



## TECHNOLOGY AREA

DEFINITION	
Name	System Life Cycle Security
Description	<p>System Life Cycle Security is a methodology for addressing security in an information system through the following phases:</p> <ul style="list-style-type: none"><li>• Initiation Phase</li><li>• Acquisition and Development Phase</li><li>• Implementation Phase</li><li>• Operation and Maintenance Phase (Enterprise Patch Management)</li><li>• Disposal Phase</li></ul> <p>An information system refers to hardware, software, computer system connections and information, and the system's housing.</p>
Rationale	<p>Security vulnerabilities can occur during any phase of the system life cycle process. Addressing security in every phase gives an agency confidence that the system will function with a minimum of risk.</p>
Benefits	<p>System Security Life Cycle is important for the following reasons:</p> <ul style="list-style-type: none"><li>• System security is easier to achieve when security issues are considered as a part of a routine planning, development and implementation process, and security safeguards are integrated into the system during its design.</li><li>• Integrating security into an information system is generally less expensive than retrofitting security.</li><li>• When security safeguards are integral to a system, they are usually easier to use.</li><li>• Addresses critical business risk throughout the system life cycle.</li></ul>
ASSOCIATED ARCHITECTURE LEVELS	
Specify the Domain Name	Security
Specify the Discipline Name	Management Controls
Specify the Technology Area Name	
Specify the Product Component Name	
COMPLIANCE COMPONENT TYPE	
Document the Compliance Component Type	Guideline
Component Sub-type	
COMPLIANCE DETAIL	
Document Source Reference #	NIST SP 800-12 Rev. 1, NIST SP 800-53 Rev. 5, NIST SP 800-37 Rev. 1, NIST SP 800-39

Compliance Sources			
Name	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	Website	<a href="https://csrc.nist.gov/">https://csrc.nist.gov/</a>
Contact Information	inquiries@nist.gov		
Name	Open Web Application Security Project(OWASP)	Website	<a href="https://www.owasp.org/index.php/Main_Page">https://www.owasp.org/index.php/Main_Page</a>
Contact Information	<a href="https://www.owasp.org/index.php/Main_Page">https://www.owasp.org/index.php/Main_Page</a>		
KEYWORDS			
List Keywords	System Life Cycle, vulnerabilities, remediation, maintenance, monitor, management, procedures, planning, evaluate, certification, accreditation, requirements, SDLC, risk, policy, assurance, cost, impact, performance.		
COMPONENT CLASSIFICATION			
Provide the Classification	<input type="checkbox"/> Emerging <input checked="" type="checkbox"/> Current <input type="checkbox"/> Twilight <input type="checkbox"/> Sunset		
Sunset Date			
CURRENT STATUS			
Provide the Current Status	<input type="checkbox"/> In Development <input checked="" type="checkbox"/> Under Review <input type="checkbox"/> Approved <input type="checkbox"/> Rejected		
AUDIT TRAIL			
Creation Date	09/07/06	Date Approved / Rejected	02/13/2025
Reason for Rejection			
Last Date Reviewed	01/28/2025	Last Date Updated	02/13/2025
Reason for Update	Vitality		