



CMPRO



Professional Systems Associates, Inc.
Images courtesy of the U.S. Military

CMPRO OVERVIEW

CMPRO automates and simplifies the process of managing engineering, product, inventory, and configuration data and empowers organizations to more effectively produce, maintain, and/or manage the products and items that are central to how they work. CMPRO is a web-based (zero-client footprint), commercial off-the-shelf (COTS) product lifecycle management (PLM) solution designed to orchestrate all of your organization's PLM data in one secure database. CMPRO provides numerous out-of-the-box solutions and is built with an architecture that allows for rapid customization around its core engine to meet the needs of each client's unique business process environment (customization handled by PSA). Potential U.S. Navy and Marine Corps customers will be excited to learn that CMPRO is also DADMS approved (ID: 20419) without restrictions.

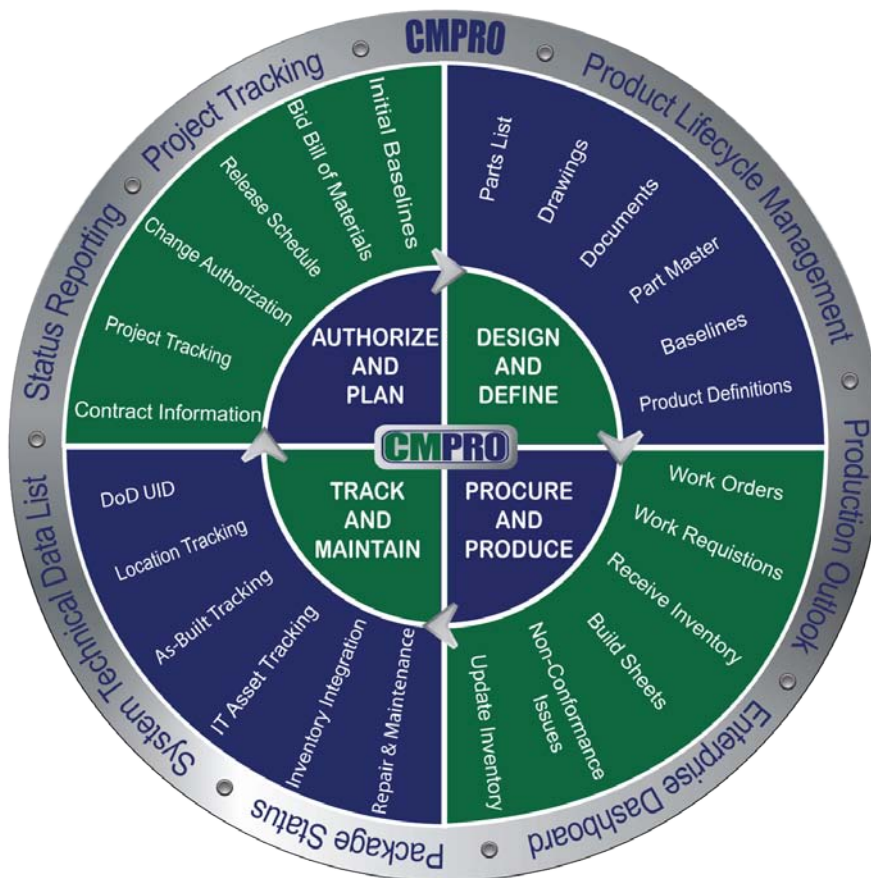
Integrating CMPRO into your business helps ease the success and management of your processes with integrated modules that provide end-to-end automation and a centralized repository of data (product, status, files, etc.). The centralized repository of data allows you to enter data once for use throughout the system which: reduces labor costs, reduces data-entry errors, ensures the integrity of your data and allows for real-time status. All of these components work together to establish data usability and integrity while improving the quality of your products.

CMPRO Modules:

- ❖ *Drawing & Parts List Management*
- ❖ *Document Management*
- ❖ *Product definition*
- ❖ *As-Built Tracking*
- ❖ *Inventory and Production Management*
- ❖ *Project Management*
- ❖ *Contract Tracking*
- ❖ *Reports Module*
- ❖ *Workflow Management*
- ❖ *Released Software Management*
- ❖ *IT Asset Management*

Save Time and Money with Modules that:

- Define and optimize integrated processes
- Streamline engineering change
- Collaborate in shared workspaces
- Improve and manage organizational processes
- Facilitate communication throughout the supply chain
- Optimize workflow
- Leverage information across the enterprise
- Enable collaborative product commerce
- Promote ease of use with consistent user friendly interface throughout the program
- Interface to inventory, procurement, planning and other systems, and provide some basic web services
- Track costs of engineering through time spent on workflow documents



DRAWING AND DOCUMENT MANAGEMENT

CMPRO provides a Document Repository and a separate Drawing Repository to manage document and drawing information such as: drawings, parts lists and technical manuals. These “vaults” provide centralized locations for managing meta-data associated with drawings and documents, as well as their attached electronic files in their native file formats.

DRAWING & PARTS LIST MANAGEMENT

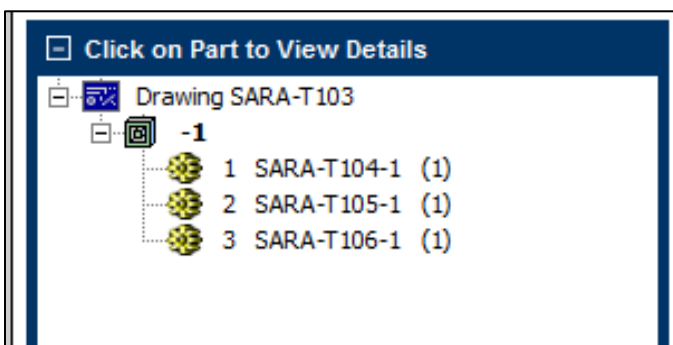
Drawing & Parts List Management Modules are an important feature in CMPRO to ensure that the most current information is available on a product. With CMPRO’s revision control and change management features drawing and part list data can be managed, edited and viewed by the right people in the right sequence.

The level of control imposed on the drawing creation and revision process is determined by several business rules. At the highest level of control, a change control document is required in order to create or revise a drawing. This change control document must be routed and approved before a new or revised drawing can be released into the Drawing Repository.

CMPRO provides several out of the box change control documents for drawing management that are fully workflow enabled including:

- **Drawing Change Notice** - Used for revising drawings, and incorporating stacked changes
- **Engineering Order** - Used for stacking changes against drawings
- **Notice of Revision** - Used for managing changes to DOD drawings.

Parts List Data Screen Shot:



Drawing & Parts List Management Tracks:

- *Drawing number*
- *Revision*
- *Title*
- *CAGE code*
- *Organization*
- *Security status*
- *Application information (next assembly)*
- *Related documents and attachments*
- *Contract Information*
- *Drawing Notes*

Features:

- S-ECR, ECP, E-CN associations are made
- Baseline impacts are reflected immediately
- Parts list export capabilities
- Where Used Parts Search
- Drawing records have proprietary and export control
- Advanced reporting options
- Ad-Hoc Reports
- “Under Going Revision” Notifications
- Stacked Changes Notifications
- Related documents/drawings
- Military Engineering Data Asset Locator System (MEDALS)
- Joint Engineering Data Management Information and Control Systems (JEDMICS)

DOCUMENT MANAGEMENT

The CMPRO Document Repository acts as a centralized “vault”, and tracks information about documents and the attached electronic files. Document trees can be constructed by entering in next-higher document information and document baselines can be created to track processes and procedures.

The level of control imposed on the document creation and revision process is determined by several business rules. At the highest level of control, a change control document is required in order to create or revise a document. This change control document must be routed and approved before a document action can be completed.

CMPRO provides some “out of the box” change control documents for document management. The primary form is the workflow-enabled **Document Change Notice (DOCCN)**. Used for controlling the creation and revision of documents in the Document Repository.

The newest feature of the document management module is the ability to create a document baseline. This feature allows you to create and track the hierarchical document tree’s that make up processes, procedures, or other baselines that are used for configuration tracking, by documents only.

Document Management Tracks:

- Document Number
- Revision
- Title
- Type
- Media
- Security
- Associated contract information
- Related documents
- Files attached

Features:

- Automatic baseline management capabilities for inter-related data
- Document baselines to track baselines composed solely of documents
- Configuration status accounting
- Supports workflow forms
- Advanced reporting options
- Stacked change notifications
- Document tree capabilities
- Check In/Check Out
- Comments with date and time stamp

The screenshot displays the CMPRO Document Management interface for a Document Change Notice (DOCCN). The interface is divided into several sections:

- Associated Baselines:** Located on the left sidebar, it lists various baselines such as Document, System, Product, and Additional baselines.
- Check out and Revision Status:** The main form area shows the current status of the document, including a dropdown menu set to "BEING REVISED" and a title field containing "TEST DOCUMENT FOR RWF".
- Attached Files:** A section below the main form, currently displaying "NO DATA FOUND".
- Remarks:** A text area at the bottom of the form for entering comments.

At the bottom of the interface, there is a table showing document records:

Document No	Rev	Title	Revision Status	Release Date
DOC-00008	A	TEST DOCUMENT FOR RWF	In-Work	

PRODUCT DEFINITION

When drawing and part data is correctly entered and maintained in CMPRO, three types of product definitions can be produced automatically: drawing trees, parts trees, and part bills of material. Part trees are particularly important in CMPRO because they provide the backbone for: product definition baselines, work orders (which are used to manage the building of end-items/assemblies), and other data items in CMPRO.

Product Definitions Feed:

- Drawing Trees
- Part Trees
- Part Bills of Material (BOMs)

DRAWING TREES

A drawing tree is a hierarchical breakdown of the drawings for a system starting at a particular drawing and working down. Drawing trees can be produced starting with an “end item” drawing, or from any assembly drawing in the middle of a product’s structure. When the application information for drawings is correctly entered and maintained, CMPRO will generate drawing trees on demand, in real time.

Indent Code	Drawing Number	Title	Model	Rev	CAGE
A	KARA-T101	KARA TRIBOT, MODEL 1		-	99999
B	KARA-T102	KARA TRIBOT, MAIN SYSTEM	KARA TRIBOT	-	99999
C	KARA-T103	KARA TRIBOT, TRI-ENGINE ASSEMBLY	KARA TRIBOT	-	99999
D	KARA-T104	KARA TRIBOT, ENGINE, RIGHT	KARA TRIBOT	K	99999
D	KARA-T105	KARA TRIBOT, ENGINE, CENTER	KARA TRIBOT	-	99999
C	KARA-T107	KARA TRIBOT, MOUNT ASSEMBLY	KARA TRIBOT	-	99999
C	KARA-T108	KARA TRIBOT, TEST BALL SET ASSEMBLY	KARA TRIBOT	-	99999
B	KARA-T109	KARA TRIBOT, FRONT LIFT SYSTEM	KARA TRIBOT	-	99999
C	KARA-T110	KARA TRIBOT, TOUCH SENSOR ASSEMBLY	KARA TRIBOT	-	99999
B	KARA-T111	KARA TRIBOT, FRONT CLAW SYSTEM	KARA TRIBOT	-	99999

PART TREES

A part tree is the hierarchical breakdown of the parts for a system starting at a particular part and working down. These are sometimes referred to as indentured part breakdowns (IPBs). Part trees can be produced starting with an “end item” part, or from any assembly part in the middle of a product’s structure. When the used-on information for parts is correctly entered and maintained, CMPRO will generate part trees on demand, in real time.

Indent Code	Part Number	Qty	Est	BOM Qty	Description	Child WO	Change Date	Release Status
A	SARA-T101-1	1	1	1	SARA TRIBOT, MAIN SYSTEM		04-FEB-2010	
B	SARA-T102-1	1	1	1	SARA TRIBOT, MAIN SYSTEM		04-FEB-2010	
C	L-53788	1	1	1	CPU BRICK		04-FEB-2010	
C	SARA-T103-1	1	1	1	SARA TRIBOT, TRI-ENGINE ASSEMBLY		04-FEB-2010	
D	SARA-T104-1	1	1	1	SARA TRIBOT, ENGINE, RIGHT		04-FEB-2010	
D	SARA-T105-1	1	1	1	SARA TRIBOT, ENGINE, CENTER		04-FEB-2010	
D	SARA-T106-1	1	1	1	SARA TRIBOT, ENGINE, LEFT		04-FEB-2010	
C	L-55805	1	2	2	WIRE HOOK-UP, 35CM/14INCH		04-FEB-2010	
B	SARA-T109-1	1	1	1	SARA TRIBOT, FRONT LIFT SYSTEM		04-FEB-2010	

PART BILLS OF MATERIAL

A part Bill of Material (BOM) is essentially a “shopping list” of the parts needed to build all or part of a system, starting at a particular part and working down. Part BOMs can be produced starting with an “end item” part, or from any assembly part in the middle of a product’s structure. When the used-on information for parts is correctly entered and maintained, CMPRO will generate part BOMs on demand, in real time.

Part Number	Qty	Description	Change Date	WBS / CLIN
KARA-T101-1	1	KARA TRIBOT, MODEL 1	14-APR-2009	
KARA-T102-1	1	KARA TRIBOT, MAIN SYSTEM	14-APR-2009	
KARA-T109-1	1	KARA TRIBOT, FRONT LIFT SYSTEM	14-APR-2009	
KARA-T111-1	1	KARA TRIBOT, FRONT CLAW SYSTEM	14-APR-2009	
KARA-T114-1	1	KARA TRIBOT, SOUND SENSOR SYSTEM	14-APR-2009	
KARA-T116-1	1	KARA TRIBOT, ELECTRIC LIGHT SENSOR SYSTEM	14-APR-2009	
KARA-T117-1	1	KARA TRIBOT, ULTRASOUND SENSOR SYSTEM	14-APR-2009	
L-55976	2	BALLOON TIRE	14-APR-2009	
KARA-T103-1	1	KARA TRIBOT, TRI-ENGINE ASSEMBLY	14-APR-2009	
L-53788	1	CPU BRICK	14-APR-2009	
L-55805	4	WIRE HOOK-UP, 35CM/14INCH	14-APR-2009	
KARA-T108-1	1	KARA TRIBOT, TEST BALL SET ASSEMBLY	14-APR-2009	
KARA-T107-1	1	KARA TRIBOT, MOUNT ASSEMBLY	14-APR-2009	
L-55806	2	WIRE HOOK-UP, 50CM/20INCH	14-APR-2009	

AS-BUILT TRACKING

When multiple quantities of a system have been built and deployed, it is often helpful to have a method for tracking where those systems are and what their configuration was when they were built (hence the “as-built” name for this module), as well as how their configuration may change over time. The As-Built module in CMPRO provides this functionality and works best when fed with product definitions produced from part data in CMPRO.

The As-Built module tracks each system by platform and location (including a granular physical location). As a system is moved, its location history is tracked. If assemblies in a system are replaced, this can also be tracked (with the movement of parts being tied to Inventory Management if need be). Serial numbers for end-items and their assemblies can also be tracked, including by UID.

The tracking of As-Built baselines is also supported. These baselines represent the manufacturer part numbers actually used to build a finished system (which may differ from the design part numbers for a number of reasons).

As-Built Baseline:

- *As-built configuration*
- *Location history*
- *Serial number and UID tracking*
- *Back-fill via spreadsheet*
- *Track current physical locations*

As-Built Baselines					
Home • Menu (Quick) • Help • Notes • Good Morning, Emma Roach • Logout • 39:19 <input type="text" value="Quick Finder"/>					
Quick Links: IT Network Search • IT Node Action Search • IT Node Search • IT Task Search					
Return to Baseline Search • Create As-Built Baseline • Build Baseline from PDM • Create In-Work Copy • To Add Record See Bottom of Screen • Export to PDF, XLS, CSV, XML					
Results for As-Built Baseline - AAON THREE LEVELS DEEP					
1 2 3 4 5 6 7 8 9 10 • Next • Last • <i>Displaying records 1 to 20 of 271</i>					
<input type="button" value="Save"/> *** REMINDER *** For these changes to take affect you must click the "Save" button before leaving this page					
Select All • Clear All					
Del		Part No	Part Nomen	Next Assy	Qty
<input type="checkbox"/>		05008A0000-01	TEAM PORTABLE COLLECTION SYSTE		1 <input type="text"/>
<input type="checkbox"/>		05008A4000-01	OPERATOR INTERFACE UNIT (OIU),	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008A4000-01	OPERATOR INTERFACE UNIT (OIU),	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008A4000-01	OPERATOR INTERFACE UNIT (OIU),	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008A4000-01	OPERATOR INTERFACE UNIT (OIU),	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E0740-01	TOOL KIT	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E0810-01	DF ANTENNA ASSY	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E0820-01	OMNI ANTENNA ASSEMBLY	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E0830-01	HF ANTENNA ASSEMBLY	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E1602-01	COMPUTER, LAPTOP	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E1602-01	COMPUTER, LAPTOP	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E1602-01	COMPUTER, LAPTOP	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>
<input type="checkbox"/>		05008E3251-01	STREAMER (12 EA)	05008A0000-01	1 <input type="text"/>

INVENTORY AND PRODUCTION MANAGEMENT

Inventory and Production management is a unique attribute that CMPRO offers in addition to the “standard” product lifecycle management modules. By incorporating inventory into the engineering and production processes cost savings could be realized and delays foreseen. This module allows for inventory management across multiple warehouses in multiple geographic locations, provides door-to-door management for all items tracked and integrates with as-built and work orders.

The CMPRO Inventory and Production Management module interfaces seamlessly with the Drawing Repository so that inventory control personnel can view drawings of a part or assembly, as well as any other associated electronic documentation. It also provides “parts where used” functionality. Parts can be tracked by lot or other storage locations and searched out using any part information (number or description do not have to be known). Part testing and cleaning requirements can be tracked. CMPRO maintains a vendor database of all products and services provided, with current prices, lead times and local distributor information.

Applicability Tracking at Part Number Level:

- Part Number
- Next Higher Assembly
- Model Used On
- Serial Number Effectively Range
- Quantity Final Assembly
- Quantity Next Higher Assembly
- Drawing Sheet
- Configuration Item Number
- PEI Number and Rev fields

Menu options to accomplish electronic and real-time inventory transactions:

- Inventory Issues
- Inventory Gains
- Inventory Returns
- Inventory Disposals
- Inventory Transfers
- Inventory Manual Order
- Change Inventory Locations
- Request Spot Inventory
- Freeze Part
- Unfreeze part
- Issue Excess Equipment
- Pictures of Inventoried Items

Inventory & Production Management Highlights:

- *Total Asset Visibility*
- *Requisitions – On Order*
- *Serialized and UID Part Tracking*
- *As-Built and Work Order Integration*
- *Production Support*
- *Electronic Requisitions (workflow-enabled)*
- *Sponsor Owned Material Tracking and Reporting*
- *RFID Capable*
- *Barcode Scanner Label Printing and Receiving*
- *Fleet Support*
- *Deployment and CASREP Support*
- *Asset Tracking*
- *Parts Where Used Functionality*
- *Vendor Database Capability*
- *Warranty Information Tracking for Parts*
- *Provides Metrics and Response Time Tracking for Inventory Transactions*

PROJECT MANAGEMENT

CMPRO provides simple project management (PM) capabilities that project managers can use to track activities at the task/sub-task level of granularity. This tool incorporates a collaborative work environment so team members can communicate within the project. Reports are available for viewing:

- Progress
- Current status
- Scheduled completion dates
- Other metrics associated with a project

One of the benefits of using CMPRO for project management is the integration of workflow into the PM process. In CMPRO, Action Items for a project are generated using a workflow-enabled form. That means that you can route and track action items just like any other workflow form in CMPRO. Action Items have an audit trail and can be related to other items that they affect.

The project management feature in conjunction with a workflow process allows management to:

- Track budget related items including labor costs, material, and travel
- Generate statistics for a single or all of the project's subtask and action item status
- Export project and subtasks to MS Project
- Duplicate a project's task and subtasks for speeding up the project creation process
- View the project tree and package status

Project Tracking Features:

- Simple structure (project, task, subtask)
- Workflow enabled Action Items
- Integrates across other modules in CMPRO
- Production Outlook & Summary
- ECP/ECR Action Item Reminders

The screenshot displays the CMPRO Project Management interface. On the left, a sidebar contains 'System Comments Log (0)', 'Additional Data' (with 'Annotations (2)' and 'Discussions (2)' circled), 'Additional Options' (with 'Send E-mail Message' and 'Show / Hide Table.FieldName'), and 'Admin Info / Options' (with '100002176017'). The main area is titled 'Active' and includes a 'Status' dropdown set to 'WORKING', 'Start Date' (25-JUL-2005), 'Actual End Date', and 'Remarks'. Below this is the 'Tasks' section, which contains a table with columns: Task No, Status, Title, Due Date, Contract No, Charge No, and Active. The table lists several tasks, with '005' and 'GTEST-TASK01' circled. A callout 'View and Manage Tasks' points to the table. Below the tasks is the 'POC(s)' section, which includes a table with columns: Full Name, Phone, E-mail, and Remarks. It lists 'KRISTIN MCKAY' and 'NOEL WITT'. A callout 'Points of Contact' points to this table. The 'Permissions' section includes 'Owner' (GORDON ADMIN), 'Proprietary Group' (NONE), 'Select User(s) to Add', and 'Team Members'. The 'Budget Info' section at the bottom includes a table with columns: Total Budget, Total Cost, and Balance. The values are 30, 15, and 15 respectively. A callout 'Budget Information' points to this table. A callout 'Collaborate' points to the 'Additional Data' section.

Task No	Status	Title	Due Date	Contract No	Charge No	Active
TASKS	WORKING	ACTIONS REQUIRED FOR				Yes
004-FOR-AARON	REJECTED	AARONS TASK FOR REQUIREMENTS TESTING	01-MAR-2010	987654321		Yes
005	WORKING	TITLE NOT PROVIDED				Yes
DOC-002	COMPLETE	CREATE ALL DOCUMENTS				Yes
DWG-001	COMPLETE	CREATE ALL DRAWINGS	28-SEP-2009			Yes
GORDONTEST1234	REJECTED	GORDON TEST TASK GORDON TEST TASK	15-APR-2009	12-340555		Yes
GTEST-TASK01	WORKING	GTEST				Yes

Full Name	Phone	E-mail	Remarks
KRISTIN MCKAY			
NOEL WITT		nwitt@psasys.com	test

Total Budget	Total Cost	Balance
30	15	15

CONTRACT TRACKING

The Contract Tracking Module allows users to track information about a contract and associated contract items. Contract items include:

- Delivery orders
- Modifications
- Packages
- Contract Data Requirements Lists (CDRL)
- Supplier Data Requirements Lists (SDRL)
- Scheduled (and actual) delivery products.

Using this module, users can status and report on contract CDRLs deliveries that are coming due, are due, overdue, and those that have been completed. CMPRO has the DD1423 form in an accepted printable format.

Track Information About:

- *Contracts*
- *Associated Contract Items*
- *Contract Data Requirements Lists (CDRL)*
- *Supplier Data Requirements Lists (SDRL)*
- *Associated Schedule and Delivery Records*
- *Document Deliveries*

REPORTS MODULE

Reporting status and costs to management is an important part to any business. In CMPRO reporting on the important factors in your business is part of the program. CMPRO provides two different types of reporting functions: Predefined Reports, and Ad-Hoc Reports.

Predefined Reports:

- Drawing Management Reports
- Document Management Reports
- Configuration Management Reports
- ECP Reports
- RFW/RFD Reports
- FCA/PCA Audit Reports
- Parts Management Reports
- Alterations and Field Change Reports
- Software Management Reports
- Inventory Management Reports
- Project management Reports
- Action Item Reports
- Workflow Document Reports
- Transaction Audit Reports
- Route Information Reports

Ad-Hoc Reports:

- Ability to create reports for any of the CMPRO Modules (limited by what tables and columns the user has access to)
- Advanced reporting options with 3 distinct parameter settings with four (4) SQL parameters for each
- Saved Ad-Hoc Reports remain in the User's Ad-Hoc Reports (no need to recreate each time)
- Make Ad-Hoc Reports "Public" so other CMPRO users have access

WORKFLOW MANAGEMENT

Getting the right people involved in the workflow process and having a collaborative environment for them to work in are important aspects of managing your organization's documents and processes. CMPRO helps this process by establishing predefined criteria for your workflow and sending the document through the right channels. The document history illuminates possible bottlenecks in the processes and shows who the most productive workers are.

CMPRO provides the flexibility to tailor the tool to mirror current processes and procedures. Customer designed workflow forms and processes are easily added to the system. Proprietary user groups and data firewall capabilities are used to limit access between programs and other types of sensitive data.

Workflow Document Features:

1. **Flexible Automatic Routing** – Assign a route for the review/approval process, individuals in the process electronically sign off, the workflow document is forwarded to the next person and notified by email.
2. **Workflow Document History** – Track everything that happens to a workflow document in the order it happens.
3. **Annotations** (“sticky notes”) - Provide a simple way to identify issues associated with a workflow document.
4. **CMPRO Messages** – Enable communication between CMPRO users for reviewing workflow documents and providing a permanent record of document review activities.
5. **Discussions** - Provide a way for users to “talk” about an item in CMPRO and then track everything that is said about that item in the context of a specific topic.
6. **Polls** - Gather opinions from users in CMPRO in connection with a workflow document.
7. **File Attachments and Associated Documents** – Associate supplemental files with an item that can be viewed by users with the file's native program.
8. **Pooled Documents** – Allow user groups to team-up when working on certain types of documents by giving them permission to sign-off and take ownership of the document from the pool and return it when they are finished.

Highlighted Electronic Workflow Forms Available:

- Advanced Change Study Notice
- Engineering Change Proposal
- Notice Of Revision
- Request for Engineering Change
- Engineering Order
- Request For Waiver
- Request for Deviation
- Drawing Requirement
- Specification Change Notice
- Functional Configuration Audit
- Physical Configuration Audit
- Engineering Investigation Form
- Issue Report
- Implementation Directive

Enterprise Change Forms Meeting CMII Model:

- Enterprise Problem Report (E-PR) – documents a problem has been reported
- Enterprise Software Problem Report (E-SPR) - documents a problem that has been reported that is software specific
- Enterprise Change Request (E-CR) - gathers data for a proposed change, routes it for review, comments, etc. with the ultimate goal of submitting the change to a Change Review Board (CRB) for approval (impact matrix included)
- Enterprise Change Notice (E-CN) – provides the authority to schedule, revise and release documents.

RELEASED SOFTWARE MANAGEMENT

The CMPRO Software Management Module provides a solution for *released* software management and provides functionality similar to the drawing and document repositories. Basic revision control is provided, as well as license and location tracking, and media type and distribution tracking. Managing released software with CMPRO allows businesses to track the software part number, version, folder, status, release date and deploy folder of the software that is critical to your business without the concern of misplaced media.

IT ASSET MANAGEMENT

The IT Asset Management Module provides processes to track the configuration of IT network nodes and assets. This module also contains methods to create and track actions to be performed against the network nodes (such as IAVAs), as well as facilitating notifications and status tracking. As part of this module, a process to import data from network discovery tools and compare it to node configurations is also provided.

The screenshot displays the 'Network Detail' page in a web browser. The interface includes a navigation menu on the left with sections like 'Options', 'Additional Data', 'Additional Options', and 'Admin Info / Options'. The main content area is divided into several sections:

- Network Details:** Fields for Network ID (JC72NETWORK), Disposition Status (OPEN), Network Name (JC T2 NETWORK), Network Type (RTD&E LAB), Classification (- EMPTY -), Operational Status (- EMPTY -), Organization (ORGANIZATION INFO HERE), Category (CATEGORY HERE), ATO Date (25-SEP-2009), and Last Scanned Date (25-SEP-2009).
- Location Details:** Fields for Location (LOCATION INFO HERE), UIC, Site Name, Reg End, To Include Bldg, and Address (Line 1-4).
- POC(s):** A table listing two records with columns for Full Name, Phone, E-mail, and Remarks.
- Subnet(s):** A section for subnet management.
- Node(s):** A table listing five records with columns for Subnet Name, Title, and Status.
- Other Info:** Fields for Active status, Folder (IPSA TEST), Proprietary Group (NONE), Last Update (25-SEP-2009 1:17:10 PM), and Last Updated By (JOHN COPE).

Benefits of Released Software Management:

- Managing the Software Version Repository (“vault”)
- Knowing the baseline impacts
- Knowing what versions are published and to what hardware
- Managing Patch Download & License Tracking

IT Asset Management Module Tracks:

- IT Network Information:
 - Network Number
 - Disposition Status
 - Location
 - ATO date
 - Last Scan date
 - Point of Contact
 - Nodes
- IT Node Details:
 - System
 - DADMS ID
 - Serial Number
 - Tracking Number
 - Hardware
 - Software
 - Network & OS
 - Location
 - UID
- IT Task Details:
 - Disposition Status
 - Start Date
 - Due Date
 - Impact
 - Status Summary
 - Owner
 - Verification Authority
 - and Complete Date
 - Node Action Status
 - Things to Accomplish

USERS

CMPRO is user-friendly, which contributes greatly to the organizational support that is so critical when implementing a feature-rich product lifecycle management solution. On-line help is also provided, including interactive tutorials, to aid with ease-of-use. CMPRO's consistent graphical user interface (GUI) reduces training requirements by providing uniform access to common features and capabilities throughout the tool. Common features shared across modules further reduce training requirements. For example, each workflow-enabled electronic form in CMPRO shares the following capabilities:

- Annotations, discussions, polling, CMPRO Messages for collaboration and feedback.
- The ability to be associated (linked) with other forms and data repositories in CMPRO.
- File attachments.
- Continuation sheets.
- E-mail notifications (both manual and automatic based on events).
- Workflow actions (submit, reassign, return, and cancel).

INTEGRATION

CMPRO is designed to interface with other systems such as Product Data Management (PDM), Enterprise Resource Planning (ERP) and Material Requirements Planning (MRP) as required by your organization, with all CMPRO development handled by PSA. CMPRO's flexible architecture facilitates the integration process, helping manage all your enterprise data more effectively.

ADMINISTRATION

The system administrator will manage the capabilities of the users by controlling access based on roles, functions, groups and workflow routes. Additionally, users can be tracked and managed through login history and metrics, with Workflow Metric and Analysis capabilities of processes and release times. Timely resolutions for any conflicts in the systems are possible through automatically generated error messages sent via email to the vendor and system administrator. There are flexible menu options and Ad-hoc reporting for tailoring CMPRO to your organizations needs. The system administrator functionality allows CMPRO to meet standards imposed by your processes.

TECHNICAL OVERVIEW

Technical Architecture Requirements:

- An Oracle Database Server (Standard or Enterprise editions depending on your organization's needs; consult with Oracle for additional details)
- An Adobe ColdFusion Enterprise Edition server
- A web server (PSA recommends Apache)
- One or more FTP file servers for electronic files associated with CMPRO
- A solid network infrastructure appropriate to the scope of your CMPRO solution. **The importance of this particular item cannot be overstated.** Customers often times focus most of their attention on server-driven web applications on the servers without dually considering network capabilities and configuration. Be sure to give networking details as much if not more time than servers when planning your CMPRO implementation.
- A web browser (for the client); no plug-ins required (zero client footprint)

CMPRO LICENSING

CMPRO itself is licensed by concurrent seat per server, with a base server configuration coming with 5 Concurrent User Licenses (CULs). CMPRO is sold separately from its other required server components, which must be acquired and maintained separately from CMPRO. PSA does provide hosted solutions, in case you don't want to deal with all the technical details, contact us for additional information.

CUSTOMIZATION AND SCALABILITY

CMPRO is a Commercial off the shelf (COTS) software solution developed by PSA with an architecture that allows for rapid customization around its core CMPRO "engine" to meet the needs of each client's unique business process environment, with all CMPRO customization handled exclusively by PSA. Contact PSA for your customization needs.

SUPPORT:

- Telephone / e-mail support with CMPRO experts 24 hours a day
- Maintenance (all updates) included in annual support
- Training classes are available (come to us or we can come to you)
- Implementation support is available for detailed assistance with getting CMPRO to work optimally in the context of your processes and data (including on-site visits)

ABOUT PROFESSIONAL SYSTEMS ASSOCIATES, INC.

Professional Systems Associates, Inc. (PSA) is a small, veteran-owned business, located in Panama City, Florida. Over the last 20 years PSA has built a solid reputation of meeting customer requirements, “on time and on budget” for configuration management and product lifecycle management solutions using CMPRO. In 2006 the company was audited by the Small Business Administration on behalf of the General Services Administration and issued a Certificate of Competency and awarded its second, five year, Schedule 70, IT contract. PSA’s growth and sustainability is attributed to its customer-focused approach to service and support.

PSA makes CMPRO, a cost-competitive product lifecycle management software solution designed for the aerospace and defense industries. With CMPRO and the right internal management processes PSA can help companies improve the overall efficiency and productivity of their designs and manufacturing by facilitating communication throughout the supply chain, optimizing workflow, leveraging information across the enterprise, and enabling collaborative product commerce. CMPRO helps companies accomplish these goals with integrated modules that provide end-to-end automation and a centralized repository of data (product, status, files, etc). Popular CMPRO modules include: document and drawing management, inventory management, workflow process automation, enterprise change forms, project management, and contract tracking. These modules coupled with your company’s effective business practices allow for improved overall efficiency and communication throughout your company and with your suppliers.

Professional Systems Associates, Inc. will work with your organization to understand your unique approach to business, the people you have, and the processes you use. This partnership approach to implementing and supporting CMPRO allows for successful product lifecycle implementation. Successful product lifecycle management using CMPRO results in saving time and avoiding mistakes by entering data once, and streamlining engineering change and improving overall organizational efficiency by having the most up-to-date data available within a couple of clicks. PSA continuously works and grows with its customers in order to meet or exceed future demands and increase their company’s value.

More important than any of the functionality that CMPRO provides to help you manage your organization’s data and processes is PSA’s partnership approach to helping you achieve success. Software is great, but it does not amount to much of anything without good people. People make it work.

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