



LOGISTICS PRODUCT DATA STORE (LPDS)

USER GUIDE

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USAMC LOGSA

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LPDS OVERVIEW

Employees at the U.S. Army Materiel Command's (USAMC) Logistics Support Activity (LOGSA) are designing a Logistics Product Data Store (LPDS) to serve as the Army's central repository for Logistics Product Data (LPD). The Logistics and Engineering Center (LEC) maintains and supports LPDS, which is capable of storing, viewing, analyzing, and feeding Army Enterprise Resource Planning (ERP) systems, like Global Combat Support System - Army (GCSS-Army) with the integrated product support data required to fully support end items.

LPDS TERMINOLOGY

The purpose of this User Guide is to describe the necessary steps and processes to fully utilize LPDS capabilities. Eight common terms used throughout this guide are described below:

- 1. Logistics Product Data:** The data collected for a system that will be uploaded into the LPDS database.
- 2. LPDS Application:** The application layer in which a user will operate. The application serves as the interface between the user and the LPDS services and database.
- 3. LPDS Database:** The database resides in the Logistics Information Warehouse (LIW) and contains the populated LPD after file upload and validation by the user or owner.
- 4. LPDS User:** Refers to a user with set permissions to upload, download, or run reports.
- 5. Super User:** A user with permissions to upload, download, run reports, and manage systems. Manage systems refers to the ability to approve system requests, setup system groups, assign permissions, and change system names.
- 6. System Manager (SM):** A user with permissions to administer specific systems. The SM can manage the system and accept/deny access requests.
- 7. System:** The system for which LPD will be uploaded and reports processed.
- 8. System File:** The actual LPD file that is uploaded, processed, or downloaded. This file is what ultimately is validated and imported in the LPDS database.

LPDS APPLICATION ACCESS

The LPDS is accessible through the LIW Portal. As a result, LIW access is required.

Note: If LIW Basic access does not currently exist, then follow the System Access Request (SAR) steps below and then request Basic LIW access.

HOW TO REQUEST ACCESS TO THE LPDS APPLICATION

Complete the following steps to request access to the LPDS application:

1. Go to <https://liw.logsa.army.mil/> (select the non-email certificate).
2. Click the “Login with CAC” button (select the non-email certificate).
3. Click the “App Warehouse” button (bottom of page).
4. From the “App Warehouse” screen, type “LPDS” in the “Keyword Search” box in the top left.
5. Click the “System Access Request” button to the right of the LPDS description.
6. Follow the necessary steps to complete the SAR.

After the SAR is submitted, an email will be sent to the requester with a SAR ID number. Once the request is approved or rejected, an email with the final status will be sent.

HOW TO LOGIN TO THE LPDS APPLICATION

NOTE: A SAR for LIW Basic and LPDS must be approved before a user can access the LPDS application.

Complete the following steps to access the LPDS application:

1. Go to <https://liw.logsa.army.mil/> (select the non-email certificate).
2. Click the “Login with CAC” button (select the non-email certificate).
3. Click the “App Warehouse” button.
4. From the “App Warehouse” screen, type “LPDS” in the “Keyword Search” box in the top left.
5. Click the “Create Shortcut” button to the right of the LPDS description.
6. Click the “Go to Application” button to the right of the LPDS description.

The LPDS application will launch in a separate tab or window. After creating the shortcut, the LPDS application will be available from the main LIW portal dashboard.

LPDS DASHBOARD

The LPDS dashboard is the home screen or the initial screen displayed after logging in to the LPDS application. A user can click the LPDS logo in the top left banner at any time to access the dashboard, which displays the most relevant information for each user upon login. The Systems tab is located below the LPDS logo. This area displays the systems for which a user has access and is broken down into 4 categories: All, Owned, Accessible, and Watched. There is also a Systems dropdown menu located to the right of the LPDS logo. Click on the Systems down arrow to access the “Recently Viewed” list, which displays systems a user most recently accessed. Click

on the “Create System” button to create a system. A user may also check on the status of a specific access request in this section by clicking the “Access Requests” tab.

LPDS SYSTEM

The LPDS system work area allows the user to view the system overview, data, reports, enterprise, and manage screens. The system overview work area provides background information about a system based on the Manager’s settings, and can be changed on the details page of the admin tab. The system data work area provides both a mechanism to view system data history and add new data files. The system data history work area provides the data file status (current, validated, outdated, cancelled, error), date of action, and ability to download the data file. The system data new work area allows the user to upload, import, and validate new data files. The system reports work area allows the user to run several provisioning, reliability, and technical manual report outputs. The system enterprise work area currently allows the user to feed GCSS-Army with the Logistics Modernization Program (LMP) on the horizon. The system manage work area allows the user to add system details, create groups, set user permissions, address user requests, and delete systems. By default, users of the LPDS application do not have access to any systems. The user must create a new system or request access to individual systems by selecting the request access button on the system screen. The SM manages system requests. After a request is submitted, the SM is notified of the pending request. Once approved or denied, the requester (user) is then notified of the decision.

HOW TO SEARCH FOR A SYSTEM WITHIN LPDS

Complete the following steps to search for a system:

1. From the main LPDS dashboard, select the “Search” text box from the top banner.
Note: The tool defaults to search for system and is identified by a gear icon on the left.
2. Enter the name of the system to search for or leave it blank to browse all systems.
3. Press the “Enter” key.

HOW TO SEARCH FOR A USER WITHIN LPDS

Complete the following steps to search for a user:

1. From the main LPDS dashboard, find the “Search” text box from the top banner.
2. Select the dropdown arrow, next to the gear icon, and pick the user search option.
Note: The user search option is identified with a human body icon.
3. Enter the name of the user to search for or leave it blank to browse all users.
4. Press the “Enter” key.

HOW TO SEARCH FOR A NIIN WITHIN LPDS

Complete the following steps to search for a NIIN:

1. From the main LPDS dashboard, find the “Search” text box from the top banner.
2. Select the dropdown arrow, next to the gear icon, and pick the NIIN search option.
Note: The NIIN search option is identified with a retail price tag icon.
3. Enter the NIIN to search for or leave it blank to browse all NIINs.
4. Press the “Enter” key.

HOW TO CREATE A SYSTEM

Complete the following steps to create a system:

1. From the main LPDS dashboard, select the “Create System” button in the top right.
2. From the “Create System” screen, first enter the system name in the “Name” text box.
3. Enter the system description in the “Description” text box (1000 characters max).
4. Click the “Create” button to complete creation of the system.

The user may click the “Cancel” button to void the system creation at any time during this process.

HOW TO REQUEST ACCESS TO A SYSTEM

Complete the following steps to request access to a system:

1. From the System work area, click on the “Request Access” button.
2. From the “Request Access” screen, select the permissions you would like to request by clicking the check box for the applicable permissions.
Note: See below for the different types of access.
3. Enter a justification for the SM or System Owner to explain your request.
4. Click “Submit” button to send request to the SM.

WHAT ARE THE DIFFERENT TYPES OF ACCESS REQUESTS?

From the Access Requests screen, there are four types of requests: Download Data, Upload Data, Administer System, and Run Reports. Each request type is described as follows:

Download Data: This permission allows a user to download LPD that is both current and historical for a specific system. The user can download the LPD file from the History tab within the systems work area.

Upload Data: This permission allows a user to upload LPD to a specific system. The user can upload data in the GEIA-STD-0007 format (standard, revision A, and revision B).

Manage System: This permission allows for managing a specific system. The user can manage system details, groups, permissions (includes Super User, Manage, Reports, and Upload/Download Data), users, and system deletion.

Super User: This permission is a combination of all other access types. It allows a user to upload, download, run reports, and manage systems..

Run Reports: This permission allows for running various reports. The user can request permissions to individual reports.

After submitting a system request, the SM will approve or deny the request. Then the system generates a status update notification for the requester.

LPDS SYSTEM FILE

The LPDS system data is populated when a user uploads a file. The upload of a file initiates a workflow in LPDS that will process the file, perform data audits (validation), and populate the LPDS database with the current data.

WHAT ARE THE NORMAL STAGES OF THE LPDS WORKFLOW?

The normal workflow consists of various stages, depending on the success or failure of the file upload. Workflow stages are described as follows:

Validating: This workflow status indicates a successful upload to LPDS file storage.

Note: This shows the LPD file was uploaded to the LPDS file storage area but does not indicate population into the LPDS database tables.

Validated: This workflow status indicates that the LPDS data audits have been run on the uploaded file. If no errors were found during the audits, then the data can be uploaded into the database tables. If errors were found during the audits, then the user is prompted to accept the errors or to halt database import. A system audit report is also provided to the user.

Importing: This workflow status indicates the LPD is in the process of being imported into the LPDS database tables in the LIW. This process varies in time depending on the file size, LIW traffic, and other network dependencies.

Current: This workflow status indicates the LPD is populated in the LPDS database tables and is available for report generation.

When a new LPDS file contains an error, it is not part of the normal workflow, and the user may experience various stages depending on the failure of the file upload. The off-nominal stages are described as follows:

Error: This workflow status indicates the uploaded file failed the LPDS data audits. In this situation, the workflow for that particular file upload is paused. The user may accept the validation issues described in the Validation Log or may cancel the current upload to address the issues and upload a new file. The Validation Log can be downloaded from the Failed Validation status box in the workflow.

Canceled: This workflow status indicates the uploaded file had errors during the LPDS data audits and any errors were not accepted by the user or that the upload or validation was halted by the user. In either situation, the workflow for that particular file upload is complete. The user must address the validation issues described in the Validation Log. The Validation Log can be downloaded from the Failed Validation status box in the workflow.

Outdated: This workflow status indicates the associated LPD file no longer is populated in the LPDS database tables. The original LPD file that was uploaded is still available for download and can be returned to Current status from this workflow status box.

HOW TO UPLOAD, VALIDATE, AND IMPORT A FILE WITHIN AN LPDS SYSTEM

Complete the following steps to upload an LPD file:

1. From the main LPDS dashboard, select the system from the “Systems” section.
2. From the System work area, select the “Data” tab.
3. Click the “New” button.
4. In the “Upload” section, click the “Browse...” button next to the “Select File” label.
5. Navigate to and select the desired file to upload.
6. Click the “Open” button from the file dialog.
7. From the “Upload Data” populate the Description (Example: NIIN, Nomenclature, and/ or file revision).
8. From the “Upload Data” screen, select the file type radio button for the applicable file type (GEIA-0007 Standard, GEIA-0007 Rev. A, or GEIA-0007 Rev. B).

9. Click the “Upload” button.

Note: The user may click the “Cancel” button to void the file upload at any time during this process.

10. Under the “Validate” section, the tool will perform LPDS Data Audits.

Note: See the following section titled “What If Errors Are Found During Validation?” for help.

11. Under the “Import” section, the user can add the system data file to the LPDS.

WHAT IF ERRORS ARE FOUND DURING VALIDATION?

If errors were found during the data audits (validation), then the user will be prompted to accept the errors and make the data current, or to reject making the data current and remedy the audit errors externally.

If the user selects “Yes” when prompted “Would you like to make this the most current data?”, then the data will be populated in the database and the status set to “Current.”

If the user selects “No,” then the data will not be populated in the database and the status will be set to “Canceled.” In this situation, a user would download the audit log and fix any errors using the preferred LPD management tool. Once the errors are fixed, the user would return to LPDS and upload the LPD file again.

HOW TO DOWNLOAD A FILE FROM A SYSTEM

Complete the following steps to download an LPD file Current or Older

1. From the main LPDS dashboard, select the system from the “Systems” section.
2. From the system work area, select the “Data” section.
3. From the system work area, ensure the “History” button is selected.
4. Select the “Download” button.
5. Select “Yes” on pop-up box that asks if you want to save the file from LIW.
6. Select a Location and Name for the system file.
OR
7. From the Overview Tab you can simply click Current Data to download the .xml of the most recently created current data set.

HOW TO PROVIDE G-ARMY WITH SYSTEM FILES

Complete the following steps to provide a file to G-Army:

1. From the main LPDS dashboard, select the system from the “Systems” section.
2. From the system work area, select the “Enterprise” section.
3. From the “Enterprise” section, select “GCSS-Army”.
4. Select the “Associations” section.
5. Associate the correct NIIN with the chosen system file.
6. From the “GCSS-Army” section, select the “Submit” section.
7. In the “Start” section, ensure the identified system file is correct, and select the appropriate BOM data type.
Note: Choices include Additional Authorized List (AAL) or Repair Parts and Special Tool List (RPSTL).
8. In the “Validate” the tool will validate the current data and associated NIINs with GCSS-Army rules.
Note: Any errors received during GCSS-Army validation must be corrected before you are allowed to submit to GCSS-Army. The validation report will describe what records failed and for what reason.
9. In the “Submit” the tool will submit the current data to GCSS-Army
10. In the “End” the tool will either pass or fail the data file.
11. From the “GCSS-Army” section, a user can check the “History” section for status of GCSS-Army submittal.
Note: If a system file and associated NIIN fails once it is submitted to GCSS-Army, the errors must be fixed in order to successfully pass a file to GCSS-Army.
12. If the system file and associated NIIN failed GCSS-Army submission, in the “History” section, Select the “+” dropdown to view submission workflow and click “+GCSS-Army failure details” to view details on the failure.

LPDS REPORTS

The Reports section of LPDS provides the user with the ability to generate reports from the LPD based on the GEIA-STD-0007 standard. The descriptions provided in this guide are extracts from the data standards. Reference the applicable standard for additional information on the data requirements and formats for the specific reports.

WHAT REPORTS CAN BE GENERATED IN LPDS?

The current version of LPDS provides the following reports by category:

- Provisioning:
 - Bill of Materials (BoM) (LSA-080)
 - Provisioning Technical Documentation (LSA-036)
- Reliability:
 - Failure Modes, Effects and Criticality Analysis (LSA-056)
 - Reliability Centered Maintenance Summary (LSA-050)
- Technical Manual:
 - Authorization List Items Summary (LSA-040)
 - Maintenance Allocation Chart (LSA-004)
 - Preventive Maintenance Checks and Services (LSA-033)
 - Task Analysis Summary (LSA-019)
 - Repair Parts and Special Tools List (LSA-030)

AUTHORIZATION LIST ITEMS REPORT (LSA-040)

This report is divided into two options. Option 1 consists of four parts: components of end item, basic issue items list, additional authorization list, and expendable durable supplies and materials list. These lists are required as source information to prepare an appendix to the operator's manual, or in a combined operator's and maintenance manual. Each report part is listed in alphabetical sequence by Item Name. Option 2, the stockage list type three, consists of three parts (each selectable); supply system responsibility, using unit responsibility, and collateral equipment.

BILL OF MATERIALS REPORT (LSA-080)

The summary provides a vehicle for comparing the logistics product data against the assembly drawings to ensure that items in the top down breakdown of the assembly are contained in the logistics product data. An error listing is automatically produced when the LSA-080 is requested.

The Bill of Materials Report, Part I, identifies parts and their associated assembly so the parts documentation can be checked for completeness against the assembly drawings. Each assembly listed in the report will only show parts one indenture lower. For example, a "C" indentured assembly will only show "D" indentured items. These items may be both repair parts and spares. If the item is a spare, then a separate page breakdown of the item will appear on the report.

FAILURE MODE, EFFECTS, AND CRITICALITY ANALYSIS (FMECA) REPORT (LSA-056)

This report contains three parts. Part 1 contains FMECA, criticality analysis, maintainability information, damage mode and effects analysis, and minimum equipment listing information. Part 2 is the criticality analysis information which is a listing in descending order of each item's

computed criticality_number or failure_mode_criticality_number by safety_hazard_severity_code. This part is selectable by safety_hazard_severity_code (s) and failure_mode_criticality_number's greater than a selected value. This part should be used to identify candidates for RCM analysis or design reviews. Part 3 is the failure mode analysis summary which consists of the failure modes and failure rates of each repairable item. The report can be used to identify failure modes that impact item criticality number and safety_hazard_severity_code assignment. Spacing between rows and columns is not critical on this report.

INDENTURED PARTS LIST REPORT (LSA-030)

This report consists of four different reports related to the parts related to a product. The four types of reports are: Draft Repair Parts and Special Tools List (RPSTL), Proof RPSTL, Illustrated Parts Breakdown (IPB), and Stockage List Type Four.

MAINTENANCE ALLOCATION CHART (LSA-004)

The Maintenance Allocation Chart (MAC) is a report consisting of four sections, three of which are obtainable from the LPD.

Section I, Introduction, is "boiler plate" information developed in accordance with MIL-STD-400051, Preparation Of Digital Technical Information For Page-Based Technical Manuals. Sections II, MAC, III, Tool and Test Equipment Requirements, and IV, Remarks, are produced as separate sections of this report. The report is provided in standard or aviation format in accordance with MIL-STD-400051, and is used as source information for the final MAC contained in the organizational maintenance manual.

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) REPORT (LSA-033)

This summary provides operator/crew and organizational level preventive maintenance task identification and description and equipment availability results. The PMCS are required for the operator and organizational level TMs and are based on the results of the reliability centered maintenance analysis. The report is selectable by either LCN range or TM code and number. The format is contained on Figure 38. Spacing between rows and columns is not critical on this report.

PROVISIONING REQUIREMENTS (LSA-036)

This report contains the data required for the accomplishment of initial and follow-on provisioning within the Department of Defense. It contains that data required for review at the various provisioning conferences (e.g., long lead time items conference, provisioning conference,

etc.). The report is used in the selection procedures to identify repair parts requirements in support of the equipment to be fielded.

RELIABILITY CENTERED MAINTENANCE REPORT (LSA-050)

This report is divided into three parts. Part 1 is the reliability centered maintenance (RCM) analysis conducted on repairable items of a system by disposition, *task_code*, and *safety_hazard_severity_code* (SHSC). This part is selectable by SHSC(s) and sequenced by disposition only, disposition by operations/maintenance level, or operations/maintenance level only. Part 2 is a management summary showing RAM characteristics of the item, preventive maintenance tasks, both estimated and calculated values for *task_frequency's*, and the total man-hours associated with the *skill_specialty_code* for a given operations/maintenance level. This part is selectable and sequenced similarly to Part 1 with the addition of a sequence by *skill_specialty_code*. Part 3 is used to evaluate the items that did not have an RCM analysis accomplished against them. It is also selectable by *safety_hazard_severity_code* and is sorted by ascending *failure_mode_indicator* values. Spacing between rows and columns is not critical on this report.

In Part 2, *task_frequency* is calculated by using the formula provided for preventive tasks (method 1). The total number of man-hours is the summation of *subtask_mean_man_minutes* per *subtask_person_identifier* for the identical *skill_specialty_code* and operations/maintenance level (3rd position of *task_code*). When elapsed time and man-hours are reported, each number is preceded by (M) or (P) to designate either measured or predicted values, respectively. The report will default to the predicted value where a measured value has not been defined. When the *failure_rate* is reported, it is preceded by (M), (P), (A), or (C) to indicate measured, predicted, allocated, and comparative analysis values, respectively. Where a measured value has not been entered, the report will default to the predicted, allocated, and finally comparative analysis.

TASK ANALYSIS REPORT (LSA-019)

This report provides a listing of support items and skill specialty requirements needed to perform maintenance tasks. The report is used in the preparation of maintenance manuals/interactive electronic technical manuals and during physical teardown logistic demonstration (PTLD), both to record data as a result of the PTLD, and to review the results of the PTLD.

At the option of the user, the report may also contain the narrative sequential subtask description for each task, and the description of those subtasks which are referenced. The referenced subtask descriptions will appear in the proper sequence of the task description requested.

HOW DO I RUN A SYSTEM REPORT?

Complete the following steps to run any System Report:

1. From the main LPDS dashboard, select the system from the “Systems” section.
2. From the system work area, select the “Reports” tab.
3. Click the desired report link from the list.
4. From the report options screen, select desired settings.
5. Click the “Run” button.
6. Click the “Tasks” button on the top status bar.
7. Click either “View” or “Download” for the completed report.
8. If “Download” is selected, then navigate to and select the desired location for download.

WHO CAN I CONTACT FOR LPDS ASSISTANCE?

Contact the USAMC LOGSA LEC Technical Support Branch (TSB) for questions about the use of the LPDS application.

Commercial: 256-955-9847

DSN: 645-9847

Email: usarmy.redstone.logsa.mbx.tsb-smartdesk@mail.mil or
<https://www.logsa.army.mil/lec/lpds>