



# COMPLIANCE COMPONENT

DEFINITION			
<i>Name</i>	Cryptography for Web Servers		
<i>Description</i>	Cryptography for Web Servers provides authentication and encrypts the data in transit.		
<i>Rationale</i>	Web servers are inherently unsecured and cryptography provides necessary security features to protect the data.		
<i>Benefits</i>	<ul style="list-style-type: none"> <li>• Server authentication</li> <li>• Client authentication</li> <li>• Data integrity</li> <li>• Confidentiality</li> <li>• User authentication</li> </ul>		
ASSOCIATED ARCHITECTURE LEVELS			
<i>Specify the Domain Name</i>	Security		
<i>Specify the Discipline Name</i>	Technology Controls		
<i>Specify the Technology Area Name</i>	Cryptography		
<i>Specify the Product Component Name</i>			
COMPLIANCE COMPONENT TYPE			
<i>Document the Compliance Component Type</i>	Guideline		
<i>Component Sub-type</i>			
COMPLIANCE DETAIL			
<i>State the Guideline, Standard or Legislation</i>	<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"> <li>• When transmitting sensitive or critical information over the web, users shall use SSL with at least:               <ul style="list-style-type: none"> <li>○ Advanced Encryption Standard (AES) 256-bit encryption</li> <li>○ Secure Hash Algorithm-2 (SHA-2)</li> </ul> </li> </ul>		
<i>Document Source Reference #</i>	NIST Special Publications 800-44 V2 – Guidelines for Securing Public Web Servers; IRS Publication 1075		
Compliance Sources			
<i>Name</i>	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC), IRS	<i>Website</i>	<a href="http://csrc.nist.gov">http://csrc.nist.gov</a>

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