



**INTERNET
SECURITY
ALLIANCE**

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ISA Mission

Integrate advanced technology with economics and public policy to create a sustainable system of cyber security



Security and Economics maybe at Cross Purposes

- VOIP
- Cloud
- Supply Chain



Framework: Danger of Malicious Firmware

- Serious danger of infiltrating the supply chain
- Altered circuitry to transfer control over info systems
- A logic bomb could lay dormant then activated at the worst possible moment
- A weapons system could be shut down when needed, or even turned against the owner
- Virtually impossible to detect
- Domestic sole sourcing is economically impractical



Framework: Economic Issues

- Supply chain attacks are very difficult and expensive
- Almost always cheaper and more effective to use more traditional cyber attacks
- NATION STATES CAN AFFORD AND MIGHT BE WILLING TO INVEST IN SUPPLY CHAIN ATTACKS
- Industry has other supply chain issues..quality control, count fits and bus interruption
- STRATEGY comprehensive supply chain solution address all needs



Types of Supply Chain Attacks & Remedies

1. **Interrupt Operation:** Maintain alternative sources and continual sharing of production across chain
2. **Corrupt Operation (e.g. insert malaria):** strict control of environment where key IP is being applied, logical and physical tamper proof seals/tracking containers
3. **Discredit the operation (undermine trust or brand value):** logging operation and responsibility
4. **Loss of information:** Versioning as a tool for protecting IP



Framework: Stages When Attacks May Occur

1. Design Phase
2. Fabrication Phase
3. Assembly Phase
4. Distribution Phase
5. Maintenance Phase



Framework: Legal Support Needed

1. Rigorous contracts delineating security measures
2. Locally responsible corporations w/long term interest in complying
3. Local ways of overcoming agency problems and motivating workers and executives
4. Adequate provision for verifying implementation of security
5. Local law enforcement of agreements at all levels



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To Watch Webcast of Event:

<http://www.harris.com/feature/cyberSupplyChain/>

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