

Don't be afraid of change

IBM IMS Configuration Manager for z/OS

James Martin
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Overview

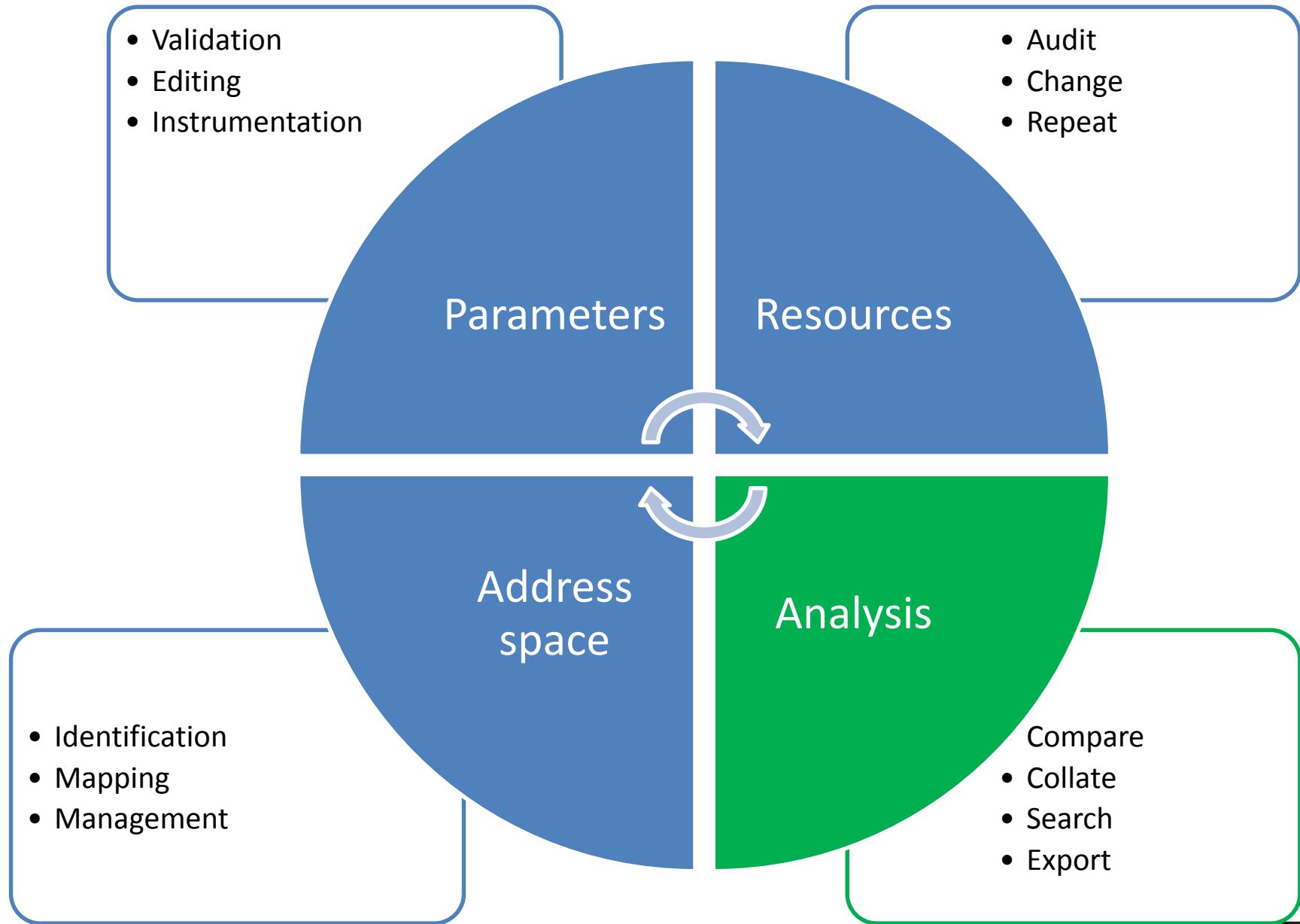
- IMS is continuously introducing new features that help improve access and responsiveness:
 - Transition to a GENless environment: DRD, repository, Catalog
 - Command-based administration
 - Open database access
- Collectively, these improvements help you make changes to IMS rapidly, effectively and provide unparalleled options for application developers
- But how well positioned are you to leverage these opportunities?

Fears

- Inertia: the cost of change verses the benefit realized from that change
- Uncertainty: Poorly understood in-house processes combined with fear of your IMS environment
- Reality: the need to balance agility with reliability, auditability, and compliance

Solution

- IMS CM helps you realize the potential benefit of new IMS capabilities quickly and easily
- *The result is **not** another set of in-house customizations*
- Instead, you get an IBM-supported enterprise-grade solution for managing MODBLKS resources and IMS parameters that:
 - Transparently evolves as IMS evolves
 - Provides the necessary audits, controls, and documentation



Auto discovery of IMS Systems

- IMS Configuration maps an entire IMS topology in seconds

File Help

Empty member list

System Member List

Command ==> _____ Scroll ==> [PAGE](#)

Enter NEW to create a new Member

/	Name	Type	IMSprix	VV.R	Description
*	*	*	*	*	
***** Bottom of data *****					

VIEW GPL210.DEVT.SGPLSAM(GPLDSCVR) - 01.25

Command ==> _____

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

```

000001 //GPLDSCVR JOB ,CLASS=A,NOTIFY=&SYSUID
000002 //GPLUTIL EXEC PGM=GPLUTIL
000003 //STEPLIB DD DISP=SHR,DSN=<HLQ.V2R1M0.SGPLLINK>
000004 // DD DISP=SHR,DSN=<HLQ.VnRnMn.SDFSRESL>
000005 //SYSIN DD *
000006 *
000007 DISCOVER TO(REPOSITORY,GPLREPOS)
000008 /*
000009 //GPLREPOS DD DISP=SHR,
000010 // DSN=<HLQ.V2R1M0.REPOSTRY>
000011 //SYSPRINT DD SYSOUT=*
000012 //
***** ***** Bottom of Data *****

```

+ Discovery job

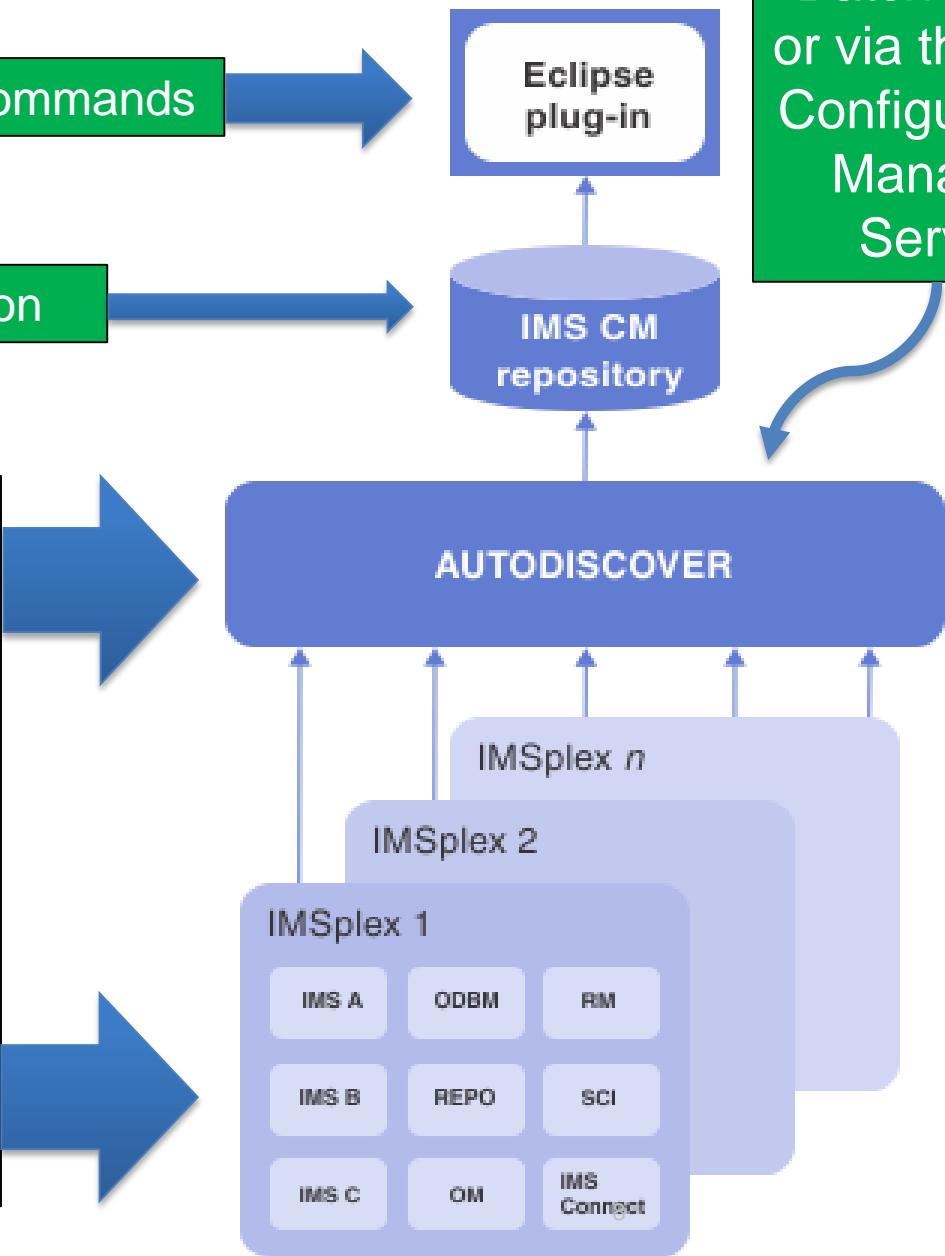
Automated IMS Systems Topology Mapping

Runs as a Batch Utility or via the IMS Configuration Manager Server

List, View, Compare, and Issue Commands

Store their complete configuration

- Identify IMSplexes, IMS systems, and IMS Connect across all LPARs
- Find systems without a PLEX (on the same MVS LPAR)
- Map CSL address spaces, PROCLIBs, and MODBLK resources



Complete IMS topology

File Help

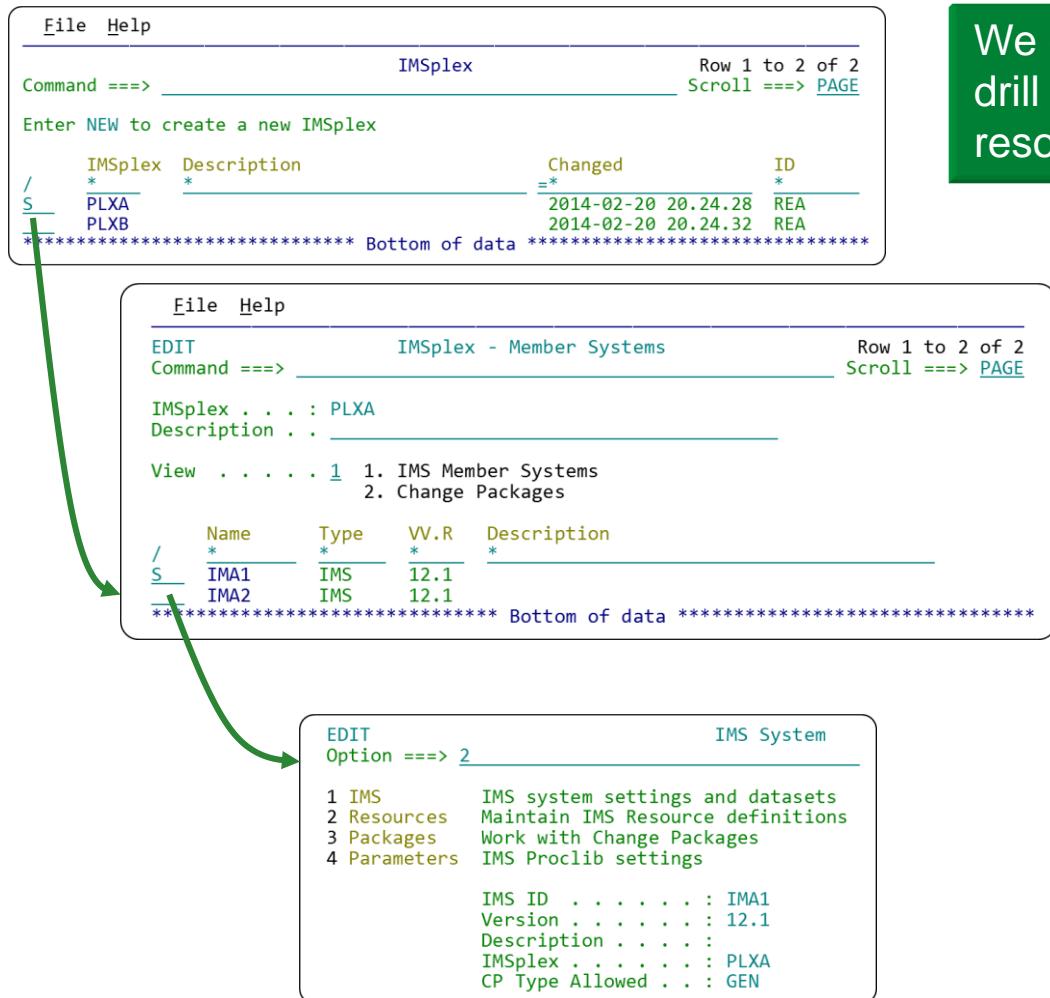
System Member List

Row 1 of 103 More: <>

Command ==> [Scroll ==> PAGE](#)

Enter NEW to create a new Member

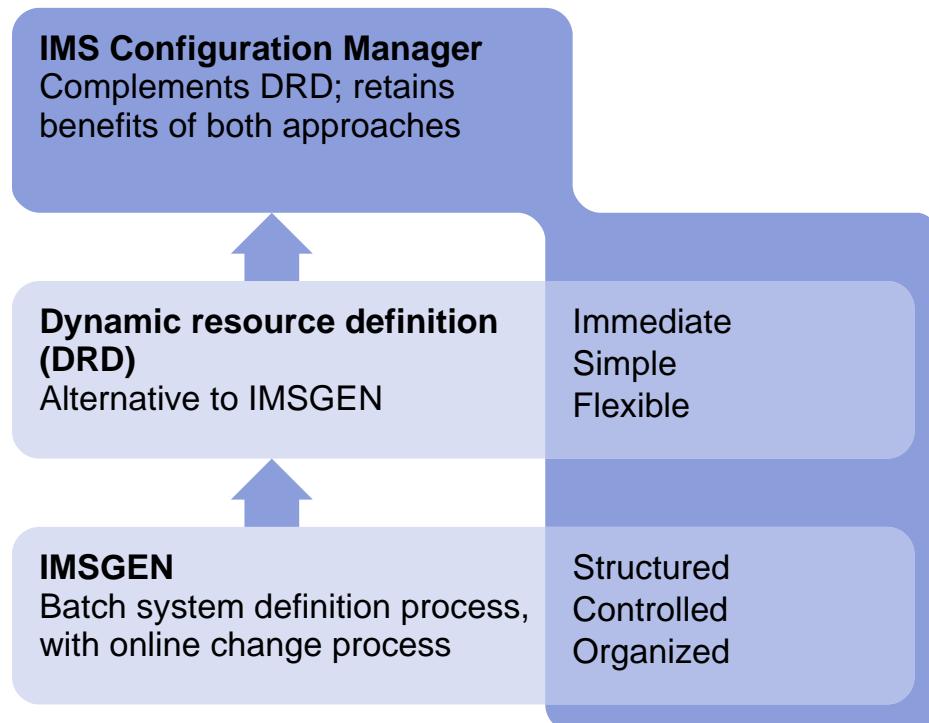
/	Name	Type	IMSprix	VV.R	Description
	CACTHWS0	IMSCON		10.1	
	CDQ1SC	SCI	PLCDH	1.5	
	DCH1OD	ODBM	PLCDH	1.2	
	DCJ1OD	ODBM	PLCDJ	1.2	
	DCJ1OM	OM	PLCDJ	1.5	
	DCJ2OD	ODBM	PLCDJ	1.2	
	DDH1OM	OM	PLDDH	1.6	
	DDJ1OD	ODBM	PLDDJ	1.3	
	DDJ1OM	OM	PLDDJ	1.6	
	IBDP	IMS	PLXDP	11.1	
	IBDR	IMS	PLBDP	11.1	
	ICDH	IMS	PLCDH	12.1	
	ICDJ	IMS	PLCDJ	12.1	
	ICDP	IMS	PLXDP	12.1	
	ICDQ	IMS	PLDDQ	12.1	
	ICDR	IMS	PLCDP	12.1	
	ICMIC00	IMSCON	+3	12.1	
	ICMIC01	IMSCON		12.1	
	ICMIC02	IMSCON	PLXDP	13.1	



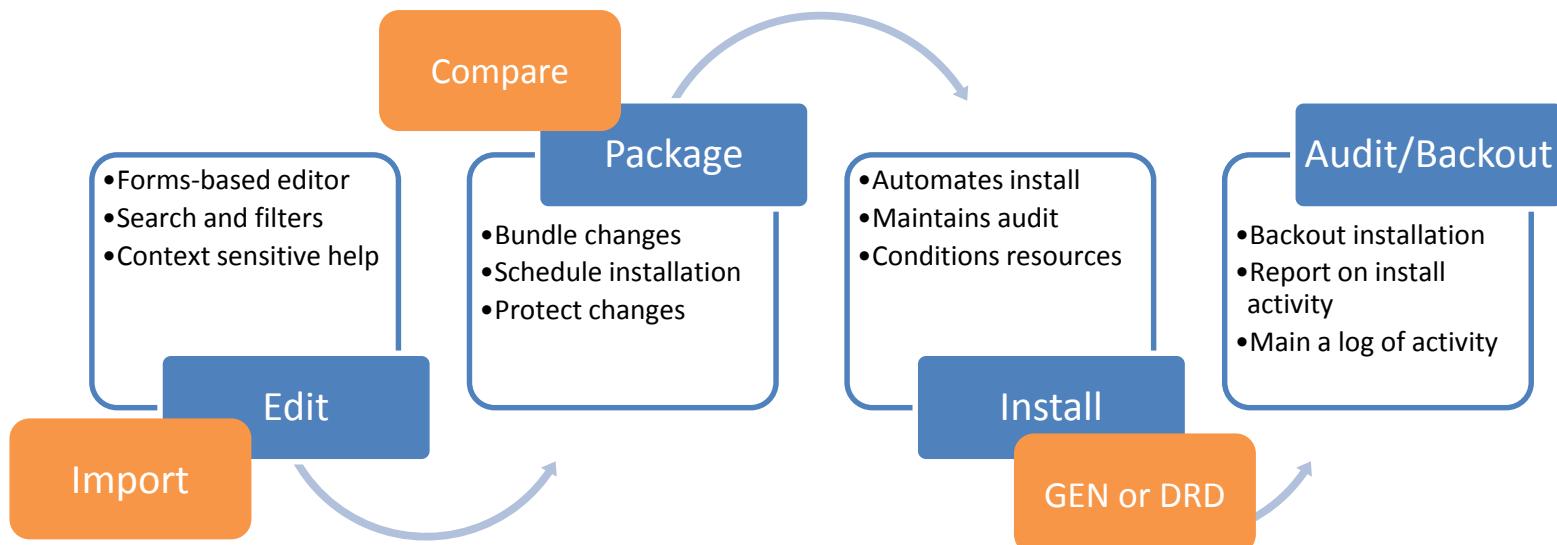
We can browse through the PLEX and drill down to systems and their resources

Example: DRD

- DRD offers a more modern approach to application development and management
- Reduces the need for performing an IMSGEN
- More flexible and immediate than an online change
- But there are processes, controls, structures, and dependencies that have developed over years?
- IMS Configuration Manager adds structure to the DRD process.
 - Maintain your processes but gain the benefits of DRD
 - Add a layer of audit and control that allows you to open up the process to developers
 - Automation and reversibility of change process



ICM Processes: updating resources



Structure your process



When ready, bundle changes in a package

Pick individual resources

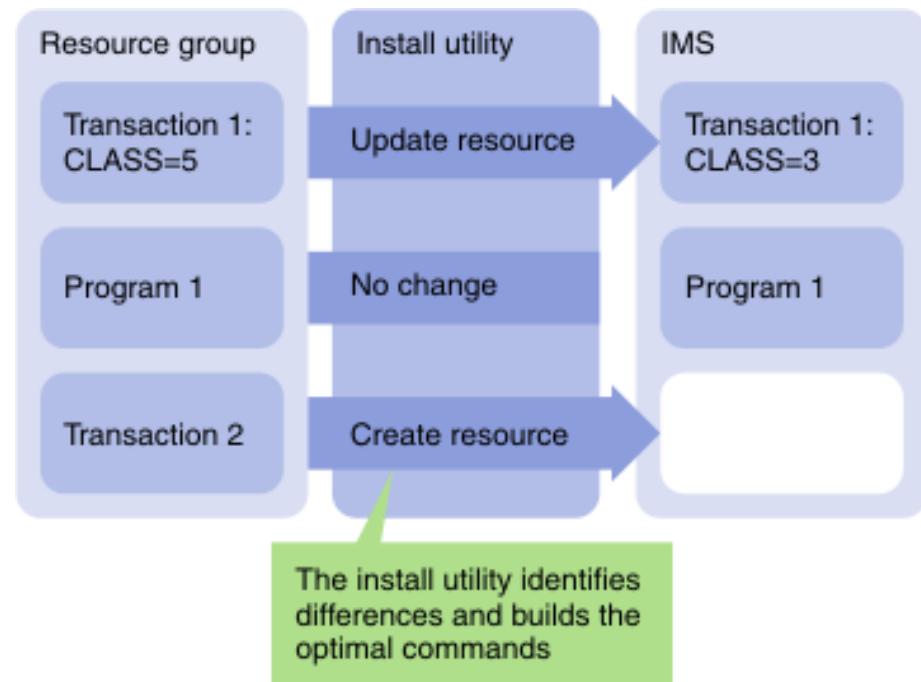
Bundle all resources for a given system

Continue working on the next update cycle

Install the resources

IMS Configuration Manager resource installer

- The installer provides enhanced services on top of the IMS type-2 command interface
- Automatically determines optimum method of install
- Rollback option
- Full-logging of install activity
- Builds and records system image



Resource updates can also be received in batch in the form of stage 1 source

Receives stage 1
Analyzes for differences
Builds change packages

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW      IMPOT00.GPL.WORKSHOP.JCLUTIL(TAKEUS10) - 01.08 Columns 00001 00072
Command ==> Scroll ==> PAGE
000038   COMPARE +
000039     INPUT1(RG('IMPOT21 BASE') +
000040       IMSID(ICDP) +
000041       DDNAME(REPOSITORY,OUTREPOS)), +
000042     INPUT2(RG('EMPTY RG') +
000043       DDNAME(REPOSITORY,OUTREPOS)), +
000044     UPDCP(NAME('IMPOT21 Updates APP A') +
000045       IMSID(ICDP) +
000046       MATCH(INPUT1) +
000047       NOMATCH(INPUT1(CREATE_RES),INPUT2(DELETE_RES)) +
000048       UPDREPOS(INPUT1))
000049 /*
000050 /**
***** ***** Bottom of Data *****
```

Example: Parameter management

- Configuration
 - 35 members
 - 890 parameters and sub-parameters in these members
 - 157 parameters introduced in V12 and V13
- Interdependencies
- Implemented on unmapped topologies
- Address: inventory, map relationships, relate to functional change, validate

IMS Parameter management

Command ===> IMSprix Row 1 to 16 of 16
 Scroll ===> PAGE

Enter NEW to create a new IMSprix

/	IMSprix	Description	Changed	ID
	*	*	=*	*
	PLBDP		2015-01-28 08.25.25	DISCOVER
	PLCDH		2015-01-28 08.25.25	DISCOVER
	PLCDJ		2015-01-28 08.25.25	DISCOVER
	PLCDP		2015-01-28 08.25.25	DISCOVER
	PLDDH		2015-01-28 08.25.25	DISCOVER
	PLDDJ		2015-01-28 08.25.25	DISCOVER
	PLDDQ		2015-01-28 08.25.25	DISCOVER
	PLEDH		2015-01-28 08.25.25	DISCOVER
	PLEDJ		2015-01-28 08.25.25	DISCOVER
	PLXDE		2015-01-28 08.25.25	DISCOVER
	PLXDJ		2015-01-28 08.25.25	DISCOVER
	PLXDN		2015-01-28 08.25.25	DISCOVER
	PLXDO		2015-01-28 08.25.25	DISCOVER
	PLXDP		2015-01-28 08.25.25	DISCOVER
	PLXEZ		2015-01-28 08.25.25	DISCOVER
	PLXNU		2015-01-28 08.25.25	DISCOVER

***** Bottom of data *****

Use P (pick) line command to
see active members within an
IMSPlex

IMS Parameter management

Select the system to expand to the relevant parameters

File Help

IMSplex Active Members

Row 1 of 18

Command ===> IMSplex . . . : PLXDP

Scroll ===> CSR

Description . . .

Search for a function

Search . . . ODBM

/ System Prompt Description

+ - IMS

- - IMSCON

+ - ICMIC00

+ - S ICMIC02

- - ODBM

+ - S3XDPOD

- - OM

 - S1XDPOM

 - S3XDPOM

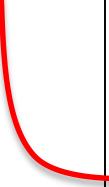
- - RM

 - S1XDPRM

 - S3XDPRM

- - SCI

Result shows all PLEX members with parameters related to this function



Search for a function

Result shows all PLEX members with parameters related to this function

IMS Parameter management

File Help

IMSPlex Active Members

Row 4 of 55

Command ===> PLXDP

Scroll ===> [CSR](#)

IMSprix . . . : PLXDP

Description . . :

Search . . ODBM

Impact
on IMS
Connect

/ System	Prompt	Description
- ICMIC02		See parameters even if they are not physically in the member
- HWSCFG02		
- DRDAPORT=...		Port used for Open Database APIs and DRDA
- ODACCESS=...		Communication between ODBM, DRDA clients
- ODBMAUTOCONN=...		IMS Connect automatically to ODBM
- ODBMTMOT=...		Amount of time that IMS Connect waits
- IMSPLEX (MEMBER=ICMI2XDP, TMEMBER=PLXDP)		
- ODBM		
- S S3XDPOD		Additional CSL address spaces required for function
- CSLDIPS3		
- ARMREST=...		whether the z/OS ARM restarts the ODBM
- ** THE ODBMCFG=PS3 EXEC parameter or in this PROCLIB member		

Select
the
member
to edit it



IMS Parameter management

Additional features:
CHECK, and MODEL...

Standard ISPF edit

EDIT PLXDP.PROCLIB(CSLDIPS3) - 01.04
Command ==> Columns 00001 00072
CHECK Validate the member syntax
MODEL Insert a new parameter with syntax assistance
HELP Press F1 to request parameter sensitive help
***** ***** Top of Data *****
00001 *****
00002 ** This PROCLIB member is specified by the ODBMINIT=PS3 *
00003 ** value on the ODBM start up procedure. *
00004 **
00005 ** Parameters specified here are used for ODBM initialization. *
00006 **
00007 ** ODBM configuration parameters are specified in the *
00008 ** CSLDCPS3 PROCLIB member which can be specified by either *
00009 ** THE ODBMCFG=PS3 EXEC parameter or in this PROCLIB member *
00010 ** ON THE ODBMCFG=PS3 parameter. *
00011 **
00012 *****
00013 ODBMNAME=S3XDP
00014 IMSPLEX(NAME=PLXDP)
00015 ODBMCFG=PS3
00016 RRS=Y
***** ***** Bottom of Data *****

IMS Parameter management

MODEL allows you to add the functions for the feature in place
(direct editing of the member)

Select a parameter

Row 1 to 11 of 11

Command ==> _____

Select one or more parameters then press EXIT.

Parameter	Description
.	ADAPTER
.	DATASTORE
.	HWS
.	IMSPLEX
.	ISC
.	MSC
S	ODACCESS
.	RMTCICS
.	RMTIMSCON
.	RUNOPTS
.	TCPIP

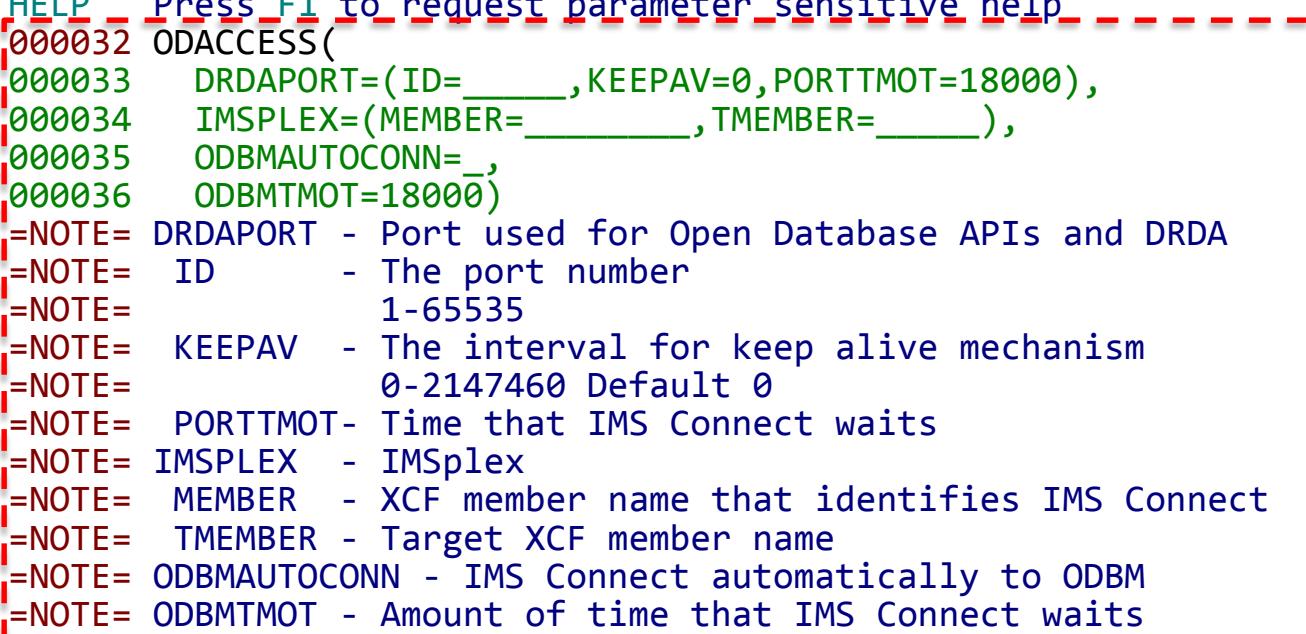
***** Bottom of data *****

IMS Parameter management

Parameters are inserted in place with context sensitive help and validation

File Edit Edit_Settings Help

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=_____,T MEMBER=_____),
 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= T MEMBER - Target XCF member name
 =NOTE= ODBMAUTOCONN - IMS Connect automatically to ODBM
 =NOTE= ODBMTMOT - Amount of time that IMS Connect waits



IMS Parameter management

Complete Help available in-context: no need for searching through multiple IMS manuals

Help - ODBMNAME (CSLDIxxx)

More: +

ODBMNAME=

Specifies the 1- to 6-character name of the ODBM address space. You can specify the ODBMNAME parameter on either the CSLODBM startup procedure or in the CSLDIxxx member of the IMS PROCLIB data set. Each instance of ODBM in an IMSplex must have a unique ODBMNAME.

For each ODBMNAME, ODBM creates an eight-character ODBMID that identifies the instance of ODBM within the IMSplex. The ODBMID is the ODBMNAME followed by the characters "OD" and any blank spaces that ODBM needs to add to make the ODBMID eight characters in length.

For example, if you specify an ODBMNAME that is three characters long, ODBM creates the eight-character ODBMID by appending the characters OD to the ODBMNAME and then padding the ODBMID with three blank spaces. If ODBMNAME=ABC, ODBM creates an ODBMID of "ABCODbbb", in which b represents a blank space.

If you specify the ODBMNAME parameter in the CSLDIxxx member of the IMS PROCLIB data set, you must also either define a separate CSLDIxxx member for each instance of ODBM in an IMSplex or specify ODBMNAME in the

IMS Parameter management

File Help

IMSplex Active Members

Row 12 of 55

Command ==> _____

Scroll ==> [CSR](#)

IMSplex . . . : PLXDP

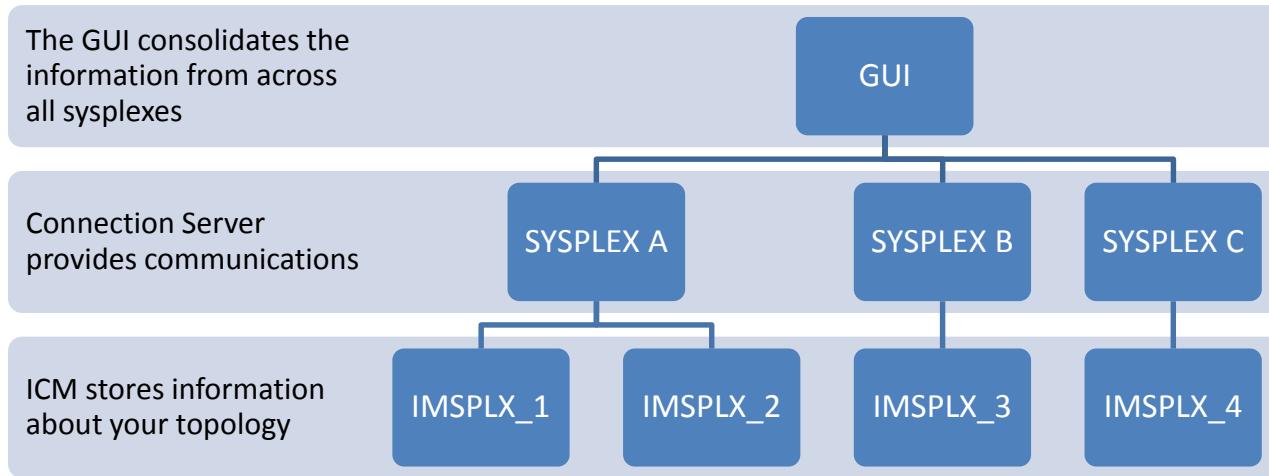
Description . . :

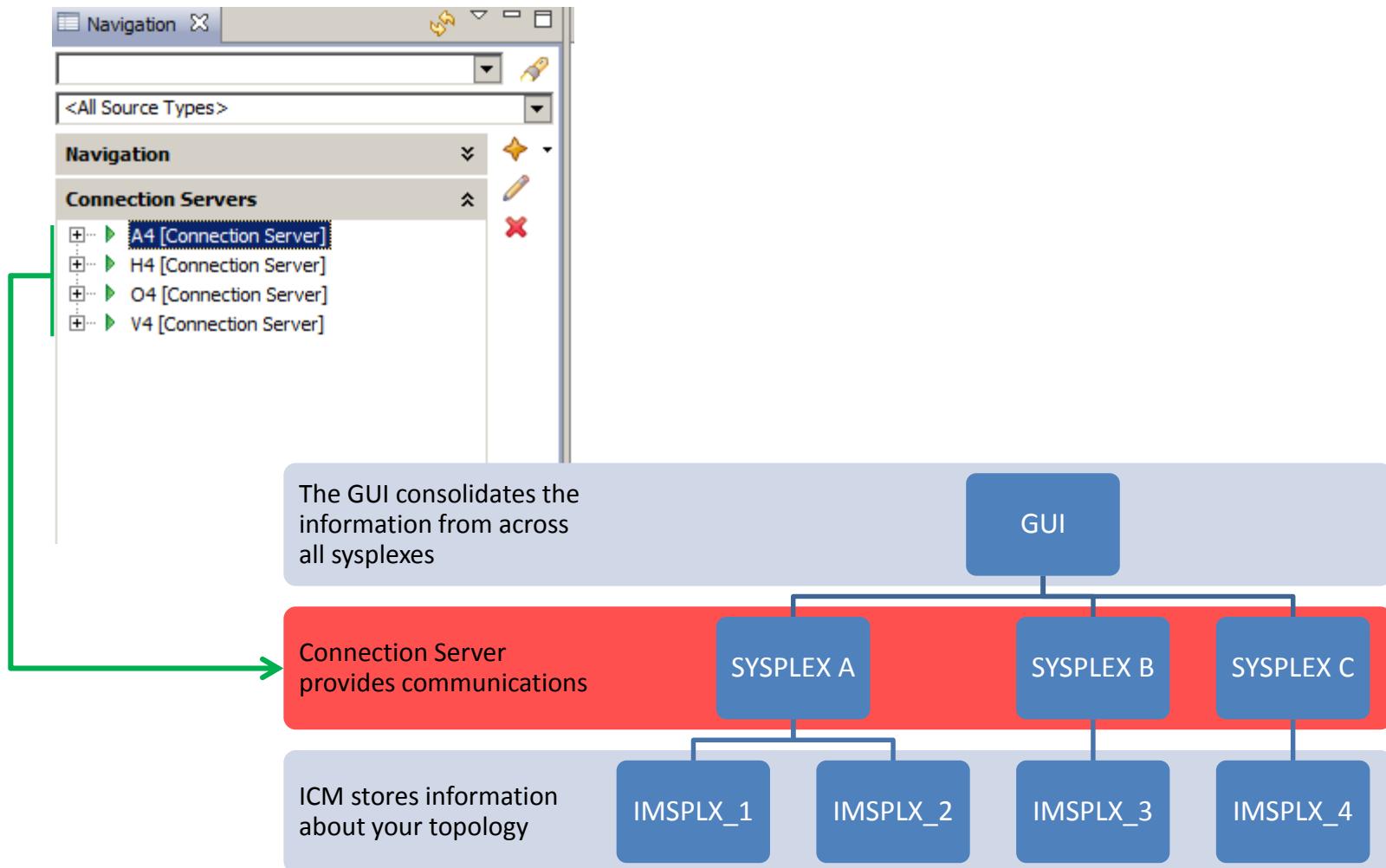
Search . . [ODBM](#)

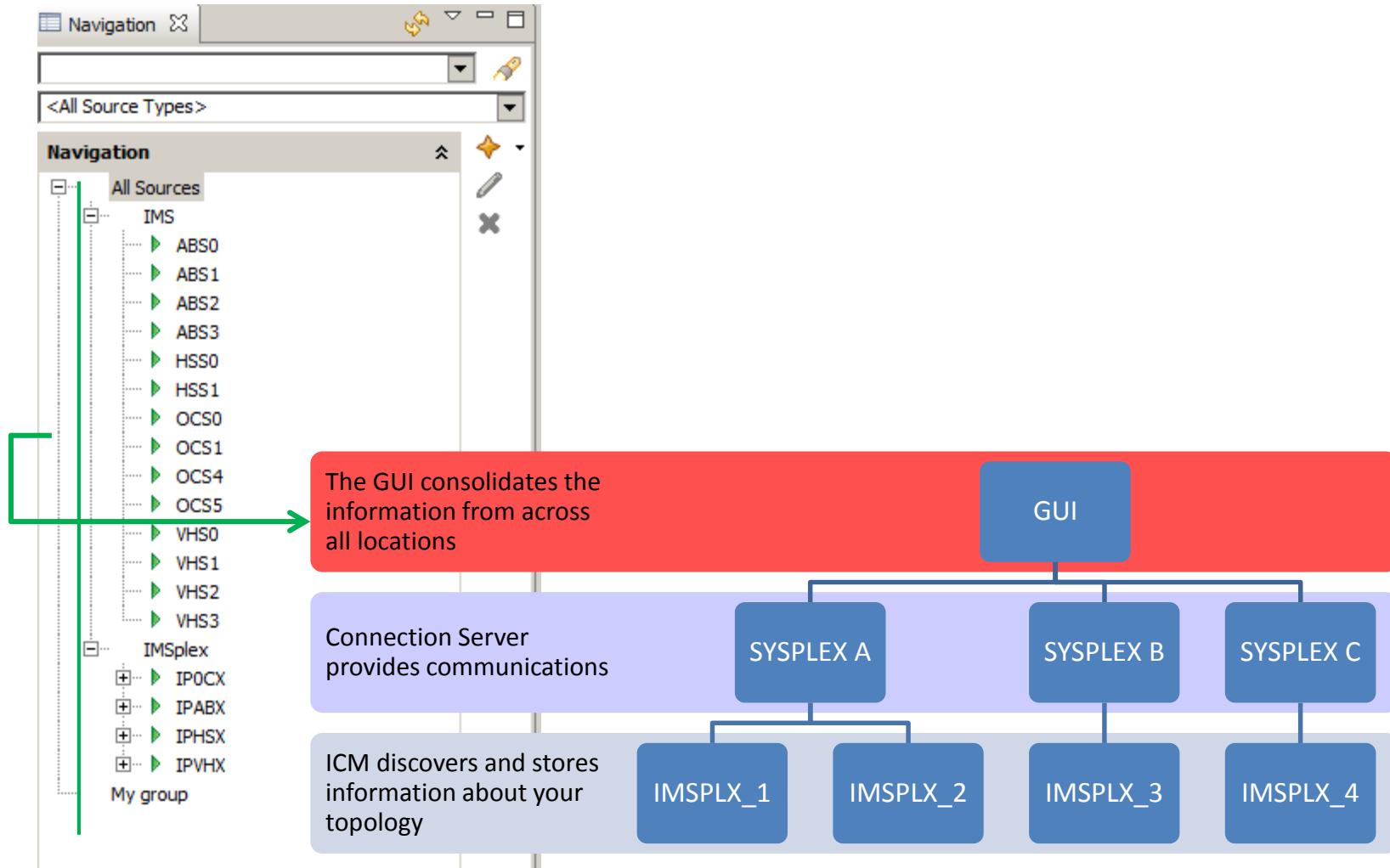
/ System	Prompt	Description
- ODBM		
- - S3XDP0D		
- - - CSLDIPS3		
- - - - ARMRST=...	Whether the z/OS ARM restarts the ODBM	
- - - - ** THE ODBMCFG=PS3 EXEC parameter or in this PROCLIB member		
- - - - ** ON THE ODBMCFG=PS3 parameter.		
- - - - ODBMNAME=S3XDP	The name of the ODBM address space	Easily identify relationships between members
- - - - IMSPLEX(NAME=PLXDP)		
- - - - IMSPLEX(NAME=PLXDP)		
- - - - CSLDCPS3		
- - - - <SECTION=LOCAL_DATASTORE_CONFIGURATION>		
- - - - - ODBM (Attribute specifications for the data store	
- - - - - H NAME=S3XDP,	ODBM, DATASTORE, and ALIAS subparameter	
- - - - - DATASTORE(NAME=IDDP,		
- - - - - ALIAS(NAME=DDP1,NAME=DDP2,NAME=DDP3)		

Help is also available in context (H line action)

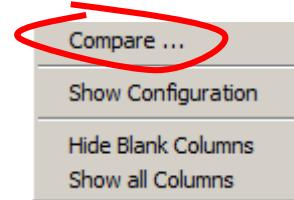
GUI consolidates information







Compare configuration across all plexes to make sure you are using the best system configuration for evaluation



MemberName	APPLID1	CPLLOG	CSAPSB	CSLG	DBRCNM	DBWP	DC	DLIPSB	DMB	DSCT	FBP	FRE	IRLM	LSO	LUMC	LUMP	MAXPST	OTMAASY	OTMANM	PINCR	PIMAX	
DFSPB00M	IMABIMS0	500K	4500K	0BA	ABS0XDRG	32	00M	15M	400	M	7M	1200	Y	S			990	S	IMABIMS0	4	2000	
DFSPB01M	IMABIMS1	500K	4500K	0BA	ABS1XDRG	32	01M	15M	400	M	7M	1200	Y	S			990	S	IMABIMS1	4	2000	
DFSPB02M	IMABIMS2	500K	4500K	0BA	ABS2XDRG	32	02M	15M	400	M	7M	1200	Y	S			990	S	IMABIMS2	4	2000	
DFSPB03M	IMABIMS3	500K	4500K	0BA	ABS3XDRG	32	03M	15M	400	M	7M	1200	Y	S			990	S	IMABIMS3	4	2000	
DFSPB00H	IMHSIMS0	16M	2000	0SH	HSS0XDRG	28	00H	6000	400	H	400	1000	N	S			800		IMHSIMS0	4	2000	
DFSPB01H	IMHSIMS1	16M	2000	0SH	HSS1XDRG	28	01H	6000	400	H	400	1000	N	S			800		IMHSIMS1	4	2000	
DFSPB00C	IM0CIMS0	16M	3500	0C0	OCS0XDRG	32	00C	500	100	C	3000	4000	N	S	50M	500M	400	S	IM0CIMS0	4	8000	
DFSPB01C	IM0CIMS1	16M	3000	0C0	OCS1XDRG	32	01C	300	100	C	3000	4000	N	S			400	S	IM0CIMS1	4	8000	
DFSPB04C	IM0CIMS4	16M	3000	0C0	OCS4XDRG	32	04C	300	100	C	3000	4000	N	S			400	S	IM0CIMS4	4	8000	
DFSPB05C	IM0CIMS5	16M	3000	0C0	OCS5XDRG	32	05C	300	100	C	3000	4000	N	S			400	S	IM0CIMS5	4	8000	
DFSPB008	IMVHIMS0	16M		0HV	VHS0XDRG		008				8	7M	9000					990	S	IMVHIMS0		
DFSPB018	IMVHIMS1	16M		0HV	VHS1XDRG		018				8	7M	9000					990	S	IMVHIMS1		
DFSPB028	IMVHIMS2	16M		0HV	VHS2XDRG		028				8	7M	9000					800	S	IMVHIMS2		
DFSPB038	IMVHIMS3	16M		0HV	VHS3XDRG		038				8	7M	9000					800	S	IMVHIMS3		

Only show differences; only highlight significant differences

Show:		INEFFECT				ALL		INEFFE				PLID1		AR	
ce	ALOT	AOIS	AOI1		R	R			R	R					

NEW: attribute configuration differences to where they are set

Connection Server - PLXDP [IMSprix] @ DP [Repository] @ PLXDP [Connection Server] (FTS1:30111) - IBM Tools Base Connection Server

File Edit Navigate Project Commands Window Help

Connection Server Resource

Navigation X

Compare All Sources IPOCX [IMSprix] PLXDP [IMSprix] »4

QUERY IMSF <Locate value> <Find value>

Command: QUERY IMSPLEX SHOW(ALL)

IMSprix	MbrName	CC	Member	JobName	Type	Subtype	Version	OSName	Status
CSLPLXDP	S1XDPO	0	CDP3CQS	PLXDPQ	CQS		1.8.0	FTS3	READY,ACTIVE
CSLPLXDP	S1XDPO	0	ACMEPLX	FUDREA	AOP	FUDSRVR	1.4.0	FTS1	ACTIVE
CSLPLXDP	S1XDPO	0	S1XDPO	PLXDPOM	OM		1.6.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	S1XDPRP	PLXDPRS	REPO		1.2.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	ICDP	ICDPCTL	IMS	DBDC	12.1.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	IBDPDBRC	IBDPDBRC	DBRC	001	11.1.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	S3XDPRM	PLXDPRM	RM	MULTRM	1.6.0	FTS3	READY,ACTIVE
CSLPLXDP	S1XDPO	0	S3XDPSC	PLXDPSCI	SCI		1.6.0	FTS3	READY,ACTIVE
CSLPLXDP	S1XDPO	0	IDTCSEVR	IDT#FUD	AOP	FUDSRVR	1.4.0	FTS1	ACTIVE
CSLPLXDP	S1XDPO	0	IBDP	IBDPCTL	IMS	DBDC	11.1.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	DEMONSRV1	JDN#FUD	AOP	FUDSRVR	1.4.0	FTS1	ACTIVE
CSLPLXDP	S1XDPO	0	IDDP	IDDPCTL	IMS	DBDC	13.1.0	FTS3	READY,ACTIVE
CSLPLXDP	S1XDPO	0	CDP1CQS	PLXDPQ	CQS		1.8.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	S1XDPRM	PLXDPRM	RM	MULTRM	1.6.0	FTS1	READY,ACTIVE
CSLPLXDP	S1XDPO	0	S3XDPO	PLXDPOM	OM		1.6.0	FTS3	READY,ACTIVE
CSLPLXDP	S1XDPO	0	FUDDEMO	DAMSP					
CSLPLXDP	S1XDPO	0	S1XDPSC	PLXDPSCI	SCI				

Resources Parameters Commands

Console X

Console

Submit and analyze command output

File Home Insert Page Layout Formulas Data Review View Add-Ins Acrobat

Cut Copy Format Painter Paste Clipboard Font Alignment Number Styles Cells Editing

Calibri 11 A A Wrap Text General Conditional Formatting as Table Cell Styles Insert Delete Format AutoSum Fill Clear Sort & Filter Find & Select

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	IMSpex	SystemName	System	Member	ParmSc	ALOT	AOIS	AOI1	APPC	APPCE	APPLID	ARC	ARMRS	ASOT	AUTO	BSIZ
2	Sort A to Z		IMS	DFSPB00M	INEFFECT		R	R	Y		ISBAIMSO	1		N		
3	Sort Z to A		IMS	DFSPB00N	JCLOVERRIDES											
4	Sort by Color		IMS	DFSPB00N	MEMBER		R	R	Y		ISBAIMSO	1		N		
5	Clear Filter From "IMSpex"		IMS	DFSPB00N	XIMSGEN											
6	Filter by Color		IMS	DFSPB01N	INEFFECT		R	R	Y		ISBAIMS1	1		N		
7	Text Filters		IMS	DFSPB01N	JCLOVERRIDES											
8	Search		IMS	DFSPB01N	MEMBER		R	R	Y		ISBAIMS1	1		N		
9	(Select All)		IMS	DFSPB01N	XIMSGEN											
10	IMBAX		IMS	DFSPB02M	INEFFECT		R	R	Y		ISBAIMS2	1		N		
11	IMCOX		IMS	DFSPB02M	JCLOVERRIDES											
12	IM-HVX		IMS	DFSPB02M	MEMBER		R	R	Y		ISBAIMS2	1		N		
13	IMSHX		IMS	DFSPB02M	XIMSGEN											
14	PLBDP		IMS	DFSPB03M	INEFFECT		R	R	Y		ISBAIMS3	1		N		
15	PLCDH		IMS	DFSPB03M	JCLOVERRIDES											
16	PLCDJ		IMS	DFSPB03M	MEMBER		R	R	Y		ISBAIMS3	1		N		
17	PLCDP		IMS	DFSPB03M	XIMSGEN											
18	PLDDH		IMS	DFSPB00C	INEFFECT		R	R	Y		ISCOIMSO	1		N		
19	PLDDJ		IMS	DFSPB00C	JCLOVERRIDES											
20	PLDDP		IMS	DFSPB00C	MEMBER		R	R	Y		ISCOIMSO	1		N		
21	IMCOX	C010	IMS	DFSPB00C	XIMSGEN											
22	IMCOX	C011	IMS	DFSPB01C	INEFFECT		R	R	Y							
23	IMCOX	C011	IMS	DFSPB01C	JCLOVERRIDES											
24	IMCOX	C011	IMS	DFSPB01C	MEMBER		R	R	Y							
25	IMCOX	C011	IMS	DFSPB01C	XIMSGEN											
26	IMCOX	C014	IMS	DFSPB04C	INEFFECT		R	R	Y							
27	IMCOX	C014	IMS	DFSPB04C	JCLOVERRIDES											
28	IMCOX	C014	IMS	DFSPB04C	MEMBER		R	R	Y		ISCOIMS4	1		N		
29	IMCOX	C014	IMS	DFSPB04C	XIMSGEN											

Export - DFSPB..ALL

Export to CSV;
analyze in Excel

Demonstration: from zero to hero

- We will start with an empty configuration “I know nothing”
- We’ll run discovery to identify our topology
- Browse topology in ISPF
 - Show hierarchy
 - Show search
- Browse in GUI
 - Show configuration across all systems.
 - Highlight significant differences in configuration with heat map.
 - Demonstrate that resource change control, type-II commands, all available for discovered systems



More information:

- IBM IMS Configuration Manager for z/OS:
<http://www.ibm.com/software/products/en/imsconfmanafrozos/>
- James Martin, US Representative, Fundi Software:
james_martin@fundi.com.au
- Jim Martin, US Representative, Fundi Software
jim_martin@fundi.com.au