



TECHNOLOGY AREA

DEFINITION	
<i>Name</i>	System Life Cycle Security
<i>Description</i>	<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"> • Initiation Phase • Acquisition and Development Phase • Implementation Phase • Operation and Maintenance Phase (Patch Management) • Disposal Phase <p>An information system refers to hardware, software, computer system connections and information, and the system's housing.</p>
<i>Rationale</i>	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.
<i>Benefits</i>	<p>System Security Life Cycle is important for the following reasons:</p> <ul style="list-style-type: none"> • 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. • Integrating security into an information system is generally less expensive than retrofitting security. • When security safeguards are integral to a system, they are usually easier to use. • Addresses critical business risk throughout the system life cycle.
ASSOCIATED ARCHITECTURE LEVELS	
<i>Specify the Domain Name</i>	Security
<i>Specify the Discipline Name</i>	Management Controls
<i>Specify the Technology Area Name</i>	
<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>Document Source Reference #</i>	NIST SP 800-12 Rev. 1, NIST SP 800-53 Rev. 4, NIST SP 800-37 Rev. 1, NIST SP 800-39

Compliance Sources			
<i>Name</i>	National Institute of Standards and Technology (NIST), Computer Security Resource Center (CSRC)	<i>Website</i>	https://csrc.nist.gov/
<i>Contact Information</i>	inquiries@nist.gov		
<i>Name</i>	Open Web Application Security Project(OWASP)	<i>Website</i>	https://www.owasp.org/index.php/Main_Page
<i>Contact Information</i>	https://www.owasp.org/index.php/Main_Page		
KEYWORDS			
<i>List Keywords</i>	System Life Cycle, vulnerabilities, remediation, maintenance, monitor, management, procedures, planning, evaluate, certification, accreditation, requirements, SDLC, risk, policy, assurance, cost, impact, performance.		
COMPONENT CLASSIFICATION			
<i>Provide the Classification</i>	<input type="checkbox"/> <i>Emerging</i>	<input checked="" type="checkbox"/> <i>Current</i>	<input type="checkbox"/> <i>Twilight</i> <input type="checkbox"/> <i>Sunset</i>
<i>Sunset Date</i>			
CURRENT STATUS			
<i>Provide the Current Status</i>	<input type="checkbox"/> <i>In Development</i>	<input checked="" type="checkbox"/> <i>Under Review</i>	<input type="checkbox"/> <i>Approved</i> <input type="checkbox"/> <i>Rejected</i>
AUDIT TRAIL			
<i>Creation Date</i>	09/07/06	<i>Date Approved / Rejected</i>	3/22/2018
<i>Reason for Rejection</i>			
<i>Last Date Reviewed</i>	02/23/2022	<i>Last Date Updated</i>	12/05/2019
<i>Reason for Update</i>	Vitality		