

Windchill® Aerospace & Defense Module

Providing Advanced Configuration & Deliverables Management for Program Success

Controlling the Data That Drives Your Programs

With its rigorous product traceability demands and government contracting requirements, product development in the A&D industry is truly unique—and extremely complex. That's why unique capabilities are required in your PLM (product lifecycle management) system to execute programs efficiently during their full lifecycle and succeed within the complexities of the A&D marketplace. If your organization wants to be empowered with the ability to realize the next level of efficiency gains by streamlining the product development process and infrastructure, PTC offers a proven, affordable, and quick-to-value solution with its Windchill Aerospace & Defense Module.

Why PTC Leads the PLM Marketplace

For the past 20 years, PTC has been helping the world's top A&D companies and largest government program offices solve their toughest product development problems. Since our inception, we've been developing unique solutions to help A&D organizations overcome the challenges of complexity and traceability, program information management, configuration management, and distributed product development.

Affordable Solution Bundle Includes Windchill® PDMLink™

The Windchill Aerospace and Defense Module combines our industry expertise with the world-class product data management capabilities of Windchill PDMLink. This powerful combination meets the specific needs of the A&D industry by delivering advanced, standards-based configuration management and deliverables management throughout the A&D program lifecycle.

Best of all, this module offers an 'out-of-the-box' implementation, which means a quick, streamlined deployment completed in just 10 business days.

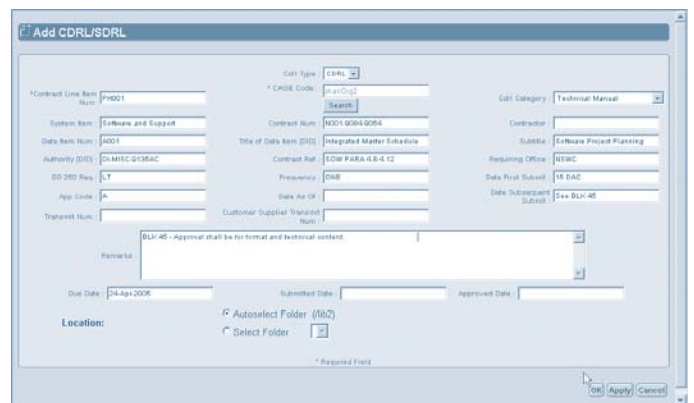
In a matter of weeks, you can achieve a customization-free PLM implementation capable of providing industry-specific capabilities for low cost of ownership. It's the smart way for A&D companies and government program offices to achieve world-class PLM capabilities.

Key Benefits

- Reduces time and effort in meeting contract requirements for defense programs
- Improves quality of execution by managing program information in the context of product lifecycle management
- Creates new opportunities for services revenues through precise management of as-built/as-maintained product configurations



Windchill solutions are used pervasively throughout the A&D industry (Clockwise from top left: General Atomics Predator, Lockheed Martin Atlas V, General Dynamics Stryker vehicle, and DCN Sawari II frigate).



The screenshot shows a software window titled "Add CDRL/SDRL". It contains a form with various fields for contract and data management. Key fields include:

- Contract Line Item: P001
- System Item: Software and Support
- Data Base Num: ADD1
- Authority (DTC): DAMTEC-G43RAC
- DD Form Rev: 1
- App Code: A
- Contract Num: N201.0004.0004
- Title of Data Base (DTC): Integrated Master Schedule
- Contract Ref: F00P FARA A&A 4.12
- Presidential: ONE
- Date As Of: [empty]
- Customer Supplier Transfer: [empty]
- Category: Technical Manual
- Contractor: [empty]
- Sub-Category: Software Product Planning
- Requesting Office: ITWC
- Date First Submitt: 18 DEC
- Date Subsequent Submitt: See BLC-45
- Partner ID: BLC-45 - Approval shall be for format and technical content
- Due Date: 24-Apr-2006
- Submitted Date: [empty]
- Approved Date: [empty]
- Location: [empty]
- Autoselect Folder: (lib2)
- Select Folder: [empty]

Buttons for "OK", "Apply", and "Cancel" are visible at the bottom right.

Key data items can be linked to program deliverables packages and routed for reviews and approvals using automated workflows and lifecycles.

- Simplifies the IT infrastructure required to support program requirements
- Reduces risk of delays in program milestones, deliverables and potential payment penalties
- Facilitates compliance with configuration management standards ANSI/EIA-649, MIL-HDBK-61A and CMII

Features and Specifications

Contract Deliverables Management

- Create and manage CDRLs¹ and SDRLs² compliant with the DoD 1423-1 standard
- Create documents as CDRL deliverables and attach to CDRL package
- Achieve an out-of-the-box CDRL and SDRL management workflow process
- Define CLINs³ and DIDs⁴ and associate to CDRLs
- Manage a contract repository
- Create a customer-specific CDRL management process and lifecycle states
- Generate CDRL status reports and monitor the health of a contract

Parts Management

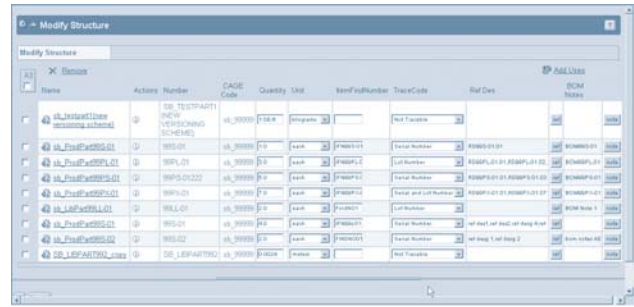
- View all serial numbered parts that are created
- Assign different Design and Manufacturing CAGE codes to a part
- Create product configurations (CPL - Configured Parts List)
- View available configurations for a part
- Set traceability of a part within the context of an assembly
- Set part traceability to Serial Number and/or Lot/Date (includes mixed traceability)
- Track and search on Job Authorization Numbers, Contract Numbers, or Contract Phase for Product Designs

Enhanced BOM Editing

- Edit product structure in an intuitive interface
- Set Find Numbers on product structure members
- Set BOM Note annotations on product structure members
- Assign reference designators on product structure members

As-Built/As-Maintained Configuration Management

- Allocate serialized parts to an End Item
- Select replacement items for use in configured assemblies
- Set Incorporation and Planned Incorporation dates for child serial numbered parts
- Set Manufacture Cage Code for configured assemblies



Complex product structures can be created and managed throughout the complete program lifecycle with flexibly configured traceability features.

- Create and manage Lots and run 'where-used' reports
- Create As-Built Lists (ABL)
- Generate a reconciliation report (showing the difference between the CPL and ABL)
- Apply a new configuration (CPL) to an existing serial numbered part
- Re-use traceable items that have been released from other configured assemblies
- Generate BOM Compare reports of different versions of serial numbered parts

Language Support

- English

To learn more about PTC in A&D, please visit:
www.ptc.com/solutions/industry/aerospace_defense/index.htm

- 1 CDRL: Contract Data Requirements List
- 2 SDRL: Subcontract Data Requirements List
- 3 CLIN: Contract Line Item Number
- 4 DID: Data Item Description

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