



COMPLIANCE COMPONENT

DEFINITION			
Name	Cryptography for Web Servers		
Description	Cryptography for Web Servers provides authentication and encrypts the data in transit.		
Rationale	Cryptography provides the necessary security features to protect the data on web servers that are unsecure.		
Benefits	<ul style="list-style-type: none"> • Server authentication • Client authentication • Data integrity • Confidentiality • User authentication 		
ASSOCIATED ARCHITECTURE LEVELS			
Specify the Domain Name	Security		
Specify the Discipline Name	Technology Controls		
Specify the Technology Area Name	Cryptography		
Specify the Product Component Name			
COMPLIANCE COMPONENT TYPE			
Document the Compliance Component Type	Guideline		
Component Sub-type			
COMPLIANCE DETAIL			
State the Guideline, Standard or Legislation	<p>The most commonly used encryption protocol is Secure Socket Layer (SSL). HTTPS is Hypertext Transport Protocol integrated with SSL. SSL is sometimes referred to as SSL/TLS (Secure Socket Layer/Transport Layer Security).</p> <ul style="list-style-type: none"> • When transmitting sensitive or critical information over the web, users shall use SSL with at least: <ul style="list-style-type: none"> ○ Advanced Encryption Standard (AES) 256-bit encryption ○ Secure Hash Algorithm-2 (SHA-2) ○ Transport Layer Security v 1.2 (TLS v 1.2) 		
Document Source Reference #	NIST Special Publications 800-52, Rev. 2 – Guidelines for the Selection, Configuration and use of Transport Layer Security (TLS) Implementations; IRS Publication 1075		
Compliance Sources			
Name	National Institute of Standards and Technology (NIST), Computer Security Resource Center	Website	http://csrc.nist.gov

	(CSRC), IRS		
Contact Information	inquiries@nist.gov		
Name		Website	
Contact Information			
KEYWORDS			
List Keywords	SSL, HTTPS, FTP, SMTP, AES, Digital Signature, SHA-2, TLS, Cryptography, Web Server		
COMPONENT CLASSIFICATION			
Provide the Classification	<input type="checkbox"/> Emerging	<input checked="" type="checkbox"/> Current	<input type="checkbox"/> Twilight <input type="checkbox"/> Sunset
Sunset Date			
COMPONENT SUB-CLASSIFICATION			
Sub-Classification	Date	Additional Sub-Classification Information	
<input type="checkbox"/> Technology Watch			
<input type="checkbox"/> Variance			
<input type="checkbox"/> Conditional Use			
Rationale for Component Classification			
Document the Rationale for Component Classification			
Migration Strategy			
Document the Migration Strategy			
Impact Position Statement			
Document the Position Statement on Impact			
CURRENT STATUS			
Provide the Current Status	<input type="checkbox"/> In Development	<input type="checkbox"/> Under Review	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
AUDIT TRAIL			
Creation Date	10/27/2016	Date Approved / Rejected	10/27/2016
Reason for Rejection			
Last Date Reviewed	03/13/2023	Last Date Updated	03/16/2023
Reason for Update	Vitality		