Security Assessments

Value for the company?

Ron Buskey
Motorola
Fellow of the Technical Staff
Levels of Assessment

- Development Process
- Support Systems
- Devices
- Systems
Levels of Assessment

Development Process

• **Define Development Process Improvement**
  – SEI CMMI (plus security processes)
  – Six Sigma Tools (overall quality improvement)

• **Software Analysis**
  – Static Analysis Tools
  – Dynamic Performance Tools
  – Formal Languages / Formal Methods

• **Protocol Testing Tools**
  – Fuzzing (random fault injection)
Levels of Assessment
Support Systems

- **Key Generation / Key Management**
  - Formal Methods
  - Best Practice

- **Failure Analysis / Debug**
  - Inadvertent security leaks

- **Audits**
  - Data leaks through audit data
Levels of Assessment

Devices

- **Software**
  - Red Teams
  - “gray hat” hacker approach

- **Hardware**
Levels of Assessment

Systems

- **Seams between Devices**
  - Third party review of specifications / interfaces
  - Penetration testing
  - Third party assessment services

- **Automation**
  - Can useful system functions be used against the system

---

General Business Information, ITI2006, 1.0

MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office.

All other product or service names are the property of their respective owners. © Motorola, Inc. 2005
Conclusions

• Do Assessments = Security?

• Do Assessments add Value?

• Can you “put a number” on it?

• Should you be doing Assessments?