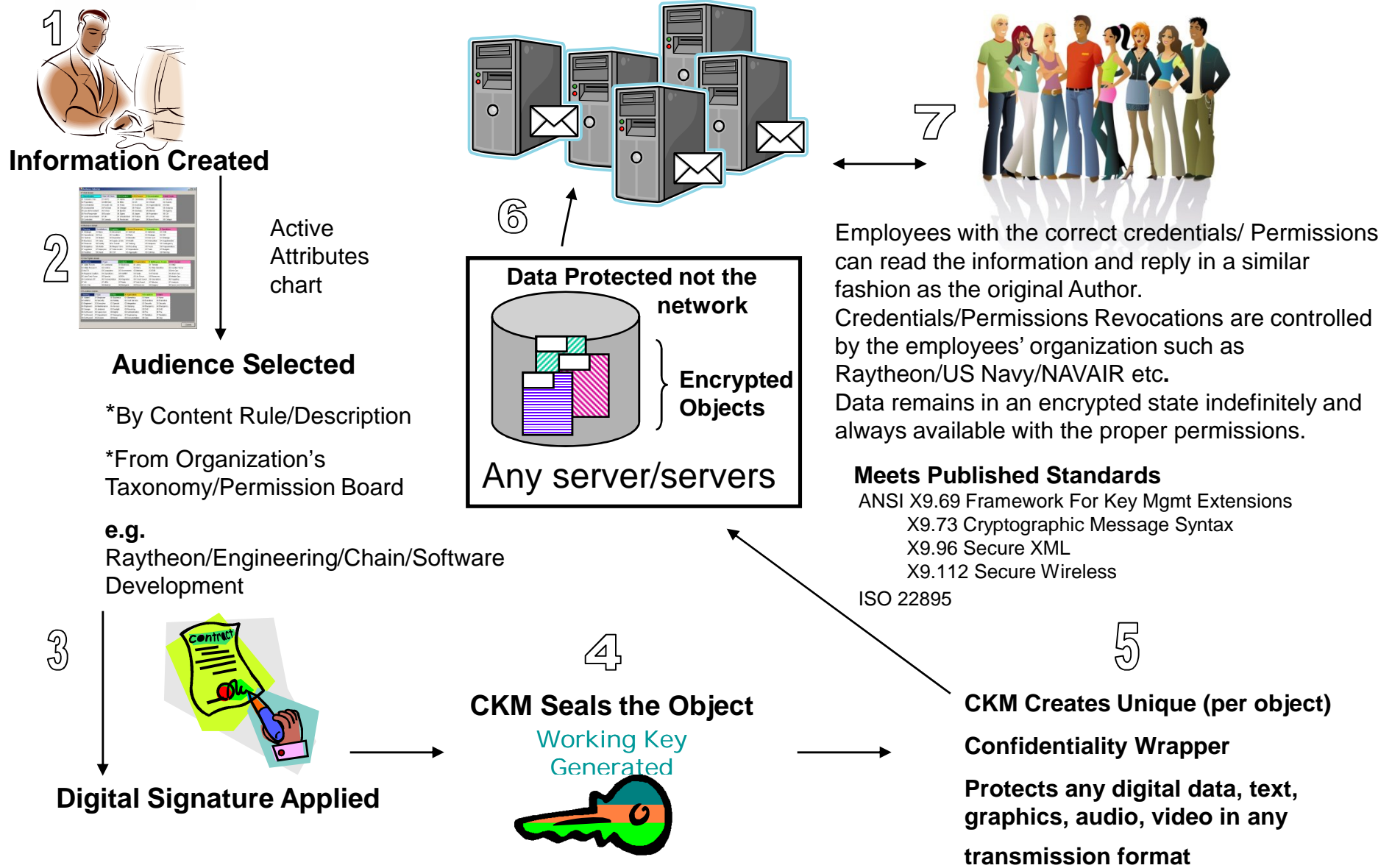
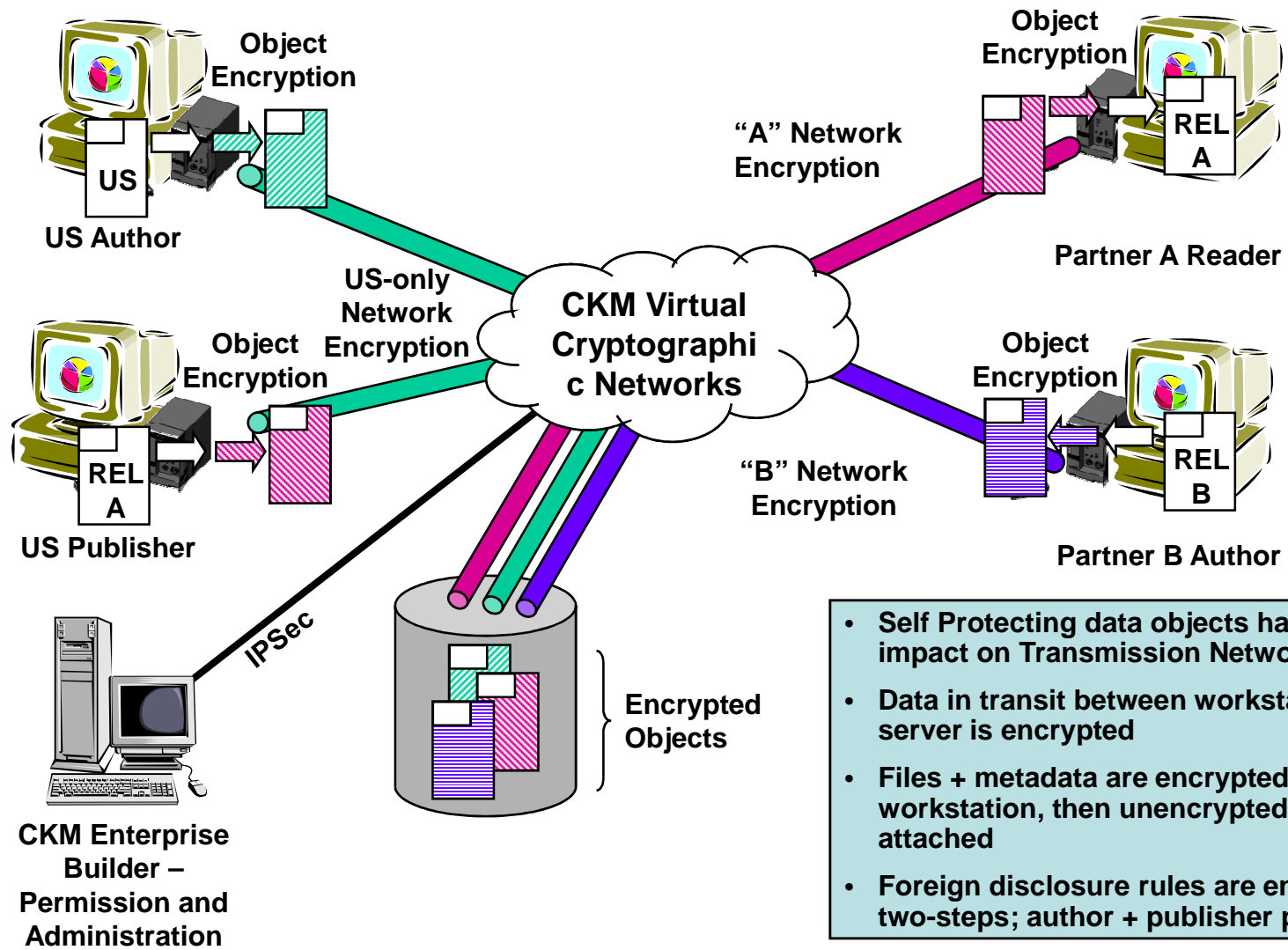


CKM is a More Flexible Solution



CKM System Overview



- Self Protecting data objects have no impact on Transmission Networks
- Data in transit between workstations and server is encrypted
- Files + metadata are encrypted on the workstation, then unencrypted metadata is attached
- Foreign disclosure rules are enforced via two-steps; author + publisher processes

PKI Issues Improved by CKM

1. PKI is a Static Key System

a. Every controlled item needs a pair of keys

e.g: If there are 1 million controlled items per day then 2 million keys are required

b. Cannot re-key system, must replace old keys

2. Information is attached to a person not their position/function

3. PKI system cannot prevent Users from generating their own keys.

4. PKI is a ComSec solution – Person to Person (when known)

5. PKI allows Digital Signature and Creates a Chain of Trust

1. CKM is a Dynamic Key System

a. Keys are created at time of need

e.g: 100 million objects can be managed with less that 100 control words

b. Designed for re-keying without changing the pool of control words

2. Information belongs to Originating Organization

3. Users have no capacity to create key fragments or control words

4. CKM is an InfoSec solution – providing role based access to any digital object

5. CKM takes PKI and leverages it into Role Based Access to Content. CKM brings Scalability that PKI lacks on its own