

Compliance Component

DEFINITION						
Name	Message Authentication					
Description	Message authentication is a technique used to detect unauthorized changes to, or corruption of, the contents of a transmitted electronic message.					
Rationale	Provides a means to validate the integrity of information transmitted over or stored in an unsecured environment.					
	Provides:					
	•	Non-Repudiation				
Benefits		 When the system provides data integrity a receiver can be sure of both the sender's identity and that he is receiving the data that sender meant to send. 				
ASSOCIATED ARCHITECTURE LEVELS						
List the Domain Name		Security				
List the Discipline Name		Technical Controls				
List the Technology Area Name		Identification and Authentication				
List Product Component Name						
COMPLIANCE COMPONENT TYPE						
Document the Compliance Component Type		Guideline				
Component Sub-type						
		COMPLIANCE DETAIL				
State the Guideline, Standard or Legislation		 Message authentication must be considered for applications where there is a security requirement to protect the integrity of the message content such as: Electronic funds transfer Specifications Contracts Proposals Other similar electronic data exchanges of high importance An assessment of security risks should be carried out to determine if message authentication is required and to identify the most appropriate method of message authentication. Recommended methods of message authentication				

	 Non-repudiation Non-repudiation should be used where it is necessary to resolve disputes of authenticity such as dispute involving the use of a signature on an electronic contract or payment. Digital Signatures Digital signatures provide a means of protecting the authenticity and integrity of electronic documents. They can be used in electronic commerce where there is a need to verify who signed an electronic document and check whether the contents of the signed document have been changed. (See Digital Signatures CC). These services are based on the use of encryption and digital signature techniques (see Cryptography TA). Note: Message authentication is not designed to protect the contents of a 						
Document Source Reference #							
Standard Organization							
Name	SP 800-63; FIPS 201, FIPS 198, SP 800-61, ISO 17799-2000 (E)	Website					
Contact Information							
Government Body							
Name	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	Website	http://csrc.nist.gov/				
Contact Information	inquiries@nist.gov						
KEYWORDS							
List all Keywords	Encryption, non-repudiation, digital signature, cryptography, validate, integrity.						
COMPONENT CLASSIFICATION							
Provide the Classification	Emerging Current		Twilight Sunset				
Rationale for Component Classification							
Document the Rationale for Component Classification							
Conditional Use Restrictions							
Document the Conditional Use Restrictions							

Migration Strategy							
Document the Migration Strategy							
Impact Position Statement							
Document the Position Statement on Impact							
CURRENT STATUS							
Provide the Current Status)	☐ In Development ☐ Under Review ⊠ Approved ☐ Rejected						
AUDIT TRAIL							
Creation Date 01/04/2007		Date Accepted / Rejected	03/23/2007				
Reason for Rejection							
Last Date Reviewed		Last Date Updated					
Reason for Update							