PDL & Loadable Software Part Management System

Overview

The AIT Portable Data Loader & Loadable Software Management Application (PDL-LSMA) is a software system that can be used together with AIT's Portable Data Loaders (PDL-615, PDL-615-XT, & uPDL-615) to manage the distribution of loadable software parts (LSP) from a centralized load administrator to remote PDL's spread across multiple locations. The PDL-LSMA is a scalable solution that can be tailored to the needs of any organization. From a simple LSP distribution system up to an enterprise wide management system for a large fleet of aircraft, the PDL-LSMA can be configured to fit any organization's processes.

PDL Administration

All AIT PDLs are capable of communicating with the PDL-LSMA system. This allows a load administrator, from a single point, to distribute loadable software parts to any or all PDLs within the organization. Additionally, the load administrator can manage PDL applications software updates using the PDL-LSMA. With the PDL-LSMA, the load administrator has complete configuration control over the organizations PDLs which may be spread across many locations. Connectivity between the PDLs and the PDL-LSMA can be over wired LAN connections, Wi-Fi, or 4G/LTE.

Software Part Management & Distribution

Using the PDL-LSMA, load administrators can control the distribution of Loadable Software Parts (LSP) to PDLs as well as the hierarchy and navigation menu structure for the selection of parts displayed at the PDLs. Load administrators can define and assign LSPs by LRU and aircraft tail number, or create completely custom selection hierarchies to fit their organization's processes and procedures.

Key Features

- Allows centralized Load Administrator to manage LSP packaging & LSP distribution
- Provides electronic distribution of software parts (eliminates need for physical media)
- Enables Load Administrator to define the Aircraft, LRU, and LSP hierarchy to be navigated on the PDLs during load operations
- Options available to enable Load Administrator to assign LSPs to specific aircraft tail numbers
- Aircraft and PDL reporting to a central location
    - View load logs for PDLs
    - View load logs for aircraft (by tail number)
- Works with AIT's PDL-615, PDL-615-XT & uPDL-615 loaders
- Transfers software parts securely over the network (LAN, Wi-Fi & 4G) or over USB
- **Completely OPTIONAL**! Software parts can also be transferred to AIT PDLs by simple file transfers and transportable media (USB Flash drives, CD/DVD, etc)
- Scalable solution with configuration options to tailor to organizational needs and processes

Aircraft Fleet Management & Reporting

The PDL-LSMA collects and logs load operation results for the PDLs and provides load administrators access to several reports. These include reports of load operations and error logs for each of the organizations PDLs, reports of load operations and results for each aircraft and aircraft LRU, and ARINC 843 reports of aircraft software configurations based on load operation logs. All reports can be generated in several formats including XML, CSV, and Raw Text.