

Information Security Risk Management

Based on ISO/IEC 17799

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This session is primarily intended for:

- ✓ Systems architects and planners
- ✓ Members of the information security team
- Security and IT auditors
- Senior executives, business analysts, and business decision makers
- ✓ Consultants and partners





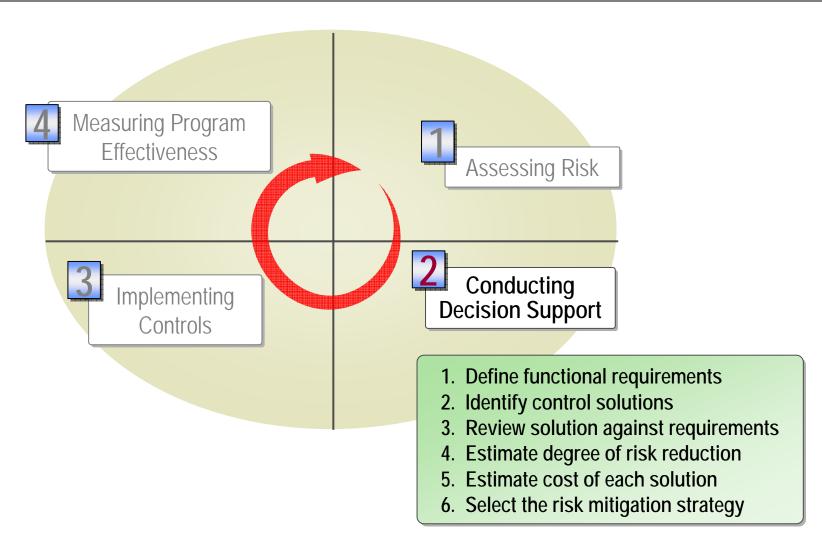
- Security is a process, not a product. Security products will not save you.
- Process is composed of technology, people, and tools. This is important because processes involve time and interaction between entities and many of the hard problems in security stem from this inherent interaction.





- Security Risk Management Concepts
- Identifying Security Risk Management Prerequisites
- Assessing Risk
- Conducting Decision Support
- Implementing Controls and Measuring Program Effectiveness

Overview of the Decision Support Phase





Identifying Output for the Decision Support Phase

Key elements to gather include:

- Decision on how to handle each risk
- Functional requirements
- Potential control solutions
- Risk reduction of each control solution
- Estimated cost of each control solution
- List of control solutions to be implemented



Options for handling risk:



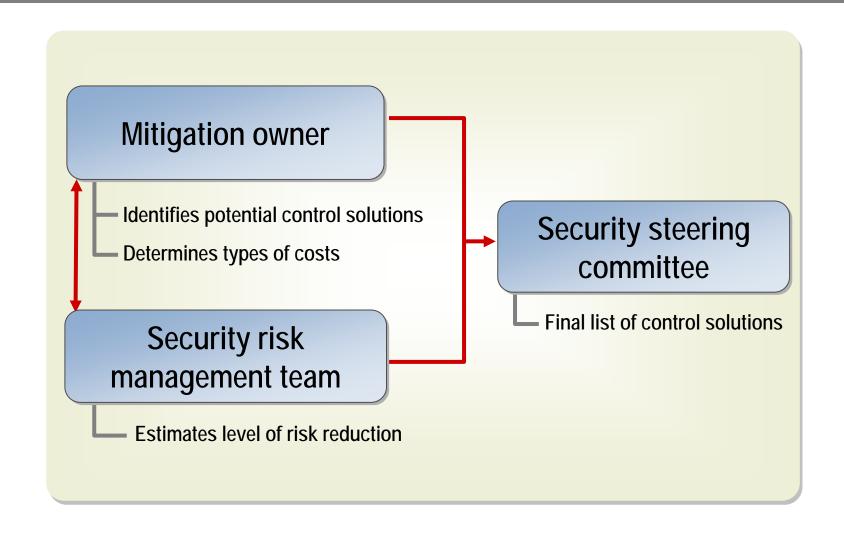
Accepting the current risk



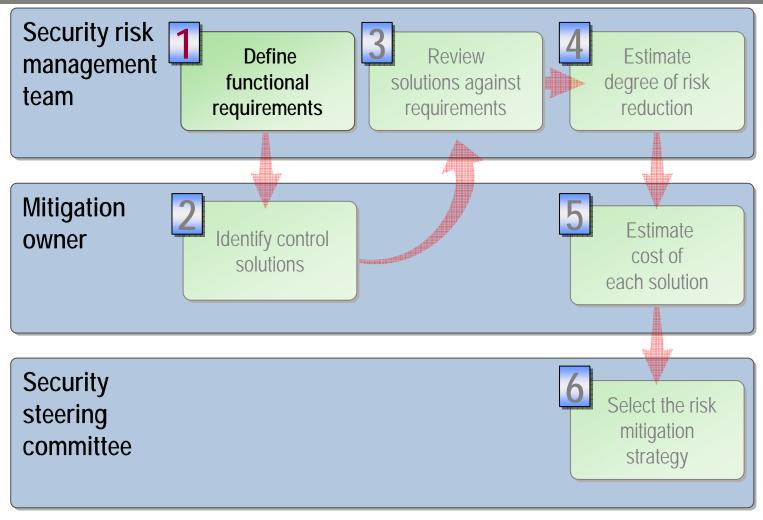
Implementing controls to reduce risk



Overview of the Identifying and Comparing Controls Process



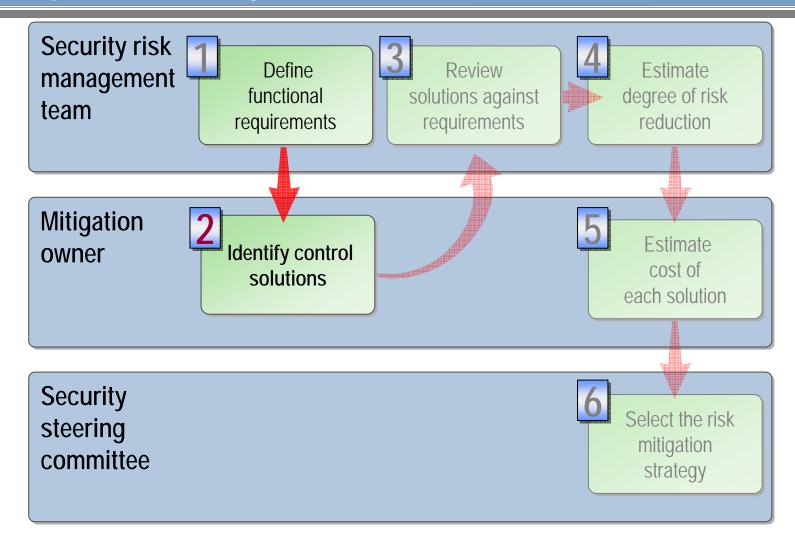
Step 1: Define Functional Requirements







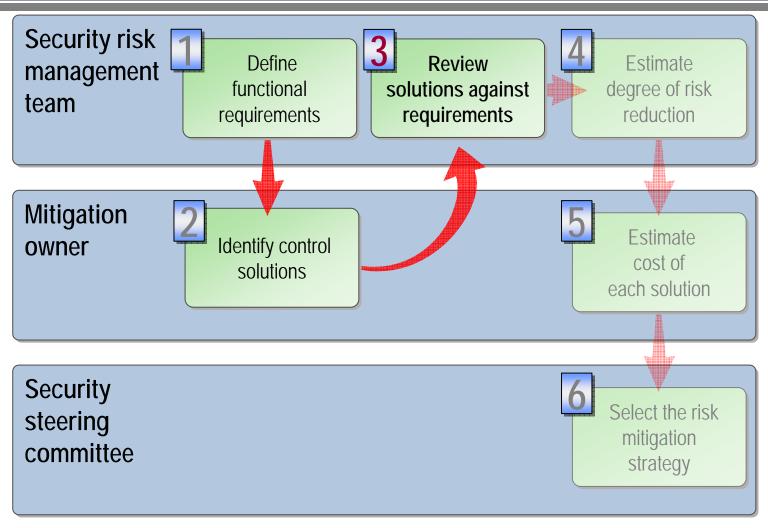
Step 2: Identify Control Solutions



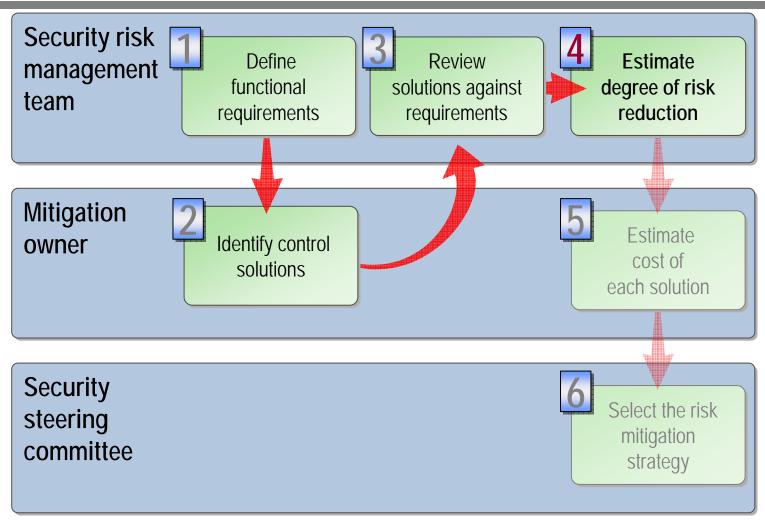


Step 3: Review Solutions Against

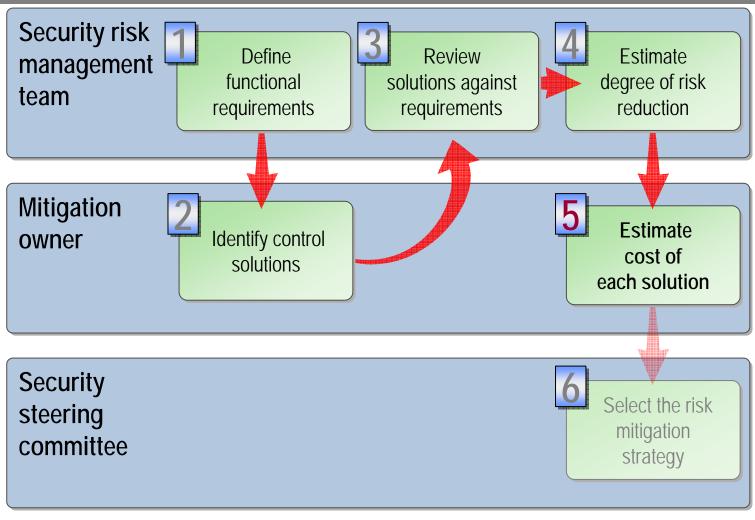




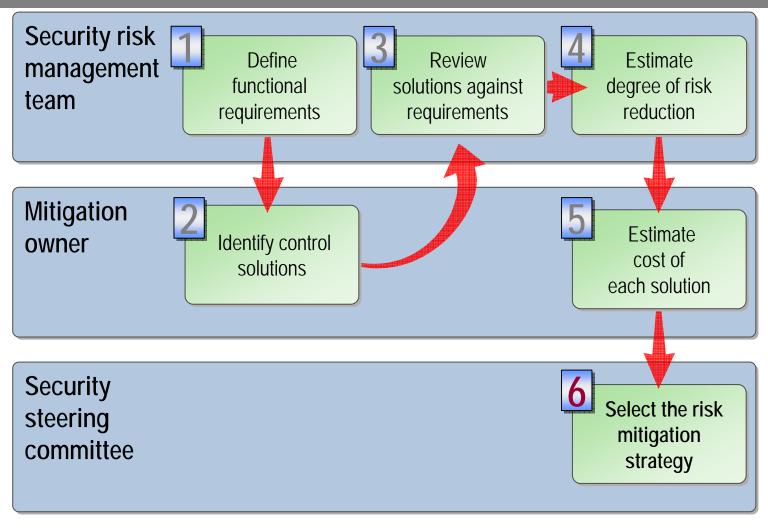
Step 4: Estimate Degree of Risk Reduction



Step 5: Estimate Cost of Each Solution



Step 6: Select the Risk Mitigation Strategy



Conducting Decision Support: Best Practices



