

Virtual CICS Users Group

Date: Tuesday 5th March 2013
Host: Trevor Eddolls
Speaker: Reuben Andrews
Product Architect
Fundi Software (Australia)

Topic:

No more Cold Start surprises:

How Deployment Analysis in IBM CICS Configuration Manager
saves your bacon

The sales rep says . . .

I promise to tell the truth, the whole . . .

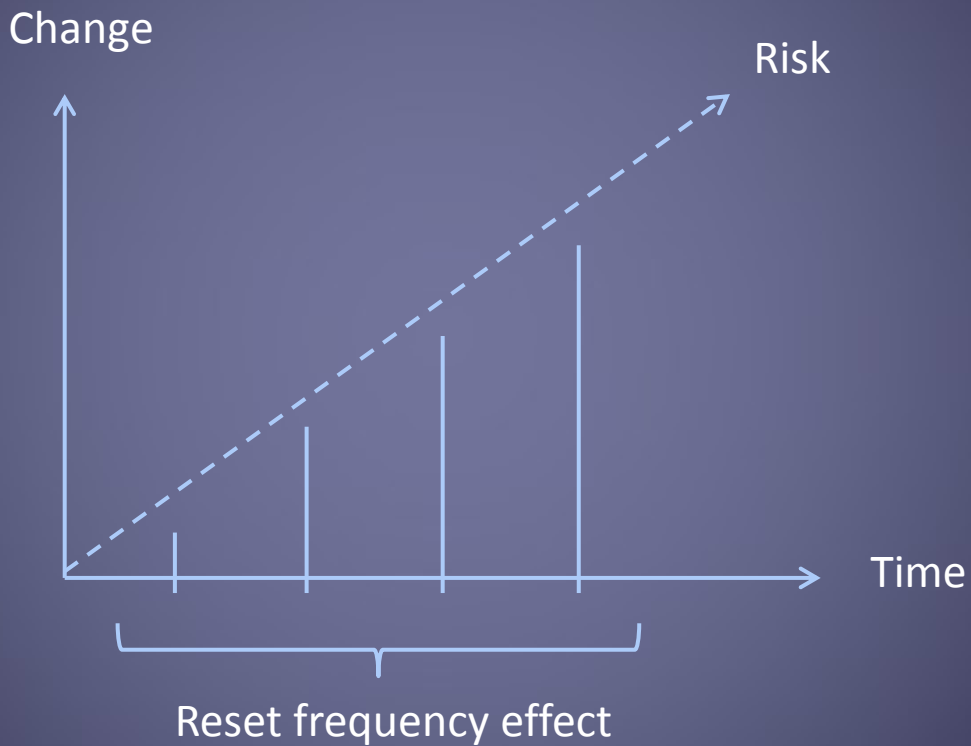
The customer says . . .

I was promised the world – and given an atlas!

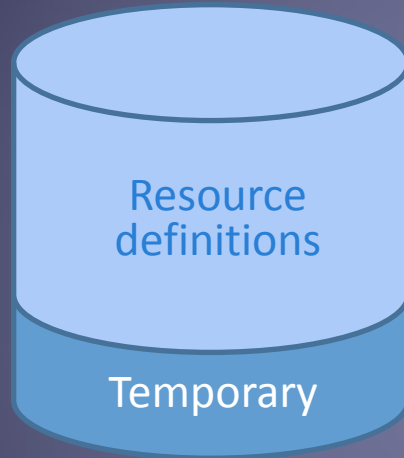
The disclaimer says . . .

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Why do Cold Start analysis?



Saving bacon paradigm



Deferred changes
Define, Alter, Delete

Deferred use
Immediate use

Immediate use



Immediate changes
Set, Install, Discard

→ Prevent → Detect → Recover

Crystal ball gazing

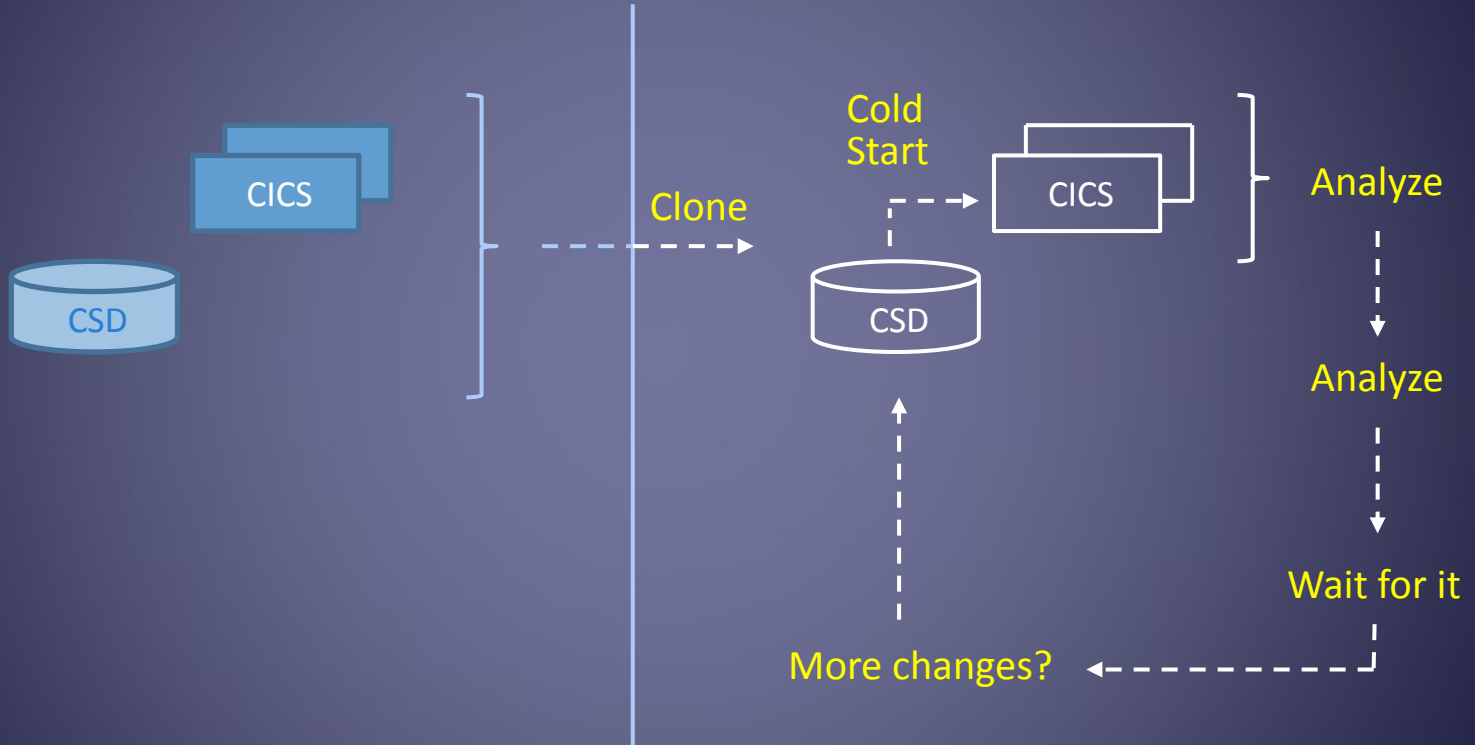


What's new?
What's missing?
What's different?

Anything else . . .



Do it yourself analysis – The Clone Wars

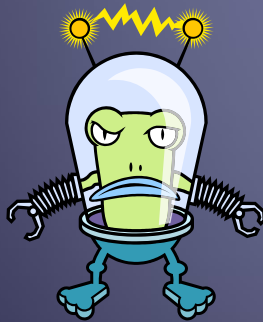


Martian thinking

2 days space travel,
specimen collection,
experimentation,
report preparation,
say 5 days total.



Road trip !!!
I hope your
bacon is tasty.



I like results

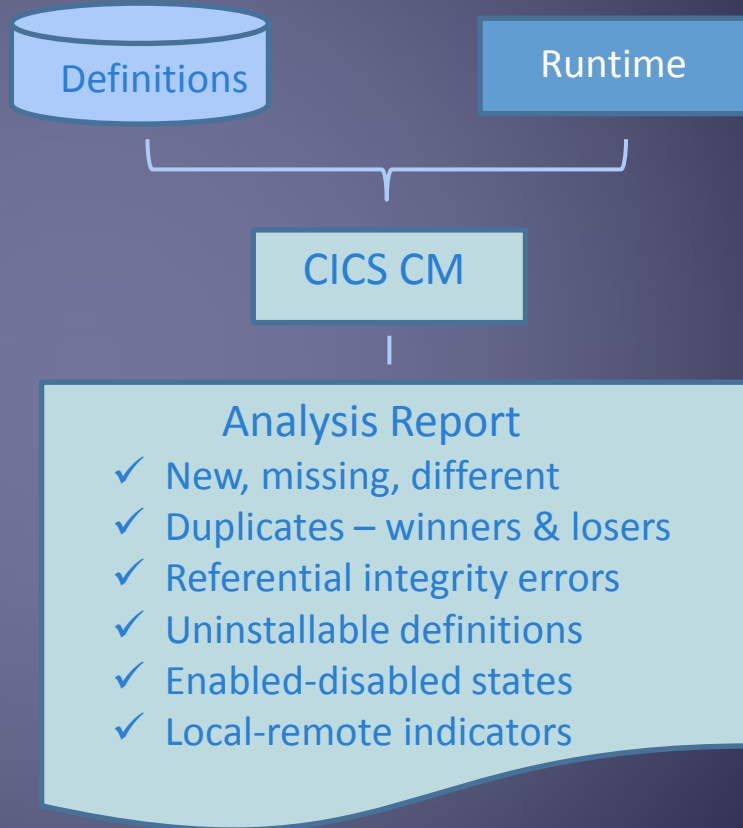


I like adventure

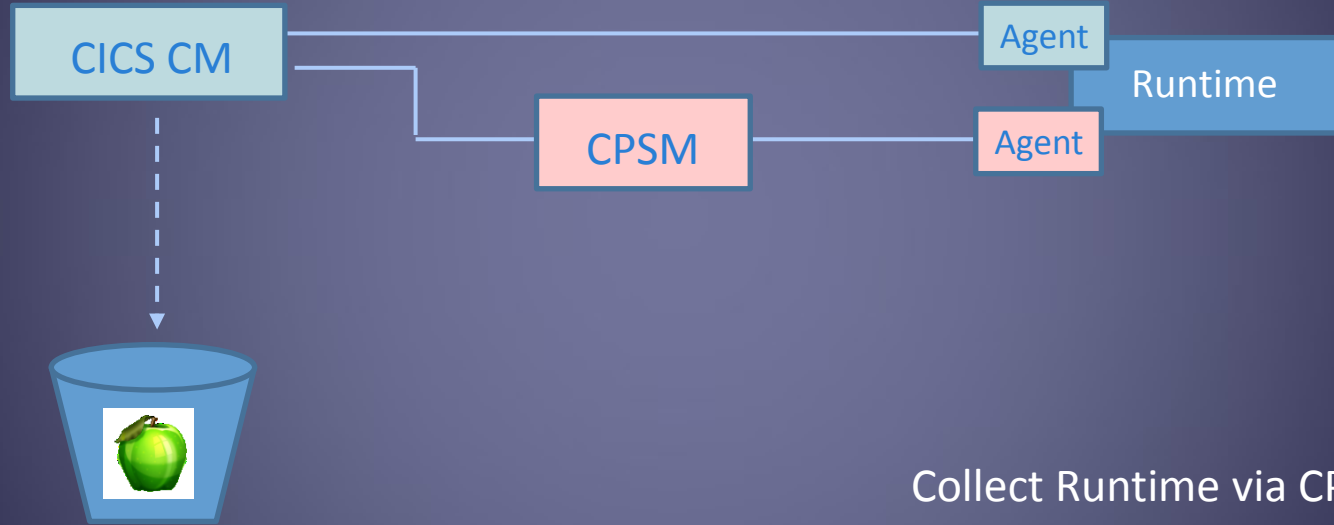
The Martian response: For those **results** focused

- ✓ Immediate analysis
- ✓ No region stoppage
- ✓ CSD, CPSM, hybrid models
- ✓ Sequence aware
- ✓ RASGNDEF aware
- ✓ Report filtering

- ✓ Absolutely **free** with every CICS CM implementation

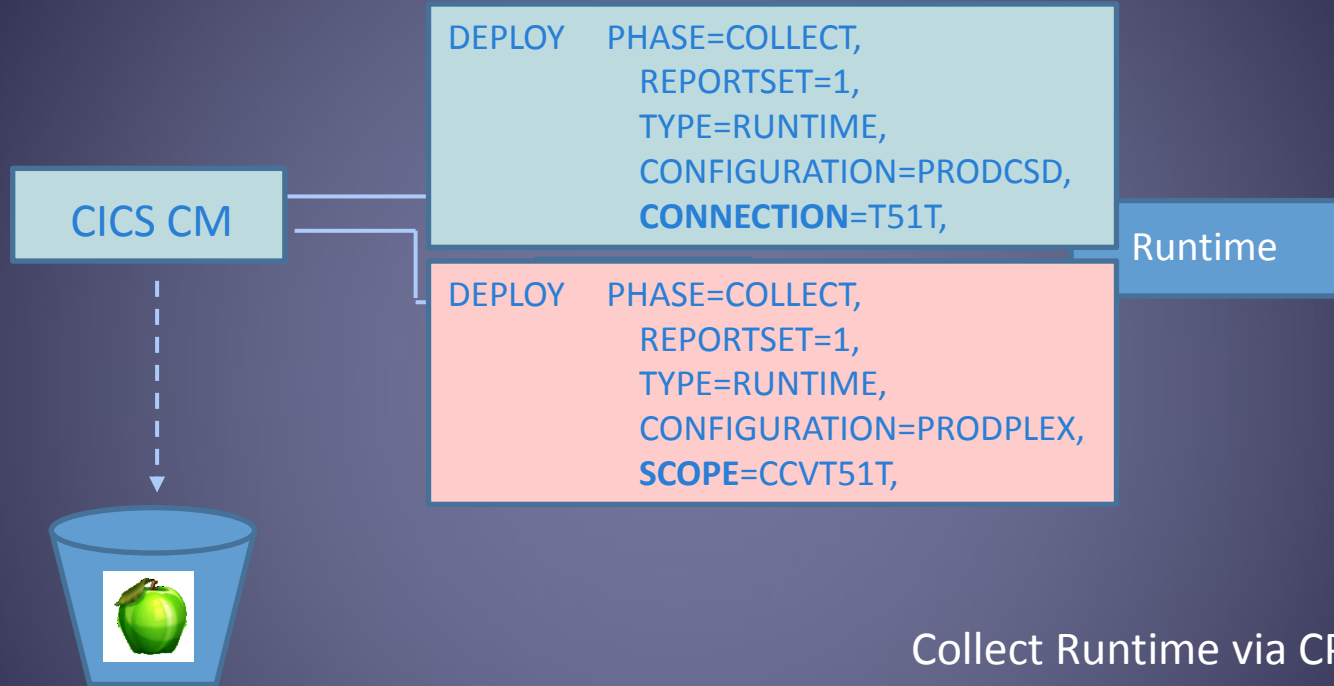


Collect species #1 - Runtime



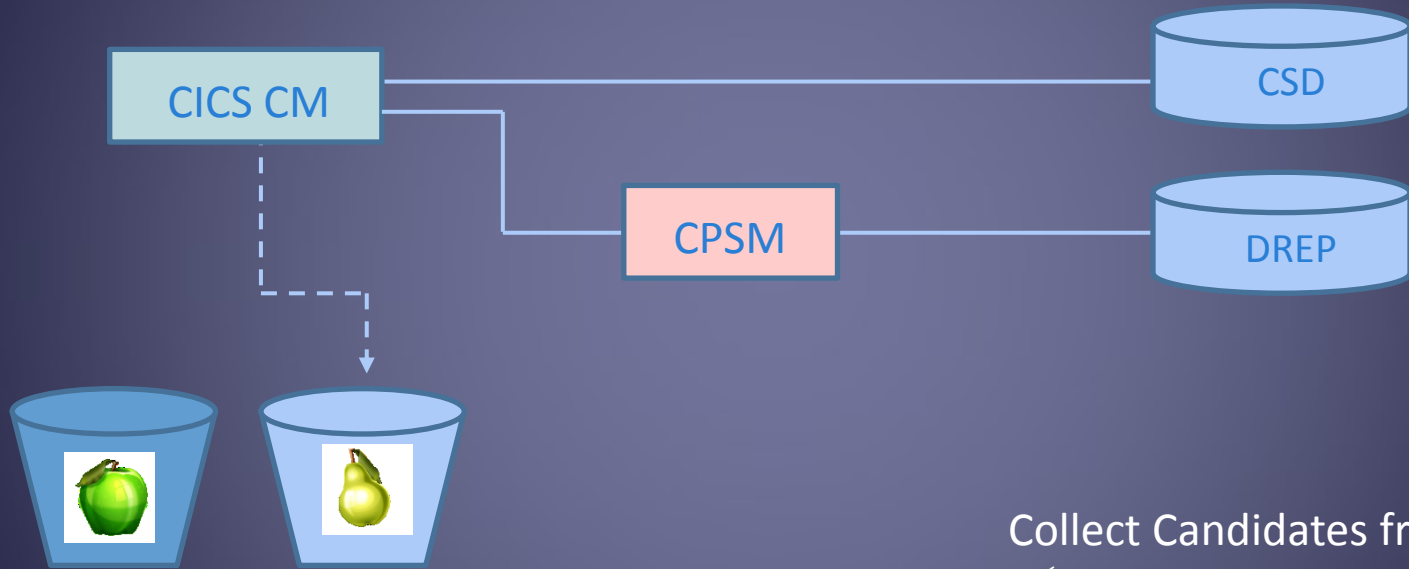
Collect Runtime via CPSM
or CICS CM connections

Collect species #1 - Runtime



Collect Runtime via CPSM
or CICS CM connections

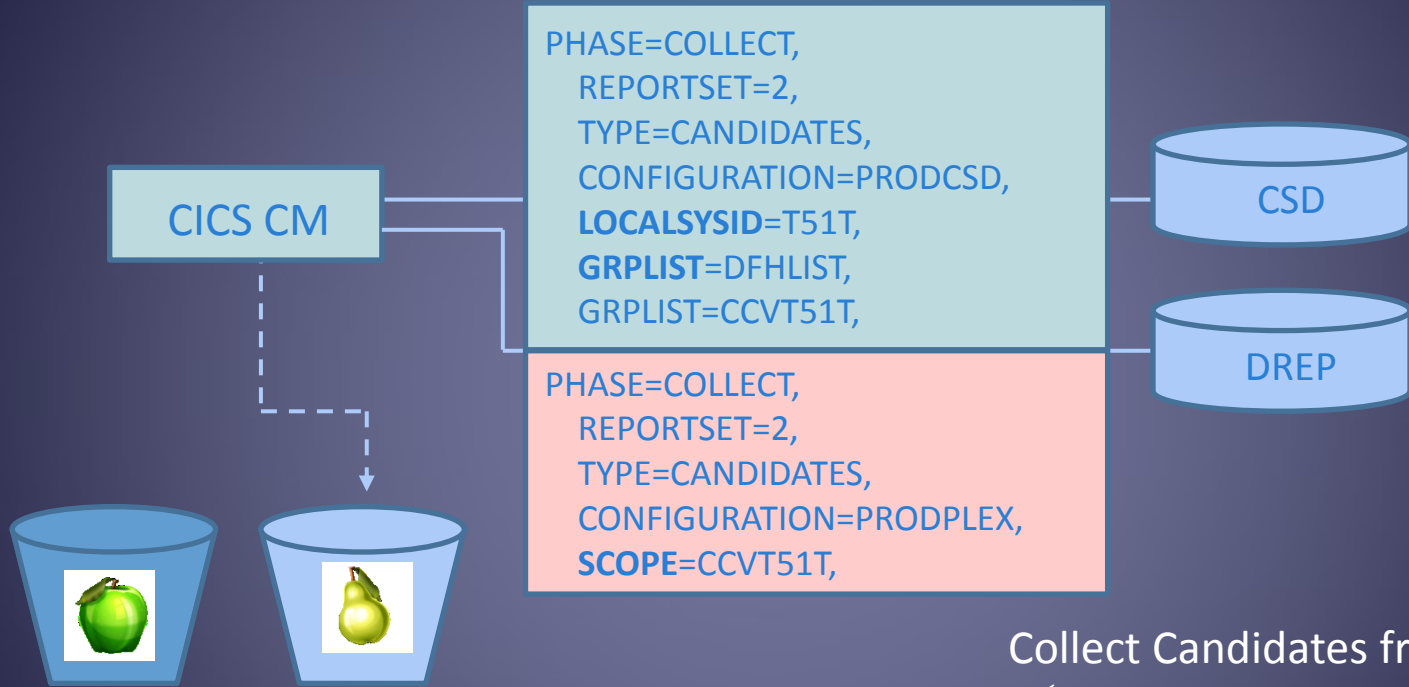
Collect species #2 - Candidates



Collect Candidates from:

- ✓ CSD
- ✓ CPSM context
- ✓ Both

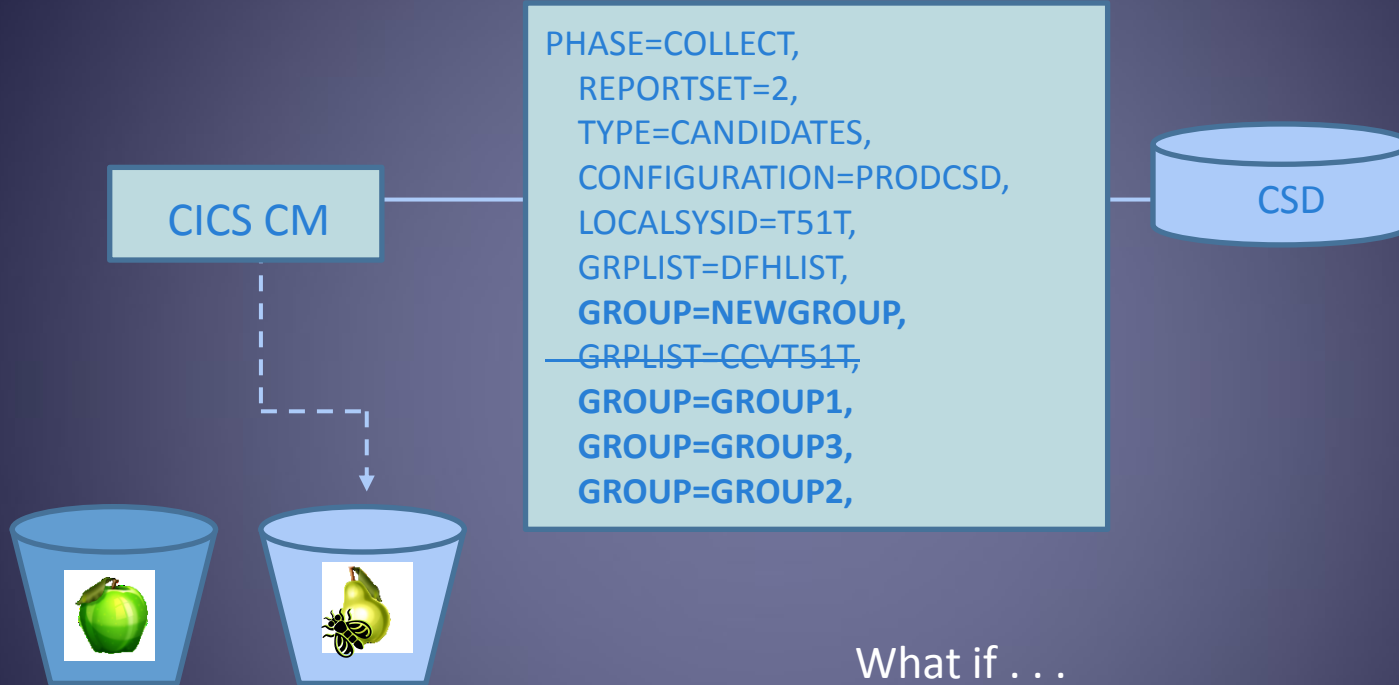
Collect species #2 - Candidates



Collect Candidates from:

- ✓ CSD
- ✓ CPSM context
- ✓ Both

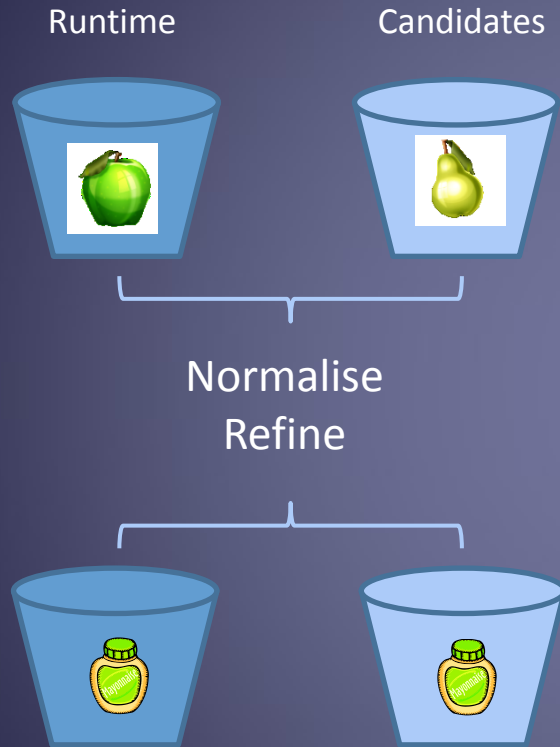
Experiment: Swapping body parts



What if . . .

- a) NEWGROUP was added?
- b) GROUP2 and GROUP3 were swapped?

Preparing specimens for analysis



- ✓ Attribute transformation
e.g. Apply RASGNDEF or Local SYSID
- ✓ Attribute stripping
e.g. Strip Description or FILE ACCESSMETHOD
- ✓ Attribute normalisation
e.g. IPCONN NETWORKID defaults
- ✓ Referential integrity checks
e.g. DB2TRAN without DB2CONN
- ✓ Candidate selection
i.e. Winner and loser outcomes

Observation: The body parts don't fit

Referential Integrity Verification

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Collection Type	Group Seq
	20	02	T51M	CONNECTION	CCVLINKS	CCM510	0941	CCV5441E	LOC	ENA	CANDIDATES-CSD	63
			Attribute: SENDPFX		Value: mt							
			Attribute: SESSION		Value: T42T							
			Attribute: GROUP		Value: CCVLINKS							
	21	02	CCVBACK	FILE	CCV510	CCM510	0951	CCV5451W	LOC	ENA	CANDIDATES-CSD	60
			Attribute: LSRPOOLNUM		Value: 1							
-----											68	Line(s) not Displayed
	55	02	CCVM	TDQUEUE	CCV510	CCM510	0966	CCV5466W	LOC	N/A	CANDIDATES-CSD	60
			Attribute: FACILITYID		Value: CCVM							
	56	02	CSZX	TDQUEUE	DFHDC	DFHLIST	0952	CCV5452W	LOC	N/A	CANDIDATES-CSD	1
			Attribute: TRANSID		Value: CZUX							

Referential Integrity Verification Messages

Message	Explanation
CCV5441E	Duplicate SESSION or modegroup-name for CONNECTION (DFHZC
CCV5451W	No LSRPOOL for ID.
CCV5452W	TRANSACTION does not exist.
CCV5466W	CONNECTION does not exist.

Comprehensive.
More than CEDA Check.

Observation: The body parts don't fit

Referential Integrity Verification

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Collection Type	Group Seq
20	02	T51M	CONNECTION	CCVLINKS	CCM510	0941	CCV5441E	LOC	ENA		CANDIDATES-CSD	63
			Attribute:		SENDPFX	Value:	mt					
			Attribute:		SESSION	Value:	T42T					
			Attribute:		GROUP	Value:	CCVLINKS					
21	02	CCVBACK	FILE	CCV510	CCM510	0951	CCV5451W	LOC	ENA		CANDIDATES-CSD	60
			Attribute:		LSRPOOLNUM	Value:	1					
											68	Line(s) not Displayed
55	02	CCVM	TDQUEUE	CCV510	CCM510	0966	CCV5466W	LOC	N/A		CANDIDATES-CSD	60
			Attribute:		FACILITYID	Value:	CCVM					
56	02	CSZX	TDQUEUE	DFHDCTG	DFHLIST	0952	CCV5452W	LOC	N/A		CANDIDATES-CSD	1
			Attribute:		TRANSID	Value:	CZUX					

Referential Integrity Verification Messages

Message	Explanation
CCV5441E	Duplicate SESSION or modegroup-name for CONNECTION (DFHZC5939).
CCV5451W	No LSRPOOL for ID.
CCV5452W	TRANSACTION does not exist.
CCV5466W	CONNECTION does not exist.

Observation: Replicants found

Duplicate Definitions Verification

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	Critical Checksum	Collect Type	Group Seq
1	01	T42T	CONNECTION	XTRAGRP	XTRALIST	0824	Superseded	LOC	ENA	94DFA4AD	CAND-CSD	1
	01			CCVLINKS	CCM510	0825		LOC	ENA	94DFA4AD	CAND-CSD	64
2	01	T51M	CONNECTION	XTRAGRP	XTRALIST	0822	Uninstallable	LOC	ENA	C025F70E	CAND-CSD	1
	01			CCVLINKS	CCM510	0822	Uninstallable	LOC	ENA	C025F70E	CAND-CSD	64
3	01	CCVTRSC	FILE	XTRAGRP	XTRALIST	0825		LOC	ENA	958A4921	CAND-CSD	1
	01			CCV510	CCM510	0823	Ineligible	LOC	ENA	958A4921	CAND-CSD	61
4	01	CCVUWF	FILE	XTRAGRP	XTRALIST	0825		LOC	ENA	043BD6C1	CAND-CSD	1
	01			CCV510	CCM510	0823	Ineligible	LOC	ENA	043BD6C1	CAND-CSD	61
5	01	SCCVLINK	LIBRARY	XTRAGRP	XTRALIST	0824	Superseded	LOC	DIS	8AFB2119	CAND-CSD	1
	01			CCVEXITS	CCM510	0825		LOC	DIS	8AFB2119	CAND-CSD	63
6	01	LSRPOOL8	LSRPOOL (8)	XTRAGRP	XTRALIST	0826	Replaced	LOC	N/A	92311DC4	CAND-CSD	1
	01			CCV510	CCM510	0825		LOC	N/A	92311DC4	CAND-CSD	61
7	01	CELCLEM	MAPSET	CEE	DFHLIST	0824	Superseded	LOC	ENA	1FE86999	CAND-CSD	55
	01			CEE	CCVT51T	0825		LOC	ENA	1FE86999	CAND-CSD	60
8	01	CELCLRH	MAPSET	CEE	DFHLIST	0824	Superseded	LOC	ENA	ECA36ED0	CAND-CSD	55
	01			CEE	CCVT51T	0825		LOC	ENA	ECA36ED0	CAND-CSD	60
9	01	CCVTSM	TSMODEL	XTRAGRP	XTRALIST	0824	Superseded	LOC	N/A	D4731066	CAND-CSD	1
	01			CCV510	CCM510	0825		LOC	N/A	A0F5292B	CAND-CSD	61

Comparing the species



- ✓ **New**
i.e. New candidates to be loaded at Cold Start
- ✓ **Missing**
i.e. Runtime resources not found in the Candidates
- ✓ **Different (mismatch)**
i.e. Candidates attributes differs, so the runtime resources will change at Cold Start

Comparing the species



- ✓ **New**
i.e. New candidates to be loaded at Cold Start
- ✓ **Missing**
i.e. Runtime resources not found in the Candidates
- ✓ **Different (mismatch)**
i.e. Candidates attributes differs, so the runtime resources will change at Cold Start

New: Candidates new to runtime

New Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Coll Type	RASGNDEF Override	Group Seq
1	02	ABCATOM1	ATOMSERVICE	ABCGROUP	CCVT51T	0100	New definition	LOC	ENA		CAND-CSD		60
2	02	ABCBUND1	BUNDLE	ABCGROUP	CCVT51T	0100	New definition	LOC	ENA		CAND-CSD		60
3	03	CMRO	CONNECTION	GR#6016	DESC6016	0100	New definition	LOC	ENA	01	CAND-CPSM		
4	02	ABC1	CONNECTION	ABCGROUP	CCVT51T	0100	New definition	LOC	ENA		CAND-CSD		60
5	02	T51M	CONNECTION	CCVLINKS	CCM510	0102	Uninstallable	LOC	ENA		CAND-CSD		64
6	02	ABC2	CORBASERVER	ABCGROUP	CCVT51T	0100	New definition	LOC	ENA		CAND-CSD		60
7	02	ABCDDB2C1	DB2CONN	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
8	02	ABCDDB2E1	DB2ENTRY	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
9	02	DFHtran	DB2TRAN	NEWDB2E1	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
10	02	ABCDDB2T1	DB2TRAN	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
11	02	ABCDJAR1	DJAR	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
12	02	ABCDOCT1	DOCTEMPLATE	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
13	02	ABCENQM1	ENQMODEL	ABCGROUP	CCVT51T	0100	New definition	LOC	DIS		CAND-CSD		60
14	02	ABCFILE1	FILE	ABCGROUP	CCVT51T	0100	New definition	LOC	UNE		CAND-CSD		60
15	02	ABCIPCO1	IPCONN	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
16	02	ABCJMOD1	JOURNALMODEL	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
17	02	ABCJVMS1	JVMSEVER	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
18	02	ABCLIBR1	LIBRARY	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
19	02	ABCMAPS1	MAPSET	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60
20	02	ABCMQCO1	MQCONN	ABCGROUP	CCVT51T	0100	New definition	LOC	N/A		CAND-CSD		60

Wouldn't it be nice to hide these expected changes?

Missing: No candidate found

Missing Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
3	01	CCVR0001	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		6A2EC91F	RUNTIME-CCM
4	01	CCVR0002	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		1EB51DC0	RUNTIME-CCM
5	01	CCVR0003	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		B35A2F4D	RUNTIME-CCM
6	01	CCVR0004	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		5BC80BF5	RUNTIME-CCM
7	01	DFHCSD	FILE	SYSTEM	N/A	0200	Missing	LOC	ENA		25940214	RUNTIME-CCM
8	01	DFHRPL	LIBRARY	SYSTEM	N/A	0200	Missing	LOC	ENA		A3D406B0	RUNTIME-CCM
9	01	EYUCICSD	PROFILE	SYSTEM	N/A	0200	Missing	LOC	N/A		D1AAC5C4	RUNTIME-CCM
10	01	DFHAPATT	PROGRAM	SYSTEM	N/A	0200	Missing	LOC	ENA		E444CAEA	RUNTIME-CCM
11	01	DFHDTLX	PROGRAM	SYSTEM	N/A	0200	Missing	LOC	ENA		29156826	RUNTIME-CCM
12	01	DFHD2RP	PROGRAM	SYSTEM	N/A	0200	Missing	LOC	ENA		B84523B8	RUNTIME-CCM
											60 Line(s)	not Displayed
73	01	EYU9XL01	PROGRAM	SYSTEM	N/A	0200	Missing	LOC	ENA		C0C56875	RUNTIME-CCM
74	01	EYU9XM01	PROGRAM	SYSTEM	N/A	0200	Missing	LOC	ENA		21EB6211	RUNTIME-CCM
75	01	EYU9XQ01	PROGRAM	SYSTEM	N/A	0200	M					M
76	01	EYU9XSTR	PROGRAM	SYSTEM	N/A	0200	M					M
77	01	EYU9XS01	PROGRAM	SYSTEM	N/A	0200	M					M
78	01	EYU9XZ01	PROGRAM	SYSTEM	N/A	0200	M					M
79	01	CCVBASIC	TCPIP SERVICE	CCVIINIT	N/A	0200	M					M
80	01	CCVNONE	TCPIP SERVICE	CCVIINIT	N/A	0200	Missing	LOC	ENA		4CDA4C07	RUNTIME-CCM

Wouldn't it be nice to hide these auto-installed resources?

Mismatch: Runtime is going to change

Mismatched Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	Deploy VV	Checksum	Collection Type
181	01	XPALOG	FILE	XPATEST	N/A	0300	Checksum Mismatch	LOC	ENA	9AA23282	RUNTIME-CCM	
		Attribute:	DSNAME		Value:	XPA110.TESTING.XPALOG						
02	XPALOG	FILE	XPATEST	N/A	0300	Checksum Mismatch	LOC	ENA	0768606C	CAND-CSD		
		Attribute:	DSNAME		Value:	XPA110.CCVDEMO.XPALOG						
182	01	XPAOWEBC	PROGRAM	XPATEST	N/A	0300	Checksum Mismatch	LOC	ENA	25B2A226	RUNTIME-CCM	
		Attribute:	CEDF		Value:	NO						
		Attribute:	DATALOCATION		Value:	BELOW						
02	XPAOWEBC	PROGRAM	XPATEST	N/A	0300	Checksum Mismatch	LOC	ENA	119B7DA0	CAND-CSD		
		Attribute:	CEDF		Value:	YES						
		Attribute:	DATALOCATION		Value:	ANY						
183	01	XPAOWEBI	PROGRAM	XPATEST	N/A	0300	Checksum Mismatch	LOC	ENA	82E41E77	RUNTIME-CCM	
		Attribute:	DATALOCATION		Value:	BELOW						
		Attribute:	EXECKEY		Value:	CICS						
02	XPAOWEBI	PROGRAM	XPATEST	N/A	0300	Checksum Mismatch	LOC	ENA				
		Attribute:	DATALOCATION		Value:	ANY						
		Attribute:	EXECKEY		Value:	USER						

What is this?

Matched – but with exceptions

Matched Definitions (with exceptions)

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
1	01	ABCPRTN1	PARTITIONSET	ABCGRP	N/A	0001	Runtime state	LOC	ENA		3F41DDBC	RUNTIME-CCM
	02	ABCPRTN1	PARTITIONSET	ABCGRP	CCVT51T	0001	Defined state	LOC	DIS		3F41DDBC	CAND-CSD
2	01	ABCPPIPE1	PIPELINE	ABCGRP	N/A	0001	Runtime state	LOC	DIS		A367BE5E	RUNTIME-CCM
	02	ABCPPIPE1	PIPELINE	ABCGRP	CCVT51T	0001	Defined state	LOC	ENA		A367BE5E	CAND-CSD
3	01	CCVBACK	FILE	CCV510	N/A	0001	Runtime state	LOC	DIS		93096B3C	RUNTIME-CCM
	02	CCVBACK	FILE	CCV510	CCM510	0001	Defined state	LOC	ENA		93096B3C	CAND-CSD

Deploy Checksum

To compare resource definitions, CICS Configuration Manager uses their attribute values to calculate a checksum. The deploy checksum excludes attributes that do not occur in runtime resource definitions (such as Description) and attributes that determine the transient (enabled or disabled) state of a resource definition.



Classifying the observations

Missing Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
5	01	CCVR0003	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		B35A2F4D	RUNTIME-CCM
6	01	CCVR0004	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		5BC80BF5	RUNTIME-CCM
7	01	DFHCSD	FILE	SYSTEM	N/A	0200	Missing	LOC	ENA		25940214	RUNTIME-CCM

What

Why

New Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Collect Type	RASGNDEF Override	Group Seq
3	03	CMRO	CONNECTION	GR#6016	DESC6016	0100	New definition	LOC	ENA	01	CAND-CPSM		
4	02	ABC1	CONNECTION	ABCGROUP	CCVT51T	0100	New definition	LOC	ENA		CAND-CSD		60
5	02	T51M	CONNECTION	CCVLINKS	CCM510	0102	Uninstallable	LOC	ENA		CAND-CSD		64

Ignoring the obvious

00 Matched

01 Enabled/disabled state difference

01 New

02 Uninstallable resources

02 Missing

00 Auto-installed resources

00 Dynamically installed resources

09 Referential Integrity

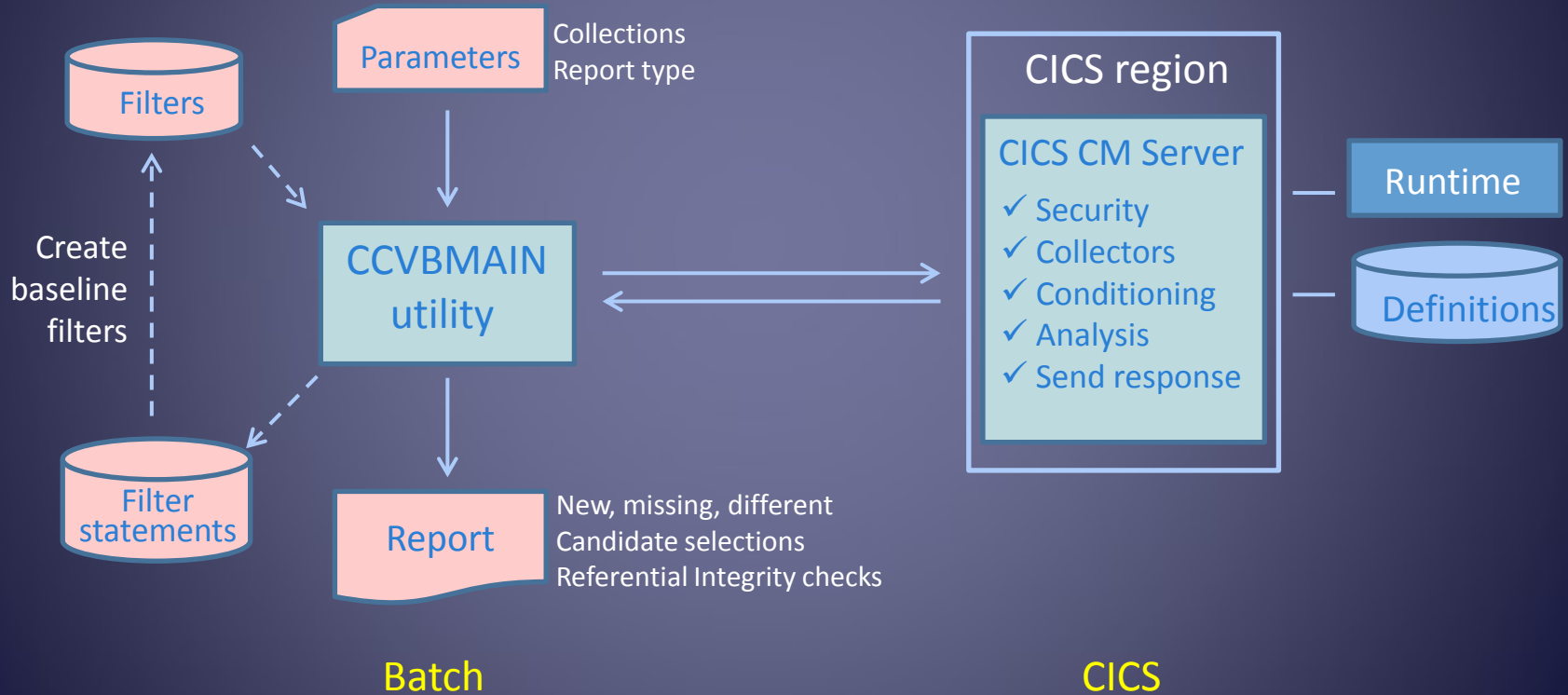
50 References to undefined program

Noise filter

Code	Name	Type	Group	Description
0001	*	*	*	Enabled state
0102	*	*	*	New uninstallable
0200	*	Program	SYSTEM	Autoinstall program
0200	CCVR*	File	CCV*	CICS CM files
0950	*	Program	SYSTEM	RI to program

*	Rpt	Applid	Exclusion	Resource	Resource	Resource	
*			Code	Name	Type	Group	Comments
*	---	---	---	---	---	---	---
DEP	*		01**	CEE*	*	CEE	LE definitions
DEP	*		02**	*	*	DFH*	CICS TS definitions
DEP	*		0200	*	TERMINAL	*	Autoinst terminals
DEP	*		03**	*	*	DFH*	CICS TS definitions
DEP	*		02**	CCVR*	FILE	*	CICS CM Configs
DEP	*		08**	CED*	TRANSACTION	*	CICS CM CEDA trans

Request processing



Input JCL

```
//CCVBATCH EXEC PGM=CCVBMAIN
//STEPLIB DD DISP=SHR,DSN=CCVS.SCCVAENU
// DD DISP=SHR,DSN=CCVS.SCCVAUTH
//CCVPRINT DD SYSOUT=* * Utility messages
//CCVREPRT DD SYSOUT=* * Report output
//CCVFLTEX DD SYSOUT=* * New filter statements
//CCVPARMS DD *
CONNECT IPADDRESS=LOCALHOST,PORT=nnnnn,SSL=NO
DEPLOY PHASE=COLLECT,
        REPORTSET=1,
        TYPE=RUNTIME,
        CONFIGURATION=PRODCSD,
        CONNECTION=T51T,
        PHASE=COLLECT,
        REPORTSET=2,
        TYPE=CANDIDATES,
        CONFIGURATION=PRODCSD,
        LOCALSYSID=T51T,
        GRPLIST=DFHLIST,
        GRPLIST=CCVT51T,
        GRPLIST=CCM510,
        PHASE=COLLECT,
        REPORTSET=2,
        TYPE=CANDIDATES,
        CONFIGURATION=PRODPLEX,
        SCOPE=CCVT51T,
        PHASE=REPORT,
        TYPE=COLDSTARTCOMPARE,
        FILTERDATASET=CCVCICS.DEPLOY.FILTER.FILE
/*
```

← Output files

← Connection Server

← Runtime collection

← Candidates from CSD

← Candidates from CPSM

← Report type
& filter input

Job Output: JESMSGGLG

J E S 2 J O B L O G -- S Y S T E M X X X X

Look how fast this was !!!

```
15.55.33 JOB78237 ---- TUESDAY, 05 MAR 2013 ----
15.55.33 JOB78237 IRR010I USERID XXXX IS ASSIGNED TO THIS JOB.
15.55.33 JOB78237 ICH70001I XXXX LAST ACCESS AT 15:51:35 ON TUESDAY, MARCH 5, 2013
15.55.33 JOB78237 $HASP373 X06#JCL STARTED - INIT 6 - CLASS E - SYS XXXX
15.55.33 JOB78237 IEF403I X06#JCL - STARTED - TIME=15.55.33
15.55.55 JOB78237 HTRT01I
15.55.55 JOB78237 HTRT02I Jobname Stepname ProcStep RC I/O hh:mm:ss.th hh:mm:ss.th hh:mm:ss.th
15.55.55 JOB78237 HTRT03I X06#JCL CCVBATCH 00 410 00.16 21.37 00.16
15.55.55 JOB78237 IEF404I X06#JCL - ENDED - TIME=15.55.55
15.55.55 JOB78237 *=====*
15.55.55 JOB78237 |STEP# | STEPNAME | PROCSTEP | CONDCODE | CPUSECS | NUM OF I/O'S |
15.55.55 JOB78237 |=====|
15.55.55 JOB78237 |00001 | CCVBATCH | | 0000 | 0.16 | 132 |
15.55.55 JOB78237 |-----|-----|-----|-----|-----|-----|
15.55.55 JOB78237 |TOTALS| | | 0000 | 0.16 | 132 |
15.55.55 JOB78237 *=====*
15.55.55 JOB78237 HTRT06I
15.55.55 JOB78237 HTRT04I X06#JCL Job Service Totals 410 00.16 21.38 00.16
15.55.55 JOB78237 $HASP395 X06#JCL ENDED
```

Report Output: Data Sources

This tells you what you reported on

Data Sources

ID	Date	Time	Records	CollectionType	ReportSet	SMFID	Context	Scope	APPLID	SYSID
01	2013/03/05	15:55	28282	RUNTIME-CCM	1	XXXX			CCVT51T	T51T
02	2013/03/05	15:55	30958	CANDIDATES-CSD	2	XXXX				T51T
03	2013/03/05	15:55	3	CANDIDATES-CPSM	2	XXXX	CCVPLEXI	CCVT51T	CCVT51T	T51T

Report Output: Summary

Report Summary

ReportSet 1 Count	ReportSet 2 Count	Code	Description
28128	28128		Total matched definitions with no exceptions
154	57		Total mismatched definitions
0	2776		Total definitions excluded from analysis

This is a summary, but it also tells you how much was filtered out.

Filtering Summary

ReportSet 1 Count	ReportSet 2 Count	Code	Description
0	0	00**	Matched definitions suppressed by filters
0	0	01**	New definitions suppressed by filters
109	0	02**	Missing definitions suppressed by filters
6	6	03**	Mismatched definitions suppressed by filters
0	0	05**	Inventory report records suppressed by filters
0	2745		Duplicate definitions found
0	4798	08**	Duplicates suppressed by filters
0	86		RI-check exceptions found
0	41	09**	RI-checks suppressed by filters
115	4845		Total definitions suppressed by filters

Report Output: Matched (with exceptions)

Enabled/disabled
state differences.

Matched Definitions (with exceptions)

Report Item	ID	Name	Type	Group	List or RESDISC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
1	01	PAYJVMS1	JVMSEVER	PAYGROUP	N/A	0001	Runtime state	LOC	DIS		9AE51686	RUNTIME-CCM
	02	PAYJVMS1	JVMSEVER	PAYGROUP	CCVT51T	0001	Defined state	LOC	ENA		9AE51686	CAND-CSD

Report Output: New definitions

This is the NEW stuff.

New Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
2	02	NEWATOM1	ATOMSERVICE	NEWGRP	CCVT51T	0100	New definition	LOC	ENA		0978B7B1	CAND-CSD
3	02	PAYATOM1	ATOMSERVICE	PAYGROUP	CCVT51T	0100	New definition	LOC	ENA		970B76C1	CAND-CSD
4	02	NEWBUND1	BUNDLE	NEWGRP	CCVT51T	0100	New definition	LOC	ENA		B9C1F5B5	CAND-CSD
5	02	PAYBUND1	BUNDLE	PAYGROUP	CCVT51T	0100	New definition	LOC	ENA		A058314C	CAND-CSD
6	03	CMRO	CONNECTION	GR#6016	DESC6016	0100	New definition	LOC	ENA	01	DEBBC6EB	CAND-CPSM
7	02	NEW1	CONNECTION	NEWGRP	CCVT51T	0100	New definition	LOC	ENA		B4F2916E	CAND-CSD
8	02	PAY1	CONNECTION	PAYGROUP	CCVT51T	0102	Uninstallable	LOC	ENA		A6278072	CAND-CSD
9	02	T51M	CONNECTION	CCVLINKS	CCM510	0102	Uninstallable	LOC	ENA		F233E4E2	CAND-CSD
10	02	NEW2	CORBASERVER	NEWGRP	CCVT51T	0100	New definition	LOC	ENA		033FFAFD	CAND-CSD
11	02	PAY2	CORBASERVER	PAYGROUP	CCVT51T	0100	New definition	LOC	ENA		2106133E	CAND-CSD
12	02	NEWDB2E1	DB2ENTRY	NEWGRP	CCVT51T	0102	Uninstallable	LOC	N/A		DD8CE944	CAND-CSD
13	02	NEWDB2T1	DB2TRAN	NEWGRP	CCVT51T	0102	Uninstallable	LOC	N/A		39659077	CAND-CSD

32 Line(s) not Displayed

Report Output: Missing definitions

This is the MISSING stuff.

Missing Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
46	01	OLD1	CONNECTION	TEMPGRP	N/A	0200	Missing	LOC	DIS		A69B9733	RUNTIME-CCM
47	01	OLDDOCT1	DOCTEMPLATE	TEMPGRP	N/A	0200	Missing	LOC	N/A		83850FF8	RUNTIME-CCM
48	01	OLDENQM1	ENQMODEL	TEMPGRP	N/A	0200	Missing	LOC	DIS		8FC52678	RUNTIME-CCM
49	01	CCVR0001	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		6A2EC91F	RUNTIME-CCM
50	01	CCVR0002	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		5F8B55AD	RUNTIME-CCM
51	01	CCVR0003	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		F9FAFC9B	RUNTIME-CCM
52	01	CCVR0004	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		6A26830F	RUNTIME-CCM
53	01	CCVR0005	FILE	CCVSRCS	N/A	0200	Missing	LOC	UNE		BC87EAAE	RUNTIME-CCM
54	01	OLDFILE1	FILE	TEMPGRP	N/A	0200	Missing	LOC	UNE		4CD385AC	RUNTIME-CCM
55	01	OLDIPCO1	IPCONN	TEMPGRP	N/A	0200	Missing	LOC	ENA		989CF2FF	RUNTIME-CCM
56	01	OLDJVMS1	JVMSEVER	TEMPGRP	N/A	0200	Missing	LOC	DIS		C2A71C24	RUNTIME-CCM
57	01	OLDLIBR1	LIBRARY	TEMPGRP	N/A	0200	Missing	LOC	DIS		92F37F91	RUNTIME-CCM

20 Line(s) not Displayed

Report Output: Mismatched definitions

These are going to change at Cold Start.

Mismatched Definitions

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
78	01	PAYFILE1	FILE	PAYGROUP	N/A	0300	Checksum Mismatch	LOC	UNE		B244AA67	RUNTIME-CCM
		Attribute:	DSNAME		Value:	ABC110.TEST.FILE						
		Attribute:	LSRPOOLID		Value:	--BLANK--						
	02	PAYFILE1	FILE	PAYGROUP	CCVT51T	0300	Checksum Mismatch	LOC	UNE		B1636C79	CAND-CSD
		Attribute:	DSNAME		Value:	ABC110.PROD.FILE						
		Attribute:	LSRPOOLID		Value:	1						
79	01	PAYIPC01	IPCONN	PAYGROUP	N/A	0300	Checksum Mismatch	LOC	ENA		0CACCCC0	RUNTIME-CCM
		Attribute:	PORT		Value:	65510						
		Attribute:	NETWORKID		Value:	XXXX						
	02	PAYIPC01	IPCONN	PAYGROUP	CCVT51T	0300	Checksum Mismatch	LOC	ENA		A4AC2AE2	CAND-CSD
		Attribute:	PORT		Value:	65508						
		Attribute:	NETWORKID		Value:	--BLANK--						
80	01	PAYLIBR1	LIBRARY	PAYGROUP	N/A	0300	Checksum Mismatch	LOC	DIS		279AD854	RUNTIME-CCM
		Attribute:	RANKING		Value:	9						
	02	PAYLIBR1	LIBRARY	PAYGROUP	CCVT51T	0300	Checksum Mismatch	LOC	DIS		C92F0646	CAND-CSD
		Attribute:	RANKING		Value:	11						

----- 17 Line(s) not Displayed

Report Output: Duplicate winners/losers

Only 1 DB2CONN and MQCONN allowed.
Only 1 LSRPOOL by number allowed.

Duplicate Definitions Verification

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Loc Rem	Ena	VV	Deploy Checksum	Collection Type
84	02	NEWDB2C1	DB2CONN	NEWGRP	CCVT51T	0826	Replaced	LOC	N/A		CD152735	CAND-CSD
85	02	PAYDB2C1	DB2CONN	PAYGROUP	CCVT51T	0825		LOC	N/A		CD152735	CAND-CSD
86	02	NEWLSRP1	LSRPOOL(8)	NEWGRP	CCVT51T	0826	Replaced	LOC	N/A		102BAB8D	CAND-CSD
87	02	PAYLSRP1	LSRPOOL(8)	PAYGROUP	CCVT51T	0826	Replaced	LOC	N/A		EC9CAB11	CAND-CSD
88	02	LSRPOOL8	LSRPOOL(8)	CCV510	CCM510	0825		LOC	N/A		73A0B0BB	CAND-CSD
89	02	CELCLEM	MAPSET	CEE	DFHLIST	0824	Superseded	LOC	ENA		1FE86999	CAND-CSD
	02			CEE	CCVT51T	0825		LOC	ENA		1FE86999	CAND-CSD
90	02	CELCLRH	MAPSET	CEE	DFHLIST	0824	Superseded	LOC	ENA		ECA36ED0	CAND-CSD
	02			CEE	CCVT51T	0825		LOC	ENA		ECA36ED0	CAND-CSD
91	02	NEWMQCO1	MQCONN	NEWGRP	CCVT51T	0826	Replaced	LOC	N/A		8577E499	CAND-CSD
92	02	PAYMQCO1	MQCONN	PAYGROUP	CCVT51T	0825		LOC	N/A		8577E499	CAND-CSD

Report Output: Referential Integrity Checks

Referential Integrity Verification

Warnings & errors that affect candidacy.

Report Item	ID	Name	Type	Group	List or RESDESC	Code	Condition	Location	Checksum	Type
93	02	PAY1	CONNECTION	PAYGROUP	CCVT51T	0941	CCV5441E	LOC ENA	A6278072	CAND-CSD
		Attribute:	SENDPFX		Value:	S				
		Attribute:	SESSION		Value:	NEWSSESS1				
		Attribute:	GROUP		Value:	NEWGRP				
94	02	T51M	CONNECTION	CCVLINKS	CCM510	0941	CCV5441E	LOC ENA	F233E4E2	CAND-CSD
		Attribute:	SENDPFX		Value:	mt				
		Attribute:	SESSION		Value:	T42T				
		Attribute:	GROUP		Value:	CCVLINKS				
95	02	NEWDB2C1	DB2CONN	NEWGRP	CCVT51T	0958	CCV5458W	LOC N/A	CD152735	CAND-CSD
		Attribute:	MSGQUEUE2		Value:	CDB3				
02	02	NEWDB2C1	DB2CONN	NEWGRP	CCVT51T	0958	CCV5458W	LOC N/A	CD152735	CAND-CSD
		Attribute:	MSGQUEUE3		Value:	CDB4				

Message Explanation

CCV5435E Same TEMPLATE installed by DOCTEMPLATE (DFHAM4908)
CCV5441E Duplicate SESSION or modegroup-name for CONNECTION (DFHZC5939).
CCV5445E URIMAP maps the same URI as another URIMAP (DFHAM4930).
CCV5447E Same ENQNAME installed by another ENQMODEL (DFHAM4874).
CCV5450W PROGRAM does not exist.

14 Line(s) not Displayed

92 Line(s) not Displayed

News headline: Saving your bacon makes Martians happy

- ☑ No more Cold Start surprises
- ☑ Fast, immediate analysis
 - 28,282 runtime resources
 - 30,961 candidate resources
 - 4,960 observations suppressed by filters
 - 125 observations for analysis
 - 22 seconds batch job elapsed time
- ☑ No region stoppage
- ☑ CSD, CPSM, hybrid models
- ☑ Comprehensive reports
- ☑ Report filtering



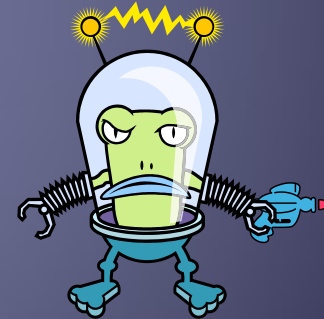
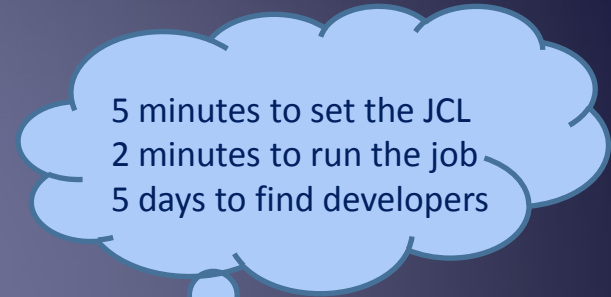
I like adventure

☑ One **free** question with every CICS CM presentation

☑ You want **more?**

- ✓ Seamless CSD to CPSM BAS management
- ✓ Standards enforcement rules
- ✓ Security at the Group, Type, Name level
- ✓ Audit tracking, version histories, reporting
- ✓ Change package migrations & back out
- ✓ Migration transformation rules
- ✓ Side-by-side compare (Lists, Groups, resources)
- ✓ Migration transformation rules
- ✓ CSD clean-up aids

See: <http://www-01.ibm.com/software/htp/cics/cm/>



I like results

Virtual CICS Users Group

Date: Tuesday 5th March 2013
Host: Trevor Eddolls
Speaker: Reuben Andrews
Product Architect
Fundi Software (Australia)

Concluded topic:

No more Cold Start surprises:

How Deployment Analysis in IBM CICS Configuration Manager
saves your bacon