Compliance Component

DEFINITION	
Name	Entity Authentication
Description	Entity Authentication is the process by which an agent in a distributed system gains confidence in the identity of a communication partner.
Rationale	Ensure that only authenticated entities have the capability to be connected to an agency network. To address several threats, including but not limited to masquerade, password compromise, replay attacks and the signing of pre-defined data.
Benefits	• A means to ensure users are who they say they are • Verify the user who attempts to perform functions in a system is in fact the user who is authorized to do so • Provides a measure of non-repudiation

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	User identification and authentication should have a unique identifier (user ID) for their personal and sole use so that activities can subsequently be traced to the responsible individual. User IDs and passwords should not be shared. (See Password Controls CC). • There are various authentication procedures, which can be used to substantiate the claimed identity of a user. o User IDs with passwords are a very common way to provide authentication o The same can also be achieved with cryptographic means and authentication protocols o Objects such as tokens or smart cards that users possess o Biometric authentication technologies that use the

	unique characteristics or attributes of an individual A combination of technologies and mechanisms securely linked will result in stronger authentication		
Document Source Reference #			
Standard Organization			
Name	FIPS PUB 196	*Website*	http://csrc.nist.gov/publications/fips/fips196/fips196.pdf
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	Password, user ID, identification, authorization, access.		
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	01/11/2007	*Date Accepted / Rejected*	03/23/2007
Reason for Rejection			
Last Date Reviewed		*Last Date Updated*	
Reason for Update			