

Glossary

A	
Term	Definition
Audit	An independent examination of a work product for software or set of work products to assess compliance with specifications, standards, contractual agreements, or other criteria.
B	
Term	Definition
Baseline	A specification or product that has been formally reviewed and agreed on and can only be changed through formal control processes.
Build	Operational version of a software product incorporating a specified subset of capabilities that informal and formal work products include in multiple configurations.
Build Engineer	A role for an integrator to provide a build strategy and build tools to create software baselines ready for test and integration.
Build Request	Requests to software configuration management to provide software builds for software systems and use for computer labs and support the formal test.
C	
Term	Definition
Capability Maturity Model Integration (CMMI)	Collection of process models and methods for use in new disciplines to be integrated for organizational structures.
Configuration Audit Plan	Plan that is used as configuration audit steps and instruction for internal and formal audits performed.
Configuration Management	The process of identifying and defining the configuration items in a system, controlling the changes and release of these items throughout the system life cycle, and recording and reporting the status of change requests to verify completeness.
Configuration Management Plan	It establishes a well-documented and established configuration management and control practice for the overall software system baseline to be maintained in the software design/development and system integration facilities and to reflect a set of controlled and configured products and documentation.
Critical Design Review	A formal meeting at which a critical design is presented to the user or customer for comment and approval.
D	
Term	Definition
Design	The purpose of defining the software architecture, components, modules, interfaces, and data for a software system to satisfy specified requirements.
Development Folder	The detailed design for newly developed software capabilities will be documented in the development folder and reviewed during internal detailed design reviews.
Development Plan	Establishes the plan for development of software during the phase of the program. This plan establishes system-level engineering life-cycle standards, practices, and guidelines for development of CI (configuration item) and non-CI system software.

5F	
Term	Definition
First-Article Inspection	The inspection performed to ensure software engineering requirements and processes have been applied to acceptance testing and delivery to customers.
Formal Testing	The process of conducting testing activities and reporting the results in accordance with approved test plans.
Functional Configuration Audit	Prerequisite to acceptance of the configuration item. A technical understanding is accomplished concerning the validation and verification per the test plan concerning software.
5I	
Term	Definition
Implementation Phase	The period of time in the software life cycle during which software work products are created from design documentation.
Inspection	A formal evaluation in which software requirements, designs, or codes are examined in detail to detect faults, violations of development standards, and other problems.
Integration Testing	An orderly progression of testing which elements of software and hardware are combined and tested.
5N	
Term	Definition
Nondevelopment Item	Software used to assist in the development of the deliverable work products, but is not identified as a deliverable product.
5P	
Term	Definition
Peer Review	An important part of verification and a proven mechanism for effective defect removal.
Physical Configuration Audit (PCA)	Identifies the product baseline for production and acceptance of the work product audited. PCA verifies that the “ as-built” configuration correlates with the “ as-designed” product configuration, and the acceptance test requirements are comprehensive and meet the necessary requirements for acceptance of the production unit.
5Q	
Term	Definition
Qualification Testing	Formal testing conducted by the developer for the customer to demonstrate that the software meets specified requirements.
Quality	The totality of features and characteristics of a product or service that has the ability to satisfy required needs.
5R	
Term	Definition
Rational ClearCase	Software tool; an object-oriented database utility used to establish software product archiving, automation, identification, version/change control, software building, product releases, status accounting, and auditing activities.
Rational ClearQuest	Database utility; used for recording, tracking and reporting software work product reports and changes and providing internal access control mechanisms.

Requirement	A condition or capability needed by a user to solve a problem or achieve an objective. The condition of capability must be met by a system to satisfy a contract, standard, or specification.
Requirement Analysis	The process of studying user needs and arriving at a definition of system or software requirements. Verification is also performed for systems and software requirements.
Requirements Phase	The period of time in the software life cycle during which the requirements of a software product, such as functional and performance capabilities, are defined
Review	Informal or formal review of system requirements, software design, software configuration management, software quality, test, and required data to show compliance to documented plans, processes, and procedures.
Risk Management	Process to identify risks and identify an approach to prevent future risks.
SS	
Term	Definition
Software and Systems Integration Plan (SSIP)	The SSIP defines or references processes and procedures that are used to integrate defined work products, systems or subsystems, and hardware units into a software and systems integration environment.
Software Configuration Management	Establishes and maintains the work product identification process and controls changes to identified software work products and their related documentation. Records and reports information needed to manage software work products effectively, including the status of proposed changes and the implementation status of approved changes. Maintains auditable records of all applicable software work products that help verify conformance to specifications, interface control documents, contract requirements, and as-built software configurations.
Software Design/Development Process	The process by which a user's needs are translated into software requirements and transformed into design/code being tested, documented, and certified for operational use.
Software Development Facilities	Facilities used for the preparation of software work products prior to delivery to the software and system integration environment or a higher level for testing capabilities.
Software Documentation	Technical data or information that describing or specifying the design or details, explaining the capabilities, and providing instructions for using software.
Software Integration Log	A software integration log provides a view of the day-to-day operations for the design and test teams using hardware units for integration and checkout. Facility operations managers use these logs to support operational setup activities.
Software Integration Strategy	The strategy for software integration provides a road map that describes the steps to be conducted as part of the implementation of software to start integration activities. This strategy should be flexible and promote an approach that could show change.
Software Subcontractor Plan	It provides the direction for the subcontractor hired and the program and projects for understanding the requirements and guidelines for both organizations.

Software Tools	Computer tools used to develop, test, analyze, and maintain a computer program and its documentation.
Software/Systems Integration Environment	The primary facility for hardware, software integration, and system-level testing; could include the production of firmware.
Statement Of Work (SOW)	Statement of work (SOW) will list subcontractor requirements, expectations and interfaces between the program and project.
Subcontractor	A subcontractor is a person who is hired by a general contractor (or prime contractor, or main contractor) to perform a specific task as part of the overall project and is normally paid for services provided to the project by the originating general contractor.
5T	
Term	Definition
Test Readiness Meetings	Ensure that the software tests are complete and carry out the intent of the software test plan and that software to be tested is under formal control and ready for test.
Testing	The process of exercising or evaluating a system by manual or automated means to verify that requirements satisfy expected results.
5V	
Term	Definition
Validation	Demonstrates that the product, as provided, fulfills its intended use.
Verification	Addresses whether the work product properly reflects the specified requirements.
Version Control Document	Identifies and describes a software version consisting of one or more computer software work products; used to release, track, and control software versions.
5W	
Term	Definition
Work Product	A product provided by software design that consists of requirements, code, diagrams, documentation, and development folders.