# Security and Privacy

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Security Vs. Privacy Debate

- Security and privacy are not on opposite ends of a seesaw
- Goals are closely related
  - You can have security without privacy
  - You can't have privacy without security
- Government needs both
  - Protection of data and critical government systems
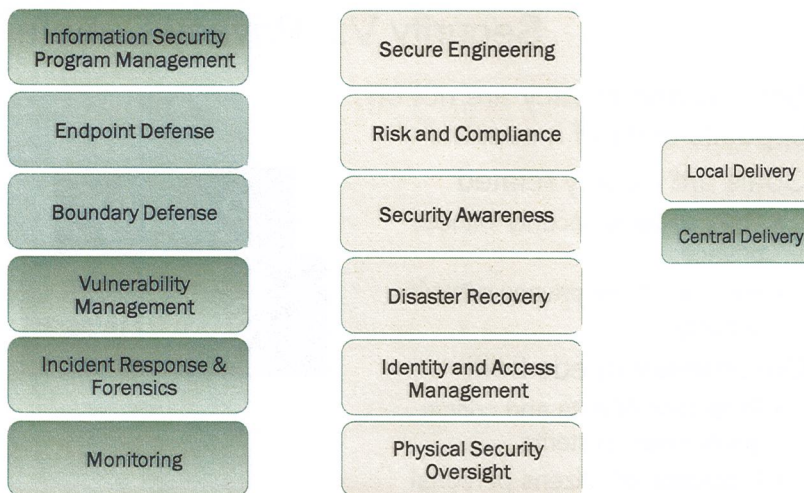 - Protection of citizens personal dignity

Privacy

Security

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Threat Landscape

90%	Hacks perpetrated by external actors
60%	Systems compromised within minutes
75%	Initial compromises that spread within 24 hours
50%	New vulnerabilities that became full exploits in less than 30 days
70 – 90%	Malware samples that are unique to an entity

2015 DATA BREACH INVESTIGATIONS REPORT
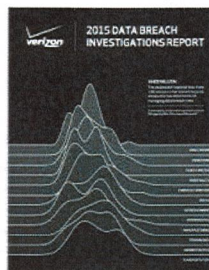
More Threats
More Targeted
More Sophisticated

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Service Stack

Primarily Centralized Services	Line of Business Services	
Information Security Program Management	Secure Engineering	Local Delivery
Endpoint Defense	Risk and Compliance	Central Delivery
Boundary Defense	Security Awareness	
Vulnerability Management	Disaster Recovery	
Incident Response & Forensics	Identity and Access Management	
Monitoring	Physical Security Oversight	

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Privacy By Design

- Important to address privacy requirements during design
- Extremely difficult and costly to retrofit legacy systems
  - Audit logs
  - Embedded security safeguards
- Some privacy requirements mandated
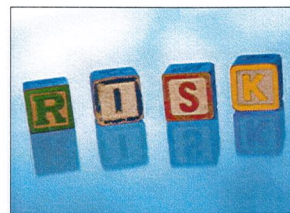 - MnSURE
  - IRS Treasury Circular 1075
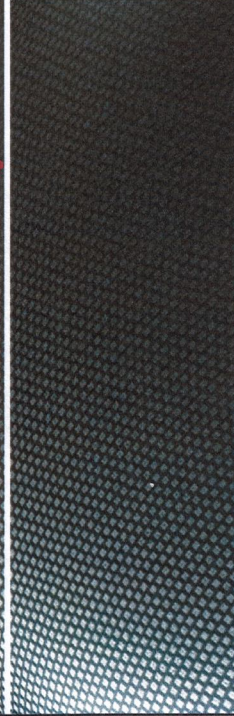
OECD Privacy Principles
- Collection Limitation
- Data Quality
- Purpose Specification
- Use Limitation
- Security Safeguards
- Openness
- Individual Participation
- Accountability

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Responsibilities

- **Management** owns risk
- MN.IT **helps management** understand and manage risk
  - Comprehensive information security program
  - Secure business solutions
  - Ongoing risk assessments
  - Metrics

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Questions