cyber Security Strategy

- Establishment of a Cyber Security Coordination Task Group (CSCTG)
 - Over 300 participants
 - Have established several working groups
 - Vulnerability class analysis
 - Bottom-Up assessment
 - Privacy
 - Standards assessment
 - High level requirements
 - Functional architecture development
 - Research and Development
 - Weekly telecon



Smart Grid Cyber Security Strategy (2)

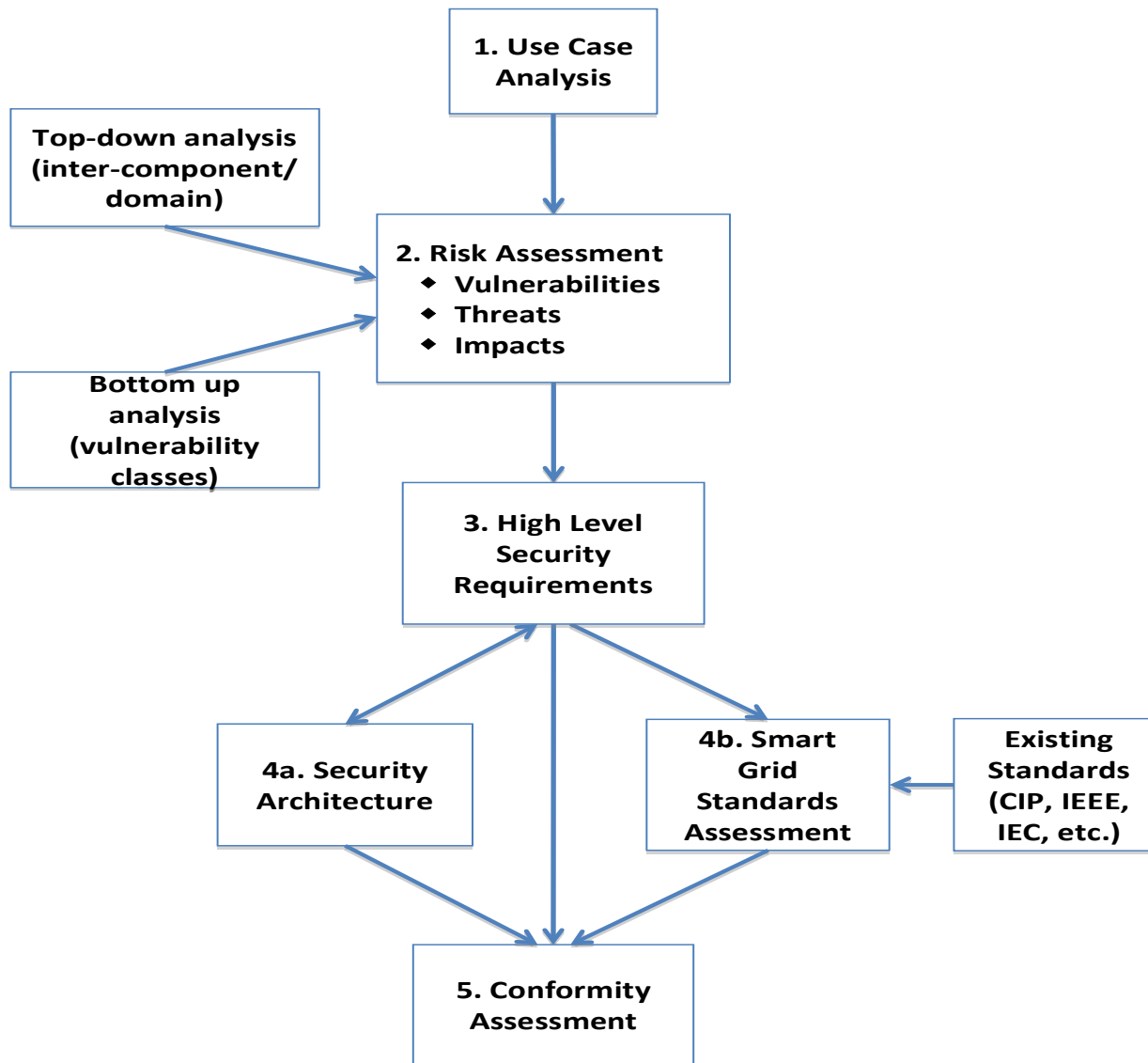
- The strategy...
 - Selection of use cases with cyber security considerations
 - Performance of a risk assessment of the Smart Grid
 - Development of a security architecture linked to the Smart Grid logical interface diagrams
 - Identification of cyber security requirements and risk mitigation measures to provide adequate protection
- The final product
 - A set of recommended cyber security requirements



Smart Grid Cyber Security Strategy (3)

- The overall cyber security strategy for the Smart Grid must address both domain-specific and common risks
 - Understand the threats
 - Identify the missions of the system and impacts
 - Categorize the data and processes to be protected

Smart Grid Cyber Security Strategy - Tasks





Smart Grid Cyber Security Strategy and Requirements Draft

- Current plan is to publish a second draft at the end of January 2010
 - Second draft will also be posted for a 60-day comment period
 - Draft will include:
 - Revisions based on submitted comments
 - High level requirements for the entire Smart Grid
 - Overall logical architecture
 - Initial assessment of standards
 - R and D topics
- Final version planned for spring 2010



The Way Forward...

- Future activities...
 - Cryptographic and key management
 - Participation in the development of a cyber security conformity assessment strategy
- Currently a working group under the Smart Grid Interoperability Panel (SGIP)
 - Renamed the Cyber Security Working Group
 - Led by NIST – Annabelle Lee as the Chair
 - Will select a Vice-Chair and a Secretary



How to Participate in SGIP - CSWG

- NIST Smart Grid portal
<http://nist.gov/smartgrid>
- SGIP - CSWG
 - Lead: Annabelle Lee (annabelle.lee@nist.gov)
- Cyber Security Twiki site
- <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/CyberSecurityCTG>