



Motivation

- Internal vs. External Security
- The unseen threats to sensitive data
 - Examples / situations
 - Money laundering from a bank
 - Political bribery / defamation
 - Leak of highly sensitive gov't data.

Are theoretical safeguards practical?

• They can be, but often must be tailored.

J. Welch - Data Security

11/17/2004













































Limitations	
 Access Controls Supervisory Control breaches Over time, complexity increases and maintainability decreases Flow Controls Down-flow may lose data in "declassification" process Controls need to be tightly tested and reliable Inference Controls Subject still in its infancy Goal – How much work does it take to break the system? Cryptographic Controls Key generation server compromise? PKI – What if private Key stolen? 	₽S.
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