

PDSMAN – PDSMURPT

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PDSMURPT

- This batch utility will provide usage statistics on how the PDSMAN product is currently being used within the lpar or the entire sysplex
- Since the PDSMAN software product is so large, PDSMURPT will help identify which options are being used and which ones are not
- Usage statistics will display
 - Summary and recorded statistical information
 - PDSMAN components, facilities, services and utilities
- Note
 - This utility is for the systems programmer who installs and maintains PDSMAN, all others can disregard this slide deck

PDSMURPT

- The PDSMURPT utility was introduced on September 22, 2011, with maintenance RO33883

- Below are the PTFs needed:

PTF	Year	Month/Day
RO58121	2013	April 29
RO50409	2012	September 24
RO46743	2012	July 11
RO45849	2012	May 16
RO42345	2012	March 12
RO33883	2011	September 22

- The next few slides provide a general high level overview of the PDSMURPT utility and how it works

Agenda

Topic	Description
Customization	Control writing statistics to the database
JCL	JCL used to execute PDSMURPT
Statements	SYSIN statements, syntax and parameters
Examples	JCL examples
Reports	Usage statistics reports
Links	PDSMAN and other slides decks
Conclusion	Final comments

Attachments (📎)

- The following attachments are included in this document:

File	Type
Page 26 – PDSMURPT – All Reports	TXT
Page 27 – PDSMURPT – Single Report	TXT
Page 28 – PDSMURPT – Multiple Reports	TXT
Page 31 – PDSMURPT – SUMMARY	TXT
Page 35 – PDSMURPT – ARCHUSE	TXT
Page 38 – PDSMURPT – AUDUSE	TXT
Page 41 – PDSMURPT – COMMUSE	TXT
Page 44 – PDSMURPT – COMPUSE	TXT
Page 45 – PDSMURPT – DATAPER	TXT
Page 48 – PDSMURPT – EZYUSE	TXT
Page 49 – PDSMURPT – FCOUSE	TXT
Page 52 – PDSMURPT – LLAEUSE	TXT

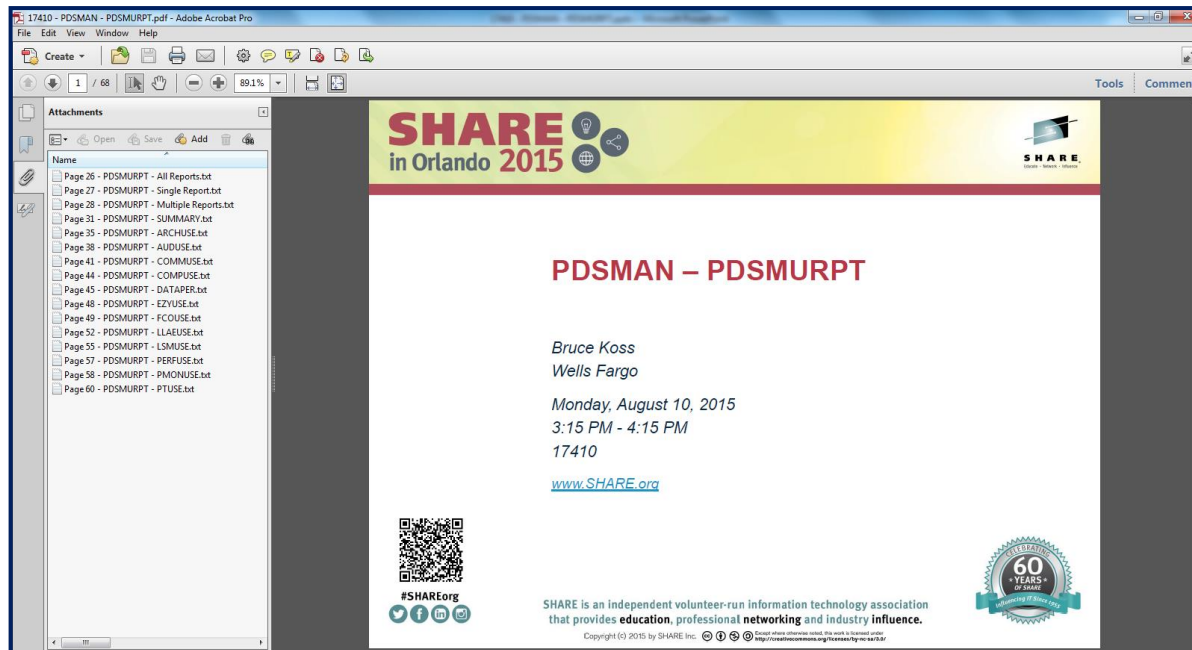
Attachments (📎)

- The following attachments are included in this document:


File	Type
Page 55 – PDSMURPT – LSMUSE	TXT
Page 57 – PDSMURPT – PERFUSE	TXT
Page 58 – PDSMURPT – PMONUSE	TXT
Page 60 – PDSMURPT – PTUSE	TXT

Attachments (📎)

- Invoke Adobe Reader and click the ‘Attachments’ button on the left side of the navigational panel of the main Reader window



Disclaimers

- Must use Adobe Reader to view attachments
 - () signifies attachment
- May need to adjust the Adobe Reader zoom value to view text
- Commands and screens may be slightly different depending on the operating system's version and release level
 - These commands and screen prints were executed on
 - **PDSMAN/EZYEDIT V7.70** and **z/OS V2R1**
- Security may prevent access to panels or executing commands
- For more detailed information, please reference the following manual:
 - **CA PDSMAN PDS Library Management**
 - **Partitioned Resource Monitoring User Guide**
 - **Chapter 11: PDSMAN Usage Statistics**

Customization

- PDSMAN usage data is collected and recorded by the PDSMAN usage statistics recording service
 - This service executes as part of the Partitioned Resource Monitoring (PDSMPMON) subtask in the PDSMAN address space
 - A usage statistics recording session starts automatically when the PDSMPMON subtask initializes
 - Usage statistics are written to the PDSMAN database periodically and immediately before the session terminates
- To control usage statistics recording, specify a **\$USESTATS** initialization control statement in the PDSMAN parameter deck (PDSMINIT)
 - Coding **\$USESTATS** is not required, since PDSMAN usage statistics recording is enabled by default

\$USESTATS

- Syntax:
 - `$USESTATS RECORD=[Y|N]`
`HISTORY=[Y|N]`
`RETAINHIST=[####]`
- The control statement parameters are as follows:

Parameter	Description
<code>RECORD</code>	Enables or disables Usage Statistics Recording (Y or N) <ul style="list-style-type: none">• Default is Y
<code>HISTORY</code>	Controls the writing of usage statistics to the PDSMAN database (Y or N) <ul style="list-style-type: none">• Default is Y
<code>RETAINHIST</code>	Specifies how long usage statistics for this system are retained in the PDSMAN database <ul style="list-style-type: none">• Default is 365 days
<code>DIAGLEVEL</code>	Sets the internal diagnostic level <ul style="list-style-type: none">• <u>Only</u> use at the direction of CA PDSMAN Technical Support/Client Services

JCL

- The JCL below is used to obtain PDSMAN usage statistics

```
//PDSMURPT EXEC PGM=PDSMURPT  
//PDSMRPT DD SYSOUT=class  
//SYSIN DD *
```

JCL – DD Cards

- Description of DD cards

DD	Description
PDSMRPT	Defines an output report dataset to which the reports are written <ul style="list-style-type: none">• This file requires DCB attributes of RECFM=FBA and LRECL=133
SYSIN	Defines an optional dataset or in-stream source containing utility control statements <ul style="list-style-type: none">• This file requires DCB attributes of RECFM=FB and LRECL=80

JCL – Return Codes

- PDSMURPT return codes and their meaning

RC	Meaning
00	Normal completion
04	A warning was produced while generating a requested report <ul style="list-style-type: none">• Review the report output for the cause of the warning and correct the condition if necessary• The utility continues processing the next report request
08	An error occurred while validating the input control statements or while generating a requested report <ul style="list-style-type: none">• Review the output and correct the cause of the error• The utility terminates without processing any additional report requests
12	An internal error occurred while generating a requested report <ul style="list-style-type: none">• This type of error is not usually user-correctable• Retain the report output for additional diagnosis

SYSIN Statements

SELECT

- The **SELECT** statement is used to select PDSMAN usage statistics records for one or more reports
 - Selected records are used for all subsequent reports until another **SELECT** statement is encountered
- If no **SELECT** statements are specified
 - All available active usage statistics records are selected for the lpar where the program executed
- Syntax:
 - **SELECT** [STARTDATE=date]
[,STARTTIME=time]
[,ENDDATE=date]
[,ENDTIME=time]
[,SYS=sysids]
[,XSYS=sysids]
[,SOURCE=ALL|ACTIVE|HISTORY]

SELECT – Parameters

Parameter	Description
STARTDATE	Specifies the starting date for the selected records <ul style="list-style-type: none">If this parameter is <u>not</u> specified, the date of the oldest extracted usage statistics record is used, effectively selecting all records
STARTTIME	Specifies the starting time for the selected records <ul style="list-style-type: none">The time can be specified in the HH:MM:SS or HHMMSS format<ul style="list-style-type: none">The minute (MM) and second (SS) parts of the parameter are optional and default to zero if not specifiedIf this parameter is <u>not</u> specified, a value of 00:00:00 is used
ENDDATE	Specifies the ending date for the selected records <ul style="list-style-type: none">If this parameter is <u>not</u> specified, the current date is used
ENDTIME	Specifies the ending time for the selected records <ul style="list-style-type: none">The time can be specified in the HH:MM:SS or HHMMSS format<ul style="list-style-type: none">The minute (MM) and second (SS) parts of the parameter are optional and default to zero if <u>not</u> specifiedIf this parameter is <u>not</u> specified, the current time is used
SYS	Specifies an SMF system ID or pattern used to select records for reporting <p>sysid A four-character SMF system ID or pattern</p> <ul style="list-style-type: none">Wild card characters can be used (+ and *); ex: SYS=* to match all systemsMultiple system IDs or patterns can be specified on a single SYS parameter<ul style="list-style-type: none">For example: SYS=(SYSA,SYSB,SYSC)If this parameter is <u>not</u> specified, only records created by the system on which the reporting program is executing are selected

SELECT – Parameters

Parameter	Description
XSYS	<p>Specifies an SMF system ID or pattern used to <u>exclude</u> previously selected records from reporting</p> <p>sysid A four-character SMF system ID or pattern</p> <ul style="list-style-type: none">• Wild card characters can be used (+ and *) <ul style="list-style-type: none">• Multiple system IDs or patterns can be specified on a single SYS parameter<ul style="list-style-type: none">• For example: XSYS=(SYSD,SYSE,SYSF)• If this parameter is <u>not</u> specified, all of the previously selected records are used
SOURCE	<p>Specifies the type of usage statistics selected for reporting</p> <p>ACTIVE Usage statistics from the current recording session on the system on which the report is being generated are selected</p> <p>HISTORY Usage statistics from specified systems are selected from the PDSMAN database</p> <ul style="list-style-type: none">• Since the database is updated periodically during a Usage Statistics recording session, historical records selected from the database may lag the current date and time by up to five minutes <p>ALL Both active and history records are selected (default)</p>

SELECT – STARTDATE and ENDDATE

- The following date formats are valid for **STARTDATE** and **ENDDATE**

Format	Description
yy/mm/dd or yyyy/mm/dd	Gregorian date
yyddd, yy.ddd or yyyy.ddd	Julian date
TODAY-[nn, nnM or nnY]	Relative date <ul style="list-style-type: none">Where nn is a relative number of days, months (M) or years (Y), respectively, prior to the current dateA single asterisk can be specified in place of the parameter TODAY when using this format

REPORT

- The **REPORT** statement is used to specify the individual reports to be produced
- Syntax:
 - **REPORT [NAME=name]**
[,LEVEL=SUMMARY|NORMAL|DETAIL]
- Wild card characters can be specified in the **NAME** parameter
 - The plus sign (+)
 - Represents a single character
 - The asterisk (*)
 - Represents a string of characters

REPORT – Parameters

Parameter	Description
NAME	<p>Specifies the name of the usage statistics report to be produced</p> <ul style="list-style-type: none">• A pattern can also be specified• A warning message is displayed when the name is <u>not</u> a valid report• A single asterisk produces all available reports
LEVEL	<p>Specifies the relative level of detail at which a report is generated</p> <ul style="list-style-type: none">• The actual information reported for each level setting varies by report• Not all reports make use of the level specification <p>SUMMARY A summary report is produced</p> <ul style="list-style-type: none">• Includes less information <p>NORMAL A normal report is produced</p> <ul style="list-style-type: none">• This level is the default <p>DETAIL A detailed report is produced</p> <ul style="list-style-type: none">• Includes more information

REPORT – NAME

- The following are valid report names:

Name	Description
SUMMARY	PDSMAN Facilities Usage Summary
ARCHUSE	Archiving and Recovery Facilities Usage
AUDUSE	Auditing Facilities Usage
COMMUSE	PDSMAN Common Services and Facilities Usage
COMPUSE	Comparison Facilities Usage
DATAPER	Usage Statistics Recording Data Period Information
EZYUSE	EZYEDIT ISPF Productivity Platform Usage
FCOUSE	FastCopy Facility Usage
LLAEUSE	LLA Extensions Facility Usage
LSMUSE	Library Space Management Usage
PERFUSE	Performance Facilities Usage
PMONUSE	Partitioned Resource Monitoring Facility Usage
PTUSE	Productivity Tools Facility Usage

JCL Examples

Overview

- The next few slides will demonstrate how to code PDSMURPT

PDSMURPT – ALL Reports (📎)

- Generate all of the usage statistics reports

```
Menu Utilities Compilers Help
-----
BROWSE      PRDSS.R2221.PDSMURPT.EXAMPLES (PDSMURP1) - Line 00000000 Col 001 080
Command ==>                               Scroll ==> CSR
***** Top of Data *****
//@SSPDSM1 JOB (SST), 'PDSMURPT',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
//*-----*
//*  PURPOSE:  ALL USAGE STATISTICS REPORTS
//*-----*
//REPORT    EXEC PGM=PDSMURPT
//PDSMRPT   DD  SYSOUT=*
//SYSIN     DD  *
REPORT NAME=*                               /* GENERATE ALL REPORTS */
***** Bottom of Data *****
```

PDSMURPT – Single Report (📎)

- Generate Partitioned Resource Monitoring usage statistics

```
Menu Utilities Compilers Help
-----
BROWSE      PRDSS.R2221.PDSMURPT.EXAMPLES (PDSMURP3) - Line 00000000 Col 001 080
Command ==>                               Scroll ==> CSR
***** Top of Data *****
//@SSPDSM3 JOB (SST), 'PDSMURPT',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
//*-----*
//*  PURPOSE:  PARTITIONED RESOURCE MONITORING STATS FOR LAST 2 DAYS
//*-----*
//REPORT    EXEC PGM=PDSMURPT
//PDSMRPT   DD  SYSOUT=*
//SYSIN     DD  *
SELECT STARTDATE=TODAY-2          /* SELECT DATA FROM LAST 2 DAYS */
REPORT  NAME=PMONUSE              /* REPORT PMON USAGE           */
***** Bottom of Data *****
```

PDSMURPT – Multiple Reports (📎)

- Generate both the summary Partitioned Resource Monitoring and detailed input usage statistics records being used

```
Menu Utilities Compilers Help
-----
BROWSE      PRDSS.R2221.PDSMURPT.EXAMPLES(PDSMURP2) - Line 00000000 Col 001 080
Command ==>                               Scroll ==> CSR
***** Top of Data *****
//@SSPDSM2 JOB (SST), 'PDSMURPT',MSGCLASS=T,CLASS=R,NOTIFY=&SYSUID
//*-----*
//* PURPOSE:  PMONUSE SUMMARY AND DATAPER DETAIL WITH START DATE/TIME
//*-----*
//REPORT    EXEC PGM=PDSMURPT
//PDSMRPT   DD  SYSOUT=*
//SYSIN     DD  *
SELECT STARTDATE=2015/07/09,           /* START DATE SPECIFICATION */
        STARTTIME=12:00                /* START TIME SPECIFICATION */
REPORT  NAME=PMONUSE,                  /* REPORT PMON USAGE         */
        LEVEL=SUMMARY                  /* SUMMARY LEVEL ONLY       */
REPORT  NAME=DATAPER,                  /* DATA PERIOD REPORT       */
        LEVEL=DETAIL                   /* DETAIL LEVEL ONLY        */
***** Bottom of Data *****
```

Reports

Overview

- The next few slides display all the usage statistics reports

Report	Description
SUMMARY	PDSMAN Facilities Usage Summary
ARCHUSE	Archiving and Recovery Facilities Usage
AUDUSE	Auditing Facilities Usage
COMMUSE	PDSMAN Common Services and Facilities Usage
COMPUSE	Comparison Facilities Usage
DATAPER	Usage Statistics Recording Data Period Information
EZYUSE	EZYEDIT ISPF Productivity Platform Usage
FCOUSE	FastCopy Facility Usage
LLAEUSE	LLA Extensions Facility Usage
LSMUSE	Library Space Management Usage
PERFUSE	Performance Facilities Usage
PMONUSE	Partitioned Resource Monitoring Facility Usage
PTUSE	Productivity Tools Facility Usage

PDSMURPT – SUMMARY (📎)

- PDSMAN Facilities Usage Summary report

```
Report Name      : PDSMAN Facilities Usage Summary (SUMMARY)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems: DV26
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365
```

PDSMAN Feature Usage Summary	Used	Time Stamp
LLA Extensions and Performance Facilities (Feature A)	Yes	07/10/2015 at 03:14:11
Auditing and Comparison Facilities (Feature B)	Yes	07/10/2015 at 03:14:10
FastCopy and Library Space Reuse (Feature C)	Yes	07/10/2015 at 12:44:55
Member Archiving and Recovery Facilities (Feature D)	No	
EZYEDIT and Productivity Tool Facilities (Feature E)	Yes	07/10/2015 at 12:44:55
PDSMAN Common Services and Facilities (Common)	Yes	07/10/2015 at 12:45:05

PDSMAN Component Usage Summary	Used	Time Stamp
A - LLA Extensions Facilities	Yes	07/10/2015 at 03:14:11
A - Performance Facilities	No	
B - Auditing Facilities	Yes	07/10/2015 at 03:14:07
B - Comparison Facilities	Yes	07/10/2015 at 03:14:10
C - FastCopy IEBCOPY Replacement	Yes	07/10/2015 at 12:44:55
C - Library Space Reuse	No	
D - Member Archiving Facilities	No	
D - Member Recovery Facilities	Yes	07/10/2015 at 03:14:11
E - EZYEDIT ISPF Productivity Platform	Yes	07/10/2015 at 12:44:55
E - Productivity Tool Facilities	Yes	07/10/2015 at 10:59:51
* - Partitioned Resource Monitoring	No	
* - PDSMAN Subtasks and Services	Yes	07/10/2015 at 12:45:05

PDSMURPT – SUMMARY (📎)

- PDSMAN Facilities Usage Summary report

	Used	Time Stamp
LLA Extensions (Feature A)		
LLA Auto-Update	Yes	06/25/2015 at 08:59:13
LLA Synchronization Management	No	
Extended LLA Operator Commands	No	
LLA Monitoring	Yes	07/07/2015 at 10:52:40
Batch Reporting and Control	Yes	07/10/2015 at 03:14:11
Performance Facilities (Feature A)		
Access Statistics Recording	No	
Dynamic BLDL	No	
Program Fetch Optimization	No	
FastStow Facility	No	
Auditing Facilities (Feature B)		
Member Control Information Recording	No	
Member Update and Access Audit Trails (SMF)	No	
Member Level Update Security	No	
Member Level Access Security	No	
Library Integrity (Enqueue Checking)	No	
Library Integrity (Enqueue Performed)	Yes	02/18/2015 at 14:14:45
Source to Executable Information Recording	Yes	07/10/2015 at 03:14:07
Member Locking	No	
Comparison Facilities (Feature B)		
Member Comparison and Update Control	Yes	07/10/2015 at 03:14:10
Library Comparison	Yes	04/08/2015 at 09:53:53
Remote Data Comparison	Yes	07/10/2015 at 03:14:10

PDSMURPT – SUMMARY (📎)

- PDSMAN Facilities Usage Summary report

	Used	Time Stamp
FastCopy IEBCOPY Replacement Facility (Feature C)		
IEBCOPY and FastCopy Operations	Yes	07/10/2015 at 12:44:55
Library Selection Extensions	Yes	07/10/2015 at 03:14:00
Member Selection Extensions	Yes	07/10/2015 at 03:14:00
Library Space Management Extensions	Yes	05/12/2015 at 12:25:45
Directory Space Management Extensions	Yes	07/10/2015 at 03:14:00
EDITDIR Member-Related Extensions	Yes	07/10/2015 at 03:14:00
Other Extensions	Yes	07/10/2015 at 03:14:04
Library Space Reuse Facility (Feature C)		
Library Space Reuse Facility	No	
FastStow Facility	No	
Member Archiving Facilities (Feature D)		
Last Reference Date Recording	No	
Member Purging	No	
Member Archiving and Backup System	No	
Member Recovery Facilities (Feature D)		
Multiple Member Versions	No	
Library Member Journaling	No	
EZYEDIT ISPF Productivity Platform (Feature E)		
EZYEDIT Displays	Yes	07/10/2015 at 12:44:55
EZYEDIT Other Functions	Yes	07/10/2015 at 09:11:29

PDSMURPT – SUMMARY (📎)

- PDSMAN Facilities Usage Summary report

Productivity Tool Facilities (Feature E)	Used	Time Stamp
String Scan and Replace Utility	Yes	07/10/2015 at 10:59:51
Library Space Monitoring	No	
Directory Space Monitoring	No	
Duplicate Member Reporting	Yes	07/10/2015 at 03:14:08
Descriptive Member Titles	Yes	07/10/2015 at 03:14:08
TSO Command Processors	Yes	04/30/2015 at 10:18:07
Other Productivity Tools	Yes	07/10/2015 at 03:14:08
Partitioned Resource Monitoring Facility	Used	Time Stamp
Partitioned Resource Status Monitored	No	
Partitioned Resource Status Viewed	No	
PDSMAN Subtasks and Services Usage	Used	Time Stamp
PDSMMCPU - Cross-System Communications Subtask	Yes	07/10/2015 at 12:45:05
PDSMLMON - LLA Monitoring Subtask	Yes	07/05/2015 at 00:52:14
PDSMPMON - Partitioned Resource Monitoring Subtask	Yes	07/05/2015 at 00:52:09
PDSMLRDR - Last Reference Date Recording Subtask	Yes	07/05/2015 at 00:52:10
PDSMQMDB - Database Queue Manager Subtask	Yes	07/05/2015 at 00:52:11
PDSMDB - Database Server Address Space	Yes	07/10/2015 at 12:42:15
PDSMHCHK - PDSMAN Health Check Services	Yes	07/05/2015 at 00:52:16
PDSMPUSE - PDSMAN Usage Statistics Recording	Yes	07/05/2015 at 00:52:09

PDSMURPT – ARCHUSE (📎)

- Archiving and Recovery Facilities Usage report

```
Report Name      : Archiving and Recovery Facilities Usage (ARCHUSE)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems : DV21
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

Last Reference Date Recording Facility Usage
Last Reference Dates Recorded for Program Objects .....      0      n/a      0.00
Last Reference Dates Recorded for All Other Members .....      0      n/a      0.00
-----
TOTAL Last Reference Dates Recorded .....                    0      n/a

Last Reference Date Recording Request Processing
Handled by Accessing Task .....                              0      n/a      0.00
Handled by Database Manager (Program Objects) .....          0      n/a      0.00
Handled by PDSMAN Address Space .....                        0      n/a      0.00
-----
TOTAL Last Reference Date Recording Requests .....            0      n/a

LRDR Requests Processed by the PDSMAN Address Space
Last Reference Date Request Successful .....                 0      n/a      0.00
Last Reference Date Request Bypassed .....                  0      n/a      0.00
Last Reference Date Request In Error .....                  0      n/a      0.00
-----
TOTAL LRDR Requests Processed by the Address Space .....     0      n/a
```

PDSMURPT – ARCHUSE (📎)

- Archiving and Recovery Facilities Usage report

	Count	Pct.	Rate/day	Time Stamp
Members Purged Based on Last Reference Date				
Members Purged using PDSM02	0	n/a	0.00	
Members Purged using FastCopy	0	n/a	0.00	

TOTAL Members Purged Based on Last Reference Date	0	n/a		
LLA Updates Related to Last Reference Date Recording				
LLA Update Performed	0	n/a	0.00	
LLA Update Not Performed	0	n/a	0.00	

TOTAL LLA Updates Related to Last Reference Dates	0	n/a		
Multiple Member Version Support Facility Usage				
Multiple Member Version Created	0	0%	0.00	
Multiple Member Version Utility (PDSM32) Executions	4	100%	0.01	07/08/2014 at 23:29:44

TOTAL Multiple Member Version Support Operations	4	100%		
Library Member Journaling Facilities Usage				
Current Member Version Recovery Journal Operations	0	n/a	0.00	
Previous Member Version Recovery Journal Operations	0	n/a	0.00	

TOTAL Member Journaling Operations	0	n/a		
Member Capture Utility (PDSM03) Usage				
Executions to Capture Members for Archiving	0	n/a	0.00	
Executions to Capture Members for Recovery	0	n/a	0.00	

TOTAL Member Capture Utility (PDSM03) Usage	0	n/a		

PDSMURPT – ARCHUSE (📎)

- Archiving and Recovery Facilities Usage report

Archiving and Recovery-Related Utility Program Usage	Count	Pct.	Rate/day	Time Stamp
Library Maintenance Utility (PDSM02)	0	0%	0.00	
Member Capture Utility (PDSM03)	0	0%	0.00	
Backup Maintenance Utility (PDSM04)	0	0%	0.00	
Library Member Restore Utility (PDSM05)	0	0%	0.00	
Backup File Maintenance Utility (PDSM05DR)	0	0%	0.00	
Maintenance Control Facility (PDSM06)	0	0%	0.00	
Report Last Reference Date Information (PDSM07)	7,080	>99%	18.87	07/10/2015 at 03:14:11
Update Member Control Information (PDSM12)	0	0%	0.00	
Update Member Control Information User Exit (PDSM12EX)	0	0%	0.00	
Multiple Member Version Utility (PDSM32)	4	< 1%	0.01	07/08/2014 at 23:29:44
Database Maintenance and Reporting Utility (PDSM38)	0	0%	0.00	
-----	-----	-----	-----	
TOTAL Archiving and Recovery-Related Utility Usage	7,084	100%		

PDSMURPT – AUDUSE (📎)

- Auditing Facilities Usage report

```
Report Name      : Auditing Facilities Usage (AUDUSE)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems : DV21
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365
```

Member Control Information Recording Facility Usage	Count	Pct.	Rate/day	Time Stamp
Member Control Information Recorded - Source	0	n/a	0.00	
Member Control Information Recorded - Load	0	n/a	0.00	
-----	-----	-----	-----	
TOTAL Member Control Information Recording Operations	0	n/a		

Member Update and Access Audit Trail Facility Usage	Count	Pct.	Rate/day	Time Stamp
Update Audit Trail Records Written to SMF	0	n/a	0.00	
Access Audit Trail Records Written to SMF	0	n/a	0.00	
-----	-----	-----	-----	
TOTAL Audit Trail Records Written to SMF	0	n/a		

Member Level Update Security Facility Usage	Count	Pct.	Rate/day	Time Stamp
Member Updates Allowed	0	n/a	0.00	
Member Updates Allowed with Warning Message	0	n/a	0.00	
Member Updates Prevented	0	n/a	0.00	
-----	-----	-----	-----	
TOTAL Member Updates Eligible for Securing	0	n/a		

PDSMURPT – AUDUSE (📎)

- Auditing Facilities Usage report

Member Level Access Security Facility Usage	Count	Pct.	Rate/day	Time Stamp
Member Accesses Allowed	0	n/a	0.00	
Member Accesses Allowed with Warning Message	0	n/a	0.00	
Member Accesses Prevented	0	n/a	0.00	
-----	-----	-----	-----	
TOTAL Member Accesses Eligible for Securing	0	n/a		
Library Integrity Facility Enqueue Checking Results	Count	Pct.	Rate/day	Time Stamp
No Action Taken (Update Properly Protected)	0	n/a	0.00	
Warning Message Issued	0	n/a	0.00	
Warning Message Issued and Job Terminated	0	n/a	0.00	
-----	-----	-----	-----	
TOTAL Enqueue Checks Performed	0	n/a		
Library Integrity Facility Enqueues Performed	Count	Pct.	Rate/day	Time Stamp
Enqueues Performed for IEBCOPY or related utilities	0	n/a	0.00	
Enqueues Performed for other utility programs	0	n/a	0.00	
-----	-----	-----	-----	
TOTAL Library Integrity Facility Enqueues	0	n/a		
Source-to-Executable Version Information Recording Usage	Count		Rate/day	Time Stamp
PDSMAN Source Version Stamped in Object	0		0.00	
PDSMAN Source Version Reported (PDSM28)	1,124		2.99	07/10/2015 at 03:14:03
Member Locking Facility Usage	Count		Time Stamp	
Rules Defining Mixed Libraries	0			
Member Set to PROD Status (PROD Command Usage)	0			
Member Set to TEST Status (TEST Command Usage)	0			

PDSMURPT – AUDUSE (📎)

- Auditing Facilities Usage report

Auditing-Related Utility Program Usage		Count	Rate/day	Time Stamp
Report Audit Information from SMF	(PDSM17)	0	0.00	
Report Source to Executable Cross References	(PDSM28)	1,124	2.99	07/10/2015 at 03:14:03
Report Member Control Information	(PDSM07)	7,080	18.87	07/10/2015 at 03:14:11
Update Member Control Information	(PDSM12)	0	0.00	
Update Member Control Information User Exit	(PDSM12EX)	0	0.00	
\$UTILITY Program Front-End Operations	(PDSM01)	0	0.00	

PDSMURPT – COMMUSE (📎)

- PDSMAN Common Services and Facilities Usage report

```
Report Name      : PDSMAN Common Services and Facilities Usage (COMMUSE)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems : DV21
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365
```

Note: 53 data records excluded due to insufficient level

PDSMAN Address Space Information				
	Count		Rate/day	Time Stamp
Operator Commands Received	0		0.00	
Reinitializations Performed	0		0.00	
PDSMAN Subtasks and Services Usage (1 Initializations)				
	Count	Pct.	Rate/day	Time Stamp
PDSMMCPU - Cross-System Communications Subtask	1	100%	0.00	07/10/2015 at 11:53:39
PDSMLMON - LLA Monitoring Subtask	1	100%	0.00	07/05/2015 at 21:24:37
PDSMPMON - Partitioned Resource Monitoring Subtask	1	100%	0.00	07/05/2015 at 21:24:34
PDSMLRDR - Last Reference Date Recording Subtask	1	100%	0.00	07/05/2015 at 21:24:35
PDSMQMDB - Database Queue Manager Subtask	1	100%	0.00	07/05/2015 at 21:24:35
PDSMDB - Database Server Address Space	1	100%	0.00	07/10/2015 at 11:49:41
PDSMHCHK - PDSMAN Health Check Services	1	100%	0.00	07/05/2015 at 21:24:40
PDSMPUSE - PDSMAN Usage Statistics Recording	1	100%	0.00	07/05/2015 at 21:24:34
Address Space and Subtask Cycle Counts				
	Count		Rate/day	Time Stamp
PDSMMCPU - Cross-System Communications Subtask	34,574		92.18	07/10/2015 at 11:53:39
PDSMLMON - LLA Monitoring Subtask	2313228		6,167.54	07/10/2015 at 11:53:39
PDSMPMON - Partitioned Resource Monitoring Subtask	2313493		6,168.24	07/10/2015 at 11:53:31
PDSMLRDR - Last Reference Date Recording Subtask	34,576		92.18	07/10/2015 at 11:53:31
PDSMQMDB - Database Queue Manager Subtask	3239530		8,637.25	07/10/2015 at 11:53:31
PDSMDB - Database Server Address Space	109,465		291.85	07/10/2015 at 11:49:41

PDSMURPT – COMMUSE (📎)

- PDSMAN Common Services and Facilities Usage report

	Count	Pct.	Rate/day	Time Stamp
Cross-System Communications Cycle Statistics				
Process - Work Performed	10,640	31%	28.36	07/10/2015 at 11:53:11
FastPath - Work Not Required	23,934	69%	63.81	07/10/2015 at 11:53:39
-----		0%	0.00	
TOTAL Cross-System Communications Cycles	34,574	100%		
Cross-System Communications Letter Statistics				
Incoming - Letters Received from Remote Systems	22,716	50%	60.56	07/10/2015 at 11:53:11
Outgoing - Letters Sent to Other Remote Systems	22,713	50%	60.55	07/10/2015 at 11:53:11

TOTAL Cross-System Communications Letters	45,429	100%		
Cross-System Communications Other Information				
Average Number of Communicating Systems	4.00			
Average Number of Cross-System Data Sets	136.00			
PDSMAN Database Server Usage Counts				
Member-Related Recording	11	100%	0.02	05/18/2015 at 15:13:56

TOTAL PDSMAN Database Server Usage	11	100%		
PDSMAN Database Operations				
Server Access Operations	1,518	1%	4.04	07/10/2015 at 11:41:50
Server Update Operations	107,969	99%	287.86	07/10/2015 at 11:49:41
Direct Access Operations	0	0%	0.00	
Direct Update Operations	0	0%	0.00	

TOTAL PDSMAN Database Operations	109,487	100%		

PDSMURPT – COMMUSE (📎)

- PDSMAN Common Services and Facilities Usage report

PDSMAN Health Checks Performed	Count	Pct.	Rate/day	Time Stamp
Health Check Successful	553	100%	1.47	07/10/2015 at 11:24:41
Health Check Exception	0	0%	0.00	
-----	-----	-----	-----	
TOTAL PDSMAN Health Checks Performed	553	100%		

PDSMURPT – COMPUSE (📎)

- Comparison Facilities Usage report

```
Report Name      : Comparison Facilities Usage (COMPUSE)
Time Period     : Start of Usage Data To Current Date/Time
Data Sources    : Active Data, Historical Data (Database)
Selected Systems: DV21
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

Comparison Facilities Usage Summary
Member Compare and Update Control Facility (PDSM33) ..... Count    Pct.    Rate/day    Time Stamp
Library Compare Facility (PDSM36) .....                1,327    54%        3.53        07/10/2015 at 03:14:10
Remote Data Compare Facility (PDSM37) .....                25        1%         0.06        06/09/2015 at 18:13:09
-----
TOTAL Comparison Facilities Usage .....                1,124    45%        2.99        07/10/2015 at 03:14:10
-----
Member Compare and Update Control Facility Usage
Total Executions ..... Count    Rate/day    Time Stamp
Compare and Diff Operations .....                1,310    3.49        07/10/2015 at 03:14:10
Update Control (Change File) Operations .....                0        0.00
Library Compare Facility (PDSM36) Usage
Total Executions ..... Count    Pct.    Rate/day    Time Stamp
Subsequent Calls to Member Comparison (PDSM33) .....                25    100%        0.06        06/09/2015 at 18:13:09
                11    44%        0.02        10/05/2014 at 18:46:57
Remote Data Comparison Facility (PDSM37) Usage
Total Executions ..... Count    Rate/day    Time Stamp
Generate Operations (Generate or GenComp) .....                1,124    2.99        07/10/2015 at 03:14:10
Compare Operations (Compare or GenComp) .....                2,248    5.99        07/10/2015 at 03:14:10
                1,124    2.99        07/10/2015 at 03:14:10
```

PDSMURPT – DATAPER (📎)

- Usage Statistics Recording Data Period Information report

Report Name : Usage Statistics Recording Data Period Information (DATAPER)
Time Period : Start of Usage Data To Current Date/Time
Data Sources : Active Data, Historical Data (Database)
Selected Systems: DV21
\$USESTATS Rule : \$USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

Recording Data Periods for System DV21

System	Start Date/Time	End Date/Time	Duration	Data Source	Location	Lvl	Comments
DV21	06/28/2014 21:27:47	07/05/2014 21:02:57	6.23:35:10	CheckPoint	Database	2	
DV21	07/05/2014 21:40:55	07/12/2014 21:16:46	6.23:35:51	Historical	Database	2	
DV21	07/12/2014 21:53:54	07/19/2014 21:08:05	6.23:14:11	Historical	Database	2	
DV21	07/19/2014 22:06:56	07/26/2014 21:15:34	6.23:08:38	Historical	Database	2	
DV21	07/26/2014 21:48:31	08/02/2014 21:02:09	6.23:13:38	Historical	Database	2	
DV21	08/02/2014 21:44:24	08/09/2014 21:11:48	6.23:27:24	Historical	Database	2	
DV21	08/09/2014 21:35:44	08/09/2014 22:15:19	00:39:35	Historical	Database	2	
DV21	08/09/2014 22:40:19	08/16/2014 21:00:26	6.22:20:07	CheckPoint	Database	2	
DV21	08/16/2014 21:37:38	08/16/2014 22:17:29	00:39:51	Historical	Database	2	
DV21	08/16/2014 22:35:48	08/23/2014 21:01:34	6.22:25:46	Historical	Database	2	
DV21	08/23/2014 21:26:49	08/30/2014 21:01:37	6.23:34:48	Historical	Database	2	
DV21	08/30/2014 21:58:31	09/06/2014 21:08:11	6.23:09:40	Historical	Database	2	
DV21	09/06/2014 21:38:09	09/13/2014 21:04:22	6.23:26:13	Historical	Database	2	
DV21	09/13/2014 21:45:18	09/20/2014 21:03:03	6.23:17:45	Historical	Database	2	
DV21	09/20/2014 21:35:12	09/27/2014 21:05:29	6.23:30:17	CheckPoint	Database	2	
DV21	09/27/2014 21:56:41	10/11/2014 21:01:12	13.23:04:31	Historical	Database	2	
DV21	10/11/2014 21:33:55	10/18/2014 21:01:28	6.23:27:33	Historical	Database	2	
DV21	10/18/2014 21:22:56	10/25/2014 23:05:25	7.01:42:29	Historical	Database	2	
DV21	10/25/2014 23:32:02	11/02/2014 00:03:22	7.00:31:20	Historical	Database	2	
DV21	11/02/2014 01:25:59	11/09/2014 00:47:39	6.23:21:40	Historical	Database	2	
DV21	11/09/2014 02:11:40	11/15/2014 21:08:45	6.18:57:05	Historical	Database	2	

PDSMURPT – DATAPER (📎)

- Usage Statistics Recording Data Period Information report

DV21	11/15/2014	21:42:12	11/22/2014	21:03:06	6.23:20:54	Historical	Database	2
DV21	11/22/2014	21:53:34	11/29/2014	21:01:21	6.23:07:47	Historical	Database	2
DV21	11/29/2014	21:30:57	12/06/2014	21:14:51	6.23:43:54	Historical	Database	2
DV21	12/06/2014	21:30:47	12/06/2014	22:05:55	00:35:08	Historical	Database	2
DV21	12/06/2014	22:24:08	12/13/2014	21:01:18	6.22:37:10	Historical	Database	2
DV21	12/13/2014	21:47:30	01/10/2015	21:03:16	27.23:15:46	Historical	Database	2
DV21	01/10/2015	21:45:59	01/17/2015	23:11:51	7.01:25:52	Historical	Database	2
DV21	01/17/2015	23:48:14	01/24/2015	21:27:53	6.21:39:39	Historical	Database	2
DV21	01/24/2015	22:50:02	01/31/2015	21:01:15	6.22:11:13	Historical	Database	2
DV21	01/31/2015	21:19:57	02/07/2015	21:01:23	6.23:41:26	Historical	Database	2
DV21	02/07/2015	21:26:57	02/14/2015	21:00:18	6.23:33:21	Historical	Database	2
DV21	02/14/2015	22:05:56	02/21/2015	21:04:02	6.22:58:06	Historical	Database	2
DV21	02/21/2015	21:29:17	03/07/2015	23:25:17	14.01:56:00	Historical	Database	2
DV21	03/07/2015	23:49:24	03/14/2015	21:14:41	6.21:25:17	Historical	Database	2
DV21	03/14/2015	22:07:05	03/21/2015	21:01:34	6.22:54:29	Historical	Database	2
DV21	03/21/2015	21:58:07	03/21/2015	23:25:06	01:26:59	Historical	Database	2
DV21	03/21/2015	23:59:58	03/28/2015	21:06:52	6.21:06:54	Historical	Database	2
DV21	03/28/2015	21:42:21	04/04/2015	21:07:36	6.23:25:15	Historical	Database	2
DV21	04/04/2015	21:30:34	04/18/2015	21:13:59	13.23:43:25	Historical	Database	2
DV21	04/18/2015	21:50:14	04/18/2015	22:45:16	00:55:02	Historical	Database	2
DV21	04/18/2015	22:46:36	04/19/2015	01:03:28	02:16:52	Historical	Database	2
DV21	04/19/2015	01:15:05	04/25/2015	21:01:07	6.19:46:02	Historical	Database	2
DV21	04/25/2015	21:17:20	05/02/2015	21:45:53	7.00:28:33	Historical	Database	2
DV21	05/02/2015	22:25:02	05/09/2015	21:11:47	6.22:46:45	Historical	Database	2
DV21	05/09/2015	22:33:55	05/16/2015	21:05:28	6.22:31:33	Historical	Database	2
DV21	05/16/2015	21:35:46	05/23/2015	21:01:04	6.23:25:18	Historical	Database	2
DV21	05/23/2015	21:29:35	05/30/2015	21:21:52	6.23:52:17	Historical	Database	2
DV21	05/30/2015	21:57:53	06/06/2015	21:04:44	6.23:06:51	Historical	Database	2
DV21	06/06/2015	21:31:27	06/13/2015	21:01:18	6.23:29:51	Historical	Database	2
DV21	06/13/2015	21:29:08	06/20/2015	20:14:08	6.22:45:00	Historical	Database	2

PDSMURPT – DATAPER (📎)

- Usage Statistics Recording Data Period Information report

DV21	06/20/2015	23:19:08	06/27/2015	20:23:29	6.21:04:21	Historical	Database	2
DV21	06/27/2015	22:58:37	07/04/2015	21:02:16	6.22:03:39	Historical	Database	2
DV21	07/04/2015	21:24:34	07/10/2015	12:05:43	5.14:41:09	Active	In Storage	2

PDSMURPT – EZYUSE (📎)

- EZYEDIT ISPF Productivity Platform Usage report

Report Name : EZYEDIT ISPF Productivity Platform Usage (EZYUSE)
Time Period : Start of Usage Data To Current Date/Time
Data Sources : Active Data, Historical Data (Database)
Selected Systems: DV21
\$USESTATS Rule : \$USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

EZYEDIT ISPF Productivity Platform Display Usage	Count	Pct.	Rate/day	Time Stamp
Selection Panel	143,478	31%	382.52	07/10/2015 at 12:09:16
Data Set List Display	151,083	32%	402.80	07/10/2015 at 12:10:54
Member List Display	169,414	36%	451.67	07/10/2015 at 12:10:57
Personal List Display	86	< 1%	0.22	07/07/2015 at 05:38:50
Allocation Display	45	< 1%	0.11	06/23/2015 at 10:22:29
Volume Information Display	1,305	< 1%	3.47	07/10/2015 at 03:14:12
User Command Alias Display	30	< 1%	0.07	06/30/2015 at 03:02:47
Linklist Sets Display	63	< 1%	0.16	06/26/2015 at 13:44:42
LLALIST Display	4	< 1%	0.01	06/12/2015 at 07:21:55
-----	-----	-----	-----	-----
TOTAL EZYEDIT ISPF Productivity Platform Display Usage	465,508	100%		
EZYEDIT ISPF Productivity Platform Other Function Usage				
EZYEDIT In Batch Executions	1,519		4.04	07/10/2015 at 03:14:11
EZYEDIT Command Shell Usage	68		0.18	07/07/2015 at 06:44:51
External Objects Processed	15		0.03	07/01/2015 at 09:41:06
User Commands Processed	23,575		62.85	07/10/2015 at 11:51:53
ISPF Command Table Updates	0		0.00	

PDSMURPT – FCOUSE (📎)

- FastCopy Facility Usage report

```
Report Name      : FastCopy Facility Usage (FCOUSE)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems : DV21
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

IEBCOPY Executions by Caller
IEBCOPY Executions from SMP/E .....          Count    Pct.    Rate/day    Time Stamp
IEBCOPY Executions from ISPF .....          2,679     1%       7.14        07/02/2015 at 11:07:55
IEBCOPY Executions from Batch, TSO or other sources ..... 18,531    10%      49.40       07/10/2015 at 12:13:18
-----
TOTAL IEBCOPY Executions by Caller .....    168,634   89%     449.59      07/10/2015 at 12:02:26

IEBCOPY Executions by Name
IEBCOPY Executions as IEBCOPY .....          Count    Pct.    Rate/day    Time Stamp
IEBCOPY Executions as BSTCOPY .....          183,462   97%     489.12       07/10/2015 at 12:13:18
-----
TOTAL IEBCOPY Executions by Name .....    6,382     3%      17.01       07/10/2015 at 11:55:04
-----
TOTAL IEBCOPY Executions by Name .....    0.00

Individual IEBCOPY Operations
IEBCOPY Operations Handled by FastCopy .....  Count    Pct.    Rate/day    Time Stamp
IEBCOPY Operations Handled by IEBCOPY .....  202,279   99%     539.29       07/10/2015 at 12:13:18
-----
TOTAL Individual IEBCOPY Operations .....  2,956     1%       7.88        07/10/2015 at 03:13:55
-----
TOTAL Individual IEBCOPY Operations .....  205,235  100%
```

PDSMURPT – FCOUSE ()

- FastCopy Facility Usage report

Functions Performed	Count	Pct.	Rate/day	Time Stamp
Compress - Library Compress (IEBCOPY/FastCopy)	44,221	20%	117.89	07/10/2015 at 10:11:15
Copy - Library/Member Copy (IEBCOPY/FastCopy)	157,761	73%	420.60	07/10/2015 at 12:13:18
CopyMod - Member CopyMod (IEBCOPY/FastCopy)	3,274	2%	8.72	07/10/2015 at 10:50:04
AlterMod - Member AlterMod (IEBCOPY/FastCopy)	0	0%	0.00	
Move - Library/Member Move (FastCopy)	51	< 1%	0.13	06/04/2015 at 12:51:43
Validate - Library Validation (FastCopy)	4	< 1%	0.01	05/18/2015 at 10:11:43
Empty - Library Empty / Space Release (FastCopy)	39	< 1%	0.10	07/06/2015 at 17:28:40
EmptyO - Library Empty (FastCopy)	8,416	4%	22.43	07/10/2015 at 03:13:55
Release - Library Space Release (FastCopy)	3	< 1%	0.00	05/26/2015 at 09:29:41
AlterDir - Directory Size Alteration (FastCopy)	1,133	1%	3.02	07/10/2015 at 03:13:57
EditDir - Member Rename/Delete/Rename (FastCopy)	1,144	1%	3.05	07/10/2015 at 03:13:57
Recover - Member Recovery (FastCopy)	19	< 1%	0.05	07/02/2015 at 15:26:09
XCompress - Extended Compress Function (FastCopy)	0	0%	0.00	
VolComp - Volume Compress Function (FastCopy)	1,125	1%	2.99	07/10/2015 at 03:13:57

TOTAL Functions Processed	217,190	100%		
Library Selection Extensions Usage	Count	Pct.	Rate/day	Time Stamp
Data Set Pattern Specified	0	0%	0.00	
Dynamic Allocation Specified (INSDN/OUTDSN)	1,125	100%	2.99	07/10/2015 at 03:13:56

TOTAL Library Selection Extensions Usage	1,125	100%		
Member Selection Extensions Usage	Count	Pct.	Rate/day	Time Stamp
Member Pattern Specified	4,021	100%	10.72	07/10/2015 at 03:13:56
Member Selected/Excluded by Changed Date	0	0%	0.00	
Member Selected/Excluded by Last Referenced Date	0	0%	0.00	

TOTAL Member Selection Extensions Usage	4,021	100%		

PDSMURPT – FCOUSE (📎)

- FastCopy Facility Usage report

Library Space Management Extensions Usage				
	Count	Pct.	Rate/day	Time Stamp
Empty Function Performed	39	93%	0.10	07/06/2015 at 17:28:40
Release Function Performed	3	7%	0.00	05/26/2015 at 09:29:41
RLSE Operation Performed (XCompress/VolCompress)	0	0%	0.00	
SETSPACE Operation Performed (Compress/XCompress)	0	0%	0.00	
-----	-----	-----	-----	
TOTAL Library Space Management Extensions Usage	42	100%		
Directory Space Management Extensions Usage				
	Count	Pct.	Rate/day	Time Stamp
AlterDir Function Performed	1,133	78%	3.02	07/10/2015 at 03:13:57
FreeDir Operation Performed	0	0%	0.00	
SetDirBlks% Operation Performed	0	0%	0.00	
Directory Auto Expansion Performed	320	22%	0.85	07/09/2015 at 01:00:27
-----	-----	-----	-----	
TOTAL Directory Space Management Extensions Usage	1,453	100%		
Member-Related Extensions Usage				
	Count	Pct.	Rate/day	Time Stamp
EditDir Rename Operation Performed	1	< 1%	0.00	05/18/2015 at 09:20:23
EditDir Delete Operation Performed	1,137	>99%	3.03	07/10/2015 at 03:13:57
EditDir Retain Operation Performed	1	< 1%	0.00	05/26/2015 at 12:53:23
-----	-----	-----	-----	
TOTAL Member-Related Extensions Usage	1,139	100%		
Other Extensions Usage				
	Count		Rate/day	Time Stamp
Library Reset (Emptied) Before Copy/Move	2,258		6.02	07/10/2015 at 03:14:01

PDSMURPT – LLAEUSE (📎)

- LLA Extensions Facility Usage report

Report Name : LLA Extensions Facility Usage (LLAEUSE)
Time Period : Start of Usage Data To Current Date/Time
Data Sources : Active Data, Historical Data (Database)
Selected Systems: DV21
\$USESTATS Rule : \$USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

	Count	Pct.	Rate/day	Time Stamp
Updates to LLA-Managed Libraries				
Updates to Individual Members	12,201	99%	32.52	07/09/2015 at 17:03:07
Updates to Entire Libraries	166	1%	0.44	07/03/2015 at 13:16:42
-----	-----	-----	-----	-----
TOTAL Updates to LLA-Managed Libraries	12,367	100%		

	Count	Pct.	Rate/day	Time Stamp
LLA Auto-Update Facility Actions				
No Action Taken	0	0%	0.00	
Message Issued (if needed)	0	0%	0.00	
LLA Updated by PDSMAN	0	0%	0.00	
LLA Updated by PDSMAN and Message Issued	984	100%	2.62	06/25/2015 at 08:59:17
-----	-----	-----	-----	-----
TOTAL LLA Auto-Update Facility Actions	984	100%		

	Count	Pct.	Rate/day	Time Stamp
LLA Updates Related to Last Reference Date Recording				
LLA Update Performed	0	n/a	0.00	
LLA Update Not Performed	0	n/a	0.00	
-----	-----	-----	-----	-----
TOTAL LLA Updates Related to Last Reference Date Recording)	0	n/a		

PDSMURPT – LLAEUSE (📎)

- LLA Extensions Facility Usage report

LLA Synchronization Management (LSM) Facility Results	Count	Pct.	Rate/day	Time Stamp
Library In-Sync - No Notification	0	n/a	0.00	
Library In-Sync - Message Issued	0	n/a	0.00	
Library Out-Sync - No Notification or Action	0	n/a	0.00	
Library Out-Sync - Message Issued	0	n/a	0.00	
Library Out-Sync - Resynchronized	0	n/a	0.00	
Library Out-Sync - Resynchronized and Message Issued	0	n/a	0.00	

TOTAL LLA Synchronization Management Checks	0	n/a		
Extended LLA Operator Commands (ELOCs) Processed (by Type)	Count	Pct.	Rate/day	Time Stamp
Add Library to LLA Management (ADD)	0	n/a	0.00	
Remove Library from LLA Management (REMOVE)	0	n/a	0.00	
Update Library Information in LLA (UPDATE)	0	n/a	0.00	
Set LLA Management Mode to Freeze (FREEZE)	0	n/a	0.00	
Set LLA Management Mode to NoFreeze (NOFREEZE)	0	n/a	0.00	
Request Library Status Information (QUERY)	0	n/a	0.00	

TOTAL Extended LLA Operator Commands Processed	0	n/a		
Extended LLA Operator Command (ELOC) Communication	Count	Pct.	Rate/day	Time Stamp
ELOCs on this system ALSO sent to other systems	0	n/a	0.00	
ELOCs on this system NOT sent to other systems	0	n/a	0.00	
ELOCs received from other systems	0	n/a	0.00	

TOTAL Extended LLA Operator Commands Processed	0	n/a		

PDSMURPT – LLAEUSE (📎)

- LLA Extensions Facility Usage report

LLA Monitoring Facility (LMON) Changes Detected	Count	Pct.	Rate/day	Time Stamp
Add - Library Added to LLA Management	131	20%	0.34	07/07/2015 at 10:52:32
Remove - Library Removed from LLA Management	115	18%	0.30	03/22/2015 at 21:01:33
Update - LLA Management Mode Changed	4	1%	0.01	10/06/2014 at 16:24:59
Update - LLA Cache Information Updated	338	52%	0.90	07/09/2015 at 17:03:34
Update - Private Library in NoFreeze Mode Updated	57	9%	0.15	09/16/2014 at 12:49:33
-----	-----	-----		
TOTAL LLA Monitoring Facility Changes Detected	645	100%		
LLA Monitoring Facility (LMON) Message Activity	Count	Pct.	Rate/day	Time Stamp
Message Issued	137	21%	0.36	07/07/2015 at 10:52:32
Message Not Issued	505	78%	1.34	07/09/2015 at 17:03:34
Message Not Issued - Private Library in NoFreeze Mode	3	< 1%	0.00	10/06/2014 at 16:14:42
-----	-----	-----		
TOTAL LLA Monitoring Facility Message Activity	645	100%		
LLA Extensions Facility Summary	Count		Rate/day	Time Stamp
Updates to LLA-Managed Libraries	12,367		32.97	07/09/2015 at 17:03:07
LLA Auto-Update Facility Actions (Messages or Updates)	984		2.62	06/25/2015 at 08:59:17
LLA Updates Performed for Last Reference Date Recording	0		0.00	
LLA Synchronization Management Checks	0		0.00	
Extended LLA Operator Commands Processed	0		0.00	
LLA Monitoring Facility Changes Detected	645		1.71	07/09/2015 at 17:03:34
LLA Monitoring Facility Messages Issued	137		0.36	07/07/2015 at 10:52:32
LLA Not Managing the System Linklist Warnings	0		0.00	
LLA Extensions Batch Interface (PDSM35) Usage	1,145		3.05	07/10/2015 at 03:14:11
LLA Monitoring Subtask Cycles	2313347		6,167.54	07/10/2015 at 12:21:27

PDSMURPT – LSMUSE (📎)

- Library Space Management Usage report

Report Name : Library Space Management Usage (LSMUSE)				
Time Period : Start of Usage Data To Current Date/Time				
Data Sources : Active Data, Historical Data (Database)				
Selected Systems: DV21				
\$USESTATS Rule : \$USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365				
PDS Library Updates Eligible for Space Reuse				
	Count	Pct.	Rate/day	Time Stamp
Library Space Reuse Was Attempted	0	0%	0.00	
Library Space Reuse Not Attempted	35075670	100%	>100,000	

TOTAL PDS Library Updates Eligible for Space Reuse	35075670	100%		
Library Space Reuse Operations				
	Count	Pct.	Rate/day	Time Stamp
Space Successfully Reused	0	n/a	0.00	
Space Recorded for Future Use	0	n/a	0.00	

TOTAL Library Space Reuse Operations	0	n/a		
Library Space Reuse Administration				
	Count		Rate/day	Time Stamp
LSR Space Map Member (Re)Created	0		0.00	
Library Space Monitoring Facility (SPMON) Usage				
	Count	Pct.	Rate/day	Time Stamp
Total Checks Performed	0	n/a	0.00	
Errors Detected	0	n/a	0.00	
Directory Space Monitoring Facility (DBMON) Usage				
	Count	Pct.	Rate/day	Time Stamp
Total Checks Performed	0	n/a	0.00	
Warnings Detected	0	n/a	0.00	
Errors Detected	0	n/a	0.00	
Messages Issued	0	n/a	0.00	

PDSMURPT – LSMUSE (I)

- Library Space Management Usage report

Library Space Management Extensions Usage	Count	Pct.	Rate/day	Time Stamp
Empty Function Performed	39	93%	0.10	07/06/2015 at 17:28:40
Release Function Performed	3	7%	0.00	05/26/2015 at 09:29:41
RLSE Operation Performed (Compress/XCompress)	0	0%	0.00	
SETSPACE Operation Performed (XCompress/VolCompress)	0	0%	0.00	
-----	-----	-----	-----	-----
TOTAL Library Space Management Extensions Usage	42	100%		
Directory Space Management Extensions Usage	Count	Pct.	Rate/day	Time Stamp
AlterDir Function Performed	1,133	78%	3.02	07/10/2015 at 03:13:57
FreeDir Operation Performed	0	0%	0.00	
SetDirBlks% Operation Performed	0	0%	0.00	
Directory Auto Expansion Performed	320	22%	0.85	07/09/2015 at 01:00:27
-----	-----	-----	-----	-----
TOTAL Directory Space Management Extensions Usage	1,453	100%		

PDSMURPT – PERFUSE (📎)

- Performance Facilities Usage report

```
Report Name      : Performance Facilities Usage (PERFUSE)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems : DV21
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365
```

Note: 53 data records excluded due to insufficient level

Access Statistics Recording Facility	(1 Initializations)	Count	Pct.	LibCount	Time Stamp
LPA	Recording Specified	0	0%		
LinkList	Recording Specified	0	0%	0.00	
JOBLIB	Recording Specified	0	0%	0.00	
Private	Recording Specified	0	0%	0.00	
Dynamic BLDL Facility Usage	(1 Initializations)	Count	Pct.	LibCount	Time Stamp
LinkList	Dynamic BLDL Specified	0	0%	0.00	
STEPLIB	Dynamic BLDL Specified	0	0%	0.00	
Private	Dynamic BLDL Specified	0	0%	0.00	
Program Fetch Optimization Usage	(1 Initializations)	Count	Pct.	LibCount	Time Stamp
Program Fetch Optimization	OPT=Y Specified	0	0%	0.00	
Program Fetch Optimization	OPT=L Specified	0	0%	0.00	
FastStow Facility Usage		Count		Rate/day	Time Stamp
PDS STOW Operations with	FastStow Specified	0		0.00	

PDSMURPT – PMONUSE (📎)

- Partitioned Resource Monitoring Facility Usage report

```
Report Name      : Partitioned Resource Monitoring Facility Usage (PMONUSE)
Time Period      : Start of Usage Data To Current Date/Time
Data Sources     : Active Data, Historical Data (Database)
Selected Systems: DV22
$USESTATS Rule  : $USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

Partitioned Resource Monitoring Usage at a Glance
Count    Pct.    Rate/day    Time Stamp
Incoming Resource State Messages ..... 0    n/a    0.00
Processed Resource State Messages (Any Status) ..... 0    n/a    0.00
Processed Resource State Messages (Non-Normal Status) ..... 0    n/a    0.00
Monitoring Actions Taken ..... 0    n/a    0.00
Monitoring Information Viewing Usage ..... 0    n/a    0.00
Monitoring Batch Utility Usage ..... 0    n/a    0.00
Monitoring Subtask Cycles ..... 2314434    n/a    6,168.68    07/10/2015 at 13:40:42

Resource State Messages Processed (by Severity)
Incoming    Processed    Proc%
CRITICAL - Critical Error Reported ..... 0    0    n/a
ERROR - Error Reported ..... 0    0    n/a
WARNING - Warning Reported ..... 0    0    n/a
NORMAL - Normal Status ..... 0    0    n/a
-----
TOTAL Resource State Messages Processed (by Severity) ..... 0    0    n/a
```

PDSMURPT – PMONUSE (📎)

- Partitioned Resource Monitoring Facility Usage report

Resource State Messages Processed (by Class)	Incoming	Processed	Proc%
VALIDATE - PDS Library Validation	0	0	n/a
SPACEMON - Library Space Monitoring	0	0	n/a
DBMON - Directory Space Monitoring	0	0	n/a
LLASYNCH - LLA Synchronization	0	0	n/a
LLAMANAGE - LLA Management	0	0	n/a
PDSMAN - PDSMAN Functions/Services	0	0	n/a
Unknown - Unknown Class Reported	0	0	n/a

TOTAL Resource State Messages Processed (by Class)	0	0	n/a

Actions Taken for Processed Resource State Messages	Count	Pct.	Rate/day	Time Stamp
Resource Information Table Updated	0	n/a	0.00	
Resource Message Log Updated	0	n/a	0.00	
SMF History Record Written	0	n/a	0.00	
Sent to Other PDSMAN System	0	n/a	0.00	
Sent to CA OPS/MVS Generic Event API	0	n/a	0.00	

TOTAL Actions Taken for Processed RSMS	0	n/a		

Partitioned Resource Monitoring Information Viewing	Count	Pct.	Rate/day	Time Stamp
PRM-View Resource Information Display Usage	0	n/a	0.00	
PRM-View Resource Message Log Display Usage	0	n/a	0.00	
PRM-View Resource History Display Usage	0	n/a	0.00	
CA Vantage GMI Display Usage	0	n/a	0.00	

TOTAL Partitioned Resource Monitoring Information Viewing ..	0	n/a		

PDSMURPT – PTUSE (📎)

- Productivity Tools Facility Usage report

Report Name : Productivity Tools Facility Usage (PTUSE)
Time Period : Start of Usage Data To Current Date/Time
Data Sources : Active Data, Historical Data (Database)
Selected Systems: DV21
\$USESTATS Rule : \$USESTATS RECORD=Y HISTORY=Y RETAINHIST=0365

Productivity Tools Usage Summary		Count	Pct.	Rate/day	Time Stamp
String Scan and Replace	(PDSM18)	229,122	93%	610.83	07/10/2015 at 12:38:40
Library Space Monitoring	(SPMON)	0	0%	0.00	
Directory Space Monitoring	(DBMON)	0	0%	0.00	
Descriptive Member Titles	(PDSM23)	3,392	1%	9.04	07/10/2015 at 03:14:04
Duplicate Member Reporting	(PDSM27)	1,125	< 1%	2.99	07/10/2015 at 03:14:06
Library Empty and Space Release	(PDSM10)	10,737	4%	28.62	07/10/2015 at 03:14:01
Library Map and Analysis	(PDSM13)	1,132	< 1%	3.01	07/10/2015 at 03:14:04
PDSMAN Command Processor	(PDSM19)	2	< 1%	0.00	06/24/2015 at 15:02:46
Control Statement Generator	(PDSM20)	0	0%	0.00	
Member Contents List	(PDSM08)	278	< 1%	0.74	07/09/2015 at 10:47:58
Executable Program Analysis	(PDSM22)	1,398	1%	3.72	07/10/2015 at 03:14:04
Procedure Library Analysis	(PDSM24)	210	< 1%	0.55	07/08/2015 at 13:40:54
Member Size Analysis	(PDSM25)	0	0%	0.00	
Load Library Reblocking	(PDSM29)	0	0%	0.00	
PDSFETCH Command Processor	(PDSM30)	0	0%	0.00	
PDSCOPY Command Processor	(PDSM14)	1	< 1%	0.00	08/01/2014 at 09:43:09
Compression Scheduling	(PDSM11)	0	0%	0.00	
Member Format Conversion	(PDSM09)	0	0%	0.00	
Copy/Include Facility	(PDSM21)	0	0%	0.00	
-----		-----	-----	-----	-----
TOTAL Productivity Tool Usage		247,397	100%		

PDSMURPT – PTUSE (📎)

- Productivity Tools Facility Usage report

	Count	Pct.	Rate/day	Time Stamp
Library Space Monitoring Facility (SPMON) Usage				
Total Checks Performed	0	n/a	0.00	
Errors Detected	0	n/a	0.00	
Directory Space Monitoring Facility (DBMON) Usage				
Total Checks Performed	0	n/a	0.00	
Warnings Detected	0	n/a	0.00	
Errors Detected	0	n/a	0.00	
Messages Issued	0	n/a	0.00	
String Scan and Replace Facility (PDSM18) Usage				
Total Executions	229,122		610.83	07/10/2015 at 12:38:40
Scan Operations	168,650		449.61	07/10/2015 at 12:38:40
Replace Operations	1864473		4,970.62	07/10/2015 at 11:09:47
Library Map and Analysis Facility (PDSM13) Usage				
Total Executions	1,132		3.01	07/10/2015 at 03:14:04
Library Map, Analysis or Validation Operations	1,127		3.00	07/10/2015 at 03:14:04
Library Space Reuse Related Operations	0		0.00	

Links

Links
PDSMAN – EZYEDIT – Introduction
PDSMAN – EZYEDIT – Selection Panel
PDSMAN – EZYEDIT – Dataset List
PDSMAN – EZYEDIT – Member List
PDSMAN – EZYEDIT – SPACE
PDSMAN – EZYEDIT – TSO Command Shell
PDSMAN – Introduction
PDSMAN – Member Versions
PDSMAN – FASTCOPY
PDSMAN – PDSEASY
PDSMAN – PDSM18
PDSMAN – PDSMURPT

Links
<u>ISPF – An Experienced User Shares His Secrets</u>
<u>ISPF – Workstation Agent (WSA)</u>
<u>OPSMVS – OPSLOG Overview</u>
<u>REXX and ISPF – Troubleshooting</u>
<u>SDSF – Beyond the Basics</u>

Conclusion

Final Comments

- PDSMAN provides a wide range of solutions to PDS and PDSE issues users face on a daily basis
 - Saves time and increases productivity
- Every PDSMAN/EZYEDIT release introduces new features and commands which are easy to understand, implement and use
- The tutorials and manuals are exceptional
 - Easy to read and understand
 - Suggest downloading the manuals periodically to obtain new updates

Thank You!

- A special thank you to the CA PDSMAN team for their technical input and assistance
- Suggest checking out the CA PDSMAN community web site at:
[CA – Mainframe Community – PDSMAN](#)
Or
[CA – Mainframe Community](#)
Select **‘CA PDSMAN PDS Library Management’** from the **‘Products Covered’** section located on the left hand side of the web page

Any questions or comments please contact

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