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ISC² CBK Roundtable: Risk Management

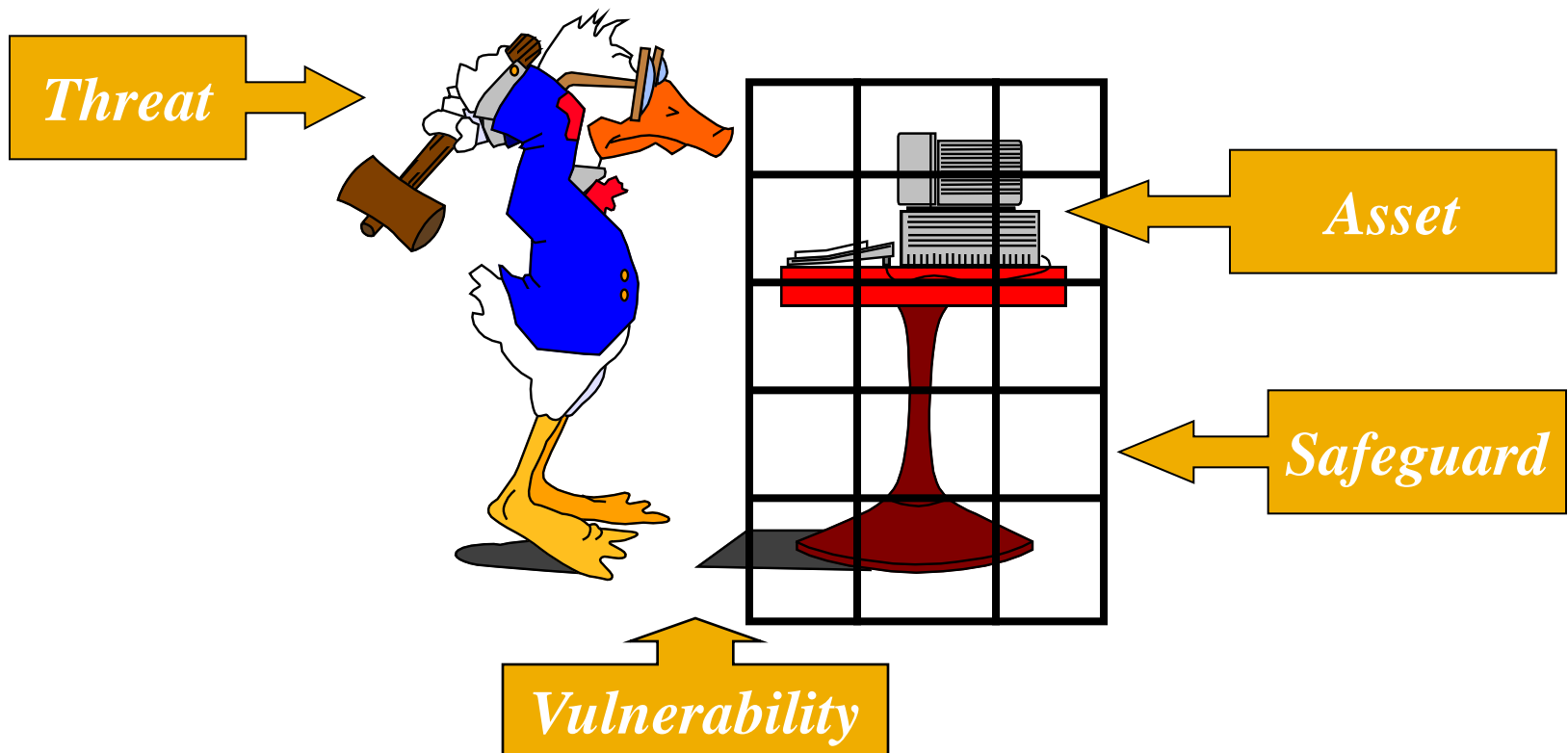
February 5, 2010



Overview

- What is Risk
- Identification of Risk
- Management of Risk
- Risk Management Framework
- Risk Analysis
- Risk Assessment Process
- Risk Mitigation Process

Risk



Identification of Risk

- Actual Threat
- Possible Consequences
- Occurrence Frequency of threat
- Confidence in occurrence of threat

Management of Risk



Risk Management Framework



Risk Analysis Terms

- Exposure Factor (**EF**)
 - % loss to asset if threat realized
- Single Loss Expectancy (**SLE**)
 - $Asset\ Value \times EF$
- Annualized Rate of Occurrence (**ARO**)
 - Expected frequency of threat
- Annualized Loss Expectancy (**ALE**)
 - $SLE \times ARO$

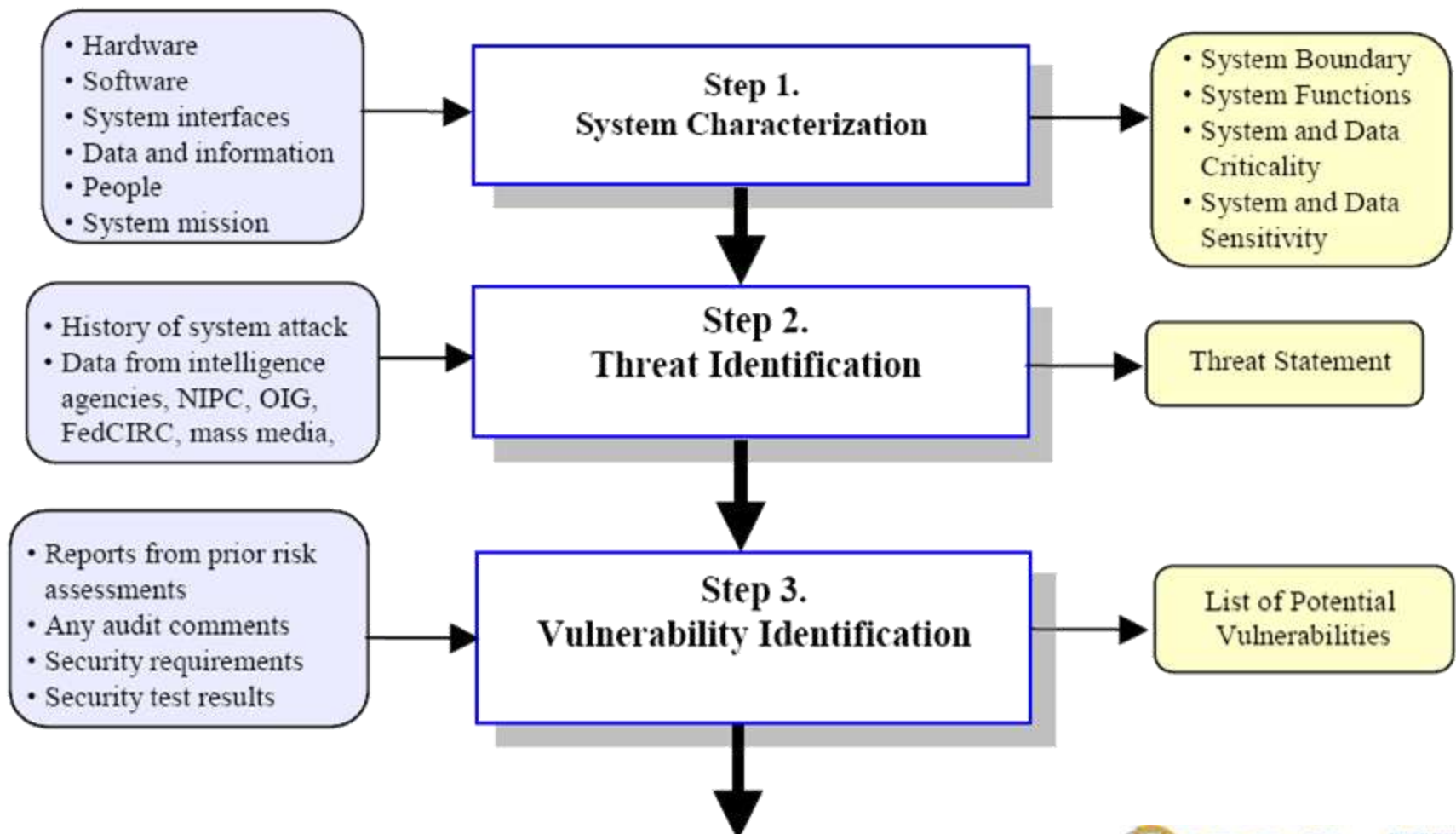
Quantitative Risk Analysis

- Preliminary Security Examination (PSE)
- Steps
 - Determine Asset Value
 - Analyze Potential threats
 - Define ALE
- Remedies
 - Risk Reduction
 - Risk Transference – Insurance
 - Risk Acceptance

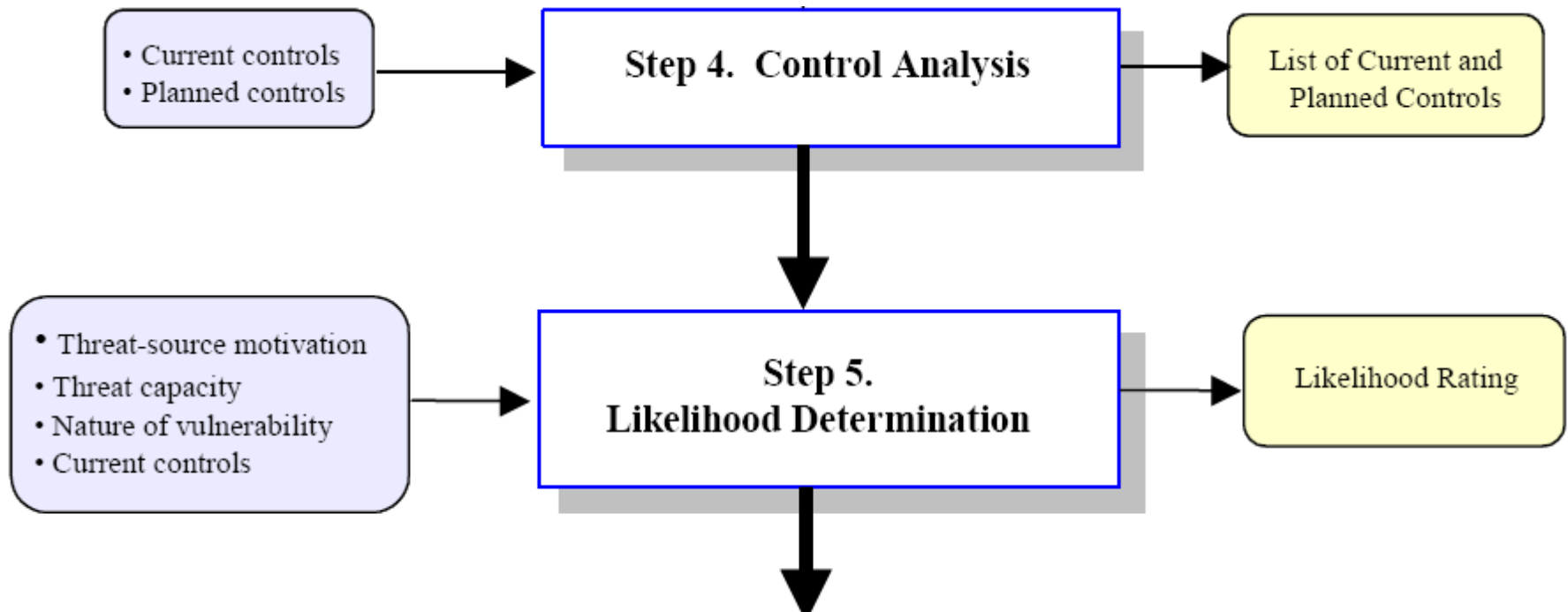
Qualitative Risk Analysis

- Scenario Procedure
- Asset Valuation Process
- Safeguard Selection
 - Cost/Benefit
 - Manual operations
 - Audit/Accountability
 - Recovery
 - Vendor

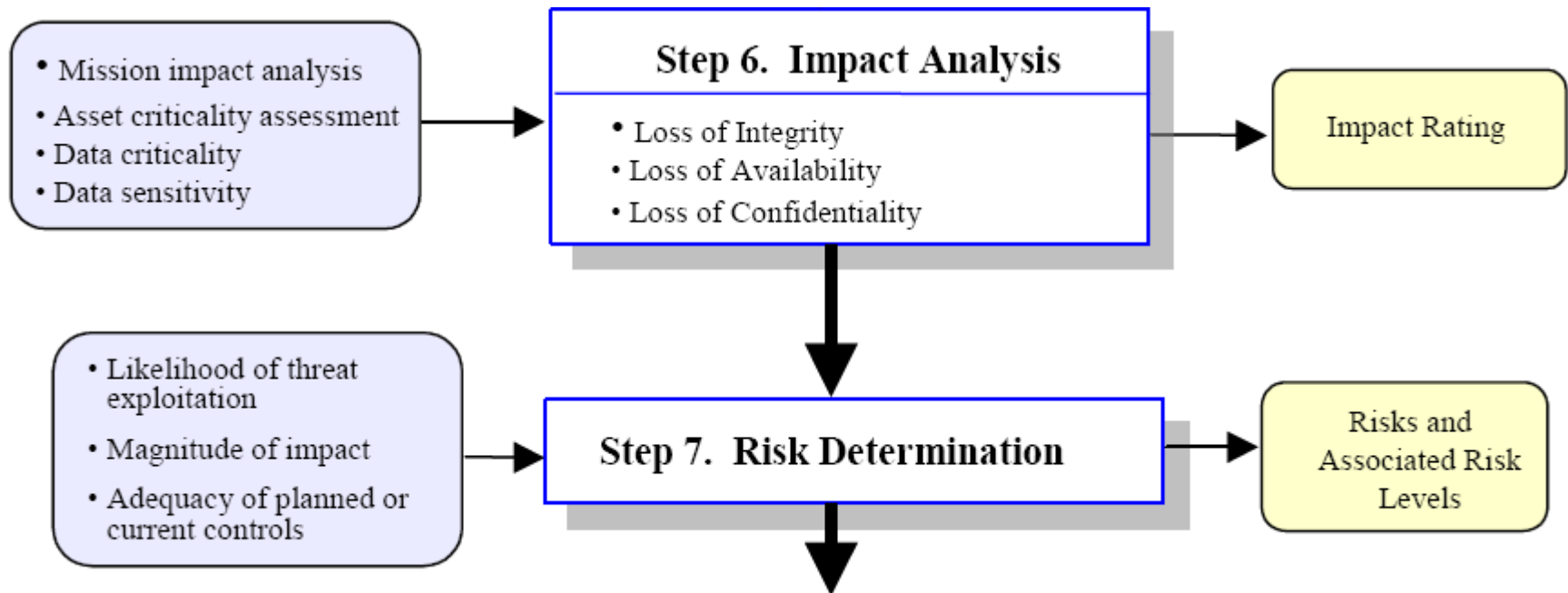
Risk Assessment Process



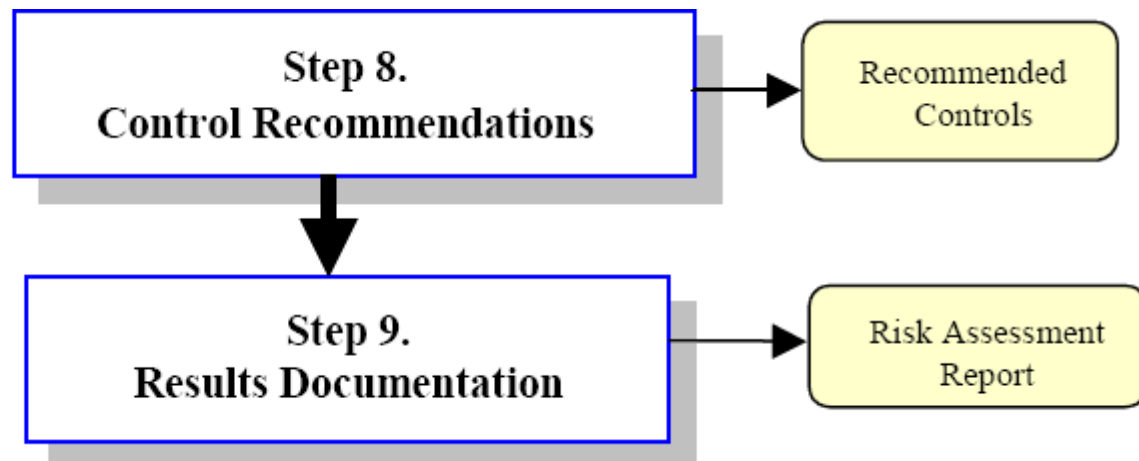
Risk Assessment Process



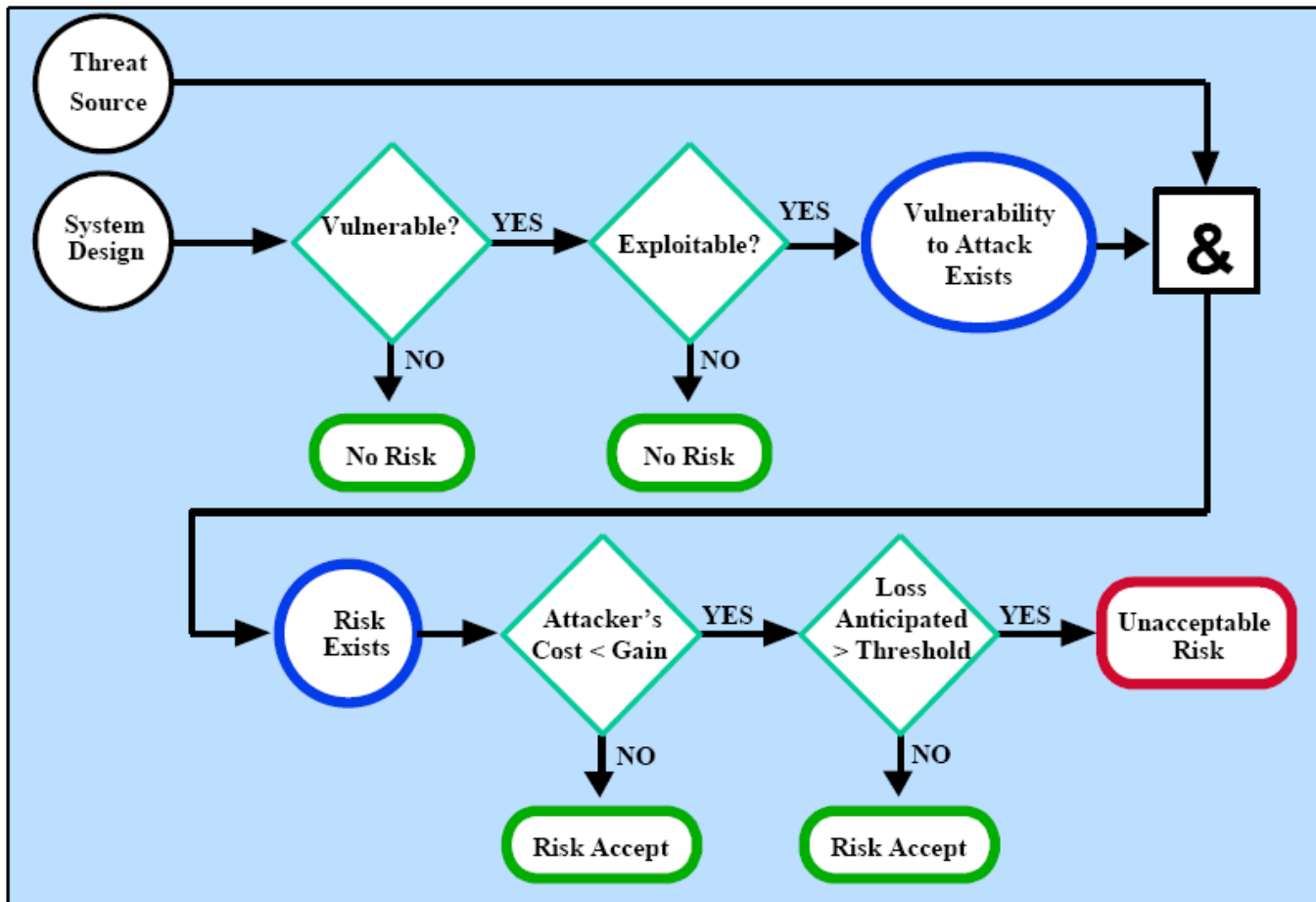
Risk Assessment Process



Risk Assessment Process



Risk Mitigation Process



Risk Management

Questions