

Capability Maturity Model – Integration (CMM - I)

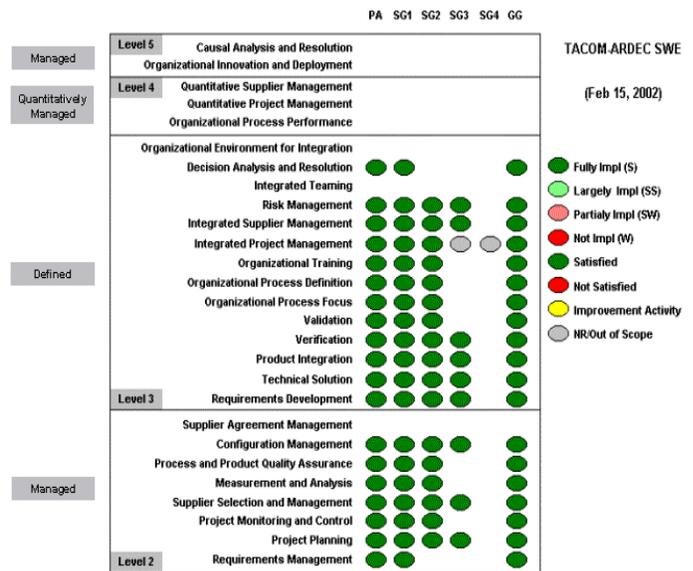


INTRODUCTION

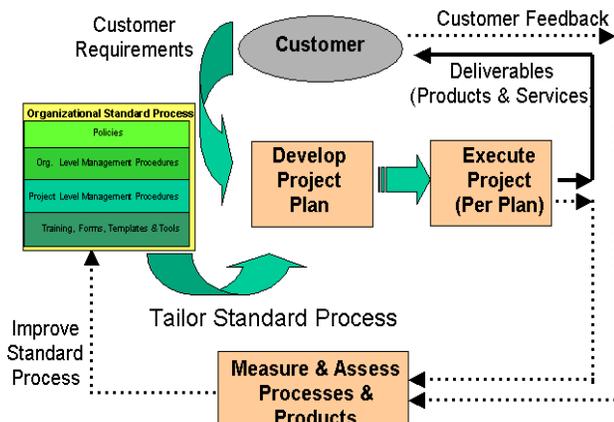
The TACOM-ARDEC Software Enterprise, a collaboration of the Quality Engineering Directorate (QED) with the Fire Support Armaments Center (FSAC), is using the CMMI model as the basis for its continuous improvement journey. This five-level model is a Department of Defense initiative to consolidate existing (and future) Capability Maturity Models (CMMs) into a single, tailorable, yet integrated architecture. The CMMI currently incorporates the Software Capability Maturity Model (SW-CMM) used extensively throughout the international government and industrial base for over 15 years, and the more recent Systems Engineering Capability Model (SECM) developed by the Electronic Industries Alliance (EIA). In addition, CMMI integrates aspects of the Software Acquisition CMM (SA-CMM) as well as the Integrated Product Development Capability Maturity Model (IPD-CMM).

Implementing the CMMI entails applying an extensive set of organizational policies and procedures (developed to meet all CMMI criteria) to customer requirements, constraints (e.g., budget and schedule), and other programmatic parameters in order to execute project activities. Measures are collected and analyzed to track progress, to help manage risk, to alert management as to adverse trends, and to serve as a guide for correcting (optimizing) the process.

In February 2002, the TACOM-ARDEC Software Enterprise met its initial goal of achieving a CMMI-SE/SW/A assessment rating of Level 3 (referred to as “Defined”) and characterized by effectively implemented processes, a proactive organization, and planned training with a foundation infrastructure set for moving towards achieving Level 4 (referred to as “Quantitatively Managed”) and characterized by statistically stable process performance that requires measurement data over an extended period). The TACOM-ARDEC Software Enterprise is the first organization in the United States and the second in the world to achieve a Level 3 rating for CMMI-SW/SE/A.



CMMI Implementation



The TACOM-ARDEC Software Enterprise has developed a high degree of expertise in the CMMI and applying it to existing business practices. The organization continues to move forward, with plans to achieve Level 4 in 2003 and Level 5 in 2005.

For additional information, please contact

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