

Secure, Compliant, Process Improvement

Putting CSOS into Practice

ASAP Annual Industry and Technology Issues Conference

June 18, 2005



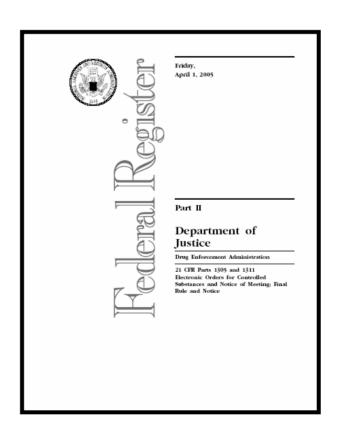
Agenda

- Overview
- Scope of regulations
- Key Standards
 - Key Safeguarding
 - FIPS
 - Independent Certification
- Methods for ensuring compliance



What's new since January 2005?

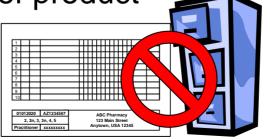
- Final Rule publication April 1st, 2005
- Public Meeting held May 18th 2005
- Production operation
- CSOS solutions available





CSOS Value Proposition

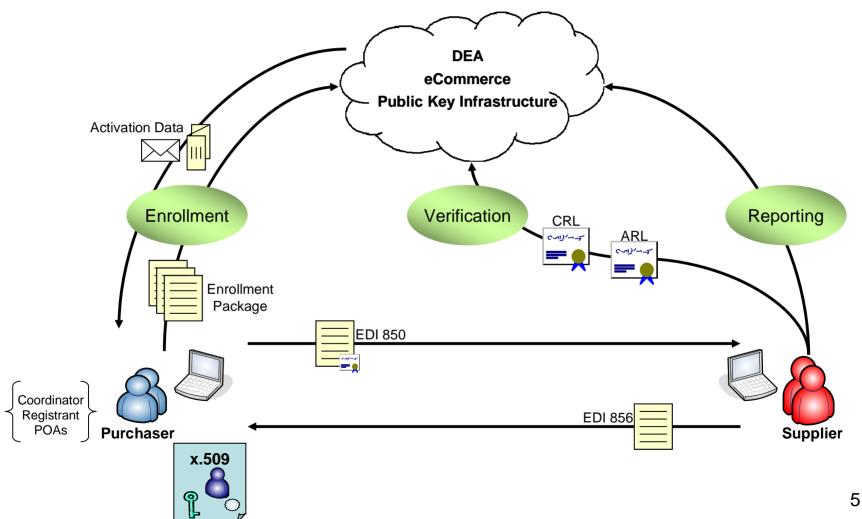
- Economic impact analysis → 264 M annual savings
 - 7 Million controlled substance orders annually
 - Purchasers use overnight shipping
 - Burden of written signatures and paper files
- Savings associated with
 - Reduced inventory
 - Ordering Efficiencies (entering, annotating)
 - Faster receipt of product
 - Filing







Diversion Control e-commerce PKI



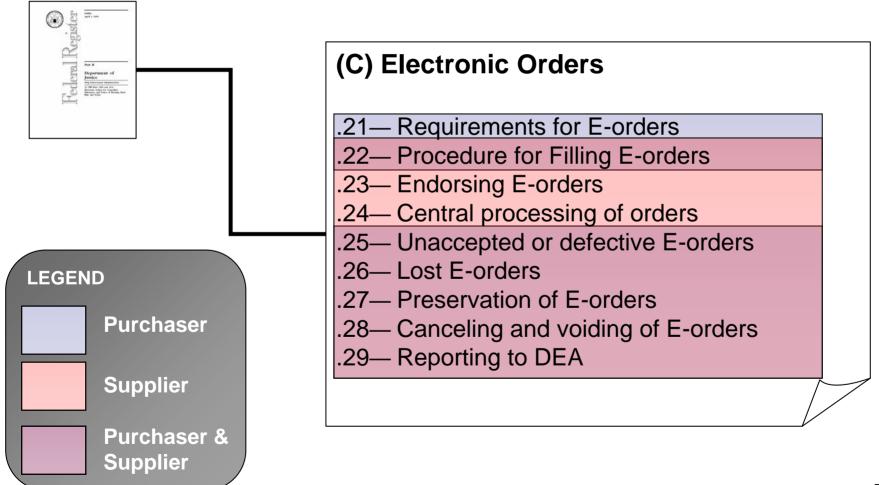


Implementing CSOS demands...

- Understanding all relevant requirements
- How these map to your system
- Mechanism to validate compliance across all systems
- Ongoing process for ensuring staff adherence to certificate management provisions

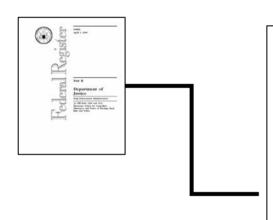


CSOS Regulatory Framework §1305





CSOS Regulatory Framework §1311



LEGEND Purchaser Supplier Purchaser & Supplier

(B) Obtaining & using digital certificates for E-orders

- 10— Eligibility to obtain a CSOS certificate
- .15— Limitations on CSOS certificates
- .20— Coordinators for CSOS certificate holders
- .25— Requirements for obtaining a CSOS certificate
- .30— Requirements for storing and using a private key
- .35— Number of CSOS certificates needed
- .40— Renewal of CSOS Certificates
- .45— Requirements for registrants that allow POAs to obtain CSOS certificates under their DEA registration
- 50— Requirements for recipients of digitally signed orders
- .55— Requirements for systems used to process digitally signed orders
- .60— Recordkeeping



Federal Information Processing Standards

- Wide range of FIPS approved modules available
- FIPS is relevant to:
 - Cryptographic module (140-2)
 - Signing algorithms (186-2)
 - Hash algorithms (180-2)
- Best achieved by selecting commercial solution



Provisions for Key Management

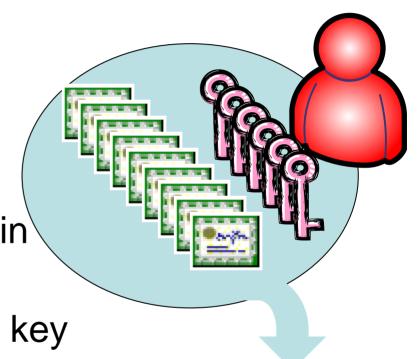
- 1311.30 Requirements for storing & using a private key
 - a) Only the certificate holder may access a private key
 - b) FIPS approved private key storage is required
 - c) No person other than the certificate holder can use the private key. Unauthorized use must be prevented.
 - d) No backup copies
 - e) Must report loss or theft within 24 hours of substantiation
- 1311.55 Requirements for Systems
 - FIPS
 - User ID or biometric activation
 - 10 minute inactivity timeout
 - Plaintext key must be cleared from system memory

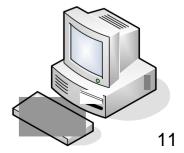




Technical Key Management Challenges

- Secure Retrieval
 - Individual or bulk
 - Certificate naming
 - IT/ Pharmacy coordination
- Certificate protection within OS
- Preventing loss of private key
- Scalable to support centralized purchasing / POAs
- Portability







Ongoing Training Needs

- Certificate Management
 - Rolls (Registrant, Coordinator, POA)
 - Forms
 - Agreements
 - Deadlines
- Key Safeguarding











Independent Certifications

• 1311.55 (d) – For systems used to process CSOS orders, the system developer or vendor must have an initial independent third-party audit of the system and an additional independent third-party audit whenever the signing or verifying functionality is changed to determine whether it correctly performs the functions listed under paragraphs (b) and (c) of this section.



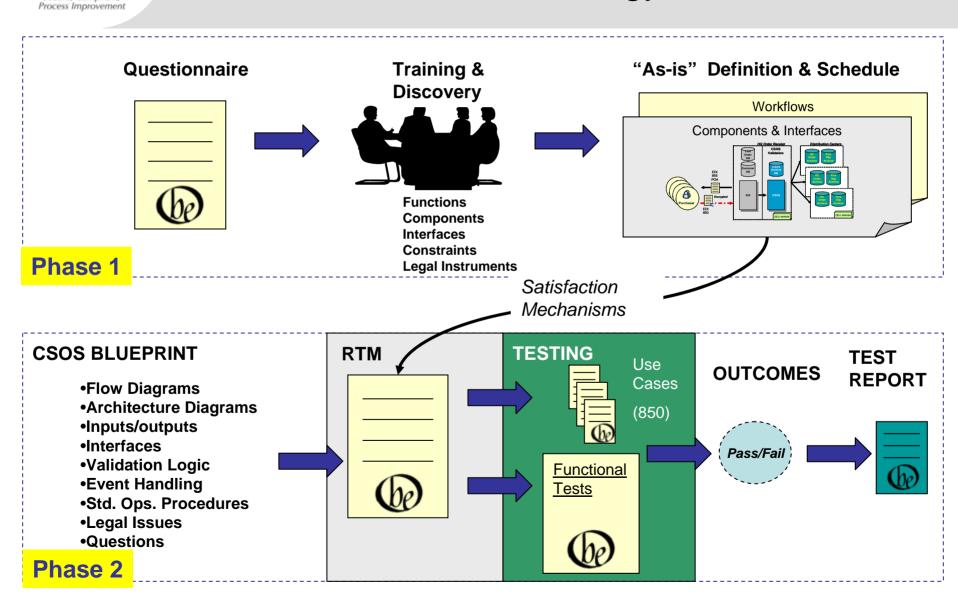


Independent Certifications

- Buyers must make informed purchasing decisions
- For organizations building customized CSOS solution, provision still applies.
- Not applicable to all system changes only for signing and verification.
- Not all commercial solutions will address all CSOS requirements.
- Read the certification !!!



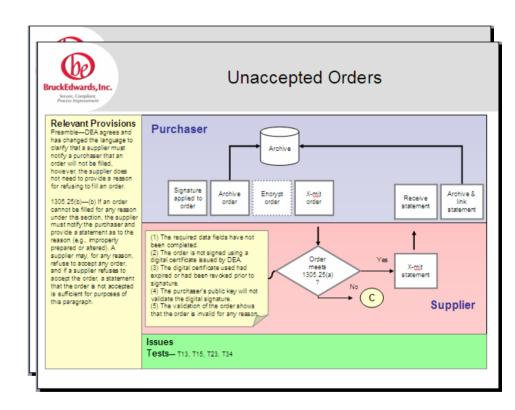
CSOS Compliance Management Methodology





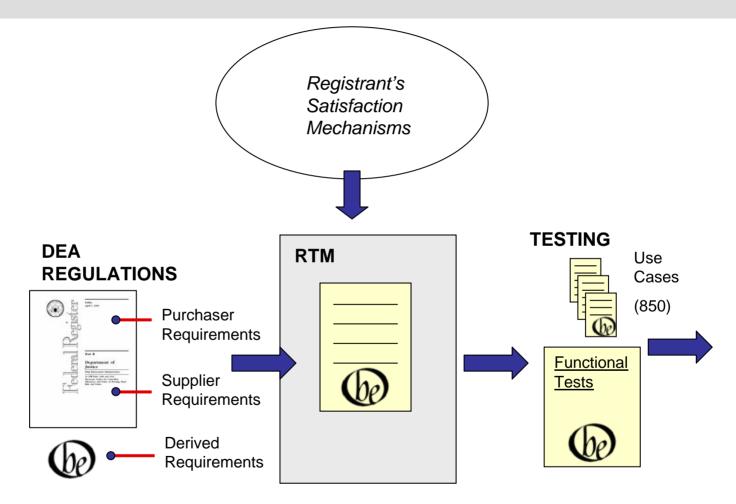
Implementation Workflows

- Relevant Provisions
- Processing Logic
- Error handling
- System Component
- Interfaces
- Standard Procedures
- Test Cases





CSOS Requirements Traceability Matrix





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