



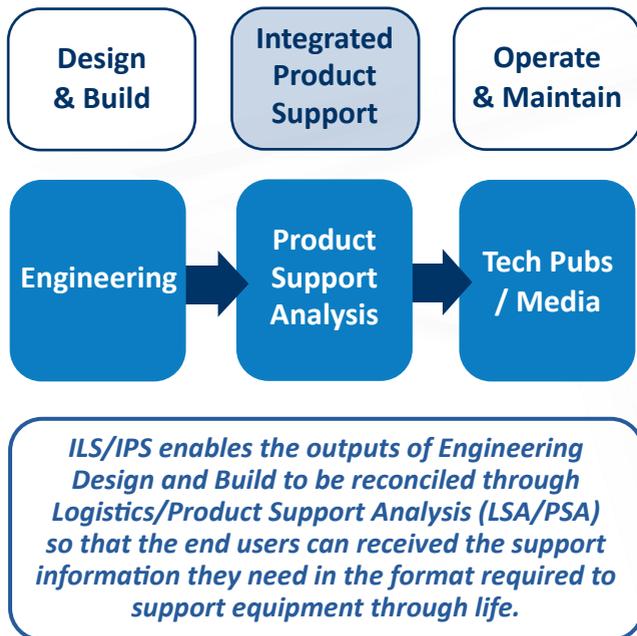
OmegaPS Software & Services for Integrated Logistics/Product Support (ILS/IPS)



Integrated Logistics/Product Support (ILS/IPS)

A Foundation for Operating Excellence

Integrated Logistic Support (ILS) and its more recent transformation into Integrated Product Support (IPS) are a logistics engineering-centred methodologies that incorporates logistic/product support analysis (LSA/PSA) into equipment design and production, to create a **support solution** that **improves** equipment reliability, **maximizes** equipment availability, and **minimizes** life cycle costs. ILS/IPS is also used throughout the equipment system life cycle to ensure the support solution remains optimal, and to ensure changes – operational, support, or engineering – are fully considered and appropriately incorporated into the design of the equipment and its support.



The OmegaPS Suite is a multi-sector ILS/IPS Software package, designed by logistics engineering specialists for logistics engineering specialists. It is used world-wide, and is a complete system for the generation and capture of Logistics Product Data. As well, the suite enables ILS practitioners to optimize equipment support solutions by understanding life cycle cost and sustainment resources needed to meet equipment operational and support demands.

OmegaPS Suite

The OmegaPS Suite is an independent Logistics Product Data (LPD) management platform that comprises two world-class products: OmegaPS and Analyzer.



OmegaPS

OmegaPS is an innovative Logistics Product Data (LPD) application that uses one consolidated database for structuring and managing equipment configurations and supportability information. This provides a baseline for defining, developing, and producing an optimized support solution that can be used and evolved for the life of the equipment. This brochure describes the capabilities of OmegaPS.



Analyzer

Analyzer is an equipment life cycle analysis tool that optimizes support solutions by modelling the distribution and use profile of the equipment fleet supported by their associated logistics support organization. This support and use model helps clients understand life cycle cost drivers and how to improve the overall equipment support chain. OmegaPS and Analyzer are integrated such that OmegaPS can send equipment baseline data sets to Analyzer, speeding up the creation of accurate representative models. For more information regarding Analyzer you can visit our website or read the Analyzer brochure.

A Structured and Systematic Approach

By taking a structured and systematic approach to managing LPD, an equipment design can be influenced early in the design and development cycle to lower both production and support costs. Additionally, an equipment's support solution can be continuously assessed and re-optimized over the life cycle to maximize equipment availability while minimizing operating and support costs.

OmegaPS Versatility

OmegaPS provides a cohesive system for the generation, capture and enterprise use of LPD data. It allows engineers to re-use the approved data for production of technical documentation, material provisioning activities, in-service performance management and assessment of recommended changes to the equipment and its support.

OmegaPS conforms to former, current, and evolving data standards including SAE-GEIASTD-0007, MILSTD-1388-2B, DEF STAN 00-60, DEFAUST 5692, and ASD S3000L. Other material management and reliability engineering standards are also supported including ASD S2000M, Canadian D-01-100-214/SF-000, or ATA MSG-3, among others.

A Secure Product

OmegaPS is designed and developed using ORACLE® database, forms and report software, thus ensuring longevity with platform and operating system independence. It can operate as a Standalone, Single-Server and Distributed architecture environment, and is wholly web-based and network compatible.

There are multiple levels of security to ensure that only authorized personnel have access to data in OmegaPS. Using ORACLE's® built-in database authentication, user roles and authorizations are tightly controlled. In addition, OmegaPS has defined User and Team controls to enable the definition of the correct access for completing tasks.

Time Saving Features with Logical Work Flows

OmegaPS has many time-saving features and by using the workflow navigation system, which is enhanced with internal 'navigator' jumps, engineers save hours of laborious data creation and manipulation tasks. Users are able to work in a logical manner addressing the various disciplines such as structures, maintenance task analysis, reliability and failure analysis as well as data uploads, transfers and reporting.

OmegaPS Functional Capabilities

ILS/IPS processes fundamentally addresses the questions:

- What is it?
- How does it break?
- How to fix it?
- How to support it?

OmegaPS functionality is developed around these questions, and through a flexible modular construction, an OmegaPS solution is configurable to meet client requirements. To begin this analysis, a data standard must be selected.

OmegaPS Data Standards

An OmegaPS strength is that there are multiple ILS/IPS data standards that can be used to manage your LPD. The data standard is an "operating layer" that sits on the core OmegaPS foundation. There are four standards to choose from for general equipment management and Defence Sector applications, plus an additional variant designed for the Rail Sector. Applications include:

- SAE-GEIASTD-0007
- MILSTD-1388-2B
- DEF STAN 00-60 (multiple Issues)
- DEFAUST 5692 (multiple issues)

Material Parts Library and Structure Manager

"Out of the Box" OmegaPS provides dynamic functionality to help consolidate your logistics product data, including parts data, structure requirements, technical documentation, and embedded drawings to name some.

Roles and authorizations are completely tailorable to meet client requirements, and can be controlled to down to an individual data element if necessary.

Material Parts Library

Material is the fundamental building block for all equipment. OmegaPS enables the "universe" of material used by a client organization to be stored in one consolidated "Material Parts Library." As such, if an item has a change to its name or part number, if applicable, it changes everywhere – no major re-work required across tables and projects.



Structure Manager

With material identified, engineering and logistic managers can identify, design and create configurations, to which material information is assigned, including spare parts, test equipment, special tools, and so on. With the “universe” of material stored in OmegaPS, equipment projects can simultaneously search to look for common part usage within enterprise-wide system configurations.

Structure Manager has additional attributes that enables the ease of building complex equipment breakdown structures for equipment, both functional and physical. Also, quick creation of new structures, and the capability to easily re-use structures, improves analysis efficiency and effectiveness, and reduces data errors.

Subject to the client preferences, through the intuitive GUI, invalid data structures are not allowed to be placed in equipment projects. This ensures that correct material Parent/Child relationships within and across projects are maintained.

Digital data can be embedded and attached to database elements so engineers can refer to relevant illustrations, videos, or documents while conducting LSA.

Manage all equipment configurations for your operations/customers.

Manage parts, part substitutes, and obsolescence data in one place.

Provisioning

OmegaPS provides necessary provisioning data information fields for each data standard. In addition, for some defence sector and industry requirements, there are additional datasets that must be reconciled as part of the Logistics Product Data. OmegaPS provides several tailored modules to support this activity, The Canadian Provisioning Module (commercial variant), and ASD **S2000M Module** are examples that are used for both commercial and defence sector applications. Data exports are produced in either output reports or ad-hoc exports that are delivered to end users as necessary.

AR&M Analyses

Availability, Reliability and Maintainability data are inputs into logistic support analysis processes, particularly for developing maintenance tasks, and for determining supply chain logistics and material sparing requirements. To ensure its proper integration within Logistics Product Data, OmegaPS appropriately relates this data to the equipment’s material. OmegaPS also has functionality and specific modules to capture **Failure Modes and Effects/Criticality Analysis (FMECA)** and **Reliability Centered Maintenance (RCM)** data. RCM takes the information from the FMECA and provides the crucial assessment to determine preventive and corrective maintenance task requirements. OmegaPS comes available with standard RCM logics, such as S4000P, AMCP-750-2, and MSG 3, but as part of RCM Editor, OmegaPS is configurable to any logic model that users may wish to apply.

Logical grouping of Data Capture Modules for RAM, FMECA, RCM & MTA (Maintenance Task Analysis) all linking to the resources needed to undertake the maintenance required to correct or prevent failures. This includes, Spares, Personnel, Tools and Support Equipment and Facilities.

Maintenance Task Analysis

Maintenance Task Analysis is used to either incorporate maintenance inputs from AR&M, or it can be used to directly write maintenance tasks. The task library can be grouped into schedulable job sets, with common tasks efficiently reused.

Standard Reports and Ad Hoc Query

OmegaPS provides many standard LPD reports associated with each Data standard. These can be either PDF or RTF format as required. In addition, OmegaPS offers a powerful **Data Query Module** that enables the interrogation of the OmegaPS data tables to provide ad-hoc report specific to a customer’s needs.

Other Functions/Utilities

Through a Change Management module, OmegaPS can equipment data sets under “change control.” Once selected, changes are grouped by an engineering change order, and then every change is tracked and documented, recording who has made the change. Often used in conjunction with Change Management is the **Commenting System module**, which provides a means for users to include information regarding the files, and Impact Analysis, which provides an assessment of data changes that will be made to the database from uploading larger change files into the database.

- **Change Management** creates and manages baselining of projects to ensure any future changes are tracked for audit -who changed what & when.

Our Commitment

Global Solutions – Tailored to Your Business

Pennant’s software services teams work closely with clients to provide services and software solutions to meet their needs. We have a dedicated team of software developers and ILS/IPS consultants who are focused on providing the best supportability software and support in the industry, backed up by industry knowledge, skills, and experience.

Our clients include national defense departments and their suppliers of major capital equipment, as well as other industry ILS/IPS teams. The Pennant OmegaPS Suite of supportability software is designed to support several recognized national and international

standards. Pennant is dedicated to working with our customers to develop unique and tailored solutions to meet specific customer requirements.

Customer Service

Added to all this is Pennant’s unparalleled customer services to ensure you are never struggling to complete data deliveries to your customer.

Over time many of our customers have recognized the business benefits of bridging engineering (design & development) and technical documentation via a robust LSA to S1000D software tool as evidenced by the schematic below.

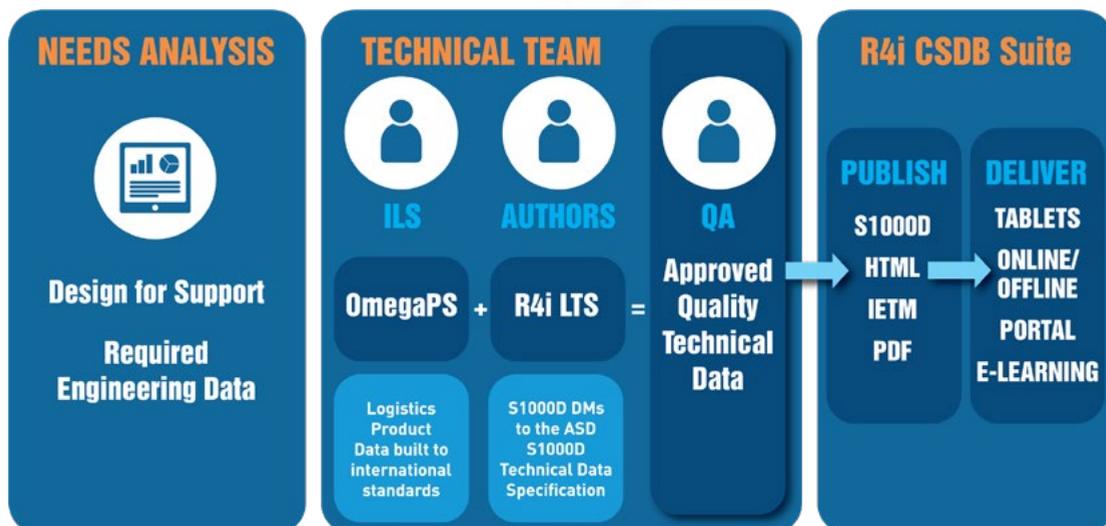
Our Current Clients

Customers such as Canadian Department of National Defence, Australian Defence Organisation, Boeing, Rheinmetall, Fleetway, IMP, & Stadler to name a few that have integrated OmegaPS Suite tools into their business processes to deliver more accurate cost effective support solutions for complex capital equipments.

ILS/IPS Training

ILS/IPS and OmegaPS Suite Integrated Training

Pennant provides thorough training for both OmegaPS and Analyzer, on-site or at our local offices, and increasingly over the internet. To further our customers’ knowledge of our products and enhance our knowledge of our customers’ needs, we sponsor periodic no-cost User Group Meetings to exchange information.



For more information and to learn more about the Omega Product Suite, visit us at www.Pennant-IPS.com or email us at sales@pennant-ips.com to schedule a demonstration.