

# Delivering System Readiness. Reducing Life Cycle Cost.

## INTEGRATED PRODUCT SUPPORT (IPS)

At W R Systems, Ltd. (WR), our IPS Center of Excellence (ICoE) consolidates our organizational expertise to deliver product support from design through sustainment and end of life, providing maximum availability at minimum cost.

We are recognized experts in the relevant policies, regulations, and directives related to the 12 IPS (formerly ILS) elements.

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| 1. Product Support Management (PSM)    | 7. Support Equipment  |
| 2. Design Interface                    | 8. Technical Data   |
| 3. Sustaining Engineering              | 9. Training and Training Support                            |
| 4. Maintenance Planning and Management | 10. Computer Resources Support                              |
| 5. Manpower and Personnel              | 11. Facilities and Infrastructure                           |
| 6. Supply Support                      | 12. Packaging, Handling, Storage and Transportation (PHS&T) |

## LIFE CYCLE LOGISTICS

To increase system uptime and decrease cost, WR advances the Model Based Product Support (MBPS) approach as legacy systems are migrated to Navy Common Readiness Model (NCRM), Navy Product Data Management (NPDM), and Navy Data Acquisition Requirements Tool (NDART). We develop and deliver logistics products, including:

## Supply Support, Maintenance Planning, and Sustaining Engineering

WR Logisticians have the experience, expertise, and certifications to develop and maintain numerous products including, but not limited to: Provisioning Technical Data (PTD) for Interactive Computer-Aided Provisioning System (ICAPS) for Allowance Parts Lists (APL); Reliability, Maintainability and Availability (RM&A) analyses; Reliability Centered Maintenance (RCM) for Maintenance Index Pages (MIP) and Maintenance Requirement Cards (MRC); ILS Certifications; and Diminishing Manufacturing Sources and Material Shortages (DMSMS) research and recommendations.

- Allowance Parts Lists and Allowance Equipage Lists (AEL)
- Reliability, Maintainability, and Availability Analyses
- Maintenance Requirement Cards
- Ship Change Document (SCD)/ Engineering Change Proposals (ECP) support for ship and system Configuration Management (CM)
- ILS Certifications
- Maintenance Index Pages (MIP)
- Diminishing Manufacturing Sources and Material Shortages recommendations
- Interactive Electronic Technical Manuals (IETM) to S1000D and all relevant military specifications

## 1. Product Support Management (PSM)

- Life Cycle Sustainment Plans (LCSP)
- Configuration Management (CM), including Engineering Change Proposals (ECPs) and Ship Change Documents (SCDs) and Configuration Status Accounting (CSA) using CDMD-OA
- System Operation Verification Tests (SOVTs) and Test Procedures
- System interface review; Combat Systems Operational Sequencing System (CSOSS) input
- Cycle support: sustainment logistics, and disposal support including Defense Logistics Agency (DLA) disposition

## 2. Design Interface

- Reliability, availability, maintainability
- Design characteristics with functional logistics elements
- Key Performance Parameters (KPPs) and Key System Attributes (KSAs) including availability, reliability, ownership cost, and mean down-time through ongoing analysis

## 3. Sustaining Engineering

- DMSMS analysis and management
- Perform failure analysis of individual components or entire systems
- Provide engineering and technical services ensuring continued operation with known risk
- Provide product improvement support including research on recapitalizing of existing technology to complete replacements and new acquisition

## 4. Maintenance Planning and Management

- Reliability and maintainability engineering, including:
  - Level of Repair Analysis (LORA)
  - Failure Mode, Effects, and Criticality Analysis (FMECA)
  - Reliability Centered Maintenance (RCM) analysis
  - MIP and MRC development and updates
  - Engineering assistance to resolve Technical Feedback Reports (TFBRs)

## 5. Manpower and Personnel

- Manpower, Personnel, and Training (MPT) requirements determination
- Job Task Analysis (JTA)/Job Duty Task Analysis (JDTA)

## 6. Supply Support

- Defense Contract Management Agency (DCMA) approved material management
- Initial provisioning development, including:
  - PTD package
  - Request Joint Electronic Type Designation Automated Systems (JETDAS) nomenclature
  - Item Name Code (INC) through DLA Logistics
- Research and engineering assistance in response to Engineering Service Requests (ESR/formerly DLA-339)

## 7. Support Equipment

- Organizational Metrology and Calibration (METCAL) program
- Calibration/Measurement Requirements Summary (CMRS) for new and upgraded systems

## 8. Technical Data

- Technical manual and IETM development, maintenance, and delivery
- ILS Certifications and checklists

## 9. Training and Training Support

- Courseware and curriculum
- Navy Training System Plans (NTSPs)
- Front End Analysis (FEA)
- Business Case Analysis (BCA)

## 10. Computer Resources Support

- Advanced software engineering and design for existing and new systems
- Cyber resilience is embedded early during development and throughout the system lifecycle

## 11. Facilities and Infrastructure

- Site surveys
- Facilities and infrastructure plans

## 12. PHS&T

- Approved MIL-STD-2073 packaging and handling of Hazardous Material (HAZMAT), Electrostatic Sensitive Devices (ESD)
- Receiving, inventory support, and warehousing
- Worldwide shipping
- Emergent support for Casualty Reports (CASREPs)