


# The IMS Common Service Layer (CSL) Not So Common After All


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  - • **What does your IMS look like?**







# What is an IMSplex?

- An IMSplex is a set of IMS address spaces that are working together as a unit and are most likely running in a parallel sysplex (but not required)
  - Examples of an IMSplex configuration include:
    - A set of IMS control regions
  - Examples of IMSplex components are:
    - IMS subsystems (DB/DC, DBCTL, DCCTL)
    - IMS Connect
    - CSL components (OM, RM, SCI, ODBM)
    - A batch or DB utility region using DBRC
- 



# Common Service Layer (CSL) Overview



- An architecture to improve the systems management capabilities for IMS systems
    - Structured Call Interface
    - Operations management (Operations Manager)
    - Resource management (Resource Manager)
    - IMS Database access (Open Database Manager)
  - Provides
    - A single system image (IMSplex)
    - Ease of use through a single point of control
    - Shared resources across all IMS systems
  - Reduces complexity of managing multiple IMS systems
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# IMS Common Service Layer (CSL) – Why?

## Type 2 commands

- Single point of Control to IMS Plexed systems
- Batch commands
- ISPF command entry with history

## IMS Plex routing or global commands

## Dynamic Resource Definitions

## Open Database Manager

## DDL leverages DRD for New resource creation

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◦ • Common  
◦ Service  
◦ Layer  
◦ (CSL)  
◦ Managers

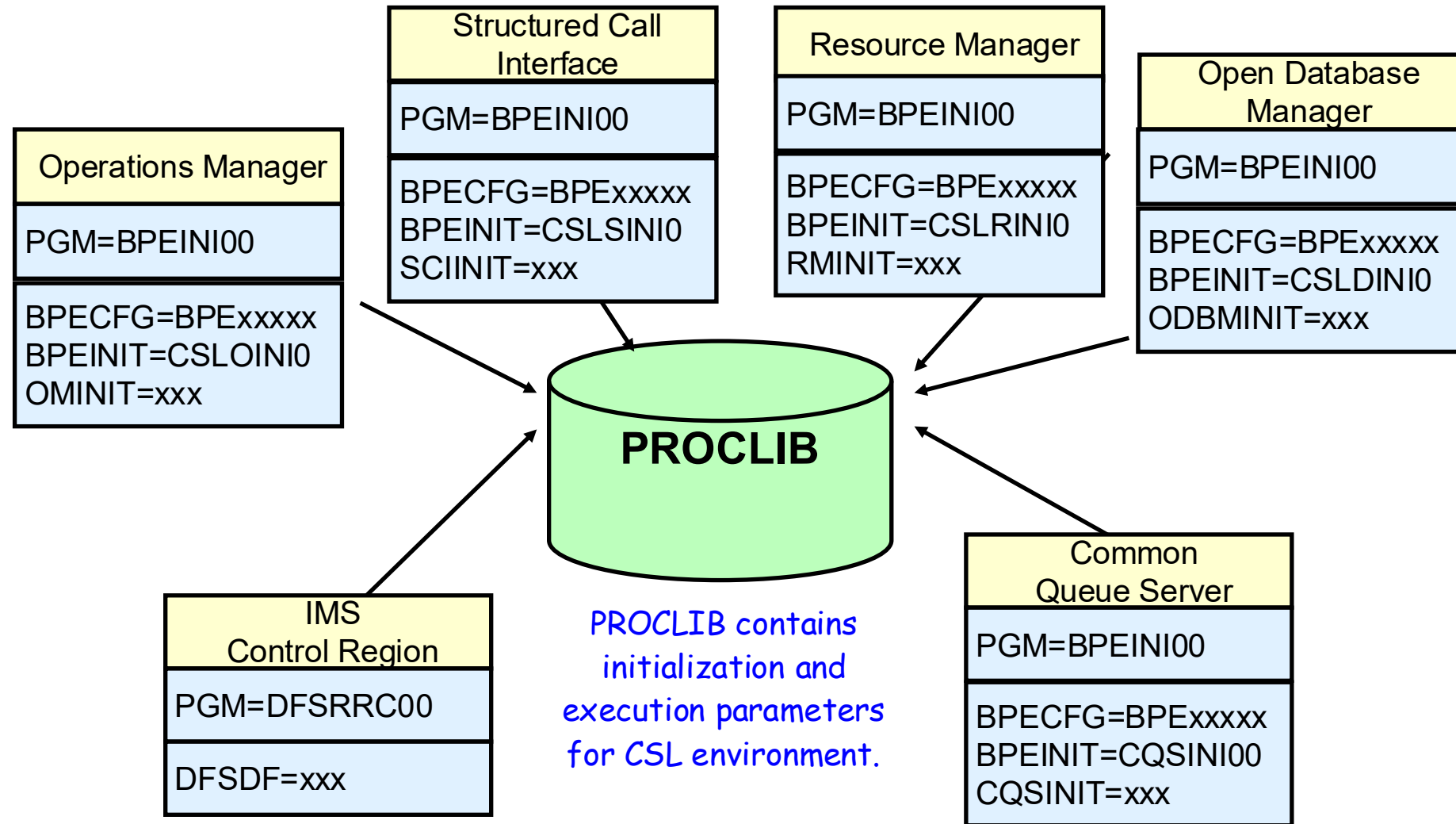
- Operations Manager (OM)
- Resource Manager (RM)
- Structured Call Interface (SCI)
- Open Database Manager (ODBM)
- Based on BPE (Base Primitive Environment)
- Address spaces
  - OM, RM, SCI, ODBM



# Base Primitive Environment (BPE)

- All CSL address spaces execute BPEINI00
- Add BPEINI00 to the z/OS Program Properties Table (PPT)
- Two BPE PROCLIB members
  - Contain trace level and user exit information
  - BPE Configuration Parameters (BPECFG=BPExxxxx)
  - BPE User Exit List
    - EXITMBR= in BPECFG=
      - EXITDEF= in EXITMBR
  - Neither are required
    - Can let BPE configuration parameters default
    - Do not need user exits
- All IMSplex members can share the BPE PROCLIB members

# CSL Definition with BPE – High Level View



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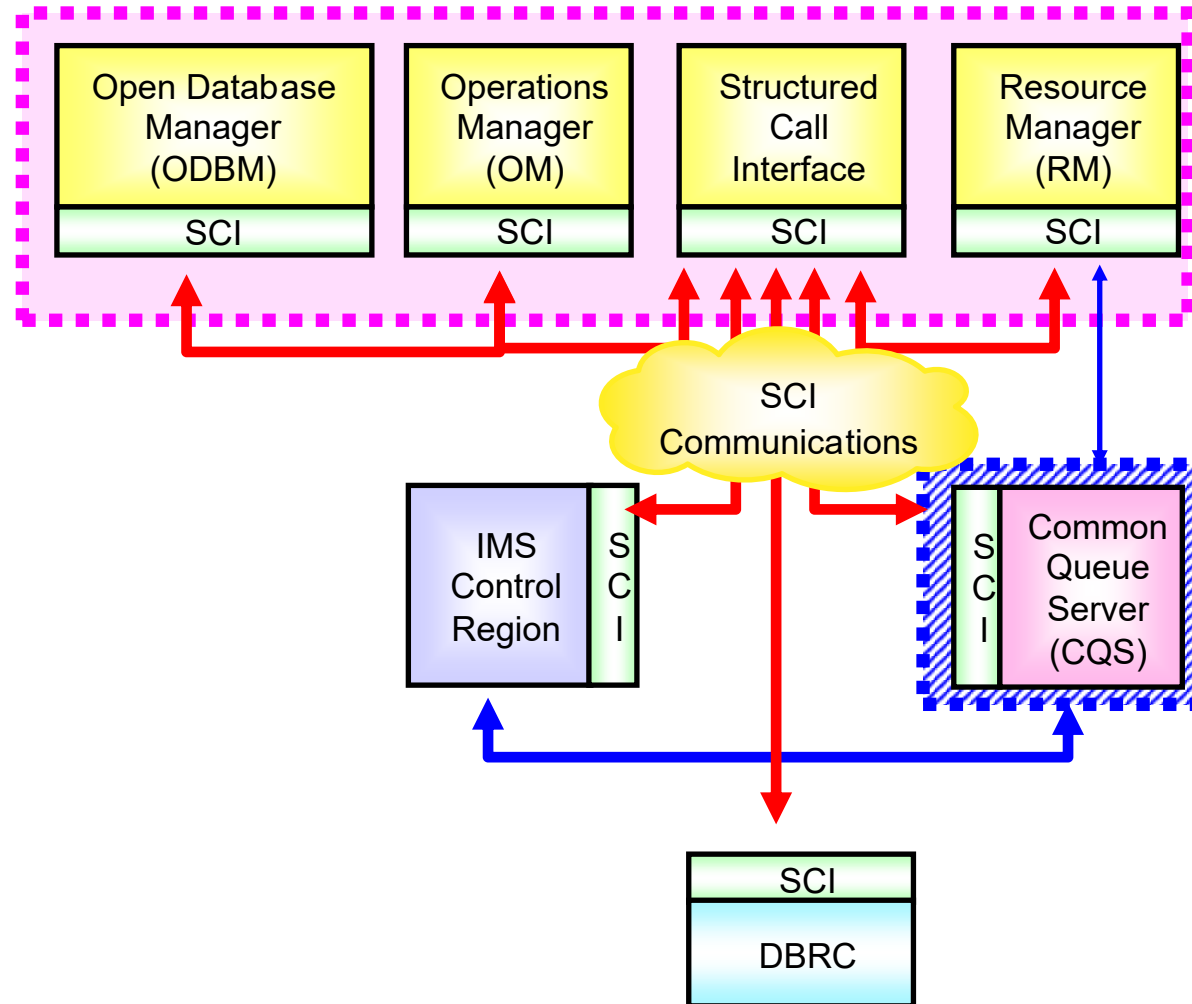
# Structure Call Interface Why?

- Provides communications services among IMSplex members in a single z/OS image and across multiple z/OS images in an IMSplex
- One SCI address space is required on each z/OS image where CSL is active

# Structured Call Interface Setup

- One SCI address space is required on every z/OS image where CSL is active
- SCI started task JCL found in IMS.PROCLIB (CSLSCI)
- Each SCI address space:
  - Executes BPEINI00 - SCI initialization module
    - BPEINIT=CSLSINI0
  - SCI PROCLIB member CSLSIxxx
    - SCIINIT=xxx
- Each instance of SCI has a different initialization PROCLIB member to specify its unique SCI name (and IMSplex name)

# CSL Architecture – Structured Call Interface



# IMS Structure Call Interface – Started Task JCL

```
EDIT          SVTSC.PROCLIB(IMS15SCI) - 01.05          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
000011 //IEFPROC EXEC PGM=BPEINI00,REGION=3000K
000012 // PARM=( 'BPECFG=BPECONFIG', 'BPEINIT=CSLSINI0', 'SCIINIT=000',
000013 //          'ARRRST=N', 'SCINAME=SCI1' )
000014 /**
000015 //STEPLIB DD DSN=DFSF10.USER.SDFSRESL,DISP=SHR
000016 //          DD DSN=DFSF10.SDFSRESL,DISP=SHR
000017 //PROCLIB DD DSN=VENDOR.PROCLIB,DISP=SHR
000018 //          DD DSN=SVTSC.PROCLIB,DISP=SHR
000019 //          DD DSN=DFSF10.PROCLIB,DISP=SHR
000020 /**
000021 //SYSPRINT DD SYSOUT=*
000022 //SYSUDUMP DD SYSOUT=*
000023 /**
000024 /**
***** ***** Bottom of Data *****
```

# IMS Structure Call Interface – Infrastructure

```
EDIT          DFSF10.PROCLIB(CSLSI000) - 01.00          Columns 00001 00072
Command ==>           Scroll ==> CSR
***** Top of Data *****
000001 *-----*
000002 * SCI INITIALIZATION PROCLIB MEMBER.          *
000003 *-----*
000004 ARMRST=N,          /* SHOULD ARM RESTART SCI ON FAILURE */
000005 SCINAME=SCI1,          /* SCI NAME (SCIID = SCI1SCI) */
000006 IMSPLEX(NAME=PLEX1)          /* IMSPLEX NAME (CSLPLEX1) */
000007 *-----*
000008 * END OF MEMBER CSLSI000          *
000009 *-----*
***** Bottom of Data *****
```

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# Operations Manager Why?

- Provides the functions:
  - Type-2 commands enablement
  - Communication between IMS components
  - Consolidate command responses into a single response to present to the command originator
  - Command security for authorization using RACF or equivalent plus user exit
  - User exit capability for editing command input and responses
- A focal point for the “Single Point of Control” (SPOC), an ISPF interface
  - ‘Aim’ commands to IMS Systems
  - ‘Spray’ commands to an entire IMS plex

# Operations Manager Setup

- An OM address space is required on at least one z/OS image where CSL is active
- Recommend a second OM for backup
- OM started task JCL found in IMS.PROCLIB (CSL0M)
- Each OM address space:
  - Executes BPEINI00
  - OM initialization module
    - BPEINIT=CSLOINI0
  - OM PROCLIB member CSLOIxxx
    - OMINIT=xxx
- Each instance of OM has a different initialization PROCLIB member to specify its unique OM name (and IMSplex name)

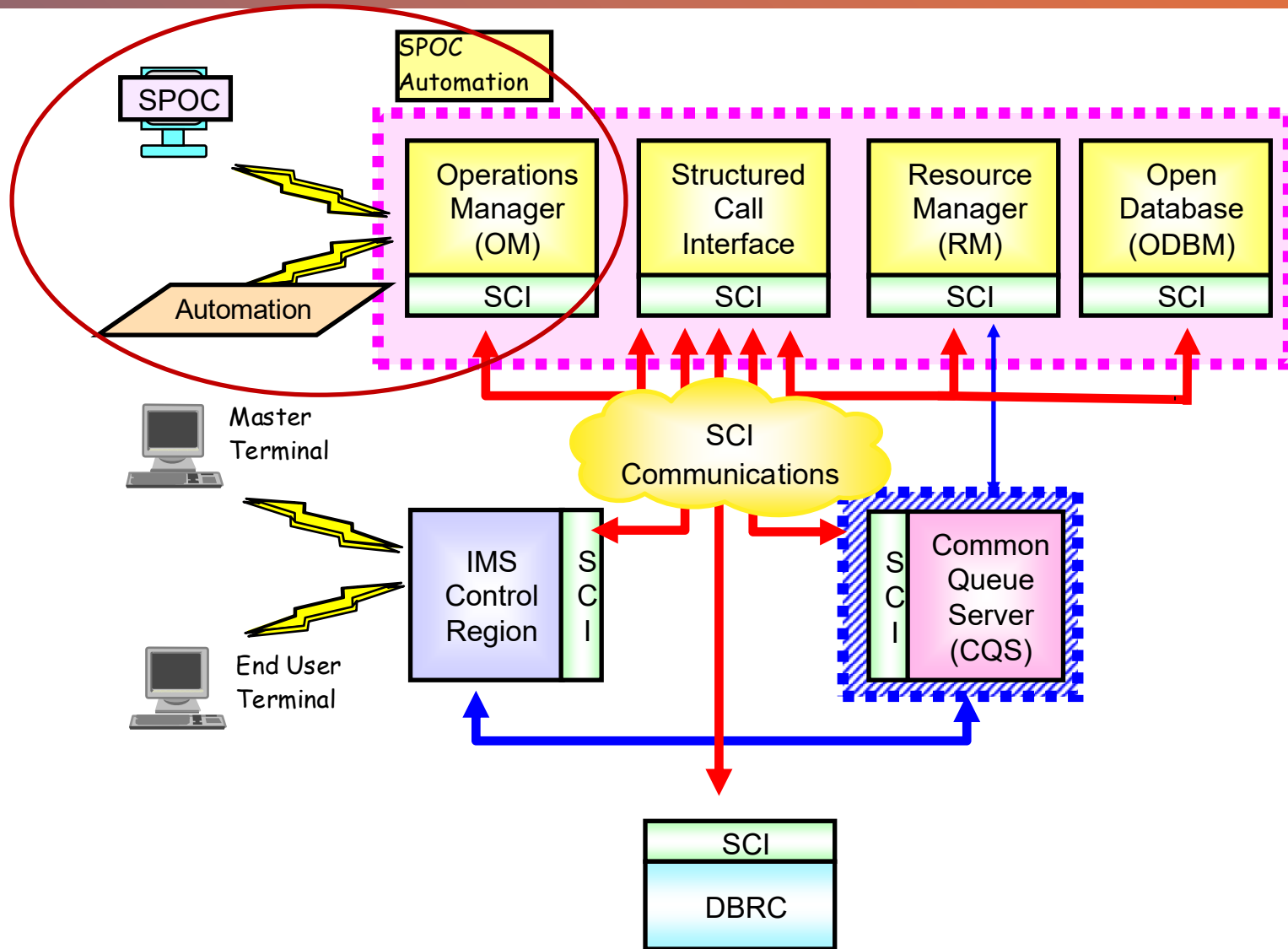
# IMS Operations Manager – Started Task JCL

```
EDIT          SVTSC.PROCLIB(IMS150M1) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
000013 //IEFPROC EXEC PGM=BPEINI00,REGION=3000K,
000014 // PARM=( 'BPECFG=BPECONFIG', 'BPEINIT=CSLOINI0', 'OMINIT=000',
000015 //          'ARMRST=N', 'CMDSEC=N', 'OMNAME=OM1' )
000016 //*
000017 //STEPLIB DD DSN=DFSF10.USER.SDFSRESL,DISP=SHR
000018 //          DD DSN=DFSF10.SDFSRESL,DISP=SHR
000019 //*
000020 //PROCLIB DD DSN=VENDOR.PROCLIB,DISP=SHR
000021 //          DD DSN=SVTSC.PROCLIB,DISP=SHR
000022 //          DD DSN=DFSF10.PROCLIB,DISP=SHR
000023 //*
000024 //SYSPRINT DD SYSOUT=*
000025 //SYSUDUMP DD SYSOUT=*
000026 //*
***** ***** Bottom of Data *****
```

# IMS Operations Manager – Infrastructure

```
EDIT          DFSF10.PROCLIB(CSLOI000) - 01.00          Columns 00001 00072
Command ==>                                Scroll ==> CSR
***** Top of Data *****
000001 *-----*
000002 * OM INITIALIZATION PROCLIB MEMBER - CSLOI000 *
000003 *-----*
000004 ARMRST=N, /* SHOULD ARM RESTART OM ON FAILURE */
000005 CMDLANG=ENU, /* USE ENGLISH FOR COMMMAND DESC */
000006 CMDSEC=N, /* NO COMMAND SECURITY */
000007 OMNAME=OM1, /* OM NAME (OMID = OM10M) */
000008 IMSPLEX(
000009     NAME=PLEX1, /* IMSPLEX NAME (CSLPLEX1) */
000010     AUDITLOG=SYSLOG.OM2Q01.LOG), /* MVS LOG STREAM */
000011 CMDTEXTDSN=DFSF10.SDFSDATA /* CMD TEXT DATASET */
000012 *-----*
000013 * END OF MEMBER CSLOI000 *
000014 *-----*
***** Bottom of Data *****
```

# CSL Architecture – Operations Manager (OM)



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# Resource Manager Why?

- Provides infrastructure for managing global resources and IMSplex-wide processes
  - IMS is responsible for exploiting RM services
- Provides the following services
  - Maintains global resource information using a resource structure in a Coupling Facility
  - Coordinates IMSplex-wide processes
- Used for the following functions
  - Sysplex Terminal Management (STM)
  - Global Online Change (GOLC)
  - Global Callable Services
  - Global Status
  - Sysplex Serial Program Management (SSPM)
  - ACBLIB Member Online Change
  - Database Quiesce
  - IMS Repository – **Recommended!**

# Resource Manager Setup

- At least one RM address space is required in an IMSplex to use RM functions
  - Recommend a second RM for backup
  - If you do not require RM functions, you can configure without an RM by specifying RMENV=N in the CSL section of your DFSDFXxx PROCLIB member
- A resource structure is optional in an IMSplex
- RM started task JCL found in IMS.PROCLIB (CSLRM)
- Consolidate smaller bullet points Each RM address space
  - Executes BPEINI00
  - RM initialization module
    - BPEINIT=CSLRINI0
  - RM PROCLIB member
    - CSLRIxxx RMINIT=xxx
  - Each instance of RM has a different initialization PROCLIB member to specify its unique RM name (and IMSplex name)

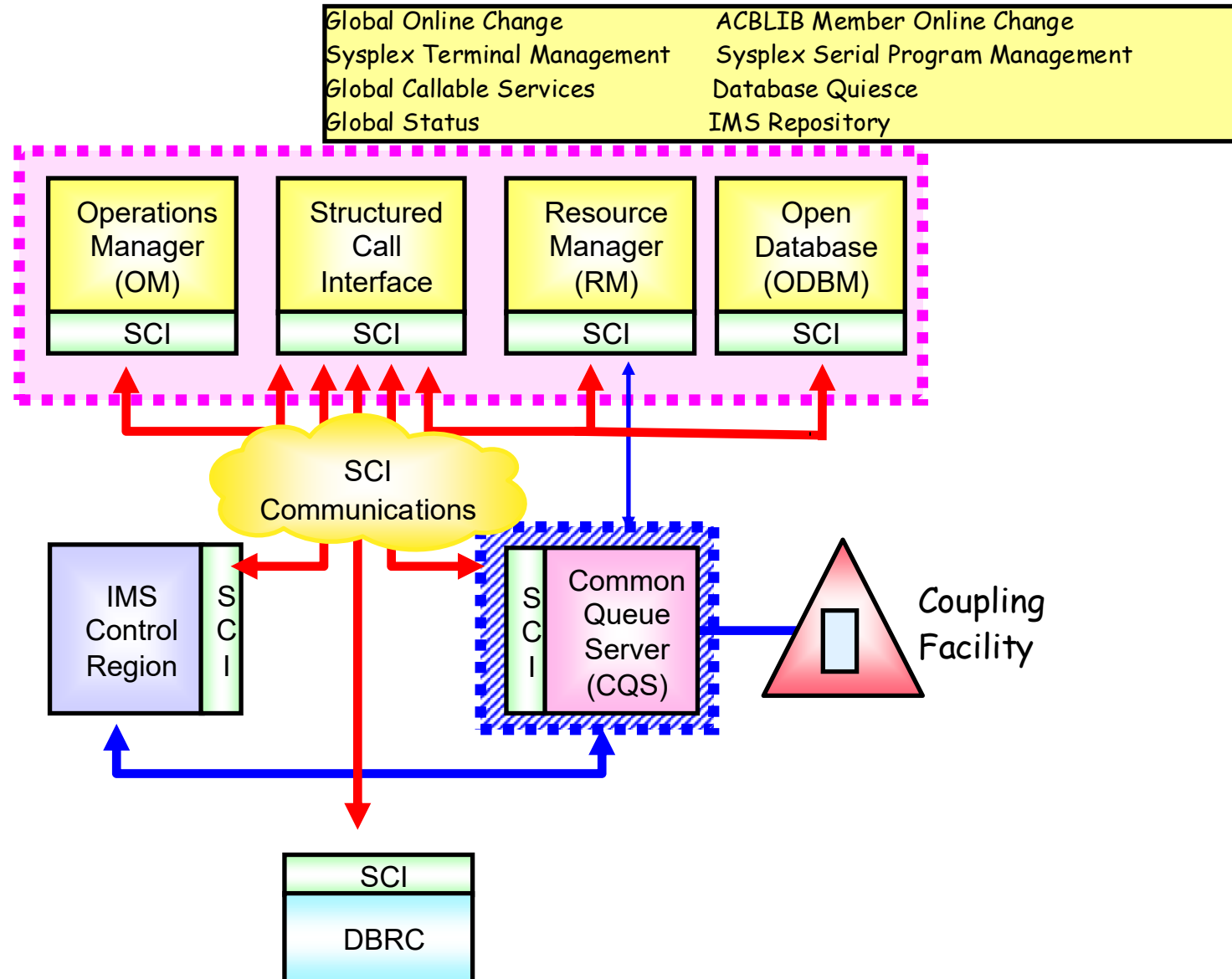
# IMS Resource Manager – Started Task JCL

```
EDIT          SVTSC.PROCLIB(IMS15RM1) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
000032 //IEFPROC EXEC PGM=BPEINI00,REGION=3000K,
000033 // PARM=( 'BPECFG=BPECONFIG', 'BPEINIT=CSLRINI0', 'RMINIT=000',
000034 //          'ARMRST=N', 'RMNAME=RM1' )
000035 //*
000036 //STEPLIB DD DSN=DFSF10.USER.SDFSRESL,DISP=SHR
000037 //          DD DSN=DFSF10.SDFSRESL,DISP=SHR
000038 //PROCLIB DD DSN=VENDOR.PROCLIB,DISP=SHR
000039 //          DD DSN=SVTSC.PROCLIB,DISP=SHR
000040 //          DD DSN=DFSF10.PROCLIB,DISP=SHR
000041 //*
000042 //SYSPRINT DD SYSOUT=*
000043 //SYSUDUMP DD SYSOUT=*
000044 //*
***** ***** Bottom of Data *****
```

# IMS Resource Manager – Infrastructure

```
EDIT          DFSF10.PROCLIB(CSLRI000) - 01.01          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
000001 *-----*
000002 * RM INITIALIZATION PROCLIB MEMBER.                *
000003 *-----*
000004 ARMRST=N,                                       /* SHOULD ARM RESTART RM ON FAILURE */
000005 RMNAME=RM1,                                     /* RM NAME (RMID = RM1RM)           */
000006 IMSPLEX(NAME=PLEX1)                            /* IMSPLEX NAME (CSLPLEX1)         */
000007 *-----*
000008 * REPOSITORY SECTION ADDED 10/01/24                 *
000009 *-----*
000010 <SECTION=REPOSITORY>
000011 * REPOSITORY=(NAME=RSRVNMRP,TYPE=IMSRSC,GROUP=REPXCFGN)
000012 REPOSITORY=(NAME=RSRVNM,TYPE=IMSRSC,GROUP=REPXCFGN)
000013 * AUDITACCESS=NOAUDIT | SECURITY | UPDATE | READ | SYSTEMREAD
000014 *-----*
000015 * END OF MEMBER CSLRI000                             *
000016 *-----*
***** ***** Bottom of Data *****
```

# CSL Architecture – Resource Manager (RM)



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# Dynamic Resource Definition Why?

- Modify IMS Resources using Type 2 commands without IMS sysgen
  - IMS Transaction Manager Meta Data
    - Communications
    - Programs
    - Transactions
  - IMS Database Manager



# IMS Dynamic Resource Definition – Requirements

- Structure Call Interface
- Operations Manager
- Resource Manager
- Repository Server
- SPOC

# IMS Dynamic Resource Definition – Infrastructure (DRD)

```
EDIT          DFSF10.PROCLIB(DFSDF000) - 01.09          Columns 00001 00072
Command ==>          Scroll ==> CSR
000031 *-----*
000032 * DYNAMIC RESOURCES SECTION                               *
000033 *-----*
000034 <SECTION=DYNAMIC_RESOURCES>
000035 AUTOEXPORT=AUTO          /* AUTO EXPORT RESOURCES TO RDDS */
000036 AUTOIMPORT=AUTO         /* AUTO IMPORT RESOURCES FR RDDS */
000037 * UPDATED AUTOXXX VALUES TO REPO FROM AUTO             *
000038 * RDDSDSN=(                                               *
000039 * DFSF10.MODBLKSA.RDDS)                                   *
000040 * DFSF10.RDDS1,    NEW MODBLKSA RDDS ADDED ABOVE IS VSAM AS *
000041 * DFSF10.RDDS2,    SEQUENTIAL FORMATTING IS OUTDATED.     *
000042 * DFSF10.RDDS3)    ALTERED 10/01/24                       *
000043 *-----*
```

# IMS Dynamic Resource Definition – Infrastructure (DRD)

```
EDIT          DFSF10.PROCLIB(DFSDF000) - 01.09          Columns 00001 00072
Command ==>          Scroll ==> CSR
***** Top of Data *****
000001 *-----*
000002 * REPOSITORY SECTION - ADDED 10/01/24 *
000003 *-----*
000004 <SECTION=REPOSITORY>
000005 REPOSITORY=(TYPE=(IMSRSC))
000006 *-----*
```

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# Open Database Manager Why?

- Supports open standards for distributed and local Java application program connectivity to IMS databases
- Provides the following services
  - IMS Universal Drivers
  - Works with IMS Connect using DRDA for distributed access (type-4 JDBC drivers)
  - Works through DRA (Database Resource Adapter) interface for local access within a z/OS LPAR or across z/OS LPARs (type-2 JDBC drivers)
- Used for the following functions
  - Open Database access
- One ODBM address space is required on each z/OS image that contains databases to which ODBM clients (such as the IMS Universal Drivers) require access per IMSplex

# Open Database Manager Setup

- One ODBM address space is required on each z/OS image that contains databases to which ODBM clients (such as the IMS Universal Drivers) require access per IMSplex
- ODBM started task JCL found in IMS.PROCLIB (CSLODBM)
- Each ODBM address space
  - Executes BPEINI00
  - ODBM initialization module
    - BPEINIT=CSLDINI0
  - ODBM PROCLIB member CSLDIxxx
    - ODBMINIT=xxx
  - Each instance of ODBM has a different initialization PROCLIB member to specify its unique ODBM name (and IMSplex name)

# IMS Open Database Manager – Started Task JCL

```
EDIT          SVTSC.PROCLIB(IMS150D1) - 01.00          Columns 00001 00072
Command ==>                                         Scroll ==> CSR
000003 //*****
000004 //IMS150D1  PROC BPECFG=BPEODBM,
000005 //          ODBMINIT=000,
000006 //          CSLDI=CSLDINI0,
000007 //          PARM1='RRS=Y,ARMRST=N'
000008 //*
000009 //ODBM      EXEC PGM=BPEINI00,REGION=0M,TIME=NOLIMIT,
000010 //  PARM='BPECFG=&BPECFG,BPEINIT=&CSLDI,ODBMINIT=&ODBMINIT,&PARM1'
000011 //STEPLIB  DD   DSN=DFSF10.SDFSRESL,DISP=SHR
000012 //          DD   DSN=SYS1.CSSLIB,DISP=SHR
000013 //PROCLIB   DD   DSN=DFSF10.PROCLIB,DISP=SHR
000014 //SYSPRINT DD   SYSOUT=X
000015 //SYSUDUMP DD   SYSOUT=X
000016 //CCTLSNAP DD   SYSOUT=X
***** ***** Bottom of Data *****
```

# IMS Open Database Manager – Infrastructure

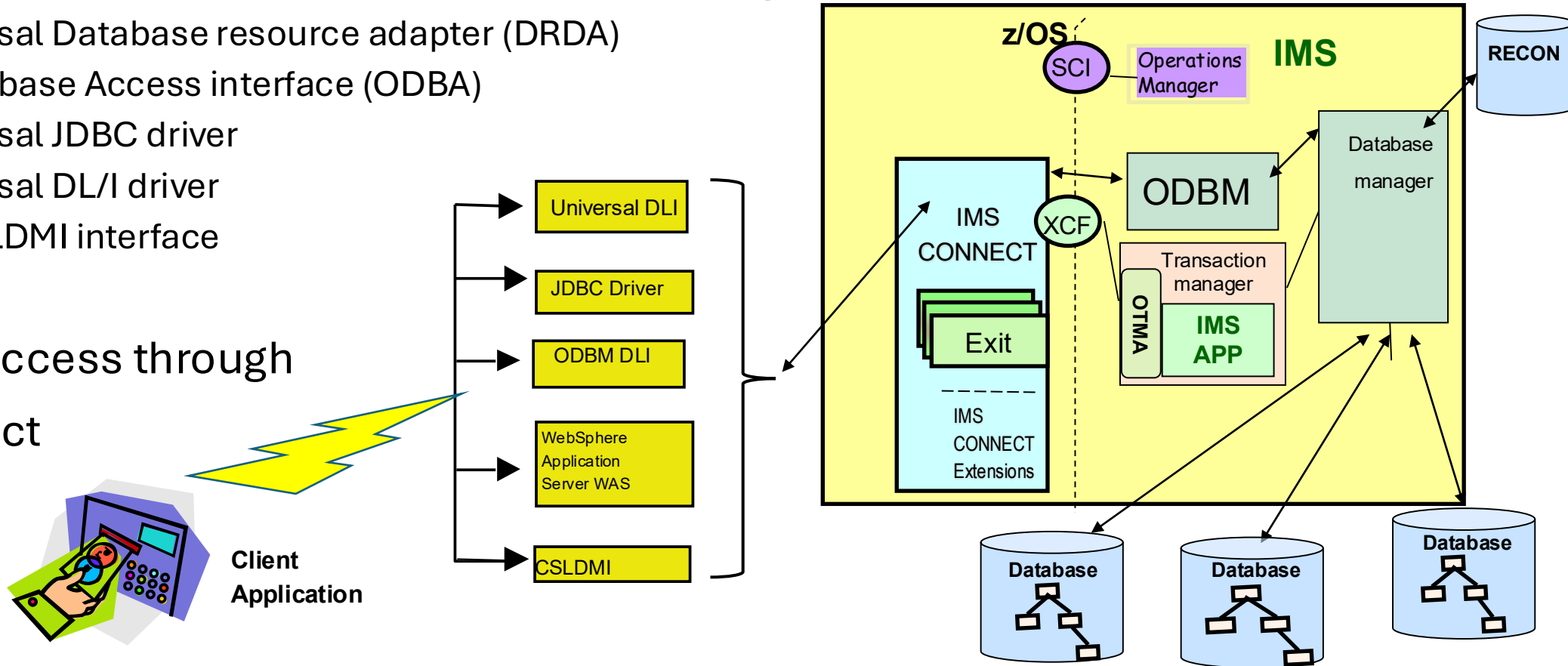
```
EDIT          DFSF10.PROCLIB(CSLDI000) - 01.01          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000013 *****
000014 ODBMNAME=IVP1
000015 IMSPLEX(NAME=PLEX1)
000016 ODBMCFG=000
***** Bottom of Data *****
```

# IMS Open Database Manager – Infrastructure

```
EDIT          DFSF10.PROCLIB(CSLDC000) - 01.02          Columns 00001 00072
Command ==>           Scroll ==> CSR
000054 *****
000055 <SECTION=LOCAL_DATASTORE_CONFIGURATION>
000056 ODBM(NAME=IVP1
000057 DATASTORE(NAME=IVP1
000058 ALIAS(NAME=IVP1)
000059 MAXTHRDS=10
000060 MINTHRDS=3
000061 )
000062 )
***** Bottom of Data *****
```

# Open Database Manager Access - ODBM

- Implemented with Common Service Layer
- Allows database access outside of dependent region
  - IMS Universal Database resource adapter (DRDA)
  - Open Database Access interface (ODBA)
  - IMS Universal JDBC driver
  - IMS Universal DL/I driver
  - ODBM CSLDMI interface
- Security & Access through IMS Connect



# IMS Common Service Layer – Infrastructure

```
EDIT          DFSF10.PROCLIB(DFSDF000) - 01.09          Columns 00001 00072
Command ==>          Scroll ==> CSR
000020 *-----*
000021 * COMMON SERVICE LAYER SECTION                      *
000022 *-----*
000023 <SECTION=COMMON_SERVICE_LAYER>
000024 CMDSEC=N                      /* NO CMD AUTHORIZATION CHECKING */
000025 IMSPLEX=PLEX1                  /* IMSPLEX NAME                    */
000026 MODBLKS=DYN                    /* DRD ENABLED;MODBLKS OLC DISABLE */
000027 OMPROC=IMS150M1                /* OPERATIONS MANAGER              */
000028 RMENV=Y                        /* RESOURCE MANAGER ENABLED         */
000029 RMPROC=IMS15RM1                 /* RESOURCE MANAGER PROC            */
000030 SCIPROC=IMS15SCI               /* SERVICE CALL INTERFACE           */
000031 *-----*
```

# Common Service Layer in Action!!!



Create resources (programs and transactions) in an instant via TSO SPOC!!!

Go to Option 6 for ISPF Command Shell, and enter..  
**EXEC 'imshlq.SDFSEXEC(DFSAPPL)' 'HLQ(imshlq)'**

```
Help
-----
                                IMS Application Menu
Command ==> █
-----
Select an application and press Enter.

1  Single Point of Control (SPOC)
2  Manage resources
3  Reserved for future use
4  HALDB Partition Definition Utility (PDU)
5  Syntax Checker for IMS parameters (SC)
6  Installation Verification Program (IVP)
7  IVP Export Utility (IVPEX)
8  IPCS with IMS Dump Formatter (IPCS)
9  Abend Search and Notification (ASN)

To exit the application, press F3.
```

And then select Option 1 for Single Point of Control (SPOC)

PLEX1 IMS Single Point of Control

Command ==>

Plex . . PLEX1 Route . . IVP1 Wait . .

Response for: CREATE PGM NAME(PGM00001) SET(BMPTYPE(Y))

PgmName	MbrName	CC
PGM00001	IVP1	0

# CREATE a new program

PLEX1

IMS Single Point of Control

Command ==> █

---

Plex . . PLEX1    Route . . IVP1    Wait . .

Response for: QUERY PGM NAME(PGM00001) SHOW(ALL)    More: >

PgmName	MbrName	CC	LRgnType	LBMPType	LFP	LDOPT	LGPSB	LRsdnt	LTranStat	LPgmLa
PGM00001	IVP1	0	BMP	Y	N	N	N	N	N	

# QUERY a new program

```

SDSF SYSLOG      3322.101 SOW1 SOW1 02/16/2026 2W          4,827  COLUMNS 52- 131
COMMAND INPUT ==> █
0090  IEE600I REPLY TO 05 IS:/DIS PGM PGM00001
0090  DFS000I      PROGRAM      TRAN      TYPE      IVP1
0090  DFS000I      PGM00001          BMP  NOTINIT  IVP1
0090  DFS000I      *26047/111504*  IVP1
0090  *06 DFS996I *IMS READY*  IVP1

```

```

PLEX1                      IMS Single Point of Control
Command ==> █
-----
Plex . . PLEX1  Route . . IVP1  Wait . .
Log for . . : DIS PGM PGM00001

IMSpdex . . . . . : PLEX1
Routing . . . . . : IVP1
Start time . . . . : 2026.051 13:30:59.71
Stop time . . . . . : 2026.051 13:30:59.71
Return code . . . . : 00000000
Reason code . . . . : 00000000
Reason text . . . . :
Command master . . : IVP1

MbrName  Messages
-----
IVP1     PROGRAM      TRAN      TYPE
IVP1     PGM00001          BMP  NOTINIT
IVP1     *26051/133059*

```

/DIS PGM (pgmname)

```
PLEX1                IMS Single Point of Control
Command ==> █
-----
Plex . . PLEX1  Route . . IVP1  Wait . .
Response for: CREATE TRAN NAME(TRN123) SET(PGM(PGM00001) CLASS...
Trancode MbrName      CC
TRN123   IVP1         0
```

# CREATE a new transaction

```

PLEX1                IMS Single Point of Control
Command ==> █
-----
Plex . . PLEX1  Route . . IVP1  Wait . .
Response for: QUERY TRAN NAME( TRN123) SHOW(ALL)  More: >
Trancode MbrName  CC LPSBname LCls  LQCnt  LLCT  LPLCT  LPLCTTime  LCPRI  LNPRI
TRN123   IVP1    0 PGM00001   3     0  65535  65535   6553500    0     0

```

# QUERY a new transaction

```

SDSF SYSLOG 3322.102 SOW1 SOW1 02/20/2026 2M 981 COLUMNS 52- 131
COMMAND INPUT ==>
0090 IEE600I REPLY TO 06 IS:/DIS TRAN TRN123
0090 DFS000I TRAN CLS ENQCT QCT LCT PLCT CP NP LP SEGSZ SEGNO
PARLM RC IVP1
0090 DFS000I TRN123 3 0 0 65535 65535 0 0 0 0 0
NONE 0 IVP1
0090 DFS000I PSBNAME: PGM00001 IVP1
0090 DFS000I *26051/134712* IVP1
0090 *07 DFS996I *IMS READY* IVP1

```

```

IMS Single Point of Control
Command ==>
-----
Plex . . PLEX1 Route . . IVP1 Wait . .
Log for . . : DIS TRAN TRN123 More: >
IMSpdex . . . . . : PLEX1
Routing . . . . . : IVP1
Start time . . . . : 2026.051 13:36:55.57
Stop time . . . . . : 2026.051 13:36:55.57
Return code . . . . : 00000000
Reason code . . . . : 00000000
Reason text . . . . :
Command master . . : IVP1
MbrName Messages
-----
IVP1 TRAN CLS ENQCT QCT LCT PLCT CP NP LP SEGSZ SEGNO PARLM
IVP1 TRN123 3 0 0 65535 65535 0 0 0 0 0 NONE
IVP1 PSBNAME: PGM00001
IVP1 *26051/133655*

```

/DIS TRAN (tranname)



# In Conclusion...

- Common Service Layer is part of the evolving IMSplex architecture
- Required to take advantage of many new IMS functions
- Improvements for Operations Management
- Improvements for Resource Management
- Improvements for IMS Database access
- Begin implementing CSL now under your current IMS version so you can exploit many new IMS functions now as well as when you migrate to new versions



Questions?

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Thank you!!!

# Your feedback is important!

Submit a session evaluation for each session you attend:

[www.share.org/evaluation](http://www.share.org/evaluation)



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# Appendix:

- <https://www.ibm.com/docs/en/ims/15.6.0?topic=overview-csl-configuration-examples>
- <https://www.ibm.com/docs/en/ims/15.6.0?topic=cdt-defining-common-service-layer-using-ims-proclib-data-set-members>
- <http://ibm.com/docs/en/ims/15.5.0?topic=tailoring-sequence-starting-csl-address-spaces>
- <https://www.ibm.com/docs/en/ims/15.6.0?topic=overview-defining-tailoring-imsplex>
- <https://www.ibm.com/docs/en/ims/15.6.0?topic=ims-controlling-tso-spoc-application>
- <https://www.ibm.com/docs/en/ims/15.6.0?topic=administrator-base-primitive-environment-overview>
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