SDA AUTOMATION SOFTWARE

Tietronix SDA is an engineering process automation product that guides engineers through their project specific standards, processes, and procedures. SDA breaks 'mission critical' processes into the smallest steps possible and guides engineers through each assigned process step by supplying all required and helpful information to complete the step, including: templates, examples, best practices, references, instructions, and background information.

SDA Features:

- Automation of:
  - Software Lifecycle Process Execution
  - Task handoffs between participants
  - Metrics Collection
  - Compliance Enforcement
  - Detection of events resulting in Alerts and Notifications
  - Audit trail maintenance
- Web Application
- Collaborative support for geographically disparate groups
- Real time graphical display of Process State
- Reports and Dashboards
- Real time status and monitoring of the Engineering Process and Project
- CMMI process mapping

SDA Benefits:

- Increased efficiency
- Increased agility
- Increased quality
- Total Process Visibility
- Enables process improvement and institutionalization
- Reduced Training requirements
- Increased Process awareness
- Enforces Process compliance

TIETRONIX

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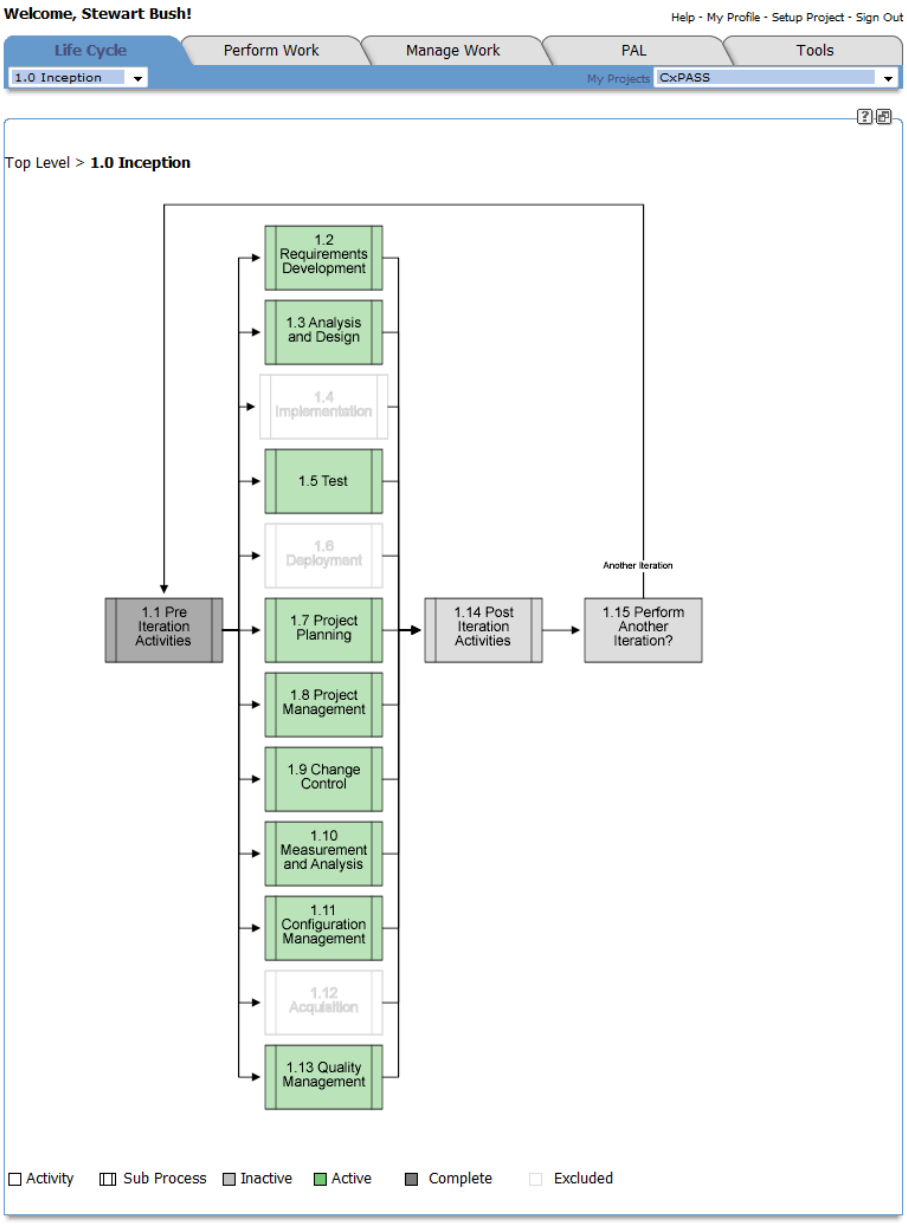

Figure 1. Top Level CxPASS Process view of an Iterative UP based process. The ghosted boxes are the result of process tailoring. The "wings" or small rectangles on the left and right hand side of the high level process steps represent the process steps that can be further detailed. For Instance '1.8 - Project Management' can be broken down into more individual steps as opposed to '1.15 - Perform Another Iteration?'.

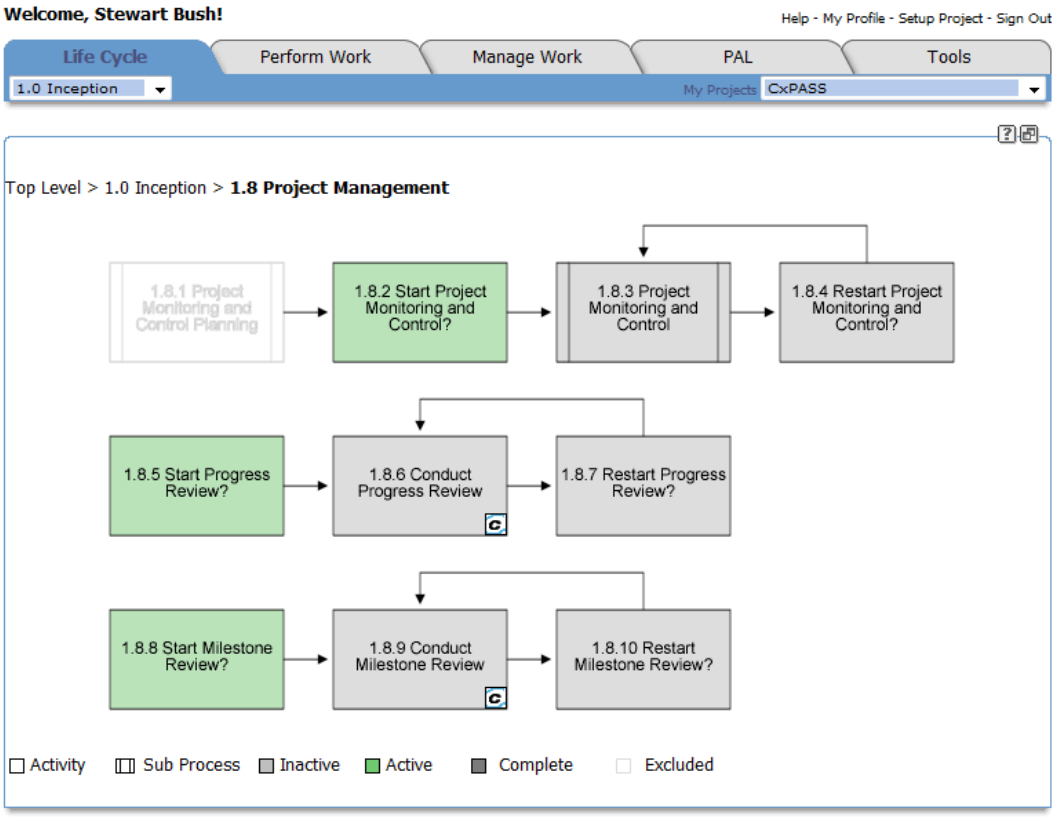

Figure 2. 2nd level decomposition of CxPASS Process for 1.8 Project Management. The "c's" in the lower right corner of some of the process boxes indicate a CMMI mapping. For additional details, see Figure 4. The color of the process boxes represents the current process status. Green boxes are 'Active'. Light Gray boxes are 'Inactive' and have not yet been worked – such as '1.8.6 – Conduct Progress Review'. Dark gray boxes indicate the process step (or series of subordinate steps) has been completed. See Figure 1 '1.1 Pre-Iteration Activities' for an example of a completed process box.

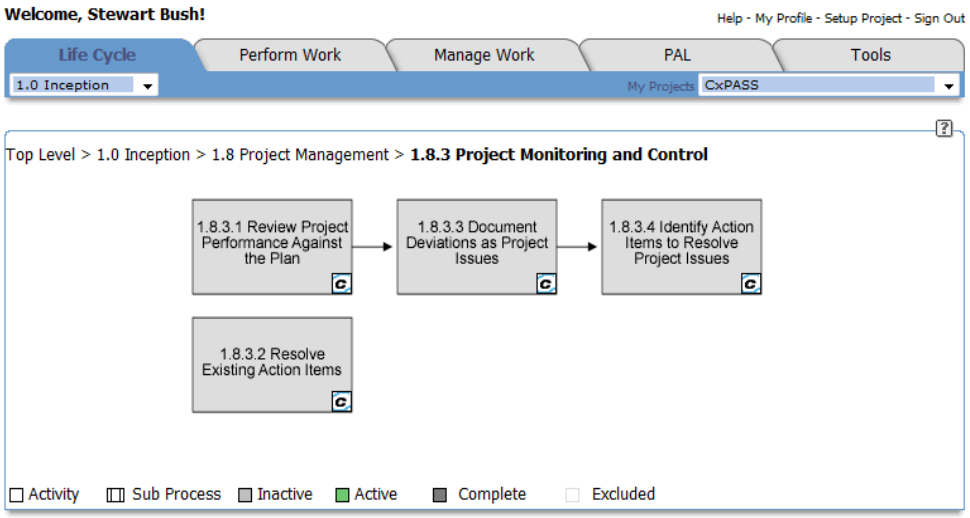

Figure 3. A lowest level Decomposition of the CxPass Process. This diagram shows a breakdown to the lowest level process steps required by the box '1.8.3 Project Monitoring and Control' in Figure 2.

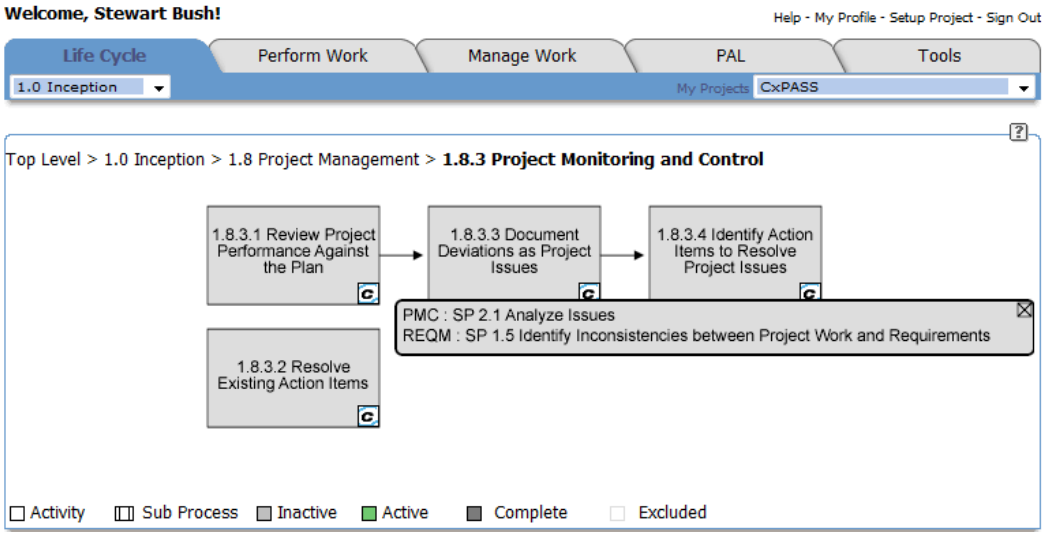

Figure 4. CMMI mappings for Process Step 1.8.3.3. The long rectangular box is tied to '1.8.3.3 Document Deviations as Project Issues' and indicates that performance of this process step automatically credits† the project for following two best CMMI practices: SP 2.1 – Collect and analyze issues and determine corrective actions to address under CMMI Process Area - PMC – Project Monitoring and Control - for CMMI level 2, and SP 1.5 – Identify inconsistencies between project plans, work products, and the requirements under CMMI Process Area - REQM – Requirements Management - for CMMI level 2.

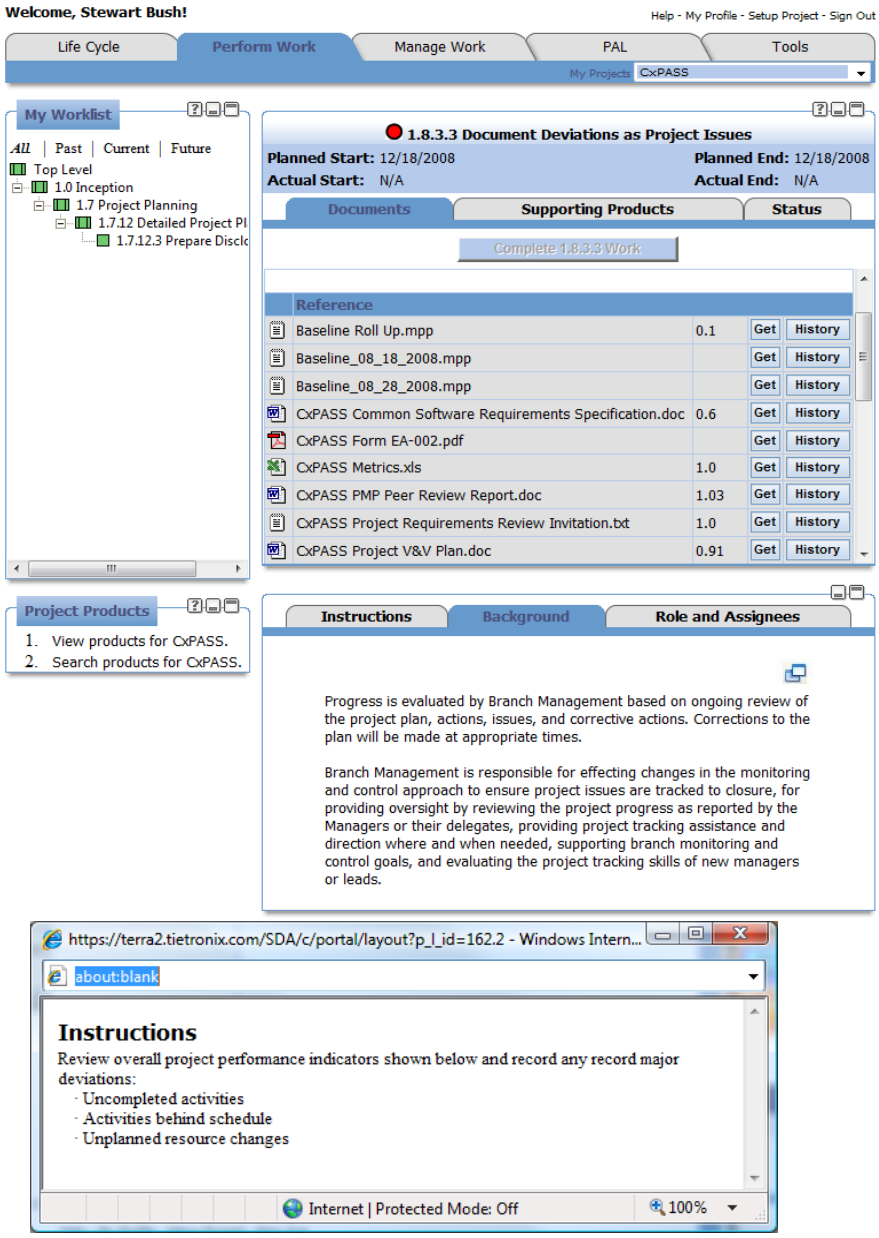

Figure 5. Perform work for Process Step - 1.8.3.3. This figure depicts the work environment where the assigned person executes actions required by this process step. This page provides Instructions and background information and other useful items such as templates, examples, reference documents, and any inputs required for this process step. Also note that the red circle atop this figure (underneath Manage Work tab) denotes this step is late according to the scheduled planned end which is identified just below the circle as 12/18/2008.

My Projects CxPASS

Reports

Report List

CMMI Compliance Report

Project CxPASS Detail View Graphical View

Requirements Management

SG 1 Manage Requirements

SP 1.1 Activity	Resource	Effort
1.2.1 Define Requirements Criteria		
Product (Status) / Location: CxPSS Software Development Plan.doc (In Work : 50.0%)		
1.2.10 Peer Review Requirements	Chad Keeton	0
	Ken DeMerchant	2
	Kenneth McMurtrie	1
	Mark Ehmry	6
	Mark Guerra	2
	Svetlana Hanson	3
Product (Status) / Location: CxPASS PRS Peer Review Report.doc (In Work : 50.0%)		
1.2.4 Develop Project Requirements Specification	Kenneth McMurtrie	120
Product (Status) / Location: CxPSS Project Requirements Specification.doc (In Work : 50.0%); CxPASS Master Acronym List.doc (In Work : 50.0%); eProcMeetingwithStakeholders2008_08_20.doc (Complete) Get		
1.2.5 Determine Safety Requirements	Lui Wang	0
	Ken DeMerchant	2
	Kenneth McMurtrie	4
	Svetlana Hanson	0
Product (Status) / Location: CxPSS Project Management Plan (PMP).doc (In Work : 50.0%); CxPSS Project Requirements Specification.doc (In Work : 50.0%); CxPSS Software Development Plan.doc (In Work : 50.0%)		
1.2.11.4 Review Requirements	Dave C Swartwout	10
	Lui Wang	0
	Neil A Woodbury	0
	Robert Phillips	0
	Kenneth McMurtrie	0
	Mark Ehmry	0
	Mark Guerra	0
	Michel Izygon	0
	Svetlana Hanson	0

Figure 6. CMMI Compliance Report – Detailed. This report shows the status of CxPASS process steps and the level of effort (in hours) spent by CxPASS engineers. This info is applicable to the specific practice SP 1.1 – Obtain an Understanding of the Requirements as part of the specific goal SG 1 – Requirements are managed and inconsistencies w/project plans & work products are identified for Process Area REQM – Requirements Management.

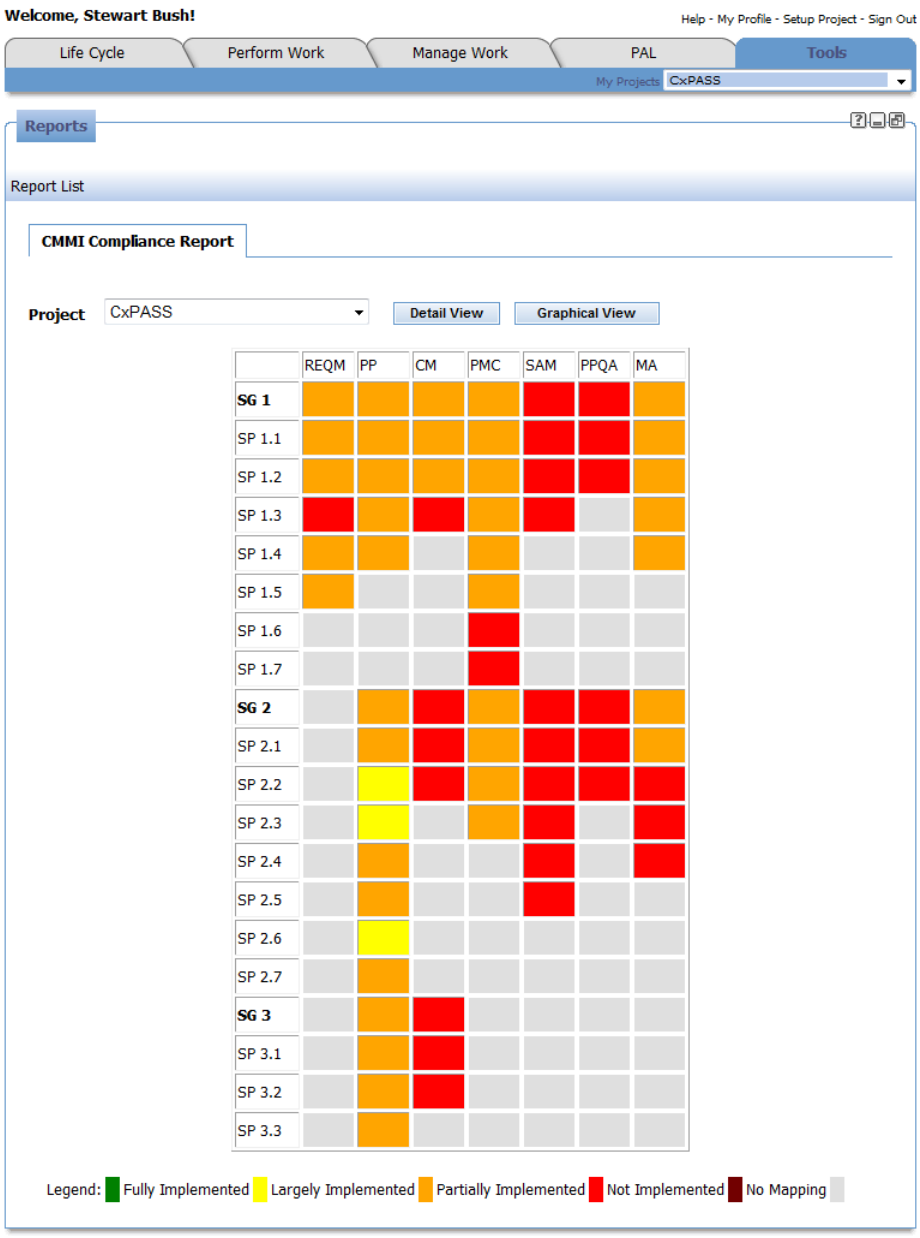

Figure 7. CMMI Compliance Scorecard Report. This report reflects a 'real-time' snapshot of CxPASS project compliance to the CMMI process areas. As this project nears the end of the process, more of the boxes will register as 'green' for being fully compliant. Clicking on the individual boxes will display the details of compliance and associated color assignment.