

Trilateral On-line Filing Group

6th December 1999 - SCIT

Agenda

- Overview of document structure
- Appendix I – Trilateral Standard
 - PKI
 - Signature Mechanisms
 - Wrapping, Signing, Packaging
 - Transmission
- Appendix II – XML Documents
- Future Enhancements
- Action Plan

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Document Structure

Overall Structure.

⚙ Administrative Instructions

- Annex F
 - Appendix I – Online submission
 - Appendix II – XML DTDs
 - Appendix III – CD/Diskette

⚙ For PCT **all** levels are required

⚙ For Trilateral **only** Appendix I and II

- Plus EP, JP and US legal provisions.

Annex F.

- Annex to PCT Administrative Instructions
- Covers PCT legal requirements
 - Ticket Mechanism
 - General Security Requirements
 - Electronic Records Management
 - Standards S1-S14
 - Options for Ros
- Technical Implementations in Appendices.

Overview of Appendix I.

- Trilateral Standard
- Technical Implementation of Annex F
- PKI based On-line Filing now
- Evolve to all IP Document Exchanges
 - National Patent Procedures
 - PCT Patent Procedures
 - Trademarks
- Other mechanisms in other Appendices
 - Appendix III – Disk/CD filing.

PKI Aspects

PKI Requirements.

- ⊗ Four principles
 - Confidentiality
 - Integrity
 - Authentication
 - Non-repudiation
- ⊗ Certificates
- ⊗ Digital Signatures
- ⊗ Encryption
- ⊗ Mutual Recognition
 - PKI Policy
 - New Attachment agreed at May 2000 Trilateral.

PKI Mapping

	Confidentiality	Integrity	Authenticity	Non-repudiation
Certification Authority			X	X
Digital Certificates		X	X	X
Certification Management		X	X	X
Cross Certification		X	X	X
PKCS#7 Signed Data Type		X	X	X
Directory Services			X	X
Encryption Algorithms	X			
PKCS#7 Signed and Enveloped Data Type	X			
Message digest Algorithm		X		
PKI Policy Statements		X	X	X

Signatures Mechanisms.

• Basic Electronic Signature

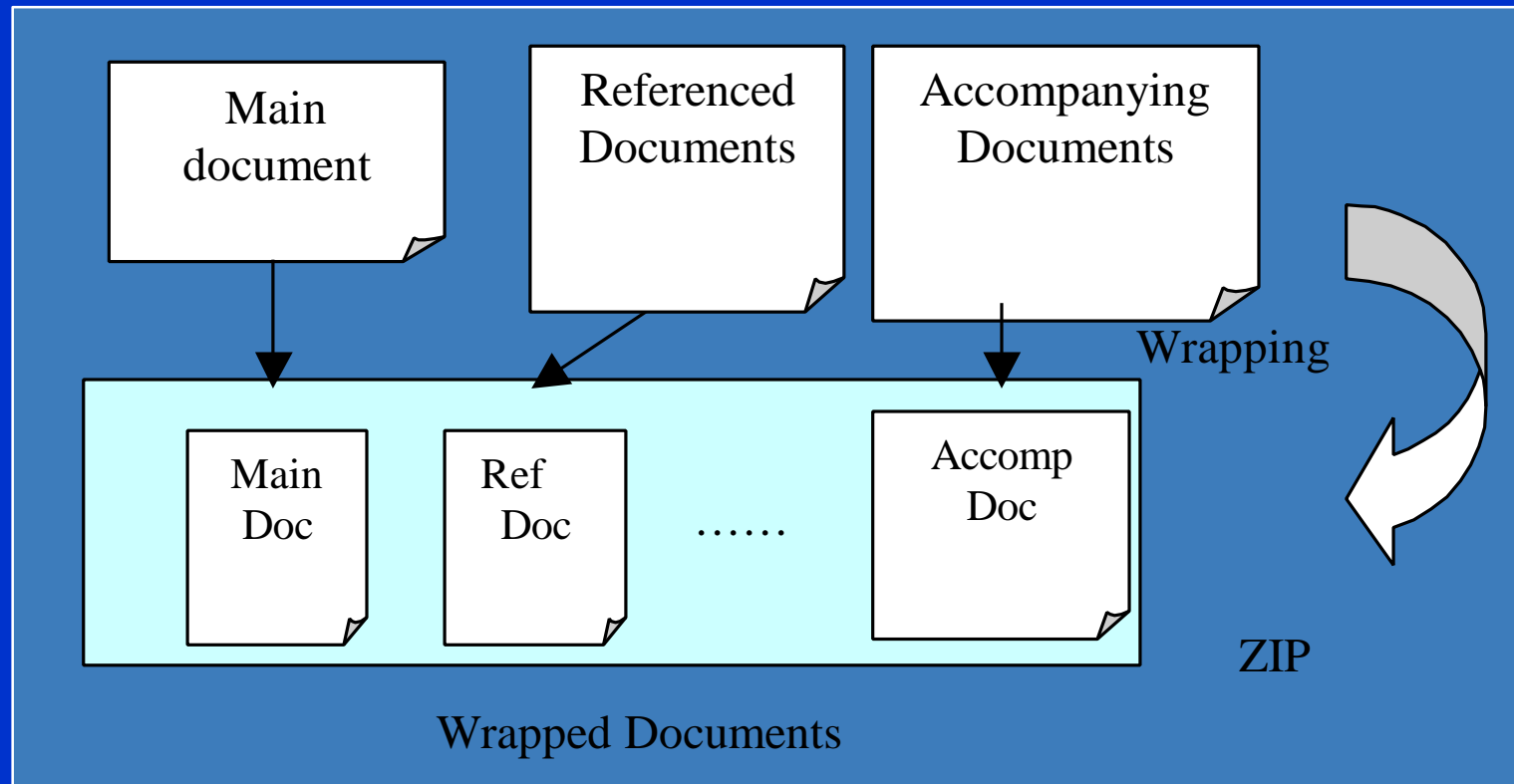
- Text stored in the document
- Facsimile Image of a handwritten signature
- New XML standard to record this
- Can point to a Digital Signature

• Enhanced Electronic Signature

- Digital Signature using PKI
- Uses encryption technology
- Requires Certificates and Private/public keys
- Trust => Mutual Recognition.

Wrapping, Signing and Transmission

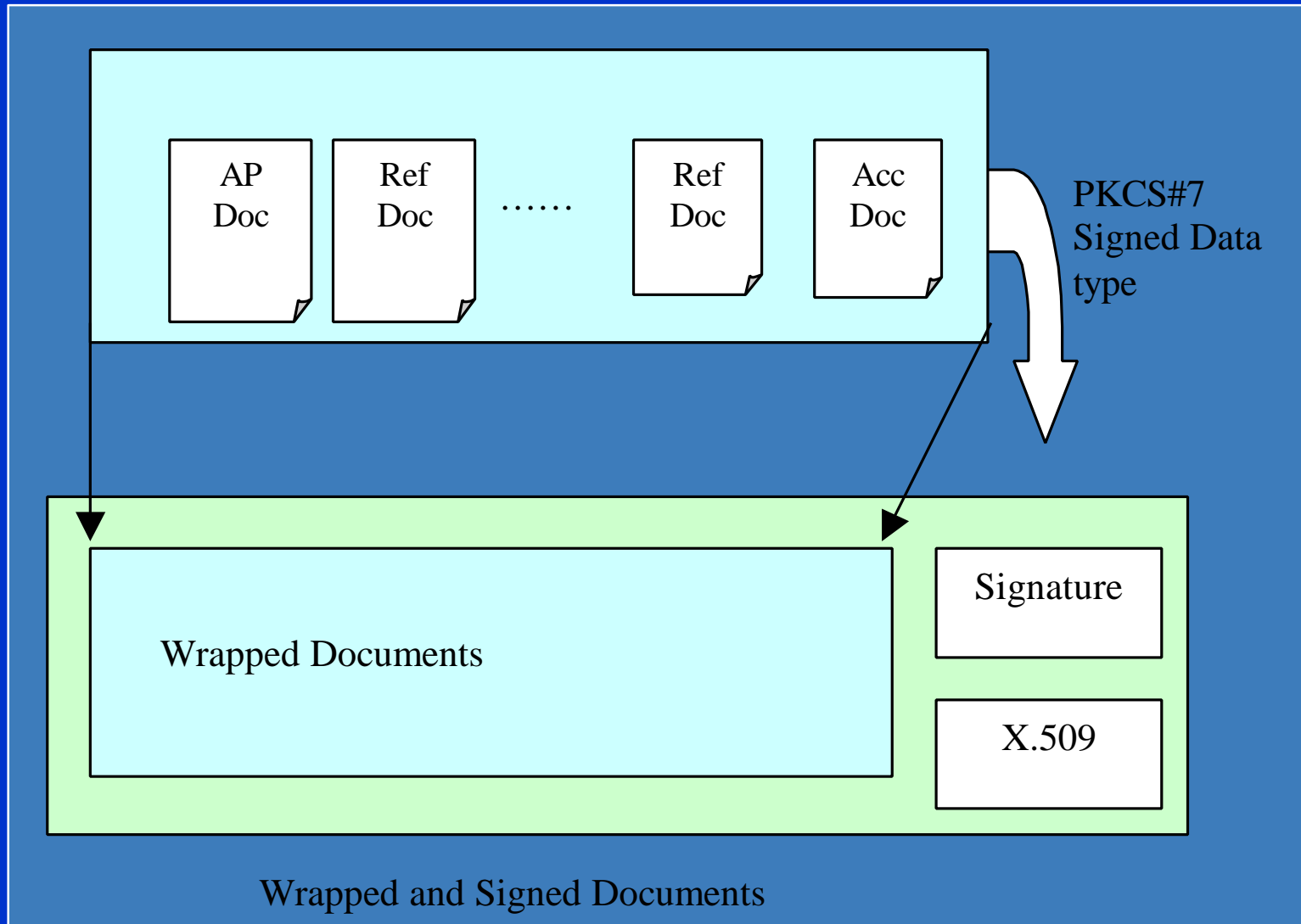
Document Packaging - Wrapping



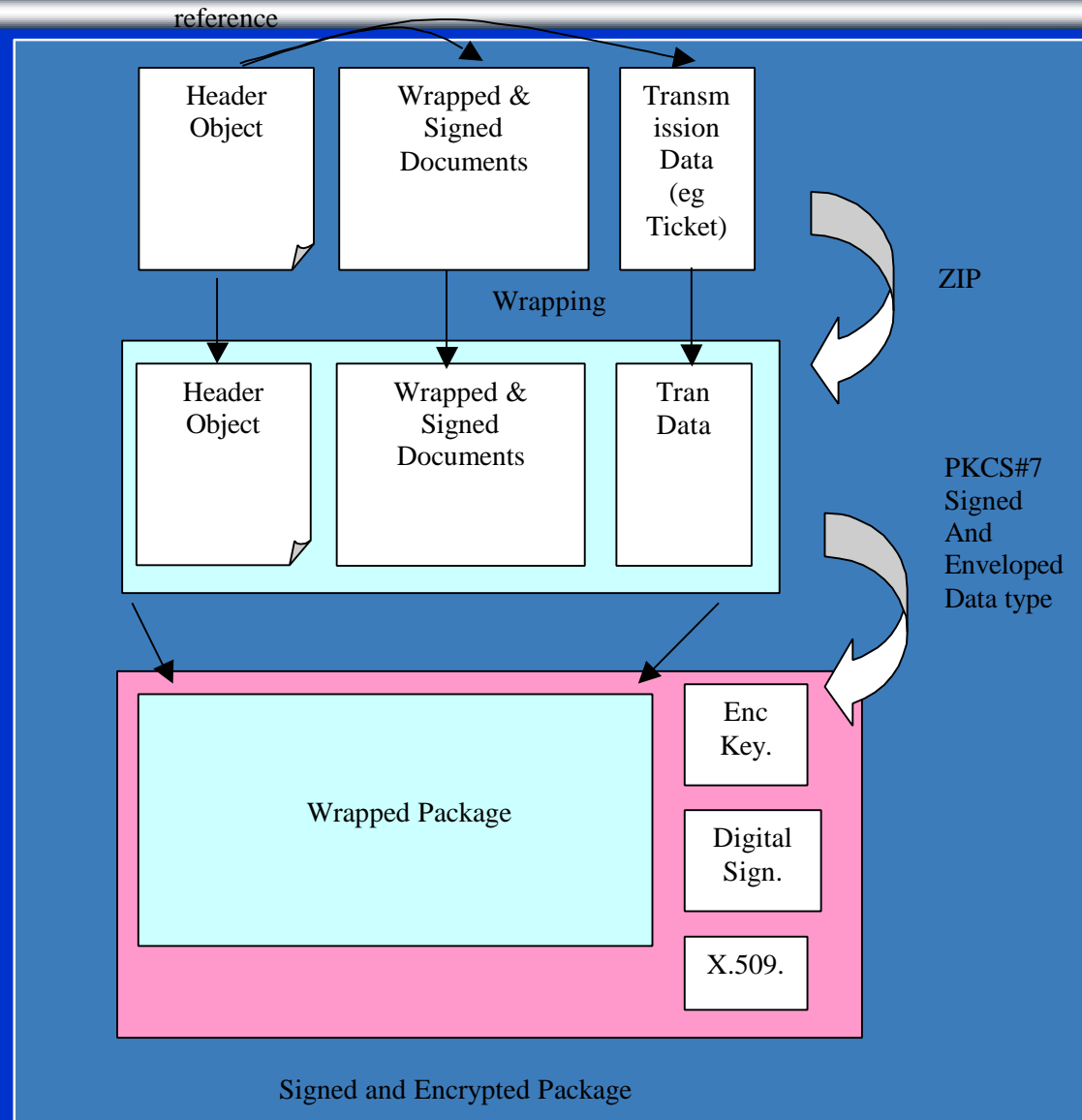
Wrapping.

- Builds on SDIF for Priority Doc Exchange
- Documents Formats
 - XML
 - PDF
 - TIFF
 - JPEG
- Uses ZIP to bundle docs
 - Commercial Standard
 - No maintenance costs.

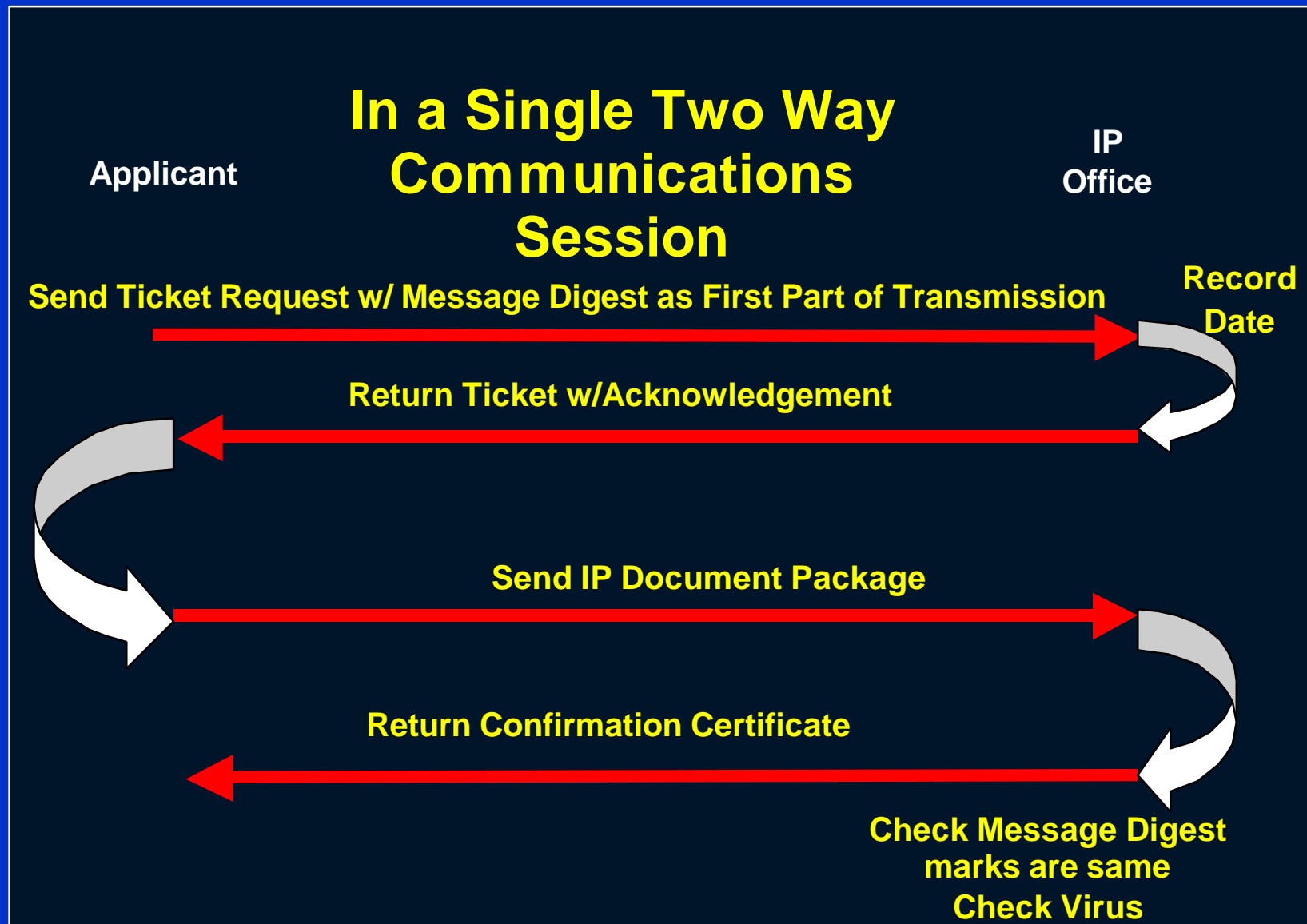
Signing



Packaging for transmission



Ticket Mechanism



Appendix II – XML DTDs

XML DTDs.

- New PCT Patent Application
- Ticket Mechanism
 - Ticket Request
 - Header Object
 - Certificate of Confirmation
- Basic Electronic Signature.

Future Plans

Further DTDs.

⊗ National Patent Procedures

- On-line Filing of new patent applications
- Procedural communications between the Applicant and IP Offices

⊗ PCT Procedures

- On-line Filing of new PCT applications
- Procedural communications between the Applicant and RO/IB
- Receiving Office to IB (Record Copy)
- RO to ISA (Search Copy)
- IB to ISA
- IB to IPEA

⊗ Trademark Applications.

Action Plan

Administrative Instructions.

- ⊗ Draft by end Dec 1999 (**Action:WIPO**)
- ⊗ Comments Jan – Mar 2000
- ⊗ PCT Assembly discussion – Mar 2000
- ⊗ Publication – June 2000

- ⊗ **Als operational from June 2000**
- ⊗ PLT adoption for National Procdueres
 - May 2000.

Annex F

- Trilateral Approval – November 1999
- SCIT Discussions – December 1999
- SCIT Adoption as STxx – June 2000

- Annex F operational June 2000.

Appendix I

- ⚙ Trilateral Approval – November 1999
- ⚙ SCIT Discussions – December 1999

PCT On-line Filing	Trilateral On-line Filing
Server Development Jan-Jun 2000	PCT DTD – Jan 2000 EP,JP,US DTDs – Jan-Mar 2000
PCT Pilots Jun-Dec 2000	Trilateral Pilots Jan-Dec 2000
PCT Production Mar 2001	Trilateral Production 2000-2002

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The End