A Smarter Way to Manage and Configure Your IMS Systems

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The way forward (our agenda today…)

Confronting the fear of change
The issue of complexity
The scale of the problem
Upgrades and the need for change

Automatic discovery of IMS topologies
What’s in my IMS topology?
What IMS systems are there?
What IMS Connect systems?
Which CSL members?
What PROCLIB data sets?

Parameter editing for an IMSplex
What PROCLIB members are active?
How can I check syntax of parameters?
How can I avoid syntax mistakes in the first place?
There are so many parameters, what do they all do?
How can we track change?
What can we do if we need to revert?

Enterprise-wide management
How can we view and compare values across systems?
Can we use IMS commands to simplify the process?
Can we easily reveal differences in configurations?
Can we export the data for offline analysis?
The fear of changing an IMS system

- 35 unique IMS PROCLIB data set members (IMS V15)
- 850+ parameters and sub-parameters
- 50+ new or changed parameters in each release of IMS
- Numerous interdependencies, but it we don’t change, we may miss out on valuable performance improvements and upgrades..

And we are just talking about one system…

…and most of us have more than one!
Autodiscovery
with IMS Configuration Manager
Autodiscovery with IMS Configuration Manager

What was once laborious now takes seconds...

- What IMS Connect systems are there?
- What parameters are active?
- What’s in my IMS topology?
- What IMS systems are present?
- What IMSplexes are there?
- Which IMSplexes are associated with an IMS Connect?
- What CSL members are there?
- What IMS PROCLIB data sets are we using?

Is what I have discovered in the past still running today?

What was once laborious now takes seconds...

Is it configured the way I think it is?

A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

5
**SYSTEM VIEW**

**Active params**

**View IMS System PROCLIB Parameters**

**Param info**

**Smart editor**

**EDIT**

**View IMS System PROCLIB Parameters**

**Command ===> Scroll ===> PAGE**

**Active Members**

**Command ===> Scroll ===> PAGE**

**Help**

**Validate the member syntax**

**Insert a new parameter with syntax assistance**

**Press F1 to request parameter sensitive help**

**Top of Data**

**View IMS System PROCLIB Parameters**

**Command ===> Scroll ===> PAGE**

**Check**

**Validate the member syntax**

**Model**

**Insert a new parameter with syntax assistance**

**Help**

**Press F1 to request parameter sensitive help**

**Edit IMS Active Members**

**Command ===> Scroll ===> PAGE**

**IMS ID . . . : ICDQ**

**Version (VV.R) . : 12.1**

**Description . . . : IMSplex . . . . : PLDDQ**

**Search . . .**

**Member**

**Prompt Lib Size Created ---- Changed ----- ID**

**BPECONFIG**

**Prompt Lib Size Created ---- Changed ----- ID**

**BPECONFG**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICDP**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICDQ**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICMIC00**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICMIC01**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICMIC02**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICQ1SC**

**Prompt Lib Size Created ---- Changed ----- ID**

**DCH1OD**

**Prompt Lib Size Created ---- Changed ----- ID**

**DCJ1OD**

**Prompt Lib Size Created ---- Changed ----- ID**

**DCJ1OM**

**Prompt Lib Size Created ---- Changed ----- ID**

**DDH1OM**

**Prompt Lib Size Created ---- Changed ----- ID**

**DDJ1OD**

**Prompt Lib Size Created ---- Changed ----- ID**

**DDJ1OM**

**Prompt Lib Size Created ---- Changed ----- ID**

**IBDP**

**Prompt Lib Size Created ---- Changed ----- ID**

**IBDR**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICDH**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICDJ**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICDP**

**Prompt Lib Size Created ---- Changed ----- ID**

**ICQ1SC**

**Prompt Lib Size Created ---- Changed ----- ID**

**CQSIPDQ1**

**Prompt Lib Size Created ---- Changed ----- ID**

**CQSSGDQ1**

**Prompt Lib Size Created ---- Changed ----- ID**

**CQSSLGDQ1**

**Prompt Lib Size Created ---- Changed ----- ID**

**DBFSMDBC**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFSCGQ1**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFSDC000**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFSDPLQ**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFSDRDFC**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFSDSCM0**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFDSCT0**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFDSFDR**

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**DFDSFDR**

**Prompt Lib Size Created ---- Changed ----- ID**

**DDH1OM**

**Prompt Lib Size Created ---- Changed ----- ID**

**DDJ1OD**

**Prompt Lib Size Created ---- Changed ----- ID**

**DDJ1OM**

**Prompt Lib Size Created ---- Changed ----- ID**

**RGSUF**

**Prompt Lib Size Created ---- Changed ----- ID**

**DFSPB**

**Prompt Lib Size Created ---- Changed ----- ID**

**Control Region Type . 1 1. DB/DC 2. DBCTL 3. DCCTL**

**DFSPB JCL overrides . AUTO=N**

**CQSINIT**

**Prompt Lib Size Created ---- Changed ----- ID**

**CQSIPL**

**Prompt Lib Size Created ---- Changed ----- ID**

**CQSIPL**

**Prompt Lib Size Created ---- Changed ----- ID**

**BPECFG**

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**BPECFG**

**Prompt Lib Size Created ****
Running autodiscovery (ISPF method)

IMS Configuration Manager 2.3 - Primary Option Menu

Option ==>

0 Profile Customize your IMS Configuration Manager profile
1 IMSplexes Maintain IMS parameters across an IMSplex
2 Systems Maintain IMS parameters for a system
3 PROCLIBs Maintain IMS PROCLIB data sets
4 Discovery Run the autodiscovery utility
X Exit Exit IMS Configuration Manager

Environment:
Definitions Repository 'IMPOTxx.IMSCM.GPLREPOS'

You can also run this in batch or as part of the Common Service Library server startup...
A smarter way to manage and configure your IMS Systems
with IMS Configuration Manager

Running autodiscovery (ISPF method)

Command ===>

Autodiscovery
Definitions repository: 'IMPOT26.IMSCM.GPLREPOS'

Discover IMSplexes and member systems
Limit discovery to the following IMSplexes:

Limit your scan to one or more IMSplexes
Scan for systems outside of an IMSplex

Discover systems that are not part of an IMSplex
Specify one or more LPARs:

Instructions:
Enter the EDIT command to edit generated JCL before job submission.
Enter the SUBmit command to run the autodiscovery job.
Autodiscovery batch

```
VIEW    IMPOTxx.IMSCM.JCL(DISCOVRY) - 01.00       Columns 00001 00072
Command ====> Scroll ===> PAGE
****** **************************** Top of Data *******************************
000001 //DSCVRYxx JOB , 'CSL Server', CLASS=X, MSGCLASS=X, MSGLEVEL=(1,1),
000002 //     NOTIFY=&SYSUID
000003 /*JOBPARM SYSAFF=FTSD
000004 /*
000005 /* IMS Configuration Manager - System Auto-discovery
000006 /*
000007 //GPLUTIL EXEC PGM=GPLUTIL
000008 //STEPLIB DD DISP=SHR, DSN=<GPL.SGPLLINK>
000009 // DD DISP=SHR, DSN=<IMS.SDFSRESL>
000010 //SYSIN DD *
000011 *
000012 DISCOVER MBRTYPE(ALL) +
000013     TO(REPOSITORY, GPLREPOS)
000014 /*
000015 //GPLREPOS DD DISP=SHR,
000016 //     DSN=<MY.GPLDEFS>
000017 //SYSPRINT DD SYSOUT=*  
****** **************************** Bottom of Data *******************************
```
IMS Tools

A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

Discovery processing log

GPL7324I Autodiscovery for repository TESTREPO starting...
GPL7001I Discovered IMSplex PLXZZ

GPL7002I Discovered ODBM JOB PLXZZ2OD1, XCF member DDQ1OD in IMSplex PLXZZ on ABC1
GPL7008I PARM = BPECFG=BPECONFIG,BPEINIT=CSLDINI0,ODBMINIT=DQ1,ARMRST=Y
GPL7009I STEPLIB = IDQD.VD10.SDFSRESL
GPL7009I = IMS.V13.SDFSRESL
GPL7009I PROCLIB = IDQD.VD10.PROCLIB
GPL7046I ODBM JOB PLXZZ2OD1 selected for further processing

GPL7001I Processing IMSplex PLXZZ

GPL7036I CSLSCREG command error. RC=01000010 RSN=00004000
GPL7001I Skipping IMSplex PLYYY

GPL7058I Searching for CQS connections to IMS systems
GPL7017I Reading IMS Proclib member DFSSQPS3 for IMS job IAAACTL
GPL7062I IMS system IAAA is searching for a CQS using CQSSN=CDU3
GPL7057I To discover the CQSSN CDU3 connected to IMS IAAA, autodiscovery must be run on ABC3

GPL7011I Searching for IMSCON jobs in XCF group XCFGGPL1 which is associated with IMS system IBBB...
GPL7012I Discovered IMSCON, job ICMIC04, XCF member ICMIC04 in XCF group XCFGGPL1
GPL7008I PARM = BPECFG=BPECFG01,HWSCFG=HWSCFG04
GPL7009I STEPLIB = CEX000.SAMPLE.DUMMY.SCEXLINK
GPL7009I = IMS.V13.SDFSRESL
GPL7009I PROCLIB = CEX000.SAMPLE.HWS.PROCLIB

GPL7017I Reading IMS Proclib member HWSCFG04 for IMSCON job ICMIC04
GPL7035I IMSCON job ICMIC04, XCF member ICMIC04 - Object will be added

GPL7013I Beginning DISCOVER update phase...

GPL7024I Checking for discovered IMS components in the ICM repository...
GPL7023I RM object S3XDPRM, job PLXMMRM, XCF member S3XDPRM - Object is not in the repository
GPL7023I IMS object IBBB, job IBBBCTL, XCF member IBBB - Object is not in the repository

GPL7015I MBRTYPE Discovered Added Updated No change Skipped Error
GPL7019I ------- ---------- ----- ------- --------- ------- -----
GPL7020I PLEX 13 1 0 2 0 10
GPL7020I IMS 4 0 4 0 0 0
GPL7020I IMSCON 12 1 10 0 1 0
GPL7020I ODBM 3 3 0 0 0
GPL7020I REPO 3 3 0 0 0
GPL7020I OM 5 5 0 0 0
GPL7020I RM 4 4 0 0 0
GPL7020I SCI 5 5 0 0 0

GPL7020I TOTALS 51 22 18 2 1 10
GPL7325I Autodiscovery successful for repository TESTREPO
GPL7317I SCI is not active for IMSplex PLODH
GPL7317I SCI is not active for IMSplex PLODJ
GPL7317I SCI is not active for IMSplex PLODQ
GPL7317I SCI is not active for IMSplex PLODQ
GPL7317I SCI is not active for IMSplex PLOXX
GPL7317I SCI is not active for IMSplex PLOXX

Final result
Two interfaces – two purposes

Option ===>

0 Profile Customize your IMS Configuration Manager profile
1 IMSplexes Maintain IMS parameters across an IMSplex
2 Systems Maintain IMS parameters for a system
3 PROCLIBs Maintain IMS PROCLIB data sets
4 Discovery Run the autodiscovery utility

X Exit Exit IMS Configuration Manager

Environment:
Definitions Repository ‘GPL999.REPOSTRY.VGPL3501’
Editing parameters with the IMS Configuration Manager ISPF dialog
Editing IMS parameters in ISPF

Finding parameters:
- Issue line action P against an IMSplex (POM 1)
  - View all active parameter members for the IMSplex
- Issue line action P against a system (POM 2)
  - View active parameter members for the system
- Browse by PROCLIB data set (POM 3)
  - Create a list of PROCLIB data sets

View/editing parameters
- Check the syntax of a member (CHECK)
- Insert a model/template for a new parameter (MODEL)
- Describe the function of a parameter ((HELP))

View history of changes
- Who changed what?
- Revert when things go wrong
Viewing active parameters by IMSplex

IMS Configuration Manager 2.3 - Primary Option Menu

Option ==>  
0 Profile Customize your IMS Configuration Manager profile  
1 IMSplexes Maintain IMS parameters across an IMSplex  
2 Systems Maintain IMS parameters for a system  
3 PROCLIBs Maintain IMS PROCLIB data sets  
4 Discovery Run the autodiscovery utility  
X Exit Exit IMS Configuration Manager

Environment: Definitions Repository ‘GPL999.

Enter NEW to create a new IMSplex

<table>
<thead>
<tr>
<th>IMSplex</th>
<th>Description</th>
<th>Changed</th>
<th>ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>/</td>
<td>* *</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLBDP</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLCDH</td>
<td>2014-01-09 11:23:13</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLCDJ</td>
<td>2014-01-09 11:23:13</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLCDP</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLDDH</td>
<td>2014-01-09 11:23:13</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLDDJ</td>
<td>2014-01-09 11:23:13</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLDDQ</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLXDH</td>
<td>2014-01-09 11:23:13</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLXDJ</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLXDP</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
<tr>
<td>___</td>
<td>PLXNU</td>
<td>2014-01-08 13:52:00</td>
<td>DISCOVER</td>
</tr>
</tbody>
</table>

*************** Bottom of data ***************
### Enter your search term (e.g. “ODBM”)

<table>
<thead>
<tr>
<th>/ System</th>
<th>Prompt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICMIC02</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DRDAPORT=...</td>
<td>Port used for Open Database APIs and DRDA</td>
<td></td>
</tr>
<tr>
<td>ODACCESS=...</td>
<td>Communication between ODBM, DRDA clients</td>
<td></td>
</tr>
<tr>
<td>ODMAUTOCOMN=...</td>
<td>IMS Connect automatically to ODBM</td>
<td></td>
</tr>
<tr>
<td>ODMTMO=...</td>
<td>Amount of time that IMS Connect waits</td>
<td></td>
</tr>
</tbody>
</table>

---

**What else can I search? Try...**
- NEWINV15 (what is new in IMS V15)
- DATABASE
- VTAM
- MSC
- CATALOG

---

**Impact on IMS Connect**
- ODBM
  - S3XDPOD
    - CSLDIPS3
      - ARMREST=... Whether the z/OS ARM restarts the ODBM

---

**View/edit or display parameter help**

Select by number or action code then press Enter.
1. Select the parameter... (S or E)
2. Show parameter help... (H)
What does that parameter do?

```
ARMRST=
Specifies whether the z/OS Automatic Restart Manager (ARM) is to be used to restart the ODBM address space after an abend. If you specify Y (yes), ARM restarts the ODBM address space after most system failures. If you specify N (no), ARM does not restart the ODBM address space after any system failure.

ARM does not restart the ODBM address space if ODBM abends before restart is complete. For more information on ARM, see Using z/OS Automatic Restart Manager in IMS Version 11 System Administration.

Note: The CSLDIxxx member was introduced in IMS Version 11.
```
IMSplex Active Members

IMSplex . . . : PLXDP
Description . : 

Search . . ODBM

/ System Prompt Description
- ODBM
- S3XDPOD
  E CSLDIPS3
  F ARMRST=...
  ** THE ODBMCFG=PS3 EXEC parameter or in this PROCLIB member

Columns 00001 00072

EDIT PLXDP.PROCLIB(CSLDIPS3) - 01.04

Command ==> Scroll ==> CSR

CHECK Validate the member syntax
MODEL Insert a new parameter with syntax assistance
HELP Press F1 to request parameter sensitive help

******** **************************** Top of Data ****************************
000001 ** This PROCLIB member is specified by the ODBMINIT=PS3 value on the ODBM start up procedure. 
000002 ** Parameters specified here are used for ODBM initialization. 
000003 ** ODBM configuration parameters are specified in the CSLDCPS3 PROCLIB member which can be specified by either 
000004 ** THE ODBMCFG=PS3 EXEC parameter or in this PROCLIB member 
000005 ** ON THE ODBMCFG=PS3 parameter. 
000006 ** 
000007 ** ODBMNAME=S3XDP 
000008 ** IMSPLEX(NAME=PLXDP) 
000009 ** ODBMCFG=PS3 
000010 ** RRS=Y

******** **************************** Bottom of Data ****************************
Adding new parameters using a model (MODEL)

```
EDIT      PLXDP.PROCLIB(CSLDIPS3) - 01.04
Columns 00001 00072
Command ==> MODEL
CHECK     Validate the member syntax
MODEL     Insert a new parameter with syntax assistance
HELP      Press F1 to request parameter sensitive help
******** ** Top of Data ********
000001  This PROCLIB member is specified by the ODBMINIT=PS3
000002  ** value on the ODBM start up procedure.
000003  **
000004  ** Parameters specified here are used for ODBM initialization.
000005  **
000006  ** ODBM configuration parameters are specified in CSLDCPS3.
000007  ** PROCLIB member which can be specified by either
000008  ** THE ODBMCFG=PS3 EXEC parameter.
000009  ** ON THE ODBMCFG=PS3 parameter.
000010  **
000011  **
000012  ODBMNAME=S3XDP
000013  IMSPLEX(NAME=PLXDP)
000014  ODBMCFG=PS3
000015  RRS=Y
******** ** Bottom of Data ********
```

What parameters can I specify here?

Select a parameter

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARMRST</td>
<td>Whether the z/OS ARM restarts the ODBM</td>
</tr>
<tr>
<td>IMSPLEX</td>
<td>Specifies definitions for the IMSplex</td>
</tr>
<tr>
<td>* LOGOPT</td>
<td>Specifies the level of logging</td>
</tr>
<tr>
<td>ODBMCFG</td>
<td>Specifies ODBM configuration member suffix</td>
</tr>
<tr>
<td>S ODBMNAME</td>
<td>The name of the ODBM address space</td>
</tr>
<tr>
<td>RRS</td>
<td>ODBM to use Resource Recovery Services (RRS)</td>
</tr>
</tbody>
</table>

Select one or more parameters then press EXIT.
Adding new parameters using a model (MODEL)

EDIT PLXDP.PROCLIB(CSLDIPS3) - 01.05

Command ==> Scroll ==> PAGE

CHECK Validate the member syntax
MODEL Insert a new parameter with syntax assistance
HELP Press F1 to request parameter sensitive help

****** *************************** Top of Data ********************************

000001 ** This PROCLIB member is specified by the ODBMINIT=PS3 *
000002 ** value on the ODBM start up procedure. *
000003 ** Parameters specified here are used for ODBM initialization. *
000004 ** *
000005 ** ODBM configuration parameters are specified in the *
000006 ** CSLDCPS3 PROCLIB member which can be specified by either *
000007 ** THE ODBMCFG=PS3 EXEC parameter or in this PROCLIB member *
000008 ** ON THE ODBMCFG=PS3 parameter. *
000009 ** *
000010 ** ODBMNAME=S3XDP
000011 ** IMSPLEX(NAME=PLXDP)
000012 ** ODBMCFG=PS3
000013 ** RRS=Y
000014 ** ODBMNAME=*
000015 ** -NOTE= ODBMNAME - The name of the ODBM address space

****** *************************** Bottom of Data *******************************
Syntax checker (CHECK)

Run CHECK

Two errors:
1. ODBMNAME is already defined!
2. The name we have selected is too long.

Syntax checker marks the positions of the errors
More complex example with MODEL

```
EDIT GPL000.QAAUTO.HWS.PROCLIB(HWSCFG02) - 01.08 Columns 00001 00072
Command ===>

CHECK Validate the member syntax
MODEL Insert a new parameter with syntax assistance
HELP Press F1 to request parameter sensitive help

000032 ODACCESS(
000033   DRDAPORT=(ID=_____, KEEPAV=0, PORTTMOT=18000),
000034   IMSPLEX=(MEMBER=________, TMember=_____),
000035   ODBMAUTOCONN=_,
000036   ODBMTMOT=18000)

=NOTE= DRDAPORT - Port used for Open Database APIs and DRDA
=NOTE= ID - The port number
=NOTE= 1-65535
=NOTE= KEEPAV - The interval for keep alive mechanism
=NOTE= 0-2147460 Default 0
=NOTE= PORTTMOT- Time that IMS Connect waits
=NOTE= IMSPLEX - IMSplex
=NOTE= MEMBER - XCF member name that identifies IMS Connect
=NOTE= TMember - Target XCF member name
=NOTE= ODBMAUTOCONN - IMS Connect automatically to ODBM
=NOTE= ODBMTMOT - Amount of time that IMS Connect waits
```
A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

Debugging a complex parameter member using CHECK...

Cross-parameter validation...

EDIT NEW.PROC13(HWSCFG03) - 01.02
Command ==> Scroll ==> CSR
CHECK Validate the member syntax
MODEL Insert a new parameter with syntax assistance
HELP Press F1 to request parameter sensitive help

Member has 7 issues. Position cursor and press F1 to help fix the problem.
Getting help whilst viewing a member (HELP)

ODACCESS(...)
Defines characteristics of the communication between ODBM, DRDA clients, such as the Open Database APIs, and IMS Connect.

ODBM defines parameters required to register with the CSL Open Database Manager (ODBM). IMS Connect must register with ODBM to enable IMS DB for clients that use the IMS Open Database architecture. Specify only one ODACCESS statement.

DRDAPORT
Port used for Open Database APIs and user-written DRDA communications.

IMSPLEX
The IMSplex in which IMS Connect communicates.

ODBMAUTOCONN
Whether or not IMS Connect automatically connects to ODBM.

RRS=
An optional keyword that specifies both whether IMS uses the Resource Recovery Services (RRS) and whether ODBM uses the Open Database Access (ODBA) interface or the database resource adapter (DRA) for communications with IMS DB. The default value is Y.

If you specify Y, ODBM uses RRS and the ODBA interface to register with RRMS during initialization, ODBM suspends initialization until the operator responds to message CSL4001A.

If you specify N, ODBM does not use RRS and uses the DRA interface for communications with IMS DB. When RRS=N is specified, ODBM interfaces with IMS DB in a similar manner as a CCTL.

For more information, see ODBM and RRS in IMS Version 11 System Administration.

Note: The CSLDIxxx member was introduced in IMS Version 11.

<SECTION=GLOBAL_DATASTORE_CONFIGURATION> (CSLDCxxx)
Required header for the global section of the CSLDCxxx PROCLIB member. The global parameters define the default values on all data store connections defined in the CSLDCxxx member.

Some parameters can be specified only as global defaults:
- IDRETRY Number of times that ODBM attempts to connect
- TIMER Seconds ODBM waits between connection attempts

Some parameters can be specified both as a global default and in the local section as an instance-specific override of the default value:
- MAXTHRDS Maximum number of concurrent active threads
- MINTHRDS Minimum number of concurrent active threads (V15 and later)
- FPBUF Number of Fast Path DEDB buffers per thread
- FPBOF Number of Fast Path DEDB overflow buffers per thread
- CNBA Total number of Fast Path NBA buffers for ODBM use
- SODA Output class for SNAP dumps

For more information, see ODBM and RRS in IMS Version 11 System Administration.

Note: The CSLDIxxx member was introduced in IMS Version 11.
Viewing active parameters by IMS

Option ==> IMS Configuration Manager 2.3 - Primary Option Menu

0 Profile Customize your IMS Configuration Manager profile
1 IMSplexes Maintain IMS parameters across an IMSplex
2 Systems Maintain IMS parameters for a system
3 PROCLIBs Maintain IMS PROCLIB data sets
4 Discovery Run the autodiscovery utility
X Exit Exit IMS Configuration Manager

Environment:
Definitions Repository 'GPL999.REPOSTRY.VGPL3504'

System Member List

Enter NEW to create a new Member

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<tr>
<th>Command ==&gt;</th>
<th>Scroll ==&gt; PAGE</th>
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### EDIT IMS Active Members

**IMS System ID . . :** IDDP  
**Version (VV.R) . :** 13.1  
**Description . . :** Test system  
**IMSplex . . . . . :** PLXDP

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**End**

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**Member List Actions**

Select by number or action code then press Enter.

1. Edit member... (E)  
2. View member... (V)  
3. Delete member (D)  
4. History of member... (H)

Line action S is the default edit or view action.

---

**Viewing active parameters for an IMS system**

(line action P)
### Parameter change history

Changes must occur inside IMS Configuration Manager.

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If something goes wrong, you can revert to the previous version…

---

A smarter way to manage and configure your IMS Systems with IMS Configuration Manager.
Enterprise-wide management in z/OS Explorer

with the IMS Configuration Manager Eclipse plug-in
Use IMS Configuration Manager and z/OS Explorer to perform the following tasks:

- Centralize and **consolidate** your IMS configurations
- View IMS **systems**, **resources**, and **parameters**
- **Compare** parameters across multiple systems
- Submit **IMS type-2 commands** and view the output
- Use **filters** to highlight transactions with special attributes
- List all **active parameter members** across your enterprise and drill down to parameter values
- **Export** data for external analysis
A unified view via the IBM Common Services Library

The **IMS Configuration Manager** Eclipse plug-in for z/OS Explorer displays a unified view for all IBM Common Services Library servers.

The **IBM Common Services Library server** supplies topology information to z/OS Explorer.

IMS Configuration Manager automatically discovers and stores vital information about your IMS topology in a **definitions repository**.

**z/OS Explorer**

- A4
- H4
- O4

**IPABX**

**IPHSX**

**IPOCX**

**IPVHX**
### IMS Tools

A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

#### Listing active PROCLIB data set members across your enterprise

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<th>Member Name</th>
<th>DataSetName</th>
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#### Consolidated list of systems organized by IMS, IMSplex, and IMS Connect

- **Sort**
- **Summarize**
- **Compare values**
- **Filter**
- **Export**
- **Find**
- **Help!**
A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

Drill down to PROCLIB data set member:
1. Select All Sources to see EVERYTHING
2. Find the system, member, or member type you are interested in (DFSDFHOME)
3. Show Configuration will list all members with same type (DFSDF)
4. Isolate further (LOGGER)
5. Use View Source to see the raw contents of the member
A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

- Identify parameter differences across the enterprise
- Location of parameter
- Parameter values (down)
- Parameter names (across)

Select the value that is “in effect” on the system, the value in a member, the values in JCL overrides (if present), or stage 1 macro

“Hotspot” shows a change in value from one row to the next...

Scroll for more...
A smarter way to manage and configure your IMS Systems

with IMS Configuration Manager

| IMS | IEDA | IMS | DFSPBHWS | INEFFFT | 80 | N | N | N | N | N | | | | | | | |

Parameter source
(+ what is “in effect”)

Parameter values set in PROCLIB data set member

Parameter value from stage 1 macro

Value derived from JCL override

The values “in effect” on the system

Are my parameters in stage 1, PROCLIB data set members, or in JCL overrides?
Browsing resources in an IMSplex

Here we have applied special highlighting to help us differentiate between values reported in the **TYPE** column (DEDB, DHISNDX, DL/I, MSDB, PART, PHDAM, PHIDAM, PSIINDEX)

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A smarter way to manage and configure your IMS Systems with IMS Configuration Manager
Submit an IMS command, view formatted responses, sort, filter, compare...

1. Enter query

2. Submit

QUERY IMSPLEX SHOW(ALL)

For more information on IMS QUERY commands:
A smarter way to manage and configure your IMS Systems with IMS Configuration Manager

Submit IMS command, view formatted response

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Here we have applied a filter to the LcStat column output to highlight local application program status information.

Show me the programs in IMSplex PLEDB

A smarter way to manage and configure your IMS Systems with IMS Configuration Manager.
Submit IMS commands, view formatted responses, and perform cross-system response comparison

Create a variety of cross-system comparisons using type-2 command output – in this example, we are comparing transactions:

1. Submit QUERY TRAN NAME(*) SHOW(ALL) for each system/IMSplex you wish to view and compare
2. Click the compare button
3. Set your comparison options
4. Sorting by trancode will group the transaction codes together

- Different processing limit count times (LPLCTTime)
- Different local current scheduling priorities (LCPRI)

A smarter way to manage and configure your IMS Systems with IMS Configuration Manager
Your IMS configuration under complete control

**Autodiscovery:** Your topology questions answered.
- IMSplexes
- IMS systems
- IMS Connect
- CSL members
- PROCLIB data sets
- JCL overrides

**Parameter editing (ISPF):** Make changes with confidence
- Active members
- Syntax checker
- Parameter model
- Parameter help
- Change history
- Revert

**Enterprise-wide management (z/OS Explorer):** Your enterprise now fully understood.
- Cross-system parameter comparisons
- Browse resources (programs, databases...)
- Submit IMS commands (e.g. QUERY)
- Highlight, filter, and find
- Export for offline analysis
<table>
<thead>
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<th>Reference</th>
<th>Link</th>
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<tr>
<td>IMS Configuration Manager documentation</td>
<td><a href="https://www.ibm.com/support/knowledgecenter/en/SSF2ZH_2.3.0">https://www.ibm.com/support/knowledgecenter/en/SSF2ZH_2.3.0</a></td>
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