CA PDSMAN® PDS Library Management (CA PDSMAN) provides a comprehensive solution for z/OS partitioned library management by addressing the wide range of issues that PDS AND PDSE users face on a daily basis. CA PDSMAN solutions help make users more productive, reduce DASD storage utilization, save processor cycles, and provide a centralized location for monitoring and viewing the status of partitioned library resources.

Overview

The challenges associated with partitioned library management are still much the same as they were years ago. Underlying technology has improved, yet core operational issues such as DASD space and member management still plague many z/OS users. CA PDSMAN provides a comprehensive solution for PDS and PDSE libraries that addresses all major facets of partitioned library management.

Business value

CA PDSMAN enhances IT productivity by reducing the time and effort required to manage PDS and PDSE libraries, thus freeing resources to focus on other challenges. Many different users—application developers, ISPF users, systems programmers, database administrators and more—benefit from CA PDSMAN. It delivers increased ROI for managing the partitioned libraries that are so widely used in the z/OS environment.
Features

Mainframe 2.0

CA PDSMAN has adopted key Mainframe 2.0 features that are designed to simplify your use of CA PDSMAN and enable your staff to install, deploy and maintain it more effectively and quickly.

- **CA Mainframe Software Manager™**: CA Mainframe Software Manager (CA MSM) automates CA PDSMAN deployment and maintenance and removes SMP/E complexities.
  - The **Software Acquisition Service** enables you to easily move product installation packages and maintenance from CA Support Online directly to your mainframe environment and prepare them for installation.
  - The **Software Installation Service** standardizes CA PDSMAN installation, which includes a new, streamlined Electronic Software Delivery (ESD) method that allows CA PDSMAN to be installed using standard utilities. This service also provides standardized SMP/E product installation and maintenance via APARs and PTFs, and simplifies SMP/E processing through an intuitive graphical user interface and an intelligent installation wizard.
  - The **Software Deployment Service** enables you to easily deploy CA PDSMAN in your mainframe environment.
  - CA MSM Consolidated Software Inventory (CSI) updates and infrastructure improvements add flexibility to CA MSM processing of CSIs and enable CA MSM to more effectively utilize CPU and system memory.

- **Installation Verification Program (IVP) and Execution Verification Program (EVP)**: As part of qualification for inclusion in the set of mainframe products from CA Technologies released every May, CA PDSMAN has passed stringent tests performed through the IVP and EVP to find and resolve interoperability problems prior to release. These programs are an extension of CA Technologies ongoing interoperability certification initiative launched in May 2009.

- **Best Practices guide**: This guide provides information on CA PDSMAN installation, initial configuration and deployment to shorten the learning curve for staff who are responsible for the installation and management of this product.

- **Health Checker**: The Mainframe 2.0 Health Checker provides CA PDSMAN Health Checks that execute under the IBM Health Checker for z/OS.
What’s new in CA PDSMAN r7.7

The CA PDSMAN track record speaks for itself. Day-one support for new OS releases, responsiveness to user suggestions and enhancement requests, and an ongoing development program are all examples of how CA PDSMAN delivers for our clients. In addition to Mainframe 2.0 adoption, the latest release, r7.7 includes the following new facilities and enhancements:

- **CA Graphical Management Interface (CA GMI) enablement**: CA GMI provides an easy-to-use graphical environment for managing your storage resources. Combining the presentation capabilities of CA GMI with the comprehensive partitioned library management tools provided by CA PDSMAN provides the best solution for overall management of your PDS and PDSE libraries. Using this powerful combination, you can easily determine the status of your partitioned resources and take action to correct existing or potential problems related to library or directory space usage, library validation, and LLA synchronization and management.

- **EZYEDIT ISPF productivity platform External Objects facility**: The EZYEDIT External Objects (EXO) facility allows you to specify user-defined objects on the EZYEDIT Selection Panel. These are external objects because EZYEDIT has no built-in awareness of what the objects are or how they are to be processed. Instead, the EXO facility provides a framework for you to create, specify, and process the external objects. EXOs can be used to bridge to other processes or products. For example, you may define an object that can be used to process DB2 tables or commands. Sample EXOs are provided for use as models for your own external objects.

- **Other EZYEDIT enhancements**: A number of functional and usability enhancements have been made to the EZYEDIT platform, including support for Extended Address Volumes, improved support for system symbols, new EXPORT, IMPORT, PLISTCHK, and PLISTADD commands, and the ability to use ISPF browse, edit, and view functions on VSAM data sets.

- **Cross-System Communication facility performance improvements**: The Cross-System Communication facility, PDSMMCPU, communicates events of interest to other copies of CA PDSMAN executing in a multiple-system, shared DASD environment. This facility has been enhanced to asynchronously process events incoming from other systems, thus providing considerable performance improvement, especially when a large number of input events are being handled.
Partitioned Resource Monitoring (PRM) system improvements: The batch component of the PRM system, PDSMPMBI, has been enhanced with the addition of three new special names, LPALIST, RITLIST, and RMLLIST, that are available on the MONITOR LIB= and XLIB= parameters. The new MONITOR DATASOURCE= parameter can be used to change where the utility retrieves resource status information, and performance has been significantly enhanced in cases where a large number of migrated data sets are selected for processing.

Supported environments

All IBM-supported versions of the z/OS operating system.

Key features

Partitioned library management challenges: Partitioned libraries are an often neglected area of system management. Many times issues are addressed reactively: only after a production system fails, libraries are corrupted, data is tampered with, or when an audit is due. It is often difficult to know where to begin. Managing PDS and PDSE libraries can be complex, and it is often necessary to address more than one area simultaneously. Managers must have the experience and resources to identify problems as well as the proper tools to fix them. The ideal partitioned library management solution must provide a complete set of facilities to address the wide variety of potential problems.

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The comprehensive partitioned library management solution: CA PDSMAN is a comprehensive, proactive solution for partitioned library management. Unlike products that address only a single aspect of management, CA PDSMAN provides a multifaceted approach that spans all major PDS and PDSE management areas, including:

- ISPF user productivity and ease-of-use
- Library space management
- Library member management
- Member auditing and comparison
- Program fetch (BLDL) performance
CA PDSMAN addresses many common PDS and PDSE issues, helping you to proactively identify and avoid library management problems before they occur.

- **Centralized partitioned resource monitoring:** The CA PDSMAN Partitioned Resource Monitoring system allows you to quickly identify and address library problems. This facility provides the “big picture” view of your environment by collecting data regarding:
  - Library validation status
  - Library space usage
  - Directory space usage
  - Library LookAside (LLA) synchronization
  - Library LookAside (LLA) management
  - PDSMAN administrative functions
Libraries are monitored as they are used in normal daily activity, or when a specific monitoring request is made through a batch or online interface. The monitoring information can be recorded in a central location, written to SMF, or forwarded to CA OPS/MVS® Event Management and Automation for further processing.

ISPF displays are available to view current and short-term historical status information. The resource status display in Figure B shows libraries with directory usage, space usage, library validation, and LLA synchronization errors. A library with a directory usage warning is shown in yellow. The status information displayed in Figure C is available on Windows-based personal computers using CA GMI, which provides an easy-to-use graphical environment for managing storage resources.
FIGURE C.
CA PDSMAN integration with CA Graphical Management Interface (CA GMI)

The partitioned resource status display allows you to easily identify actual or potential problems in your partitioned library environment.

Key capabilities

- **Extended user productivity**: CA PDSMAN significantly improves the productivity of your online and batch users by providing both a powerful ISPF productivity platform and a wide-ranging, easy-to-use set of batch and online utility programs. ISPF users, administrators, project managers, systems programmers, and others all benefit from these extended user productivity solutions.

- **EZYEDIT ISPF productivity platform**: EZYEDIT is an ISPF-based productivity platform that makes ISPF more powerful and easier to use. EZYEDIT provides functions, commands, and capabilities not available in ISPF, simplifies ISPF navigation, and improves user productivity through specialized data set, library member, DASD volume, personal data set list, and other object-oriented displays. Figure D shows a sample EZYEDIT Selection Panel display.
FIGURE D.

The EZYEDIT selection panel allows you to define a list of frequently used data sets, special keywords, or other objects and then cursor to the entries or reference them by number instead of retyping the data.

Delivery approach

CA Services provides a portfolio of mainframe services delivered through CA Technologies internal staff and a network of established partners chosen to help you achieve a successful deployment and get the desired business results as quickly as possible. Our standard service offerings are designed to speed deployment and accelerate the learning curve for your staff. CA Technologies field-proven mainframe best practices and training help you lower risk, improve use/adopter and ultimately align the product configuration to your business requirements.
Benefits

Using CA PDSMAN, your ISPF users are more productive, library and directory space shortages can be avoided, and program fetch performance can be improved. In addition, corrupt libraries can be identified and repaired before they cause an outage, obsolete library members can be identified and archived, and audit and recovery procedures can be established to track changes and protect member data from loss.

- **CA PDSMAN benefits all PDS and PDSE users:** CA PDSMAN benefits many different functional areas and a wide variety of users:
  - ISPF users are more productive using the EZYEDIT Productivity Platform.
  - Application developers, project managers, and batch users benefit from using EZYEDIT, the Productivity Tools, and the Auditing and Comparison facilities.
  - Department managers and DASD managers can better control their resources with Library Space Reuse and Member Archiving and Recovery facilities.
  - Auditors find it easier to perform audits with the information provided by the Auditing and Comparison facilities.
  - System programmers spend less time addressing performance problems when the LLA/Extensions and Performance Options are used.
  - All users benefit from improved system performance when the FastCopy replacement for IEBCOPY is enabled.

- **The key CA PDSMAN benefit—savings:** The key benefit of CA PDSMAN is savings. With CA PDSMAN, you:
  - Save human resources that were previously required to manage libraries, address unmanaged libraries, and respond to problem situations such as out-of-space conditions. Your developers and systems staff also save time by using the EZYEDIT productivity platform and associated productivity tools.
  - Save DASD resources that were previously over-allocated to avoid PDS out-of-space abends or were being used to maintain inactive or duplicate copies of library members.
  - Save processor resources by eliminating unnecessary library compresses, optimizing the program fetch process, and replacing IEBCOPY with the high-speed FastCopy facility.
The CA Technologies advantage

CA Technologies has 30 years of recognized expertise in robust, reliable, scalable, and secure enterprise-class IT management software. CA PDSMAN PDS Library Management is a key component of the Mainframe 2.0 initiative from CA Technologies to change the way the mainframe is managed forever by helping you maximize the value of our mainframe products and by providing a simplified experience and innovative solutions that deliver value quickly and flexibly.