



CICS Resource Definitions as Part of a DevOps Pipeline

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CICS Virtual User Group

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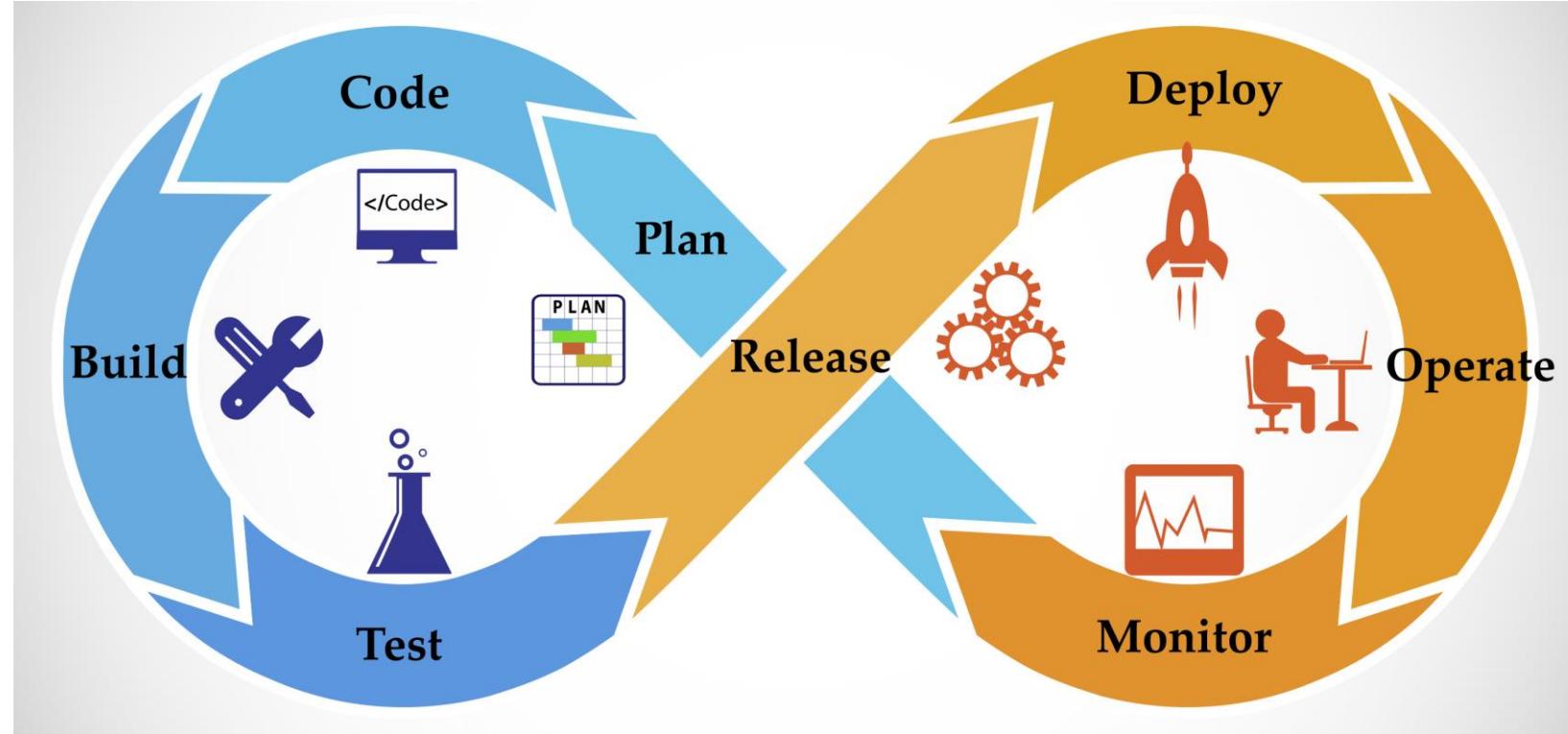
Agenda

- DevOps for Traditional CICS Applications
- Why CICS CM is useful
- Editing CSD files
- Delegating responsibilities
- Migrating resource changes
- Changes across LPAR boundaries
- Backout
- Audit compliance
- Cleanup and analysis
- Comparisons and exception analysis
- zFS Support
- CICS CM in the DevOps Pipeline

DevOps Pipeline for Traditional CICS Applications

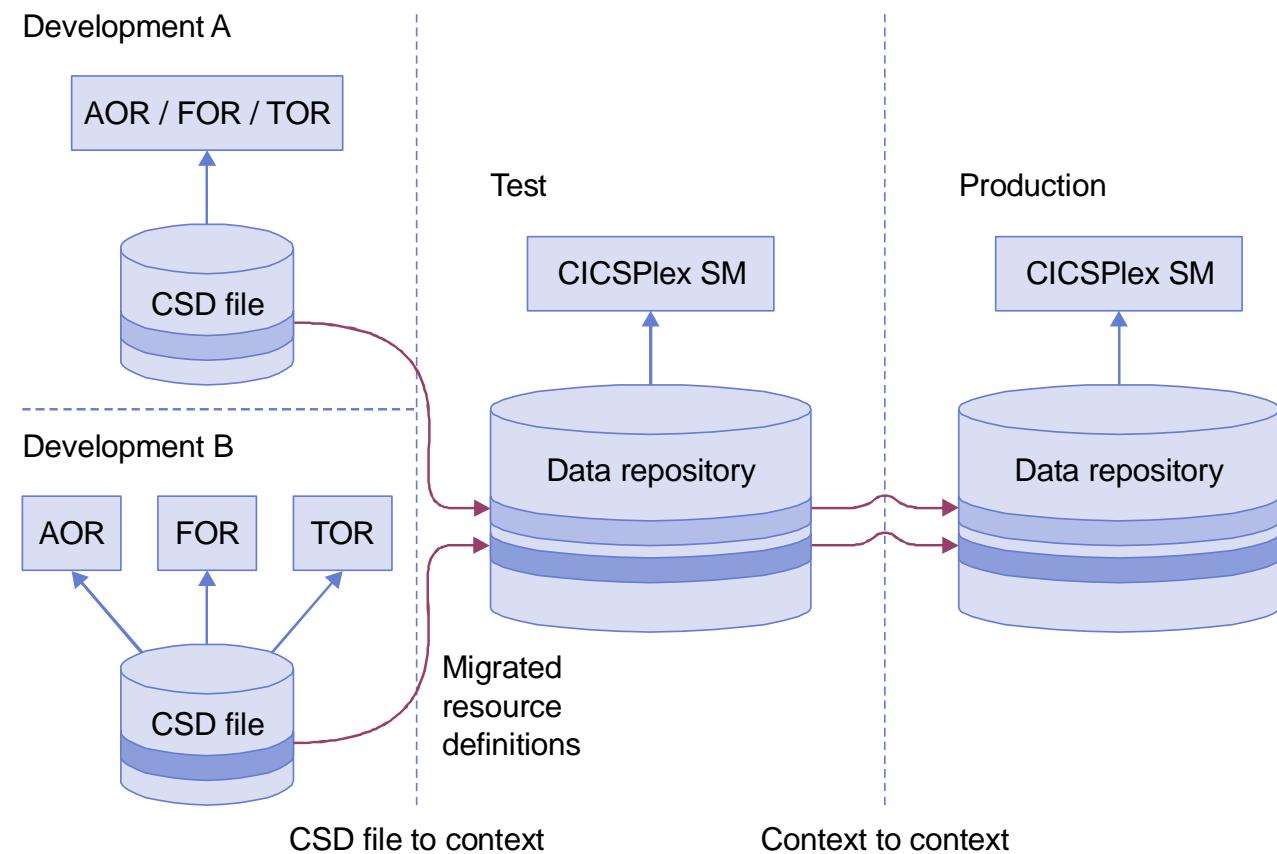
CICS Application

- Code Changes
- Resource Definition Changes

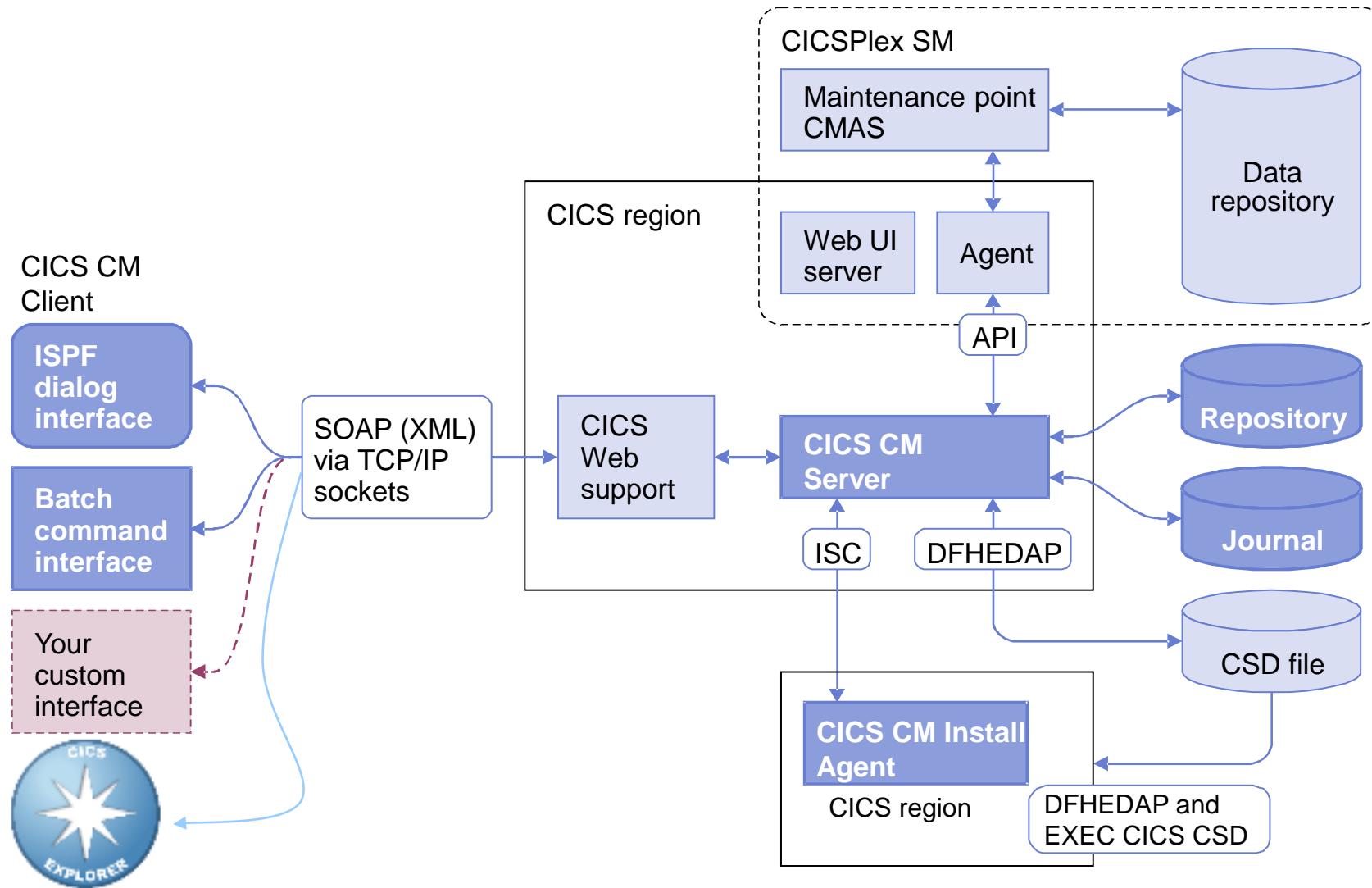


Why the need for CICS CM

- Manage resource definitions on multiple repositories across diverse environments
- Make rapid and frequent updates to resource definitions to handle new business requirements
- Understand the impact of definition attributes on target environments
- Identify duplicate, redundant, or inconsistent resource definitions



CICS CM architecture



CICS administration problems and solutions

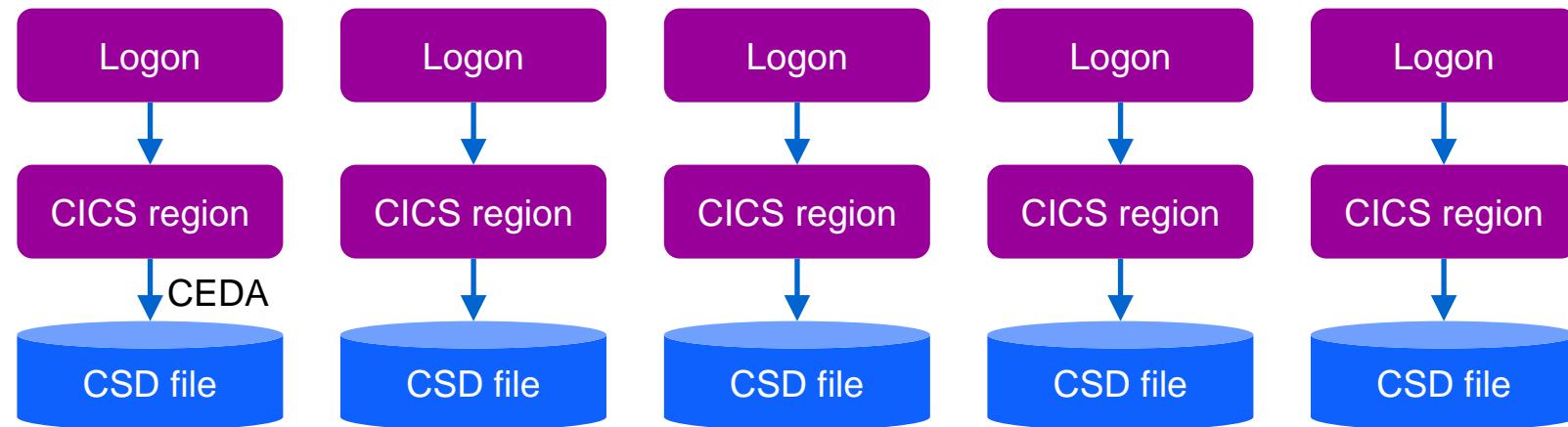
Sample use cases

- Editing CSD files
- Delegating and approving changes
- Migrating changes between environments
- Changes across LPAR boundaries
- Backout
- Audit compliance
- Clean-up and analysis
- Comparisons and exception analysis

Editing CSD files

Problem

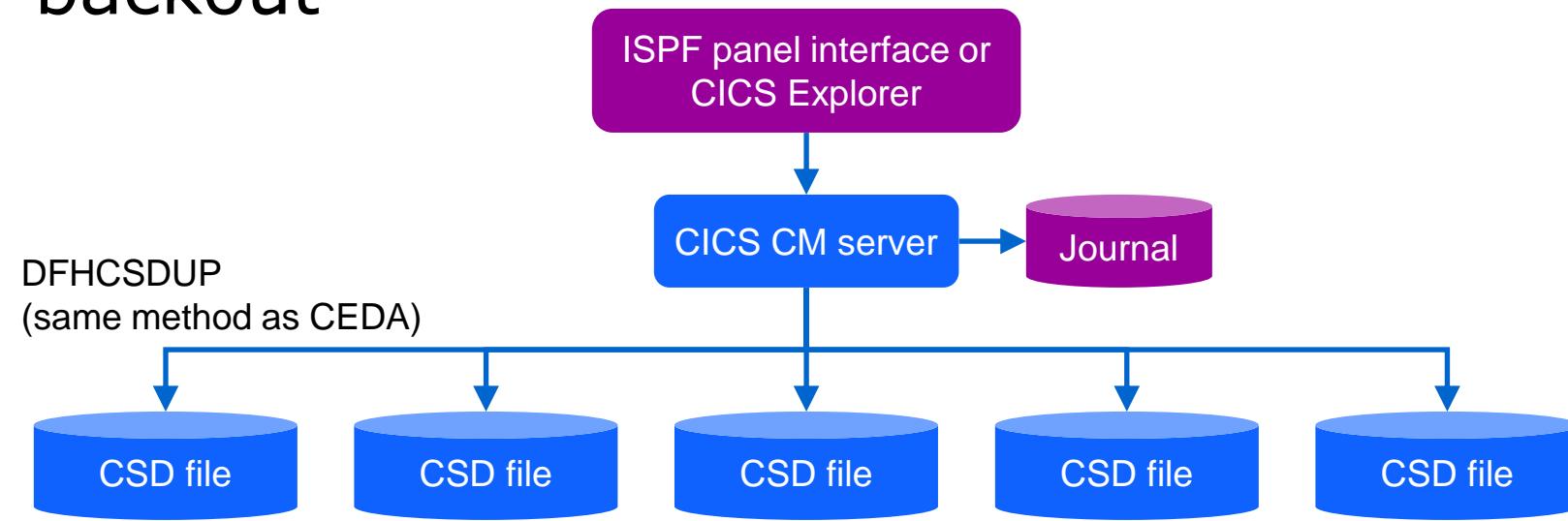
- Logon or route to each CSD's maintenance point
- CICS regions must be running
- No audit trail or easy backout



Editing CSD files

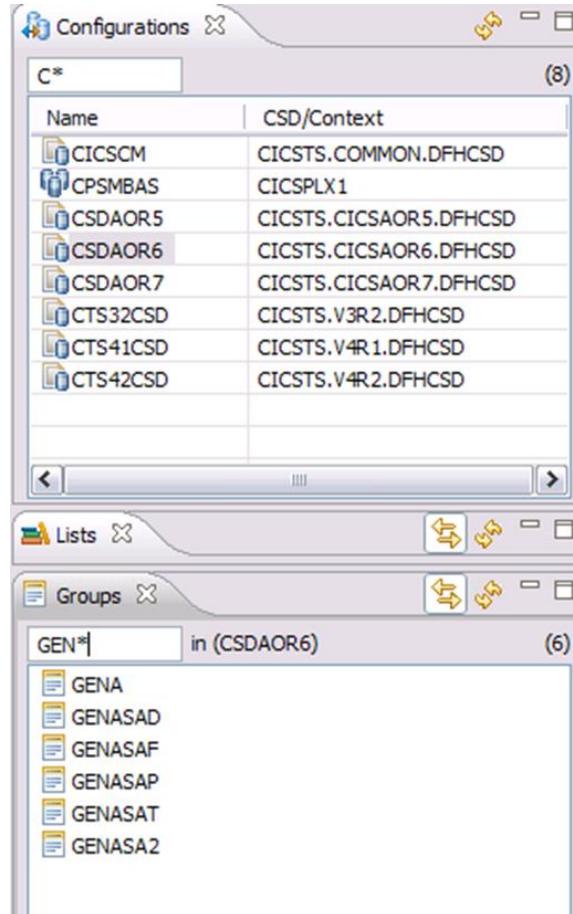
Solution

- Single point of control (via the CICS CM Server)
- Application CICS regions may be inactive
- Audit trail
- Easy backout



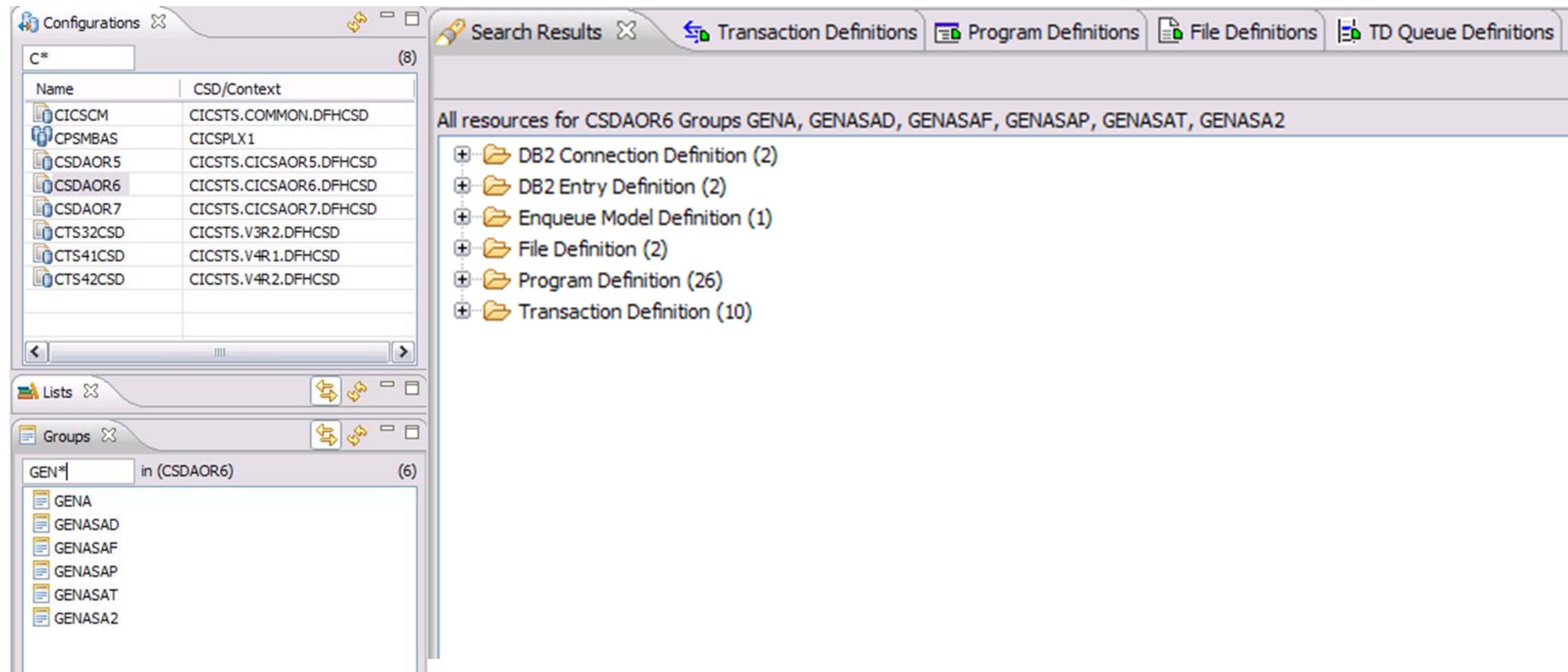
Single point of control over Resource Definitions

- Access multiple CSDs, Data Repositories, Lists, and Groups from a single interface (Explorer)



Single point of control over Resource Definitions

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Single point of control over Resource Definitions

- Access multiple CSDs, Data Repositories, Lists, and Groups from a single interface (Explorer)

The screenshot shows the IBM Rational Application Developer (RAD) interface. On the left, there's a tree view labeled 'Configurations' with several nodes expanded, including 'CICSCM', 'CPSMBAS', and 'CICSPLEX1'. To the right of the tree is a search bar with the placeholder 'Search Results' and a dropdown menu showing 'Transaction Definitions', 'Program Definitions', 'File Definitions', and 'TD Queue Definitions'. Below the search bar, a message box displays 'All resources for CSDAOR6 Groups GENA, GENASAD, GENASAF, GENASAP, GENASAT, GENASA2'. Underneath this message, there's a section titled 'DB2 Connection Definition (2)' with a '+' icon. The main area of the interface is a table titled 'CNX0211I Context: GENASAP. Resource: PROGDEF. 26 records collected at May 16, 2012 10:01:09 PM'. The table has columns: Name, Versi..., Create Time, Change Time, Change User ID, Description, and Status. The 'Status' column contains green checkmarks and the word 'ENABLED' for all entries. The table lists 26 records, each corresponding to a different DB2 connection definition.

Name	Versi...	Create Time	Change Time	Change User ID	Description	Status
LGICDB01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGICUS01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGICVS01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGIPDB01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGIPOL01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGIPVS01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGSETUP	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	Initial setup of TSQueue	✓ ENABLED
LGTSQ	0	Dec 13, 2011 12:20:46 PM	Dec 13, 2011 12:20:46 PM	DNET514	Message output to TSQueues	✓ ENABLED
LGTESTC1	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	Solution Customer Menu	✓ ENABLED
LGTESTP1	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	Solution Motor Policy Menu	✓ ENABLED
LGTESTP2	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	Solution Life Policy Menu	✓ ENABLED
LGTESTP3	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	Solution House Policy Menu	✓ ENABLED
LGTESTP4	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	Solution Commercial Policy Menu	✓ ENABLED
LGUPDB01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGUPOL01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
LGUPVS01	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514		✓ ENABLED
SSMAP	0	Dec 13, 2011 12:20:45 PM	Dec 13, 2011 12:20:45 PM	DNET514	BMS Map	✓ ENABLED

Single point of control over Resource Definitions

- Access multiple CSDs, Data Repositories, Lists, and Groups from a single interface

The screenshot shows the Rational Application Developer interface with a central search results window and various configuration panels.

Search Results: The main window displays "All resources for CSDAOR6" and lists transaction definitions:

Name	Versi...	Create
LGICDB01	0	Dec 13,
LGICUS01	0	Dec 13,
LGICVS01	0	Dec 13,
LGIPDB01	0	Dec 13,
LGIPOL01	0	Dec 13,
LGIPVS01	0	Dec 13,
LGSETUP	0	Dec 13,
LGSTSQ	0	Dec 13,
LGTESTC1	0	Dec 13,
LGTESTP1	0	Dec 13,
LGTESTP2	0	Dec 13,
LGTESTP3	0	Dec 13,
LGTESTP4	0	Dec 13,
LGUPDB01	0	Dec 13,
LGUPOL01	0	Dec 13,
LGUPVS01	0	Dec 13,
SSMAP	0	Dec 13,

Configurations: Shows a list of CSDs including CICSCM, CPSMBAS, CSDAOR5, CSDAOR6, CSDAOR7, CTS32CSD, CTS41CSD, and CTS42CSD.

Lists: Shows a list of groups under GENASAP, including GENA, GENASAD, GENASAF, GENASAP, GENASAT, and GENASA2.

Program Definition (LGDPDB01) Overview: Details the program definition, showing it was created on Dec 13, 2011, at 12:20:45 PM, is enabled, and is coded in COBOL. It also includes sections for Transaction Environment (OTE), Storage, and Program reuse.

Single point of control over Resource Definitions

- Access multiple CSDs, Data Repositories, Lists, and Groups from a single interface (ISPF)

The screenshot displays the ISPF interface with three main panels:

- Resources** (Left Panel): Shows a list of resources with columns for Name, Context, and File name. A context menu is open over the first item, showing options like File, Menu, Settings, Checksum, Show, Help, and a submenu for Groups.
- CICS Configurations** (Top Center): A list of CICS configurations with columns for Name, Context, and File name. A context menu is open over the first item, showing options like File, Menu, Settings, Checksum, Show, Help, and a submenu for Groups.
- CSDAORG6 CICS Resources** (Bottom Right): A list of CICS resources with columns for Name, Type, Group, and Prompt. A context menu is open over the first item, showing options like File, Menu, Settings, Checksum, Search, Show, Help, and a submenu for Resources.

Context menus also show scroll options (Row 1 to 31 of 31, Row 1 to 2 of 2, Row 1 to 10 of 10) and command fields (Command ==> PAGE).

Name	Context	File name
CICSCM		CICSTS.CICSCM.DFHCS
CPSCMBAS	CICSPLX1	
CPSMBA5	CICSPLX1	CICSTS.CICSAOR3.DFH
CSDAOR3		CICSTS.CICSAOR4.DFH
CSDAOR4		CICSTS.CICSAOR6.DFH
CSDAOR6		CICSTS.CICSAOR7.DFH
CSDAOR7		CICSTS.CICSAOR8.DFH
CSDAOR8		DDS2553.CCV520.TOUR
DEVT2553		DNET409.CM.EXPORT.F
EXPORTPD		STANNA.CM.EXPORT.FI
EXPORTST		DDS2553.CM52.EXPORT
EXPTST52		CICSTS.JOETEST.DFHCS
JOE		DDS2170.CCM.EXPORT
MEXICO		DDS2170.CCM.EXPORT
MEXICOIM		CICSTS.MEXICSD.DFHCS
MEXICSD		/u/ccv000/wabc/test/
ZTEST		/u/ccv000/wabc/devt/
ZDEVT		

Name	Type	Group	Prompt
LGACDB01	PROGRAM	GENASAP	---
LGACUS01	PROGRAM	GENASAP	2017/09/15 10:48
LGACVS01	PROGRAM	GENASAP	2017/10/09 14:42
LGAPDB01	PROGRAM	GENASAP	2017/10/09 14:42
LGAPOL01	PROGRAM	GENASAP	2017/09/20 14:21
LGAPVS01	PROGRAM	GENASAP	2017/11/14 14:31
LGDldb01	PROGRAM	GENASAP	2017/09/14 14:42
LGDpdb01	PROGRAM	GENASAP	2017/08/11 13:32
LGDpol01	PROGRAM	GENASAP	2016/12/13 07:03
LGDpvs01	PROGRAM	GENASAP	2016/10/18 09:04
LGicdb01	PROGRAM	GENASAP	2016/12/15 14:30
LGicus01	PROGRAM	GENASAP	2016/12/15 14:30
LGicvs01	PROGRAM	GENASAP	2016/12/15 14:30

Single point of control over Resource Definitions

- Access multiple CSDs, Data Repositories, Lists, and Groups from a single interface (ISPF)

The screenshot displays the ISPF interface with two main windows:

Left Window (Resources View):

- Header: Resources, Command ==> _____
- Text: CICS Configurations, Row 1 to 31 of 31, Scroll ==> PAGE, More: < >, *
- Filter: * * *
- Table:

/	Name	Context	File name
CICSCM			CICSTS.CICSCM.DFHCS
CPSCMBAS	CICSPLEX1		
CPSMBA5	CICSPLEX1		
CSDAOR3			CICSTS.CICSAOR3.DFHCS
CSDAOR4			CICSTS.CICSAOR4.DFHCS
S CSDAOR6			CICSTS.CICSAOR6.DFHCS
CSDAOR7			CICSTS.CICSAOR7.DFHCS
CSDAOR8			
DEVT2553		CI	
EXPORTPD		DD	
EXPORTST		DN	
EXPTST52		ST	
JOE		DD	
MEXICO		CI	
MEXICOIM		DD	
MEXICSD		DD	
ZTEST		CI	
ZDEVT		CI	
		/	
		Name	Type
		LGACDB01	PROGRAM
		LGACUS01	PROGRAM
		LGACVS01	PROGRAM
		LGAPDB01	PROGRAM
		LGAPOL01	PROGRAM
		LGAPVS01	PROGRAM
S		LGDPB01	PROGRAM
		LGDPOL01	PROGRAM
		LGDPVS01	PROGRAM
		LGICDB01	PROGRAM
		LGICUS01	PROGRAM
		LGICVS01	PROGRAM

Right Window (Resource Details):

- Header: File Menu Settings Help
- Text: Edit Command ==> _____ Program
- Table:

Program : LGDPB01	More: +
Group : GENASAP	
Location : CICSTS.CICSAOR6.DFHCS	
Change Date :	
Description :	
Language : COBOL	Description
Reload : NO	+ Program language
Resident : NO	+ Reload new copy on each execution
Usage : NORMAL	+ In-storage residence after first use
UseLPACopy : NO	+ Program storage release
Status : ENABLED	+ Use program from the link pack area
CEDF : YES	+ Enabled for use status
DataLocation : ANY	+ Display CEDF diagnostic screens
ExecKey : USER	+ In-memory storage address data location
Concurrency : QUASIRENT	+ Program execution key
API : CICSAPI	+ Concurrent execution resource protection
Dynamic : NO	+ API interface used by the program
RemoteSystem :	Dynamic routing status
RemoteName :	Remote system name
	Program name in remote system

Single point of control over Resource Definitions

Working with Multiple Configurations

Menu option 4.1, Reports > Multiple Configs

Reports Command ===>	CICS Configurations			Row 1 to 12 of 12 Scroll ===> PAGE More: < >
Select one or more CICS configurations and press Enter				
Filter <u>DEMO*</u>				
/ Name	Context	CSD File	Format	
DEMO	CCVPLEXK	CCVCICS.DEMO.DFHCS	CSD	
<u>S</u> DEMOCPSM		CCVCICS.DEMODEVT.DFHCS	CPSM	
<u>S</u> DEMODEVT		CCVCICS.DEMOTEST.DFHCS	CSD	
<u>S</u> DEMOPROD			CSD	
<u>S</u> DEMOTEST	CPSM1		CPSM	

Select multiple

Display multiple

Resources Command ===>	Multiple Configuration Resource				Row 106 to 120 of 1,366 Scroll ===> PAGE
Filter * <u>PROGRAM</u> + <u>DEMOGRP1</u>	Name	Type	Group	Prompt	Config
	DEMAMG10	PROGRAM	DEMOGRP1		DEMOCPSM
	DEMAMG10	PROGRAM	DEMOGRP1		DEMODEVT
	DEMAMG10	PROGRAM	DEMOGRP1		DEMOTEST

1st Demo

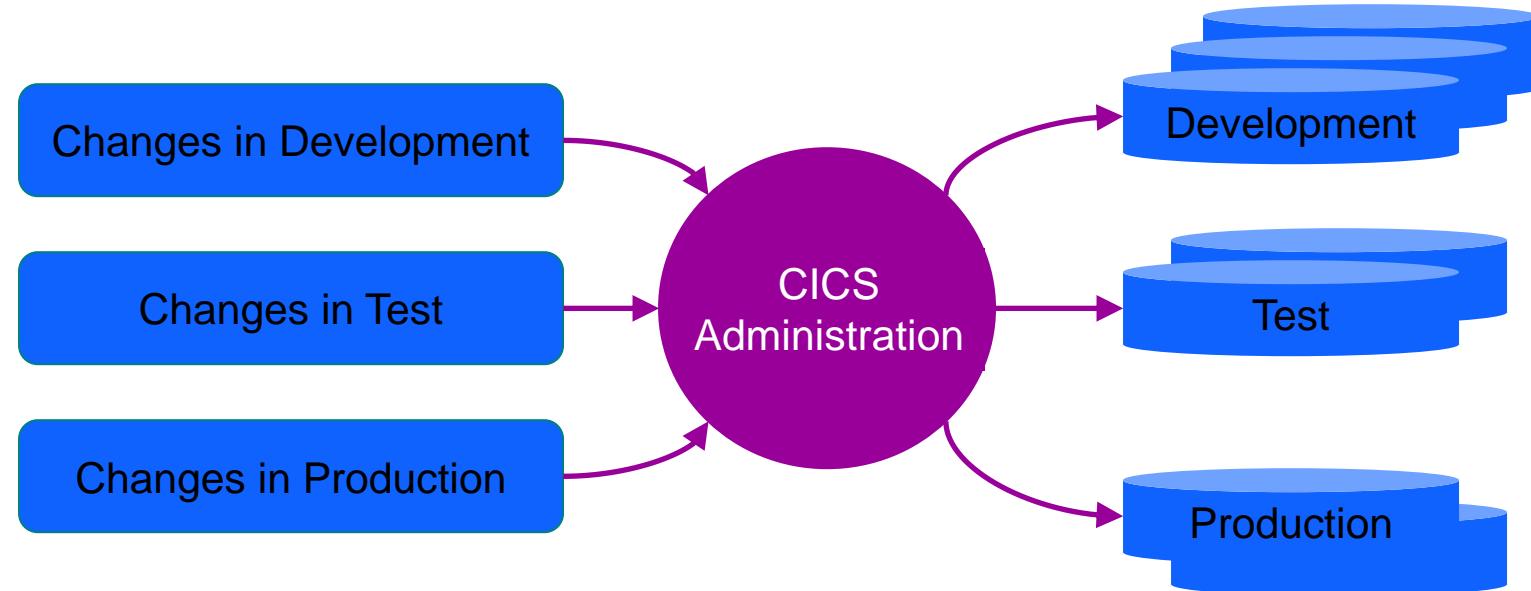
- Working with CSDs
- Modifying Resource Definitions
- Search, History, Compare



Delegating responsibilities

Problem

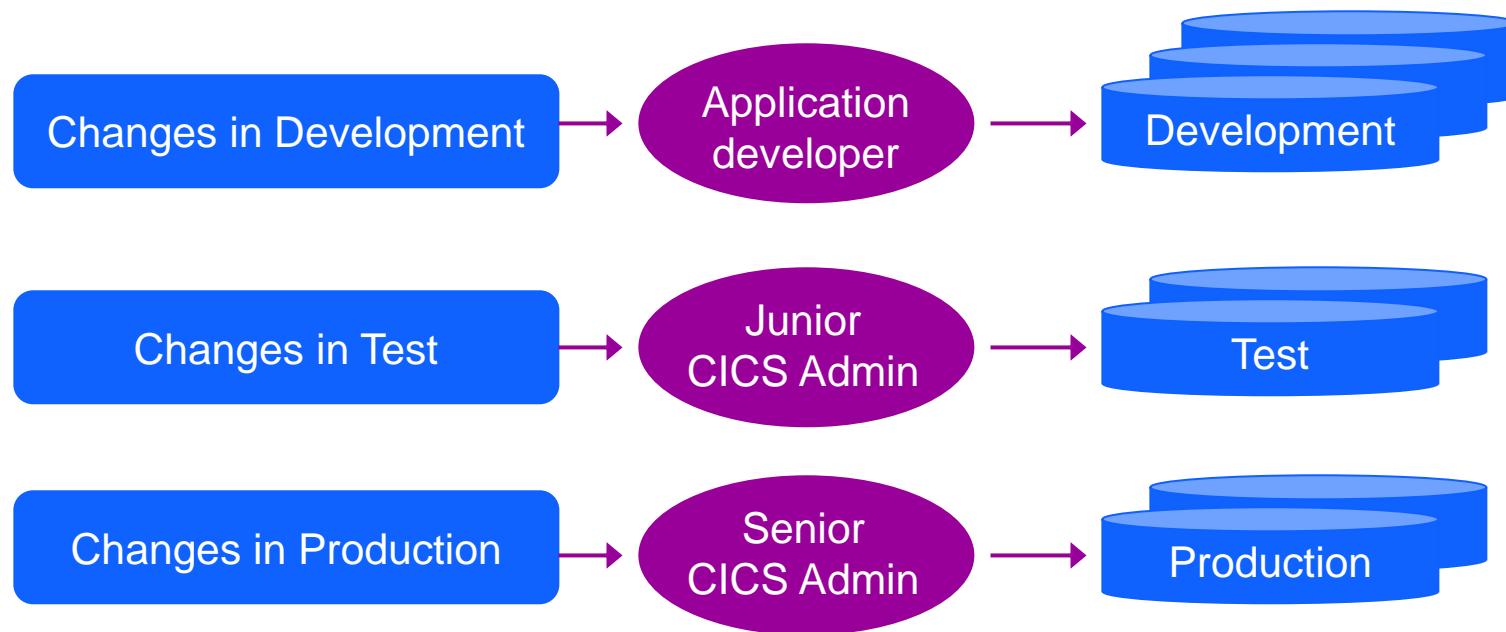
- Administration bottlenecks for resource definition changes
- CICS support personnel are overworked and scarce
- Complexity and 'institutional knowledge' makes delegation risky



Delegating responsibilities

Solution

- Security controls by repository, Group, type and name
- Standards enforcement for attribute values
- Approve change packages before migration
- Audit trail with easy backout



Delegating responsibilities

Solution

Edit

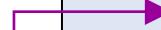
Command ==> _____

Program

Program . . . : DEMACOPY
Group . . . : DEMAGRP1
Location . . : CCVPLEXF
Change Date . : 2017/10/30 10:32:01.74
Description . : Demonstration - COPY API Handler - changed

More: +

	Default	Alternative Values
Language . . .	<u>COBOL</u> +	N_A ASSEMBLER C COBOL LE370 PLI
Reload . . .	<u>NO</u> +	YES
Resident . . .	<u>NO</u> +	YES
Usage . . .	<u>NORMAL</u> +	TRANSIENT
UseLPACopy . . .	<u>NO</u> +	YES
Status . . .	<u>ENABLED</u> +	DISABLED
CEDF	<u>NO</u> +	NO
DataLocation	<u>ANY</u> +	BELOW ANY
ExecKey	<u>USER</u> +	CICS
Concurrency . . .	<u>QUASIRENT</u> +	REQUIRED THREADSAFE N_A
API	<u>CICSAPI</u> +	OPENAPI



1. Set CEDF(NO) which violates standards, then SAVE

Delegating responsibilities

Solution

Exception Messages

Row 1 to 3 of 3

Command ==> [PAGE](#)

Messages

XPRA: Create/Update of this resource was rejected by a site Exit. Rule
 . details: PGM_0001-A-0001

XPRA: Attribute CEDF must have value YES

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

Standards enforced

RULE NAME	ATTRIBUTE	CONDITION	ACTION
PGM_0001	Q PROGDEF_GROUP	EQ DEMOGRP1	
PGM_0001	Q PROGDEF_NAME	EQM DEMA*	
PGM_0001	A PROGDEF_CEDF	NE YES	REJECT

Delegating responsibilities

Solution

Program
SAVEAS Confirmation Authorization failed

Enter details and press Enter to save new PROGRAM

You are not authorized to perform the requested function. Security failure details are logged in the CICS Configuration Manager server job output, using a message prefix DFHXS.

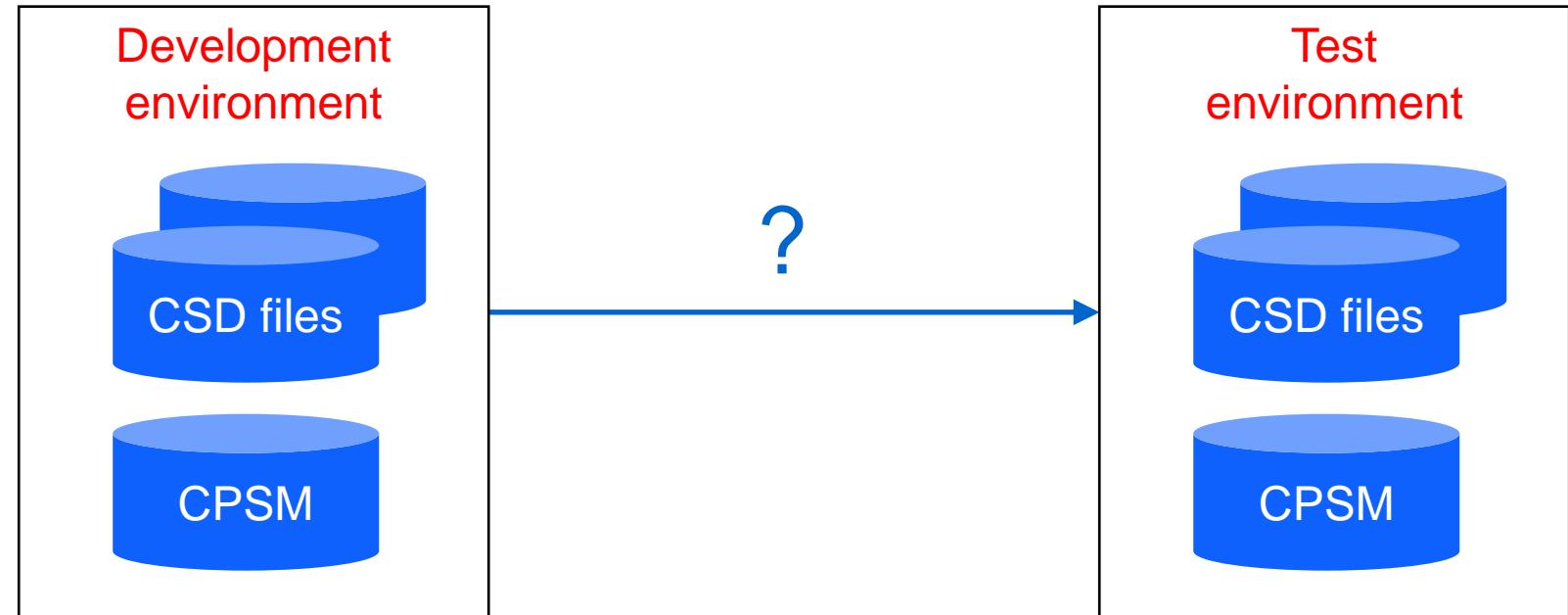
CEDF	YES	+	YES	NO					
DataLocation	ANY	+	BELOW	ANY					
ExecKey	USER	+	U	RACF	PFX	CONFIG	GROUP	TYPE	NAME
Concurrency	QUASIRENT	+	Q	PERMIT	CCV.DEMOCPSM.PAYROLL.PROGDEF.*				
API	CICSAPI	+	C		CLASS(XFACILIT)				

ID(RJA2) ACC(NONE)

Migrating changes between environments

Problem

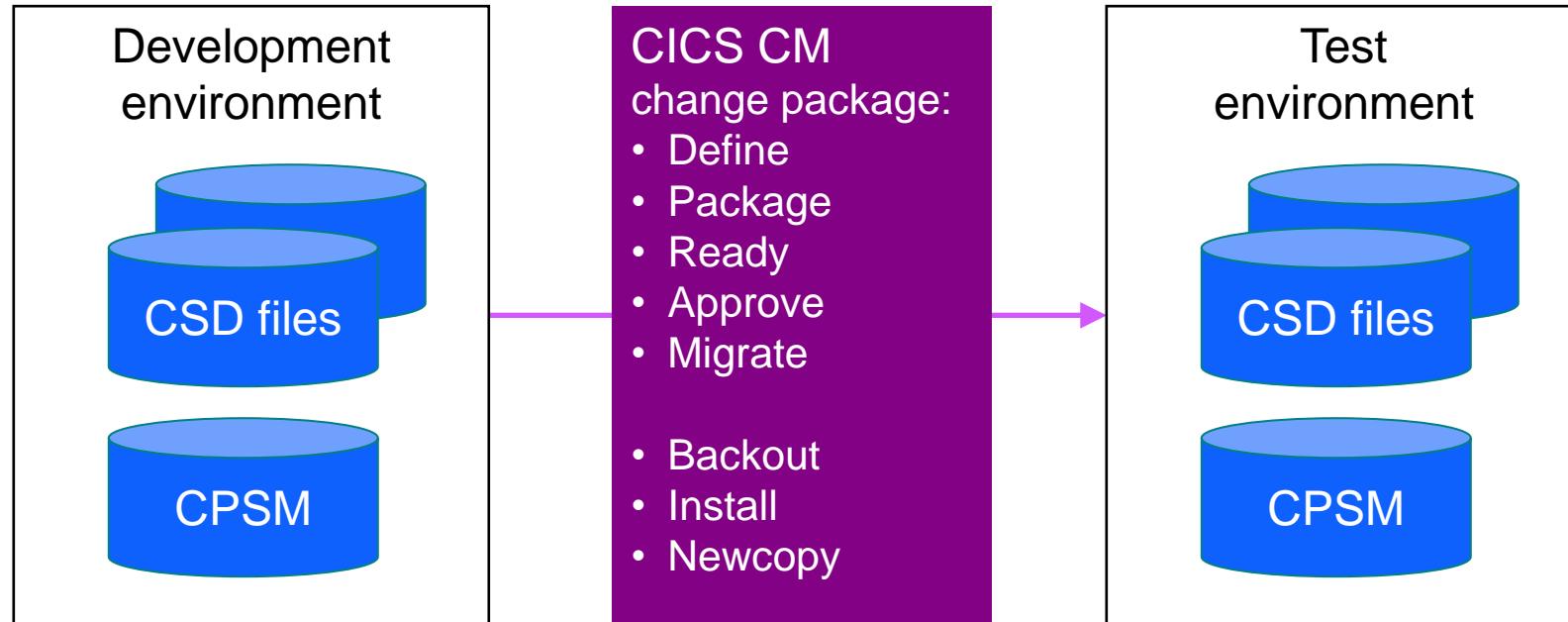
- How do you systematically promote resource definition changes?
 - Collecting sets of definitions
 - Tailoring definition attributes (data set names in Files)
 - Identifying and updating target CSD files or CPSM BAS repositories



Migrating changes between environments

Solution

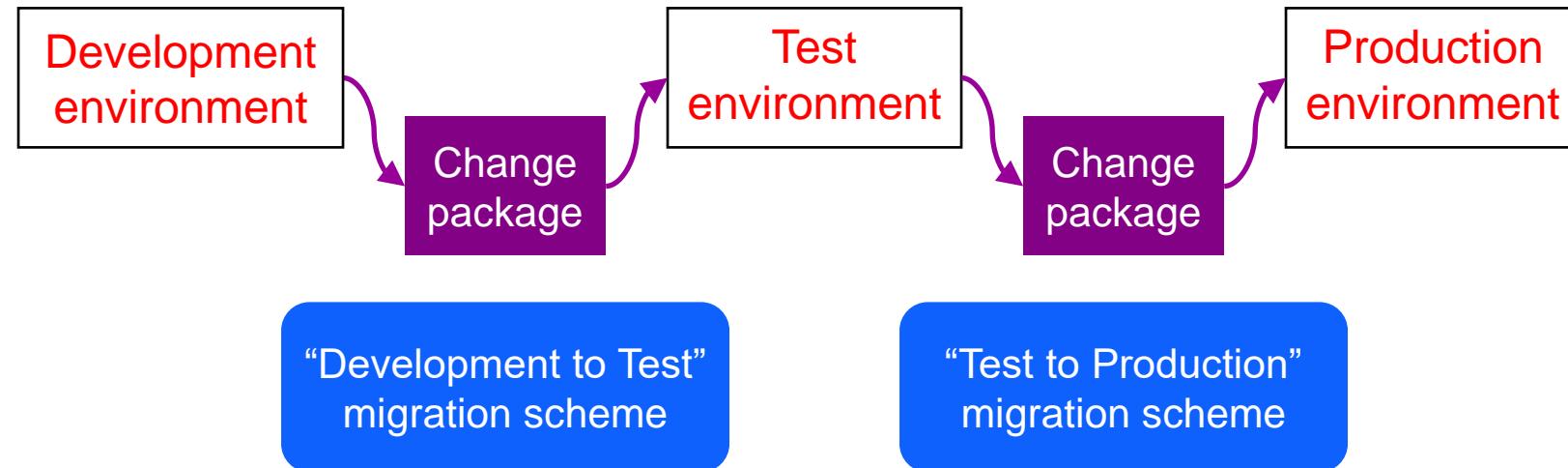
- Group changes into a CICS CM change package
- Manage the package as a single unit
- Supports Ready, Approve, and Backout processing
- APIs and exit-points for integration to change-control products



Migrating changes between environments

Solution

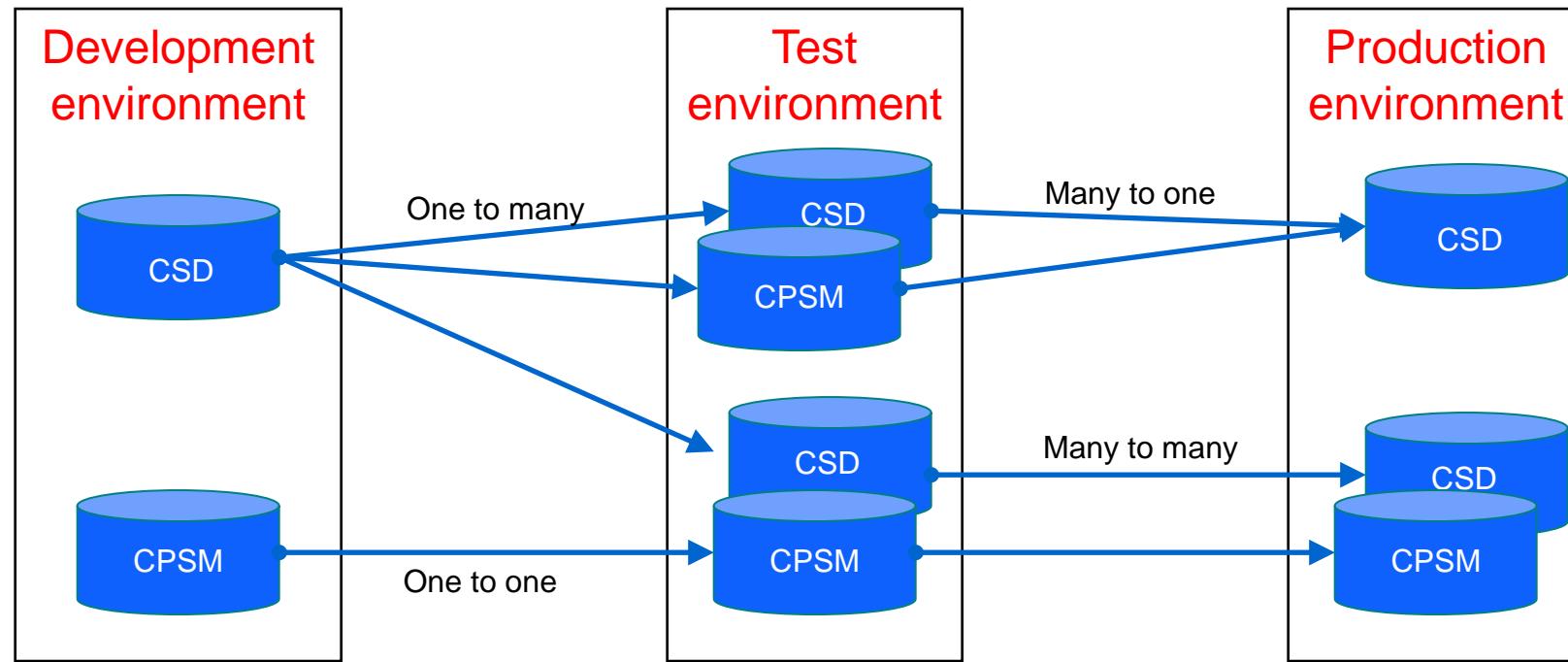
- Migration schemes identify source and target repositories
- Different schemes to progressively migrate a change package



Migrating changes between environments

Solution

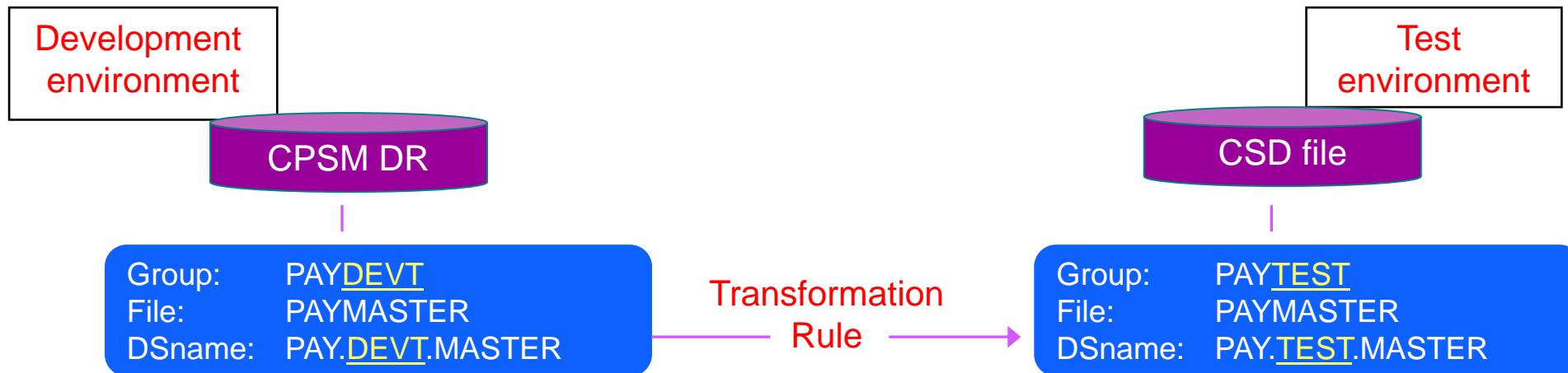
- Schemes can intermix CSD files or CPSM repositories
- Supports one or many source/target pairs in any combination



Migrating changes between environments

Solution

- Transformation rules tailor definitions for each target:
 - No manual editing – it's automatic
 - You can change group names, attribute values, or resource definition names
 - Value masking is supported (e.g. change File DSNAME *DEVT* to *TEST*)
 - Qualification criteria may be specified



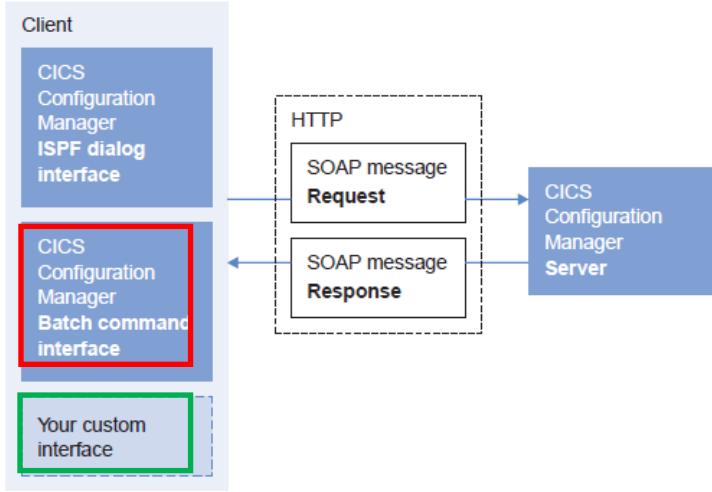
2nd Demo:

- Change Packages
- Migration Schemes
- Transformation Rules



CICS resource definition lifecycle management

CI/CD Pipeline script can invoke CICS CM via batch jobs or using SOAP



Batch Interface

```
//READY EXEC PGM=CCVBMAIN,REGION=3M  
//STEPLIB DD DISP=SHR,DSN=CTSTOOLS.CICSCM.SCCVAENU  
// DD DISP=SHR,DSN=CTSTOOLS.CICSCM.SCCVAUTH  
//SYSUDUMP DD SYSOUT=*  
//CCVPRINT DD SYSOUT=*  
//CCVPARMS DD *  
CONNECT IPADDRESS=ESYSMVS,PORT=6023,SSL=NO  
READY CPID=00000002,SCHEME=AOR6T07  
  
//MIGRATE EXEC PGM=CCVBMAIN,REGION=3M  
//STEPLIB DD DISP=SHR,DSN=CTSTOOLS.CICSCM.SCCVAENU  
// DD DISP=SHR,DSN=CTSTOOLS.CICSCM.SCCVAUTH  
//SYSUDUMP DD SYSOUT=*  
//CCVPRINT DD SYSOUT=*  
//CCVPARMS DD *  
CONNECT IPADDRESS=ESYSMVS,PORT=6023,SSL=NO  
MIGRATE CPID=00000002,SCHEME=AOR6T07
```

Available packaging commands:

- Ready / Unready
- Approve / Disapprove
- Migrate / Backout
- Disapprove
- Install / Discard / Newcopy
- Import

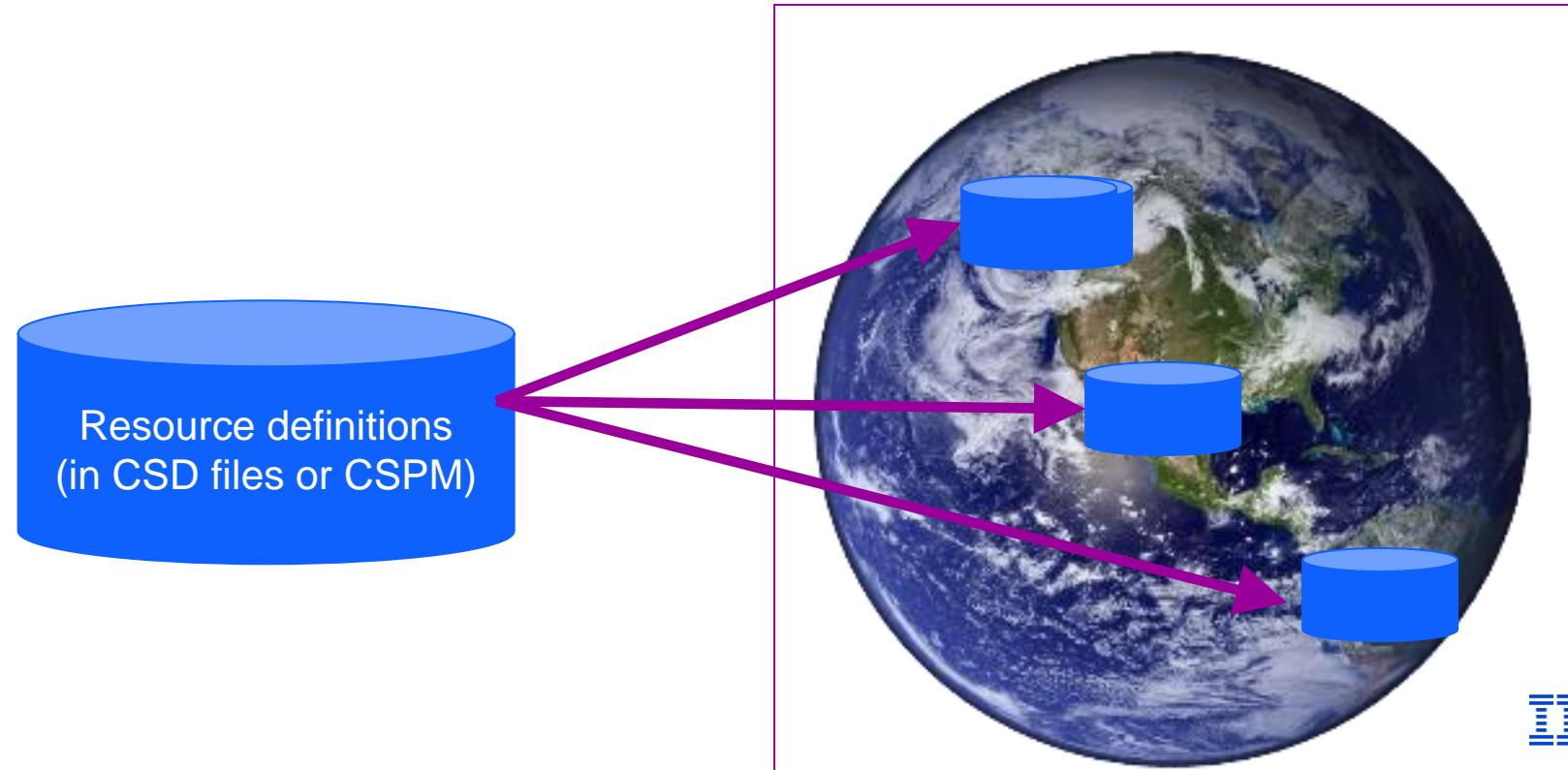
SOAP Interface

```
<CCV540>  
<READY>  
<SELECTIONCRITERIA>  
<CPID>00000002</CPID>  
<SCHEME>AOR6T07</SCHEME>  
</SELECTIONCRITERIA>  
</READY>  
</CCV540>  
  
<CCV540>  
<MIGRATE>  
<SELECTIONCRITERIA>  
<CPID>00000002</CPID>  
<SCHEME>AOR6T07</SCHEME>  
</SELECTIONCRITERIA>  
</MIGRATE>  
</CCV540>
```

Changes across LPAR boundaries

Problem

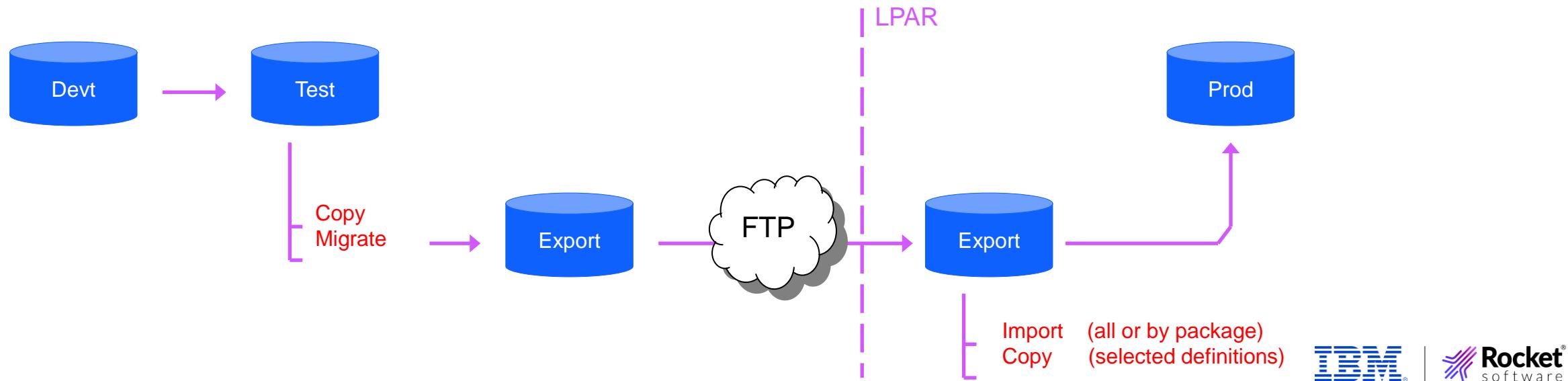
- Need to distribute resource definition changes to remote CICS sites across LPAR boundaries



Changes across LPAR boundaries

Solution

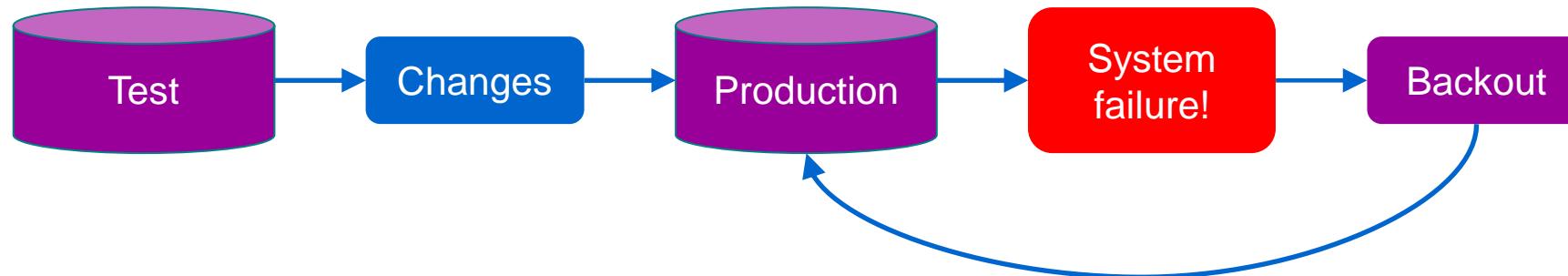
- Export definitions selectively by Copy or via change package Migrate
- Samples illustrate automated file transfer to remote sites
- Import definitions with auto-register of change packages



Backout

Solution

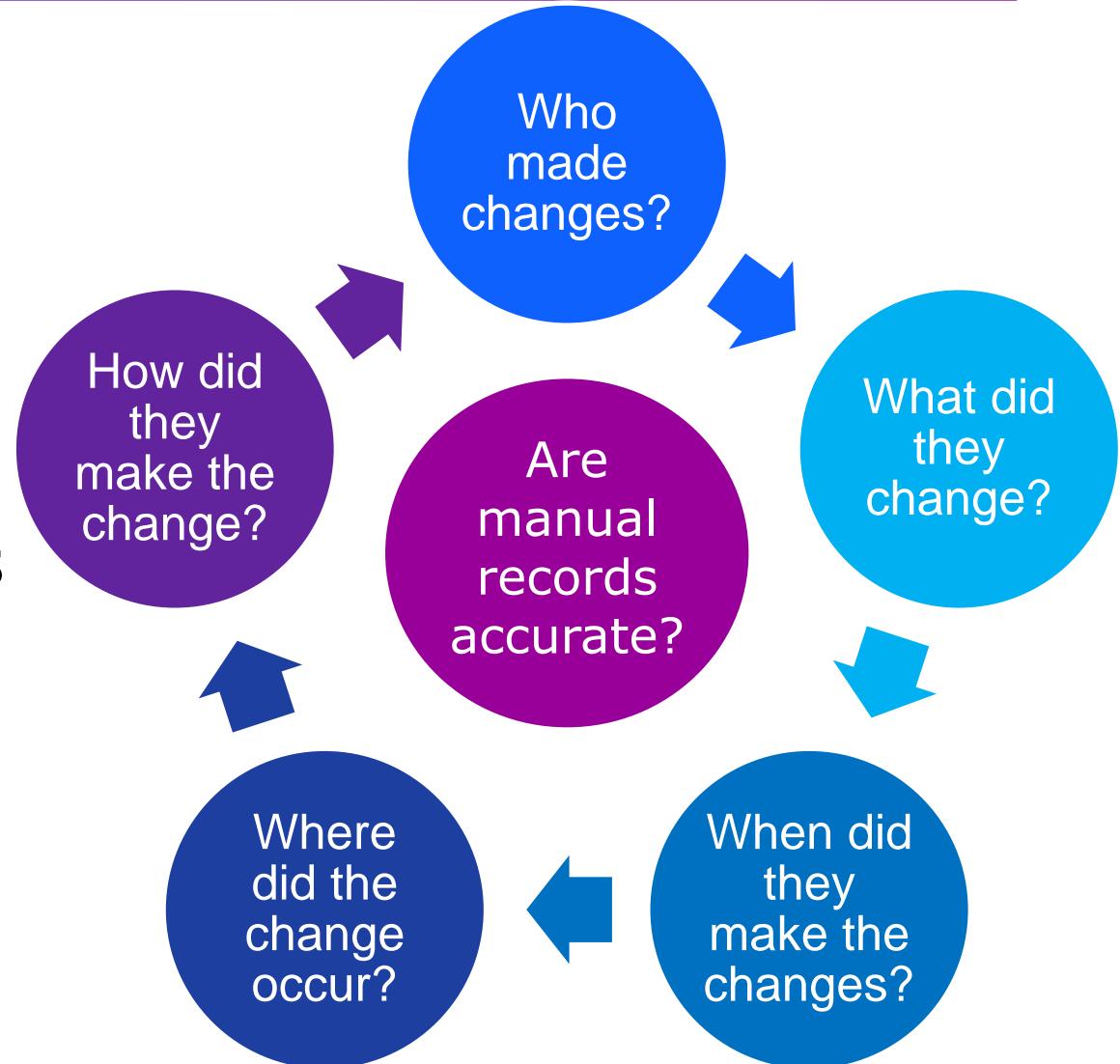
- All changes logged to a journal file
- Backout entire change package
- Recover individual resource definitions
- View resource definition histories on screen



Audit Compliance

Problem

- Requirement to collect audit data
- Searching and reporting results is cumbersome and time consuming



Audit Compliance

Solution

- All changes logged to a journal file
- Online histories and journal-event views
- ISPF, Explorer and Batch journal audit reporting

Resource History for CSDAOR6 from 2013/08/14 09:52:30 to latest entry						
Revision Time	Resource Name/After	Resource Type/Before	Group	User Name	Configuration	Command
⌚ This Week						
▶ 2013/11/13 15:28:44	STAT	TRANDEF	DFH\$STAT	DDS1964	CSDAOR6	INSTALL
▶ 2013/11/13 15:22:05	STAT	TRANDEF	DFHSSTAT	DDS1964	CSDAOR6	INSTALL
▶ 2013/11/12 14:14:35	TEST	TRANDEF	DEMOGRP	DNET461	CSDAOR6	UPDATE
⚡ TWASIZE	0	100				
▶ 2013/11/12 14:14:11	TEST	TRANDEF	DEMOGRP	DNET461	CSDAOR6	UPDATE
⚡ TWASIZE	100	0				
▶ 2013/11/12 14:10:18	TEST	TRANDEF	DEMOGRP	DNET461	CSDAOR6	CREATE
⌚ Older Than This Week						
▶ 2013/11/05 07:45:56	FILE1	FILEDEF	AAA	STANNA	CSDAOR6	DELETE
▶ 2013/11/05 07:45:56	TEST	ATOMDEF	AAA	STANNA	CSDAOR6	DELETE
▶ 2013/11/05 07:45:56	DFH\$W2F1	ATOMDEF	AAA	STANNA	CSDAOR6	DELETE
▶ 2013/11/04 11:31:44	LGTESTC1	PROGDEF	GENASAP	DNET345	CSDAOR6	UPDATE
▶ 2013/11/04 09:07:00	SSC1	TRANDEF	GENASAT	DNET345	CSDAOR6	UPDATE

Audit Compliance

Solution

Compare
Command ==> _____

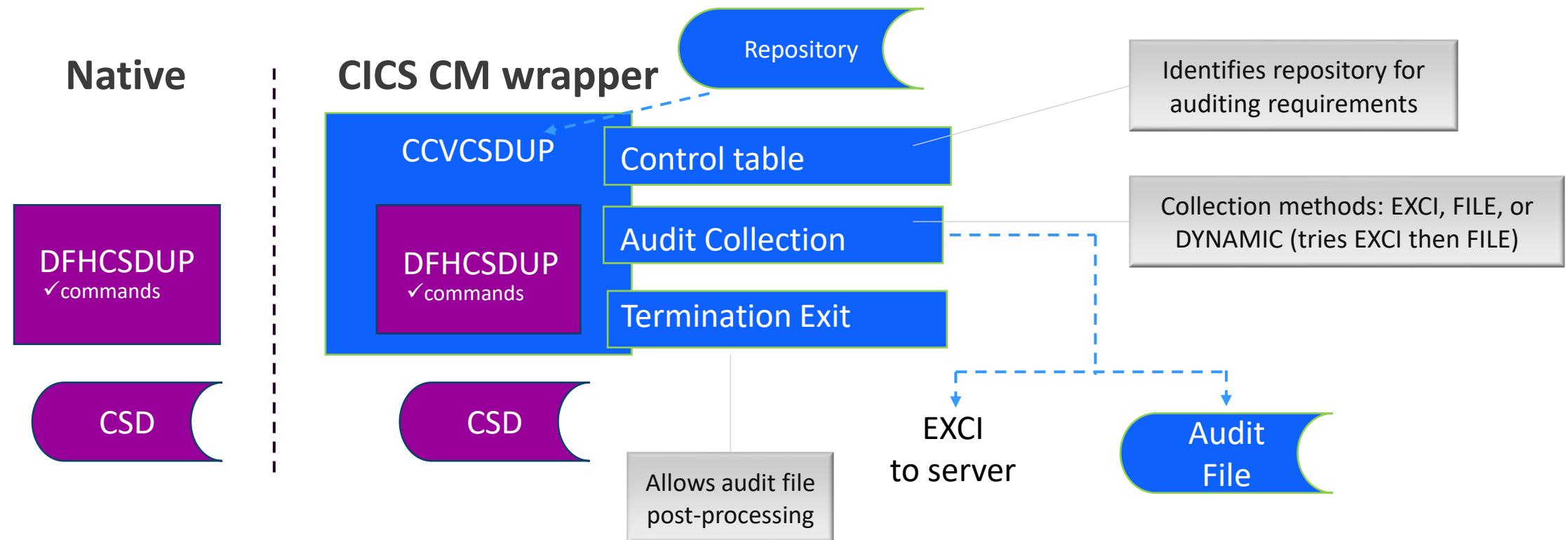
Transaction

Transaction . . : TEST	TEST
ResGroup . . : DEMOGRP	DEMOGRP
Location . . : CCVCICS.CICSREG.ABCCSD	CCVCICS.CICSREG.ABCCSD
==> Change Date . . : 2017/11/01 08:11:31.10	2017/11/01 08:11:12.47
Description . . :	
Program . . . : GETWIT	GETWIT
==> TWAsize . . . : 0	100
Profile . . . : DFHCICST	DFHCICST
PartitionSet . . . :	
Status . . . : ENABLED	ENABLED
TaskDataLoc . . . : BELOW	BELOW
TaskDataKey . . . : USER	USER
StorageClear . . . : NO	NO
Runaway . . . : SYSTEM	SYSTEM
Shutdown . . . : DISABLED	DISABLED
Isolate . . . : YES	YES
BRexit . . . :	

More: +

Audit Compliance – When DFHCSDUP is used

- Collect DFHCSDUP audit records with no changes to existing interfaces or to existing JCL DFHCSDUP jobs



Cleanup and analysis

- Do I have:
 - Orphan Groups (Groups unrelated to any Lists)
 - Duplicated definitions (same name, different attribute values)
 - Redundant definitions (same attribute values, different names)
- How do I find ... a needle in a haystack?
 - All PAY files using LSRpoolID(1)
 - All programs using DataLocation(BELOW)

Comparisons and exception analysis

- Side-by-side compare of Lists, Groups, or Resources
- Compare across CSDs, CPSM DRs, or history views
- ‘Checksum’ analysis (hash-value used as a compare indicator)
 - Predefined attribute lists for checksum calculation
 - User-selectable attributes for checksum calculation
 - n-Way analysis across 2, 3, 4 or multiple repositories
 - ‘Show’ exception analysis to highlight anomalies

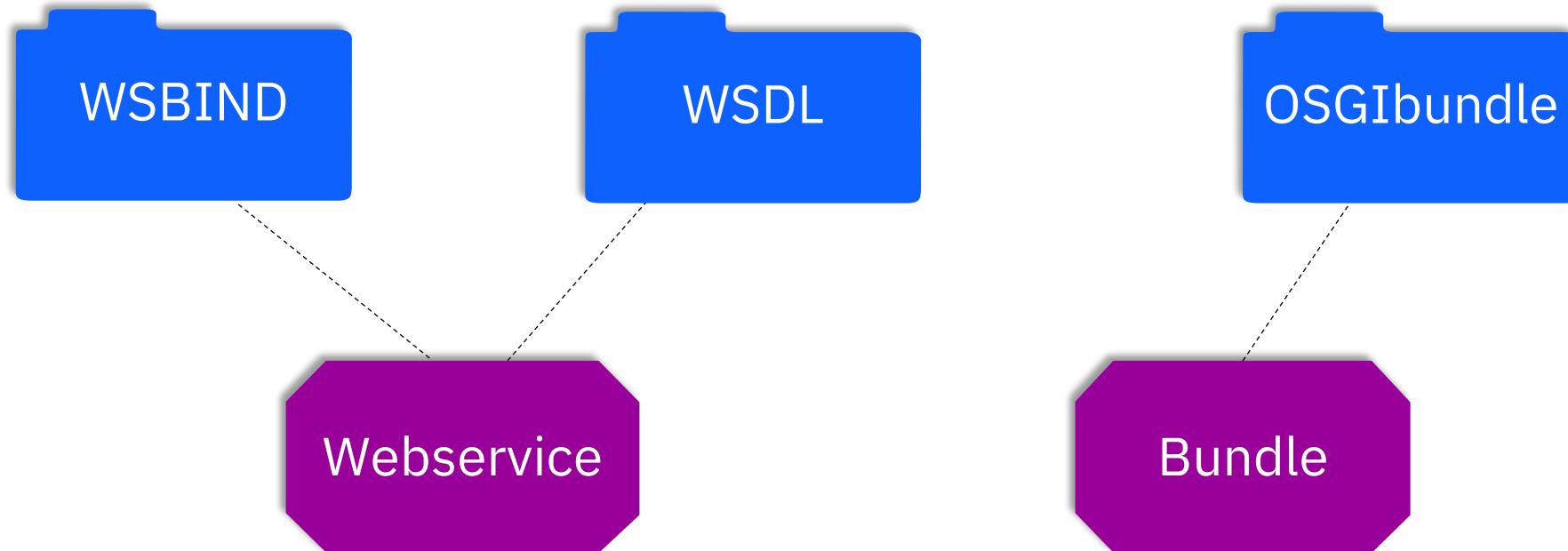
Comparisons and exception analysis

File Menu Settings Checksum Help			
Compare - All Resources		Group	Row 1 to 12 of 30
Command ==> _____		Scroll ==> PAGE	
More: < >			
Scroll right (NextPage) to view other reports			
Group : DEMOGRP		DEMOGRP	
Local Compare		Transaction	
Change	Command ==> =		
Anoma			
Transaction . . . : DT00		DT00	
Group : DEMOGRP		DEMOGRP	
==> Location . . . : CICSTS.CICSA0R6.DFHCS		CICSTS.CICSA0R7.DFHCS	
==> Change Date . . . : 2011/09/13 09:09:34.82		2005/06/09 16:10:49.00	
Filter		Description . . . :	
/		More: - +	
TRprof : DFHCICSS		DFHCICSS	
LocalQ : N_A		N_A	
<u>cm</u>			
Scheduling			
==> Priority : 2		1	
TranClass : DFHTCL00		DFHTCL00	
<u>Aliases</u>			
Alias :			
OISA0010 PROGRAM		DEMOGRP	65B535B7
OISA0020 PROGRAM		DEMOGRP	8F33E8D5
		DEMOGRP	65B535B7
		DEMOGRP	8F33E8D5

zFS support

Problem

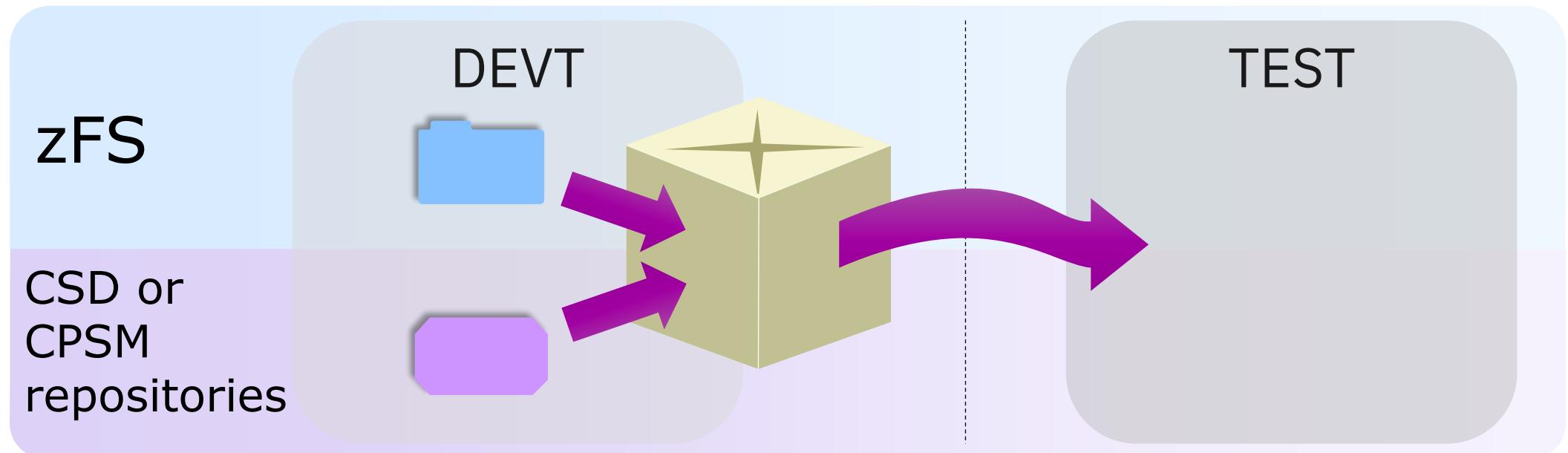
- Some CICS resource definitions have related zFS files, for example bundles and WebService WSDL files.
- **I need configuration control over these too.**



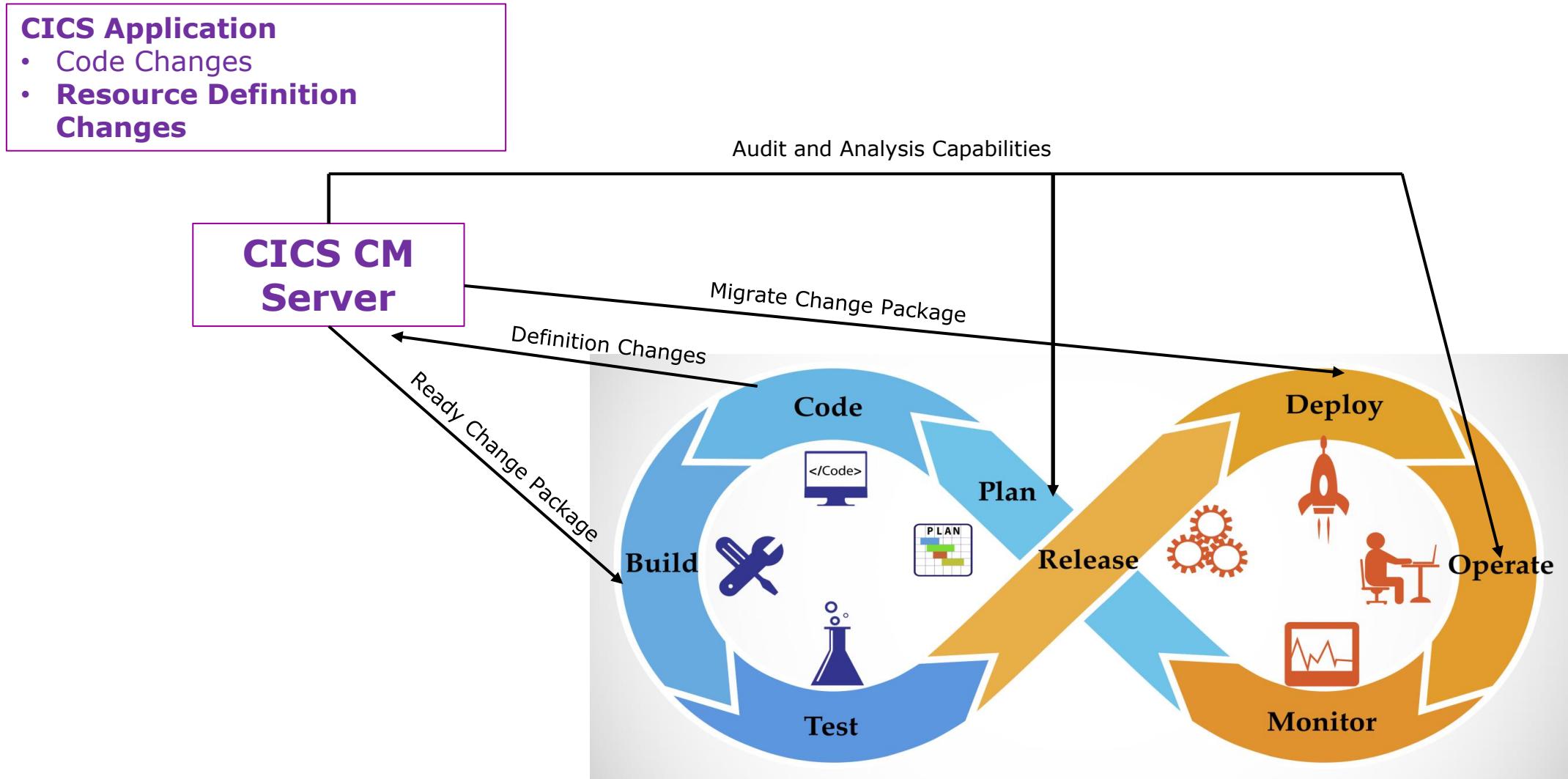
zFS support

Solution

- Define 'ZFSFILE' resource definitions that refer to zFS files or directories. Then migrate or copy the ZFSFILEs to the desired CICS configuration along with the related CICS resources.



CICS CM in the DevOps Pipeline



Summary

- DevOps for Traditional CICS Applications
- Why CICS CM is useful
- Editing CSD files
- Delegating responsibilities
- Migrating resource changes
- Changes across LPAR boundaries
- Backout
- Audit compliance
- Cleanup and analysis
- Comparisons and exception analysis
- zFS Support
- DevOps incorporating CICS CM

Thank you.

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