# Log Management ICEBATA SAEBATA IPLCheck



https://www.newera.com

## **All Sysplex LPARs in a Single View**



	d			Sysplex	- LPAR	Inspe	ction .	Analy	tics		1			
Row	Base	LPAR Name	yy/mm/dd	hhimmiss	Finding	Err	War	Not	Inf	IPLPath	UnPack	Reports	Ch	arts
01	R	MYICE00A	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	<b>\$</b> \$\$	6	6 <u>1</u> 6		¢
02	R	MYICE00B	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	<b>8</b> 67	6	8.8.8 610	1	¢
03	R	MYICE00C	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	80		8.8.8 616		¢
04	R	MYICE00D	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	84		888 616		¢
05	R	MYICE00E	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	84	F	888 616		¢
06	R	MYICE00F	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	84	The second secon	888 616		¢
07	R	MYICE00G	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	80	The second secon	100		C
08	R	MYICE00H	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	<b>8</b> 64	E 6	888 616		¢
09	R	MYICE001	22/10/02	13:50:21		002	<u>144</u>	008	<u>037</u>	80	F	888 010		¢
10	<u>e</u>	MYICE00J	22/10/02	13:50:21		002	<u>144</u>	<u>008</u>	<u>037</u>	80	<b>1</b>	888 616		¢

### **Overview**

Image FOCUS Batch Inspections populate their steps and findings in site-defined z/OS sequential datasets called Inspection Logs. Each of these datasets is persistently named by design, updated and written over with each new batch inspection. Issues can arise when a large number of LPARs are under investigation. This can best be described as an issue of "Log Management" that can lead to difficulty in maintaining centralized control and understanding of

inspection findings across the entire z/Environment or perhaps multiple Local and/or Remote Central Electric Complexes (CEC).

As shown in the diagram below the ICEDirect Applications – MyBAT, MySAE, MyCHK are designed to provide a Web-Based solution to this problem by providing a common interface that supports the entry of and subsequent analysis of an unlimited number of named Inspection Logs. These names are used as a constant such that as Batch Inspections occur and the Log Dataset updates the interface, it inherits the update making it immediately available for Access, Analysis, Comparison, Snapshots, Reports, Monitor and Alerts.

Of course, this is not without some setup effort. For example, if log names are not consistent across the environment, then this would likely be the first step. This can be easily accomplished by updating the initiating BATCH Jobs. The benefit will be a better understanding and control of the process. The next step would be to put in place processes that ensure that ALL Inspection Logs find their way to a Common Shared Inspection Log Repository. This is accomplished by Local LPARs sharing DASD and Remote LPARs using a Secure Method (SecureFTP) to upload their logs to a host environment where they could then be stored alongside the Local Logs.



### IMAGE FOCUS BATH INSPECTIONS AND THEIR PERSISTENT LOG MANAGEMENT!

## ICEDirect Applications

ICEDirect is a Web-based application platform that uses a secure TCP/IP connection between its z/OSresident webserver/host and an internet browser, to access and visualize the Integrity Controls Environment (ICE) information in support of both Image FOCUS (IFO) and The Control Editor (TCE).

The specific ICEDirect Applications that support "Log Management" - MyBAT, MySAE, MyCHK are all accessed from the ICEDirect "SideBar", shown to the immediate left in the Panel Set shown below. Once an application is selected its access interface will appear and remain in the upper part of the initial panel. Options include naming a specific log, set of logs by wildcard or building or recalling a "Worksheet". The worksheet is recommended when log repository updates and naming are under control, managed and consistent. Once an option has been selected the results will be shown in the lower part of the initial panel. An example is shown to the immediate left in the Panel Set shown below. It is best to view these panels (there will be many to follow) initially as a "Dashboard" of results across all Repository Inspection Logs.

Selections from the "Dashboard" will generate new findings and answers that will overlay the "Dashboard". And selections from those overlays will generate new findings and answers that will in turn overlay them. Two novel features of ICEDirect: One tracks selections so that they will reappear in a new session after ending an old session. The other allows for the use of the Browser backup (and forth) feature such that panel content is not lost to the browser until the session is ended via session timeout or user logoff.



#### LOG MANAGEMENT PRIMARY INTERFACE AND SELECTED FUNCTIONAL MENUES

## **The Dashboard Worksheet**

The "Dashboard" will maintain the number of rows necessary to accommodate the defined number of Inspection Logs. If a log is removed (its name blanked out) the number of rows will automatically be reduced.



When more "Dashboard" rows are needed, overtype the value shown in the text box that follows "ICEBATA WksRows" with the TOTAL number of rows required and click "Submit Request". As shown below, new rows will be added requesting log names. Enter the new log dataset names and finish up by clicking "Update the Worksheet". Blank rows will be automatically eliminated from the update.



### **Interval Monitor**

		•	Messageld Groups 🔵	MessageId Lists				
	2	Begin With - y	With - yy 21 mm 04 dd 01 - and Show Only ■ New Event					
	Interval		Frequency	For Private Group	For Public Group			
Period	Hour	Minute	Interval					
🗹 Day	17	16	? 12	Select an Alert	Notification Group			
🔲 Wks			?	•	•			
Mth			?					

Click Interval Monitor to show the ICEBATA Interval Monitor Interface.

As Interval Reports are created, they are delivered to named recipients by email and stored in individual registries. Selecting Interval Reports and Selecting "Update Detector Settings" will display the last email Message in the registry linked to the report(s).

	22/09/26 - 13:10:33	(
	PROBI1.MYICEWEB.REGISTRY(\$BATLAST)	
	et av an et	
Image FOCUS ICEBATA Daily	Interval Monitor Inspection Alert - XIBATX 0314	
Alert Date: Y22/M09/D26 Time	e:05:16:00 Alert Owner:PROBI1 System:SOW1	
Report Registry: https://w	ww.mvicedirect.com:8201	
11 LP	AR Alerts are Shown Below	
01 - IFO ICEBATA Report - 1	LPAR SOW1 Inspection Date:05/03/2022 16:54:50	
Source Inspection Dataset:		
PAR Identification:		
SysID:SOW1 System:SOW1 Sys	splex:ADCDPL z/OSVer:V2R4	
IPLUnit:0A80 Volser:B4RES	1 IODFUnit:0A83 Volser:B4SYS2	
LoadSfx:WS Nucleus:1 HWNam	me:Blank LPAR:Blank VM:ZOS24M	
LPAR Findings Summary:	icae:8 Informational:37	
DITOTOTO WALNINGS:145 NOT.	ices. 0 Informacional: 57	
02 - IFO ICEBATA Report - 1	LPAR SOW1 Inspection Date:05/31/2022 09:37:23	
Source Inspection Dataset:		
>IFO.MTGY.ICEBATA.SOW1.LOG		
SysTD:SOW1 System:SOW1 Sys	spley:ADCDPL z/OSVer:V2R4	
IPLUnit: 0A80 Volser: B4RES	1 IODFUnit:0A83 Volser:B4SYS1	
LoadSfx:WS Nucleus:1 HWNam	me:Blank LPAR:Blank VM:ZOS24M	
LPAR Findings Summary:		
Errors:0 Warnings:143 Not:	ices:8 Informational:37	
03 - IFO ICEBATA Report -	LPAR SOW1 Inspection Date:05/03/2022 16:54:50	
Source Inspection Dataset:		
IFO.MTGY.ICEBATA.SOW2.LOG		
LPAR Identification:		
SysID:SOW1 System:SOW1 Sys	splex:ADCDPL z/OSVer:V2R4	
LoadSfx:WS Nucleus:1 HWNar	1 IODFUNIT:UA85 VOISEF:B45152 me+Blank LDAR+Blank VM+ZOS24M	
LPAR Findings Summary:	ie. Draik Drak. Draik VII. BODZ II	
Errors:0 Warnings:143 Not:	ices:8 Informational:37	

### **ICEDirect Help**



Help is available on Panels when the "Life-Preserver" ICON is shown. Clicking on the ICON will launch the Help Panel which will "Float" above the display. Scroll up and/or down the Panel to show its content. To close the panel, click the "Close" shown at the bottom right.

D New ICE Tabs	A Portal to the NewEra Software Integrity Controls Environment • (ICE) Applications
ICE Direct Sidebar Me	Select Index - List ICEBATA LPAR Inspections Use Default ICEBATA Dataset: IFO.MTGY.ICEBATA.SOW1.LOG
?     MyWHO       ?     MyHIS       ?     MyMFI       ?     MyZTA       z/OS Inspections       ?     MyBAT       ?     MyCHK       TCE Boundaries       ?     MyBNY       ?     MyADM       ?     MyAUD	Image FOCUS Inspections - Accessing Worksheet Options and/or Services! Launch - ICEBATA, SAEBATA and IPLCheck are supported by BATCH JOBS that are stored in the SYSTEM PROCLIB dataset. Select this option to LAUNCH (START) the PROC for the Inspector you are working with. Be certain to validate the PROC and LPAR Name in the panels that follow and note that you will have to READ access to the OPERCMD CLASS. The Launch action will ROUTE the START command to the named LPAR for execution. When the Inspection is finished the originating Inspection Log Dataset is updated. ICE Admins can examine and update the PROC Inspection Configuration by pro- viding PROC Dataset Name and having ESM UPDATE access to it. Updates to PROC are documented in the PROC Member and become immediate. If updates are made they should be backed-off manually in order to restore original settings.
<ul> <li>? MyMGT</li> <li>? MyEXT</li> <li>? MyDET</li> <li>? MyEXC</li> </ul>	O2         War         IFO.MTGY.ICEBATA.SOW1.LOG         Image: Constraint of the state of the sta

## **Dashboard Options**

**ICON DRIVEN OPTIONS:** 

Options available from the Dashboard show analytics and other options based on the Inspection Log adjacent on the same worksheet row. To select an option driven by an Icon click the Icon. Other options: Show "LPAR Analytics" and "Show LPAR XCompare" require selection of specific Inspection Log targets.

The ICONs, Screen Shots and Text below are based on the selection of MyBAT but applies equally to MySAE and MyCHK.



New Batch ICEBATA Inspections may be launched from ICEDirect. To do this first click the Rocket Ship adjacent to an existing Inspection Log entry.

In the panel that appears the Target Name (in this case SOWO) will be extracted from the selected Log and entered as will the PROC Name, ICEBATA. If the information is correct a new inspection can be started by clicking the "Launch ICEBATA Now". This action will formulate a "Start Command" and route it to the named system for execution and display a message similar to the one shown below.

ROUTE S0W1,S IC	EBATA' Routed - ICEBATA	A Should be Running.	
<b>_</b>	22/09/26 - 09:39:20	<u> </u>	

When the inspection completes the Dashboard will be ready for an update when it is next displayed.

#### **INSPECTION CONFIRMATION**

An option on the Launch Panel, Inspection Confirmation, when clicked, will display the ICEBATA Inspectors' Configuration. But first, the location of the PROC Dataset must be provided and/or confirmed. If the Dataset name is correct, click "Update Proc Dataset" to continue.

ICEBATA	ICEBATA Inspection Config	ICEBATA	
	PROC Dataset: USER.Z24B.PROCLIB	Member:(ICEBATA)	
	For Configutation requests to be honored will need Update Access to the Specifie		
-	ICEBATA PROC Dataset is Available a	_	
	22/09/26 - 09:45:58		(

This action will extract and display the current Inspectors' Configuration, as shown below. To update the configuration settings, overtype them and then click "Update Proc Member".

	PROC Dataset: USER.Z2	24B.PROCLIB	Member:(ICEBATA)	
	For Configutation will need Upo	on requests to be honored the L date Access to the Specified PR	Jserld PROBI1 OC Dataset.	
_	ICEBA	ATA PROC Dataset is Available as Spe	cified	-
	ICEBATA I	Inspection Configuration - PRO	<u>C Member</u>	
	IPL UNIT ADDRESS	(4 CHARS ; OPTIONAL)	1#1	
	LOADPARM	(1 - 8 CHARS ; OPTIONAL)	1+1	
	HARDWARE NAME	(1 - 8 CHARS ; OPTIONAL)	141	
	LPAR NAME	(1 - 8 CHARS ; OPTIONAL)	141	
	VM USERID	(1 - 8 CHARS ; OPTIONAL)	141	
	IPLPARM HLQ	(1 - 8 CHARS ; OPTIONAL)		
	REPORT LEVEL	(1,2,3, OR 4 ; OPTIONAL)	1	
	ADD'L COMMNDXX	(2 CHARS ; OPTIONAL)	IF	
	RELEASE LEVEL	(3 DIGITS : OPTIONAL)		
	MEMBER DISPLAY	(Y OR N ; OPTIONAL)	Y 💿 N 🔵	
	DATASET REPORT	(Y OR N ; OPTIONAL)	¥ 🧿 N 🔵	
	INSPECT JES2/3	(Y OR N ; OPTIONAL)	Y 💿 N 🔵	
	INSPECT CICS	(Y OR N ; OPTIONAL)	¥ 🔵 N 🧿	
	INSPECT VTAM	(Y OR N ; OPTIONAL)	Y 💿 N 🔵	
	INSPECT TCPIP	(Y OR N ; OPTIONAL)	Y 💽 N 🔵	
	INSPECT LOAD	(Y OR N ; OPTIONAL)	Y 🔵 N 💿	
	PACKAGE CREATE	(Y OR N ; OPTIONAL)	Y 💿 N 🔵	
	DYNAMIC CHANGE	(Y OR N ; OPTIONAL)	Y 🔵 N 💿	

This action will display the updated settings as found in the target PROCLIB as shown below:



To continue with the new configuration setting, click "Launch Inspection Now". This action will formulate a "Start Command" and route it to the named system for execution and display a message similar to the one shown below.

R'	ROUTE SOW1,S ICE	BATA' Routed - ICEBATA	Should be Running.	
	<b></b>	22/09/26 - 09:39:20	<b></b>	

When the inspection completes the Dashboard will be ready for an update when it is next displayed.

10

#### FINDINGS



As the Dashboard is being constructed, each ICEBATA Inspection is analyzed to determine the most severe level of finding; "Err" or "War" is displayed adjacent to the target Inspection Log. If no Errors or Warnings are discovered "Aok" is displayed. Clicking on these discoveries will display a summary of Inspection findings grouped together by MessageId, as shown above.

Notice this >IFO0687W. Clicking it will display the meaning of the warning message as shown below:



Notice this 000041 IFO0687W where 000041 is the record in the inspection report that carries the warning message IFO0687W. Clicking it will display a 100 record "Report Snippet" centered on record 000041 showing 50 records above and below that center point. An example is shown on the following page.

#### **ICEDirect - Image FOCUS Log Management**



#### Inspection Finding for Selected IFO Message



```
01) 00001 IF009991 REPORT FOR IMAGE SOW1 SYSTEM SOW1 WARNING.
02) 00002 IF01000I REPORT GENERATED BY BACKGROUND EXECUTION ON 05/03/2022 AT 16:54:50.
03) 00003 IF01001I SYSTEM ID=S0W1; SYSTEM NAME=S0W1; SYSPLEX NAME=ADCDPL.
04) 00004 IF000001 REPORT DATASET: 'IFO.MTGY.ICEBATA.SOW1.LOG'.
05) 00005 IF007651 LICENSED TO NEWERA/STANDARD/IFO (SITE EDITION)
06) 00006 IF007651 IFOM F | IFOS H | IFOBG L | IFOR L
07) 00007 IF00765I IPLCHECK L | IPLALT L | ALLBAT T | IFODET B
08) 00008
09) 00009 IF007411 INSPECTION=Y; STORE PACKAGE=N; RELEASE=.
10) 00010 IF00727I Image Focus 17.0 F22.
11) 00011
12) 00012 IF009001 IPL REQUESTED FROM UNIT 0A80.
13) 00013 IF00922I SUPPLIED LOADPARM IS 0A83WS.1.
14) 00014 IF009011 LOADPARM IODF UNIT=0A83 SPECIFIED.
15) 00015 IF009011 LOADPARM LOADWS SPECIFIED.
16) 00016 IF00950I LOADPARM IMSI SPECIFIED AS OR DEFAULTED TO "."
17) 00017 IF009011 LOADPARM IEANUC01 SPECIFIED.
18) 00018 IF00712I VMUSERID ZOS24M SPECIFIED.
19) 00019 IF00712I ADD'L COMMNDXX IF SPECIFIED.
20) 00020
21) 00021 IF009051 IPL UNIT 0A80 IS VOLUME B4RES1.
22) 00022 IF009051 IODF UNIT 0A83 IS VOLUME B4SYS2.
23) 00023 IF006111 IPL UNIT ADDRESS: RUNNING SYSTEM=0A80: TARGET SYSTEM=0A80.
24) 00024 IF006111 IODF UNIT ADDRESS: RUNNING SYSTEM=0A83; TARGET SYSTEM=0A83.
25) 00025 IF006111 LOADXX SUFFIX: RUNNING SYSTEM=WS; TARGET SYSTEM=WS.
26) 00026 IF006111 IEANUCOX SUFFIX: RUNNING SYSTEM=1; TARGET SYSTEM=1.
27) 00027 IF006111 HWNAME: RUNNING SYSTEM=-BLANKS-; TARGET SYSTEM=--NONE-
28) 00028 IF006111 LPARNAME: RUNNING SYSTEM=-BLANKS-; TARGET SYSTEM=--NONE--.
29) 00029 IF006111 VMUSERID: RUNNING SYSTEM=ZOS24M; TARGET SYSTEM=ZOS24M.
30) 00030
31) 00031 IF00689I SECURITY PACKAGE INSTALLED IS RACF.
32) 00032 IF00998I SYS1.RACFDS FOUND ON VOLUME B4CFG1.
33) 00033 IF00757I 1 DASD EXTENTS.
34) 00034 IF00938I ALLOCATING RACEDB DATASETS.
35) 00035 IF00138I ALLOCATING SYS1.RACFDS; VOL=B4CFG1.
36) 00036 IF00151I ALLOCATED TO SYS00197.
37) 00037
38) 00038 IF00998I SYS1.SVCLIB FOUND ON VOLUME B4RES1.
39) 00039 IF00757I 1 DASD EXTENTS.
40) 00040 IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFILE
41) 00041 IF00938I ALLOCATING SVCLIB DATASETS.
42) 00042 IF00138I ALLOCATING SYS1.SVCLIB; VOL=B4RES1.
43) 00043 IF00151I ALLOCATED TO SYS00198.
44) 00044
45) 00045 IF00998I SYS1.NUCLEUS FOUND ON VOLUME B4RES1.
46) 00046 IF00757I 1 DASD EXTENTS.
47) 00047 IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFILE
48) 00048 IFO0938I ALLOCATING NUCLEUS DATASETS.
49) 00049 IF00138I ALLOCATING SYS1.NUCLEUS; VOL=B4RES1.
50) 00050 IF001511 ALLOCATED TO SYS00199.
51) 00051
52) 00052 IF00929I INSPECTING IPL TEXT.
53) 00053 IF00921I B4RES1 IPL TEXT LEVEL IS IEAIPL0001/14/19HBB77C0.
54) 00054
55) 00055 IF00935I SEARCHING FOR LOADWX MEMBER.
56) 00056 IF00906I SYS1.IPLPARM WAS FOUND ON VOLUME B4SYS1.
57) 00057 IF00998I SYS1. IPLPARM FOUND ON VOLUME B4SYS1.
58) 00058 IF00757I 1 DASD EXTENTS.
59) 00059 IF00687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFILE
60) 00060 IF00138I ALLOCATING SYS1.IPLPARM; VOL=B4SYS1.
61) 00061 IF00151I ALLOCATED TO SYS00200.
62) 00062 IF00940I LOADWX FOUND IN IPLPARM(0) VOL=B4SYS1;DSN=SYS1.IPLPARM.
63) 00063 IF00675I LOADWX LAST CHANGED DATE=2021/05/21 TIME=16:24:48 USER=ADCDMST.
64) 00064 IF00923I LOADWX MEMBER CONTENTS ARE AS FOLLOWS:
65) 00065
          66) 00066 |IODF 21 SYS1
67) 00067
          INITSOA 0000M 0008M
          SYSCAT B4SYS1113CCATALOG.Z24B.MASTER
68) 00068
69) 00069
          IEASYM 00
70) 00070
          NUCLST 00
71) 00071
          PARMLIB USER. Z24B. PARMLIB B4CFG1
72) 00072
          PARMLIB FEU.Z24B.PARMLIB B4CFG1
73) 00073 PARMLIB ADCD.Z24B.PARMLIB B4SYS1
```



		<mark>نې</mark>	ġ —	LPAR I	lame - SOW0 - IPL Inspection Date:20/09/25	ε ξ	- <mark>?</mark> c.				
			<b>.</b>		Show Blueprint Sorted 22/09/26 - 06						
				Ir	IFO.MTGY.ICEBA spection Finding - z/OS:W	<b>TA.S0W0.PKG</b> ar JESx:War VTAM:W	'ar				
	l	ndicat	es NIP Process	sing	Indicates IEASYS	8 Processing	I	ndicates SubS	ys Process	sing	
Row         Dup           003         01           004         01           005         01           006         01           007         01           008         01           009         01	Dup	Fnd	Member		Source Dataset	VolSer	Unit	yy/mm/dd	hh:mm	UserId	
003	01	A	IEASYM00	USER.Z24	3.PARMLIB	B4CFG1	0A82	20/08/20	09:12	ADCDMST	
004	01	A	IEASYS00	USER.Z24	3.PARMLIB	B4CFG1	0A82	20/08/20	10:27	ADCDMST	
005	01	A	IEASYSWS	USER.Z24	3.PARMLIB	B4CFG1	0A82	20/08/20	10:19	ADCDMST	
006	01	A	IEASYSCM	USER.Z24	3.PARMLIB	B4CFG1	0A82	20/09/09	08:20	ADCDMST	
007	01	A	IEASVC00	ADCD.Z24	B.PARMLIB	B4SYS1	0A82	16/09/28	11:14	IBMUSER	
800	01	A	PROGAB	USER.Z24	3.PARMLIB	B4CFG1	0A82	20/06/05	08:11	ADCDMST	
009	01	A	PROGAM	ADCD.Z24	B.PARMLIB	B4SYS1	0A82	20/05/07	06:46	IBMUSER	

Clicking the Gear ICON adjacent to an Inspection Log will show its IPL Path beginning with IEASYM and IEASYS and proceeding through all ParmLib Members in the order that are processed during an IPL. Once all z/OS members are processed, the report continues showing a sub-system member process after z/OS is initialized.

The order of the report can be changed by selecting "Show Blueprint Sorted by Last Update". This will result in a push-down stack of members with those members most recently updated shown at the top of the report. Use the browser back option to return to the initial view.

Click an ICON in the Fnd Column to show the member and any related negative Findings:

ADCD.Z24B.PARMLIB(IEAFIX00)	
IEAFIX00 Member Journal History A Dataset Member Listing IEA	FIX00
[ IEAFIX00 FOUND IN PARMLIB(2) VOL=B4SYS1;DSN=ADCD.224B.PARMLIB. [ IEAFIX00 LAST CHANGED DATE=2016/09/28 TIME=11:14:03 USER=IBMUSER.	a.c. v
[ IEAFIX00 MEMBER CONTENTS ARE AS FOLLOWS: 	
SS(IEAVAROO, /* 7K RCT INIT/TERM */ 306, /* RCT INIT/TERM ALIAS */ NCD /* 456 PERCEPTROPRESULT. */	
3: SYS1.PARMLIB(IEAFIX00) */	
2: CBIPO MVS CUSTOMIZATION */ 2: THIS MEMBER CONTAINS THE MVS CUSTOM-BUILT IPO */ PPLIED FIXED LIST THAT IS RECOMMENDED FOR BATCH */	
<pre>SYSTEMS. IT FIXES SPECIFIC MODULES */ DM 'SYS1.LPALIB'. */</pre>	
I SYS1.LPALIB FOUND ON VOLUME B4RES1. 7W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFILE.	
1+2+3-BOTTOM OF MEMBER5+6+7+8	

Options: "Member Journal History" and "Dataset Member Listing" can be used to display both ICE Control Journal content and the actual current content of the selected Member.

Member Journal History – Click a segment to show Members' stored details.



Dataset Member Listing - Click a member to show Members' current content.

<b>?</b> ;; -	DSI	Full N:ADCD.Z2	- 🗞				
		Show Memb	er List Sorted By 22/09/26 - 12:06:0	/ Last Update			<b>(</b> )
		Extracted	at 12:06:08 on	2022/09/26			
Row	Member	Member Records		Last	Member U	odate	
Number	z/OS Links	Init	Mods	yy/mm/dd	hh:mm	Userld	
001	\$\$\$COIBM	29	29	16/09/28	11:14	IBMUSER	
002	ADYSET00	15	0	16/09/28	11:14	IBMUSER	
003	ADYSET01	11	0	16/09/28	11:14	IBMUSER	
004	ADYSET02	13	0	16/09/28	11:14	IBMUSER	
005	APPCPM1A	71	0	16/09/28	11:14	IBMUSER	
006	ASCHPM1A	17	0	16/09/28	11:14	IBMUSER	
007	AUTORAD	15	0	20/05/12	16:05	IBMUSER	
008	AXR00	17	0	16/09/28	11:14	IBMUSER	
009	AXR00Z	33	1	16/09/28	11:14	IBMUSER	
010	BPXPRMBB	5	0	18/11/12	14:07	IBMUSER	

#### **REFINING A QUERY:**

Queries made via "Member Journal History" can be refined by overtyping the displayed member suffix with either one or two "Splats, aka \*". Next, check the box and submit the request. What will be returned is ALL entries in the Control Journal that match the "Wild-Card" criteria. Queries made via "Dataset Member Listing " can be refined by overtyping the displayed member suffix with either one or two "Splats, aka \*". Next, check the box and submit the request. What will be returned is JUST THOSE entries in Target Dataset that match the "Wild-Card" criteria.

# Unpack 📕

Package	Audit			Image FOCUS - ICEBATA Inspection - LPAR S0W0								Msgld LIST		
Compli	ance	_		Updat	ed:05/03/2022	Inspection Mess	sage Filter	EBATA.S	SOW0.LO	G	LookUp Msgld			
SysID: S0W1 IPLUnit: 0A80 LoadSfx: WS Nucleus: 1				System: S0W1 Volser: B4RES1 HWName: Blank			Sysplex: ADCDPL IODFUnit: 0A83 LPAR: Blank				z/OSVer: V2R4 Volser: B4SYS2 VM: ZOS24M			
Er	rors: 0			Wa	arnings: 14	13 22/09/26 - 06	:41:36	Notice	s: 8		l	nformation	al: 37 🤣	
ICEB	ATA			Finding	Grouped I	by the 26 In are Not Active	1 <b>specto</b> - 17311 Ins	rs of L spection	.PAR S Records	0W0		KCE	BATA	
	🔥 Err	ors	-	A	Warnings	<u> </u>	lotices		Suc	cess		Not Active		
01)	A	NJ	IPS		RECS:324	ERRS	:0	WARS:	8	NOTS:	0	INFS:0		
	001) 002) 003) 004) 005) 006) 007) 008)	War War War War War War War	000041 000048 000060 000128 000135 000138 000141 000144	IF00687W IF00687W IF00687W IF00687W IF00687W IF00687W IF00687W	PROTECTION PROTECTION PROTECTION PROTECTION PROTECTION PROTECTION	INADEQUATE: INADEQUATE: INADEQUATE: INADEQUATE: INADEQUATE: INADEQUATE: INADEQUATE: INADEQUATE:	DATASET DATASET DATASET DATASET DATASET DATASET DATASET	NOT PR NOT PR NOT PR NOT PR NOT PR NOT PR NOT PR	OTECTED OTECTED OTECTED OTECTED OTECTED OTECTED OTECTED	BY A P BY A P	ROFILE. ROFILE. ROFILE. ROFILE. ROFILE. ROFILE. ROFILE.			
02)	A	11	ASYS		RECS:5416	ERRS	:0	WARS:	125	NOTS:	1	INFS:37		
	001)	War	000342	IF00687W	PROTECTION	INADEQUATE:	DATASET	NOT PR	OTECTED	BY A P	ROFILE.			

UnPack presents a unique, alternative view of the inspection log.

In this presentation, the inspection is grouped by inspector and only findings related to their inspection findings are shown immediately below the inspector heading. If negative findings are reported Links to the offending record are provided. Clicking it will display a 100 record "Report Snippet" centered on record selected. By example if 000041 is selected, 50 records above and below its center point in the inspection will be shown. An example is shown on the following page.

#### **ICEDirect - Image FOCUS Log Management**

25) 00025 IF006111 LOADXX SUFFIX: RUNNING SYSTEM=WS; TARGET SYSTEM=WS. 26) 00026 IF00611I IEANUCOX SUFFIX: RUNNING SYSTEM=1; TARGET SYSTEM=1. 27) 00027 IF006111 HWNAME: RUNNING SYSTEM=-BLANKS-; TARGET SYSTEM=--NONE--. 28) 00028 IF006111 LPARNAME: RUNNING SYSTEM=-BLANKS-; TARGET SYSTEM=--NONE--. 29) 00029 IF006111 VMUSERID: RUNNING SYSTEM=ZOS24M; TARGET SYSTEM=ZOS24M. 30) 00030 31) 00031 IF00689I SECURITY PACKAGE INSTALLED IS RACF. 32) 00032 IF00998I SYS1.RACFDS FOUND ON VOLUME B4CFG1. 33) 00033 IF00757I 1 DASD EXTENTS. 34) 00034 IF009381 ALLOCATING RACFDB DATASETS. 35) 00035 IF00138I ALLOCATING SYS1.RACFDS; VOL=B4CFG1. 36) 00036 IF001511 ALLOCATED TO SYS00197. 37) 00037 | 38) 00038 IF00998I SYS1.SVCLIB FOUND ON VOLUME B4RES1. 39) 00039 IF00757I 1 DASD EXTENTS. 40) 00040 IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFI 41) 00041 IF00938I ALLOCATING SVCLIB DATASETS. 42) 00042 IF00138I ALLOCATING SYS1.SVCLIB; VOL=B4RES1. 43) 00043 IF001511 ALLOCATED TO SYS00198. 44) 00044 45) 00045 IF00998I SYS1.NUCLEUS FOUND ON VOLUME B4RES1. 46) 00046 IF00757I 1 DASD EXTENTS. 47) 00047 IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFI 48) 00048 IFO0938I ALLOCATING NUCLEUS DATASETS. 49) 00049 IF001381 ALLOCATING SYS1.NUCLEUS; VOL=B4RES1. 50) 00050 IF00151I ALLOCATED TO SYS00199. 51) 00051 | 52) 00052 IF00929I INSPECTING IPL TEXT. 53) 00053 IF00921I B4RES1 IPL TEXT LEVEL IS IEAIPL0001/14/19HBB77C0. 54) 00054 55) 00055 IF00935I SEARCHING FOR LOADWX MEMBER. 56) 00056 IF00906I SYS1.IPLPARM WAS FOUND ON VOLUME B4SYS1. 57) 00057 IF00998I SYS1.IPLPARM FOUND ON VOLUME B4SYS1. 58) 00058 IF00757I 1 DASD EXTENTS. 59) 00059 IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A PROFILE 60) 00060 IF001381 ALLOCATING SYS1.IPLPARM; VOL=B4SYS1. 61) 00061 IF00151I ALLOCATED TO SYS00200. 62) 00062 IF009401 LOADWX FOUND IN IPLPARM(0) VOL=B4SYS1;DSN=SYS1.IPLPARM. 63) 00063 IF00675I LOADWX LAST CHANGED DATE=2021/05/21 TIME=16:24:48 USER=ADCDMST. 64) 00064 IF00923I LOADWX MEMBER CONTENTS ARE AS FOLLOWS: 65) 00065 |----+----2----+----3---TOP OF MEMBER-66) 00066 |IODF 21 SYS1 67) 00067 | INITSQA 0000M 0008M 68) 00068 SYSCAT B4SYS1113CCATALOG.Z24B.MASTER 69) 00069 | IEASYM 00 70) 00070 |NUCLST 00 71) 00071 PARMLIB USER.Z24B.PARMLIB B4CFG1 72) 00072 PARMLIB FEU.Z24B.PARMLIB B4CFG1

73) 00073 | PARMLIB ADCD.Z24B.PARMLIB B4SYS1

ICEDirect - Image FOCUS Log Management





Snapshot allows individuals to take "Snapshots" of an Inspection log, baseline it and then store it as a member in an ICE dataset called "ifo\_hlq.ICEALPAR.BASELINE.SNAPSHOT" using the associated LPAR Name. Thereafter anyone with access to MyBATA can recall it and use it for detecting change in the selected matching LPAR inspection log: z/OS configuration and overall inspection findings. This insures that all team members see the same changes, if any.

Snapshot baselines are build using MEMBER \_CONTAINER.BEG/END. The content of each such container, there are many, are HASHed and the resulting token is stored in the container. An example of the pseudo IPL Path Member is shown below.

MEMBER\_CONTAINER.BEG Member: IPLPATH Status: REQUESTED FROM UNIT 0A80. SUPPLIED LOADPARM IS 0A83WS.1. LOADPARM IODF UNIT=0A83 SPECIFIED. LOADPARM LOADWS SPECIFIED. LOADPARM IMSI SPECIFIED AS OR DEFAULTED TO ".". ILOADPARM IEANUC01 SPECIFIED. **VMUSERID ZOS24M SPECIFIED** ADD'L COMMNDXX IF SPECIFIED. IPL UNIT 0A80 IS VOLUME B4RES1. **IODF UNIT 0A83 IS VOLUME B4SYS2.** SECURITY PACKAGE INSTALLED IS RACF. ISYS1.RACFDS FOUND ON VOLUME B4CFG1. SYS1.SVCLIB FOUND ON VOLUME B4RES1. SYS1.NUCLEUS FOUND ON VOLUME B4RES1. |B4RES1 IPL TEXT LEVEL IS IEAIPL0001/14/19HBB77C0. TOKEN B1109E28B71ABF0D MEMBER CONTAINER .END

In addition to each container being tokenized the overall document is HASHed as well. Such precautions allow ICEDirect to warn individual team members to a lack of integrity in the baseline they are using to detect changes.

The baseline maybe updated and viewed at any time by any team member. When an update is taken the following message is displayed.

NSIMANL - Built and	Saved LPAR Configuration	on Baseline Snapshot
IFO.MTGY.ICE Date:09/27/	ALPAR.BASELINE.SNAF /2022 - Time:15:32:17 - U	PSHOT(\$S0W0) ser:PROBI1
<u> </u>	22/09/27 - 15:32:16	<u> </u>

If during a request for changes it is detected that the tokens, MEMBER\_CONTANER or DOCUMENT will not validate the following message is displayed.

NSIMANL -	LPAR S0W1 Baseline Sr	napshot Error	
<b>_</b>	22/09/27 - 15:41:45		

When a request is made to detect baseline changes and no changes are discovered the following message is displayed.



When changes are detected a Baseline Change Report is built and displayed. A sample is shown on the following page.

#### ICEDirect - Image FOCUS Log Management

ICEBA	ICEBATA Configuration Baseline Snapshot Changes - SOW1 8 Unique Member Changes Discovered
	Your Last Baseline - Date:05/09/2022 - Time:10:46:45 This Interval Comparison - Date:09/27/2022 - Time:15:47:10
	Changed Element/Member Deleted Element/Member
Member:	LOADWS Member is now configured
Member:	OMPROUTE Member is now configured
Detail: New New	Status: FOUND IN VOL=B4RES1;DSN=TCPIP.SEZALOAD.  OMPROUTE_FILE=//'TCPIP.SEZAINST(EZAORCFG)'
Member:	LOADWW Member is no longer configured
Del	Status: FOUND IN VOL=B4SYS1;DSN=SYS1.IPLPARM.
Del Del	Update: DATE=2021/05/21 TIME=16:24:48 USER=ADCDMST.
Del	INITSQA 0000M 0008M
Del	SYSCAT B4SYS1113CCATALOG.Z24B.MASTER
Del	NUCLST 00
Del	PARMLIB USER.Z24B.PARMLIB B4CFG1
Del	PARMLIB FEU.Z24B.PARMLIB B4CFG1
Del	PARMLIB ADCD.224B.PARMLIB B4SISI PARMLIB SYS1.PARMLIB B4RES1
Del	NUCLEUS 1
Del	SYSPLEX ADCDPL
Member:	IEASYM00 Member has changed
Add	SYMDEF(&SYSC1.='B4CFG1')
01d New	SYMDEF(&SYSP2.='B4PRD6') SYMDEF(&SYSP2.='B4PRD2')
Detail:	
New	Status: FOUND IN VOL=B4CFG1;DSN=USER.Z24B.PARMLIB.
New	Update: DATE=2020/08/20 TIME=09:12:29 USER=ADCDMST.
New	SISCLONE (1A)
New	SYSPARM(WS,CM)
New	SYMDEF(&UNIXVER='Z24B') SYMDEF(&SYSVER='Z24B')
New	SYMDEF(&ADCDLVL='ADCD24B')
New	SYMDEF(&SYSP1.='B4PRD1')
New	SYMDEF(&SYSP3.='B4PRD3')
New	SYMDEF(&SYSP4.='B4PRD4')
New	$  SYMDEF(\&SYSR2.='B4RES2') \\   SYMDEF(&SYSS1='B4SYS1') $
New	SYMDEF(&SYSC1.='B4CFG1')
New	SYSDEF
New	SINDER (&UNIXVER= 224B) SYMDEF (&SYSVER='224B')
New	SYMDEF(&ADCDLVL='ADCD24B')
New	SYMDEF(&SYSP1.='B4PRD1') SYMDEF(&SYSP2.='B4PRD2')
New	SYMDEF(&SYSP3.='B4PRD3')
New	SYMDEF(&SYSP4.='B4PRD4')
New	SIMDEr ( $\&$ SISK2.= $B4KES2$ ) SYMDEF ( $\&$ SYSS1.= $B4SYS1$ )
Add	SYMDEF(&SYSC1.='B4CFG1')
New	SYSNAME (SOW1)
New	SISCIONE (IA)

# GASP Compliance Reports

Package	e Audit	Image FOCUS - ICEB	ATA Inspec	tion - LPAR SOW0	Msgld LIST
Compl	iance	Inspecti	on Message Filt	er	LookUp Msgld
Sys IPLL LoadSfx:	ID: S0W1 Jnit: 0A80 WS Nucleus: 1	System: S0W1 Volser: B4RES1 HWName: Blank	s	Sysplex: ADCDPL IODFUnit: 0A83 LPAR: S0W0	z/OSVer: V2R4 Volser: B4SYS2 VM: ZOS24M
E	rrors: 0	Warnings: 143		Notices: 8	Informational: 37
		22/0	9/26 - 06:45:21		<b></b>
		Available Complian	ce Report	s - LPAR SOWO	<b>ete</b>
Chk	Docu	iments Name	Chk	Docume	ents Name
0	System Datasets	•	0	LNKLST Dataset/Mo	odules
0	IODF Information	ı	0	Prevailing Parmlib M	Abrs
0	IPL/System Infor	mation	0	Message Findings S	Summary
0	LPALST Dataset	Modules	0	<b>Program Properties</b>	Table
0	Parmlib Concate	nation	0	Progxx Exits	
	DSN Defined in I	EASYSxx		Common Storage	
0	APF Dataset Sur	nmary	0	Static System Symb	ools
	Prevailing Keywo	ords		CONSOLxx Informa	tion
0	CSVLLAxx Infor	nation	0	System Volumes	
0	Dynamic System	(Kauping Nama)	0	PAGENT (TTLSKeyr	ingParms)
0	Z/USMF/IZUPRM	- (Keyking_Name)	0		

A review of Generally Accepted Security Practices (GASP) will often extend well beyond the reporting available from the External Security Manager (ESM). When one considers that tens of unique LPARs, some will be local and some remote. Having a common report set across all LPARs will make short work of any compliance and/or integrity Review of one LPAR or all LPARs.

As sample of the APF Dataset Summary is shown on the next page.

This report extracts APF Datasets from an inspection log and shows them in a table. The dataset name, volume, status (Dataset not found and/or Dataset is a duplicate) is noted. Sourcing library references (User, Link, Plpa, Mlpa and Flpa) are noted. The permitted ESM access profile in shown at the time of the inspection. Finally, for the local sysplex the current ESM access profile is shown.

		Image FOCUS - ICEI Updated:09/26/2022 10:49	BATA In 0:43. IFO	ISPECti .MTGY.I	on - Li Icebat	PAR S	0W1 .LOG				
Loa	SysID: S0W1 IPLUnit: 0A80 adSfx: WS Nucleus: 1	System: S0W1 Volser: B4RES1 HWName: Blank		Sy I	/splex: ODFU LPAR	ADCI nit: 0A : Blan	DPL 83 k		2 V	z/OSVer: V2 /olser: B4S` VM: ZOS24	2R4 YS1 4M
	Errors: 2	Warnings: 144			Noti	ces: 8			In	formationa	al: 37
		22	/09/27 - 16:	:13:57							<b>6</b>
		4 67				<b>A</b> 1 '					
		lmage F APF Da	OCUS ataset	S IFO0 Sumn	693I nary						
Numb	Dataset Name	Volume	NoDs	ADup	User	Link	Plpa	Mlpa	Flpa	ESM/Was	ESM/Now
001	ADCD.Z24B.LINKLIB	B4SYS1				L		М			NONE
002	ADCD.Z24B.VTAMLIB	B4SYS1			U						NONE
003	ADCDMST.IFO.LOAD	ZWORK5			U					READ	READ
004	ADCDMST.IFO.WS.LOAD	ZWORK5			U					READ	READ
005	CBC.SCLBDLL	B4RES1				L					NONE
006	CBC.SCLBDLL2	B4RES1				L					NONE
007	CEE.SCEERUN	B4RES2				L					NONE
008	CEE.SCEERUN2	B4RES2				L					NONE
009	CSF.SCSFMOD0	B4RES2				L					NONE
010	CSQ911.CSQ9.SCSQAUTH	B4PRD4			U						NONE
011	CSQ911.SCSQANLE	B4PRD4				L					NONE
012	CSQ911.SCSQAUTH	B4PRD4				L					NONE
013	CSQ911.SCSQLINK	B4PRD4				L					NONE
014	CSQ911.SCSQMVR1	B4PRD4				L					NONE
015	CSQ911.SCSQSNLE	B4PRD4				L					NONE
016	DIT130.SDITMOD1	B4PRD1				L					NONE
017	EQAE20.SEQAAUTH	B4PRD1			U						NONE

As sample of the Program Property Table is shown on the next page.

This report extracts the Program Properties from both the "User Defined" SCHED00 Parmlib Member and the "IBM Defined" IEFSDPPT LinkLib Module and presents by PMGName with all of their accompanying attributes. Entries that appear that do not conform to GASP are highlighted with special consideration to those variances that relate to IBM definitions.

			Pro	gram Pro	operty Ta	bles - S	CHEDxx	& IEFS	SDPPT			
	PA	SS/NOPAS	S not Defined	1	Indica	ites Noncor	nforming		Indicate	es IBM Defa	ult	
	Table M	ember	Volume			Sou	urce Dataset	/Library			ESM/	Now
	<u>01</u> SC	HED00	B4SYS1	ADCD.Z24	B.PARMLI	В	-		-		NON	E
.0.2			4.2	_	Special	Program	Attributes			- /	<u> </u>	
Row	PMGNam	e Cance	el Keys	Swap	Priv	DSI	Pass	Sys	Aff	SPref	LPref	NoPref
01	HAS IES2A	- ( <u>-</u>		NOSWAP	PRIV	NODSI	PASS	SVST	AFE(NONE)			
02	DEHSIP			NOSWAP			PASS		AFE(NONE)		-	NOPREE
03	ICUMKG10		T				TA00		AFE(NONE)			
04	ICUMKM11				PRIV			SYST	AFF(NONE)			-) - 
05	FNMMAIN								AFF(NONE)			
06	ERBMFMFC					NODSI	PASS	SYST	AFF(NONE)			
07	ERB3GMFC					NODSI	PASS	SYST	AFF(NONE)			
08	IRRSSM00				PRIV			SYST				
09	EPWINIT					NODSI	NOPASS					NOPREF
	Table M	ember	Volume			Sou	urce Dataset	Library			ESM	Now
	<u>02</u> IEF	SDPPT	B4RES1	SYS1.LIN	KLIB		-	-		J-	NON	E
					Special	Program	Attributes			· · · · · · · · · · · · · · · · · · ·		
Row	PMGNam	e Cance	el Keys	Swap	Priv	DSI	Pass	Sys	Aff	SPref	LPref	NoPref
01	EPWINIT											
02	IEDQTCAM	CANCE	L KEY(6)	NOSWAP	NOPRIV	DSI	PASS	SYST				NOPREF
03	ISTINM01	NOCNC	L KEY(6)	NOSWAP	NOPRIV	DSI	NOPASS	SYST			·	NOPREF
04	IKTCAS00	NOCNC	L KEY(6)	SWAP	PRIV	DSI	PASS	SYST				
05	AHLGTF	NOCNC	L KEY(0)	NOSWAP	NOPRIV	DSI	PASS	SYST				NOPREF
06	HHLGTF	NOCNC	L KEY(0)	NOSWAP	NOPRIV	DSI	PASS	SYST				NOPREF
07		NOCNO	KEY/0)	NOSWAD	NORPHY	DOI	DACC	ever				NORREE

#### **Show LPAR Analytics:**

				5 R	eport Datase 22/0	et - Total 9/27 - 16:2	Record	s 81462	2				0
	1	ICEDATA		ICEBATA	- LPAR In	spectio	on Rep	ort Su	mmary	/		PATA	
Row	Base	LPAR Name	yy/mm/dd	hh:mm:ss	Finding	Err	War	Not	Inf	IPLPath	UnPack	GASP	Charts
01	R	✓ S0W1	20/05/03	16:54:50		000	<u>131</u>	004	035	<b>Res</b>		<b>1</b> 11	
02	R	S0W1	20/09/26	10:49:43		000	<u>131</u>	<u>004</u>	035				
03	Q	S0W1	20/05/03	16:54:50		000	<u>131</u>	004	035				
04	Q	S0W3	20/09/25	09:28:12		000	<u>131</u>	<u>004</u>	035				
05	R	S0W4	20/09/25	09:28:12		<u>000</u>	<u>131</u>	<u>004</u>	035				
		Lpar Analytics									194		

To launch LPAR analytics; select two or more LPARs from the "Light Blue" column headed "Chk" and then "Click" Show LPAR "Analytics". In the example above 5 LPARs were selected. The LPAR names and findings are extracted from the Inspection Log displayed. All columns, beginning with Findings function in the same way as Dashboard functions with the exception of column headed "Base", "Charts" and the selection labeled "LPAR Analytics" these are novel presentations of findings that might be used for inclusion in reports of detecting changes in an LPARs Configuration or for comparing the configuration, of selected elements, of up to 8 LPARs one by one or all against each other.

The included Bar Charts and Pie Charts, are shown on the following page. Both charts are linked to their underlying source data such that clicking on a bar or pie segment will show the detail finding.

#### **Bar Chart:**



#### **Pie Chart:**



#### **ICEDirect - Image FOCUS Log Management**



"The Inspection Log You Baseline Today will Help You to Identify Changes Tomorrow! " Click the "Magnifying Glass" adjacent to an LPAR Name to show its Baseline Functions.



This panel supports the creation and updating of an LPAR Inspection Baseline named as its source name with the exception that the extension is not LOG but replaced with BSE. Once created a baseline dataset is persistent and available for update at any future time. Select "Create/Update the Baseline to build/rebuild the baseline from the currently selected Inspection Log. The panel does not support delete.

To create or update baseline "Click" the "Create/Update the Baseline" shown at the bottom of the panel. The update takes effect immediately and if it were used immediately after update with any of the six analytic options would reflect "No Change" in the configuration.

In addition, the panel supports these Baseline Analytic Functions each of which is selected by clicking their respective Submit Button. These are used to detect changes in six specific areas of an LPARs Configuration and include:

- 1 Shared Volumes Image FOCUS IFO0633I DASD VOLUME REPORT
- 2 Common Datasets Image FOCUS IFO07971 LPAR DATASET and FILE REPORT
- 3 Prevailing Members Image FOCUS IFO06091 IEASYSXX Prevailing Members
- 4 Authorized Libraries Image FOCUS IFO0693I APF LIBRARY SUMMARY REPORT
- 5 IEASYS Comparison Image FOCUS IFO0619I IEASYSXX KEYWORD REPORT
- 6 Inspection Findings Image FOCUS IFO0678I MESSAGE SUMMARY REPORT.

Sample Reports are shown on the next two pages.

26

### **Authorized Libraries:**

		Ima	age FOCU S(	S - APF A W1 Inspecti	uthorized I on Baseline	Libraries B and Current	aseline LI	PAR Comp red	bare		
Numb	yy/mm/dd	z/OS	IPLUnit	Volume	IODFUnit	Volume	LoadSf	Nucleus	HWName	LPAR	VMUid
Bse	09/25/2020	V2R4	0A80	B4RES1	0A83	B4SYS1	ws	1	Blank	Blank	ZOS24M
Log	05/03/2022	V2R4	0A80	B4RES1	0A83	B4SYS2	WS	1	Blank	Blank	ZOS24M
					22/09/28	- 11:19:18					4

		s	ource - In	nage F	ocusi	FO0693	3I - APF	Librarie	es				
Row	APF Libraries	Volume	ULPMFA	<u>Bse</u>	Log	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
001	ADCD.Z24B.LINKLIB	B4SYS1	- L - M	Yes	Yes								
002	ADCD.Z24B.VTAMLIB	B4SYS1	U	Yes	Yes								
003	ADCDMST.IFO.LOAD	ZWORK5	U Y	Yes	Yes								
004	CBC.SCLBDLL	B4RES1	- L	Yes	Yes								
005	CBC.SCLBDLL2	B4RES1	- L	Yes	Yes								
006	CEE.SCEERUN	B4RES2	- L	Yes	Yes								
007	CEE.SCEERUN2	B4RES2	- L	Yes	Yes								
008	CSF.SCSFMOD0	B4RES2	- L	Yes	Yes								
009	CSQ911.CSQ9.SCSQAUTH	B4PRD4	U	Yes	Yes								
010	CSQ911.SCSQANLE	B4PRD4	- L	Yes	Yes								
011	CSQ911.SCSQAUTH	B4PRD4	- L	Yes	Yes								
012	CSQ911.SCSQLINK	B4PRD4	- L	Yes	Yes								
013	CSQ911.SCSQMVR1	B4PRD4	- L	Yes	Yes								
014	CSQ911.SCSQSNLE	B4PRD4	- L	Yes	Yes								
015	DIT130.SDITMOD1	B4PRD1	- L	Yes	Yes								
016	EQAE20.SEQAAUTH	B4PRD1	U	Yes	Yes								
017	EQAE20.SEQABMOD	B4PRD1	- L	Yes	Yes								
018	FAN140.SEAGLPA	B4PRD1	U	Yes									
019	FELE20.SFEKAUTH	B4PRD1	U	Yes	Yes								

### **Volumes:**

			Image F S	OCUS - Sy 0W1 Inspect	/stem Volu ion Baseline	imes Base and Current	li <b>ne LPAR</b> Log Compa	Compare				
Numb	yy/mm/dd	z/OS	IPLUnit	Volume	IODFUnit	Volume	LoadSf	Nucleus	HWName	LPAR	VMUi	id
Bse Log	09/25/2020 05/03/2022	V2R4 V2R4	0A80 0A80	B4RES1 B4RES1	0A83 0A83	B4SYS1 B4SYS2	ws ws	1 1	Blank Blank	Blank Blank	ZOS24 ZOS24	1M 1M
					22/09/28	- 11:18:18						•
			Sour	ce - Image	FOCUS I	FO0633I -	DASD Vo	olumes				
Row	Unit	VolSer	Туре	•	Bse Lo	g n/a	n/a	n/a n/a	a n/a	n/a	n/a	n/a
001	0A82	B4CFG1	3390		Yes Ye	s						
002	0A8B	B4PAGA	3390		Yes Ye	s						
003	0A8C	B4PAGB	3390		Yes Ye	s						
004	0A87	B4PRD1	3390		Yes Ye	s						
005	0A88	B4PRD2	3390		Yes Ye	s						
006	0A89	B4PRD3	3390		Yes Ye	s						
007	0A8A	B4PRD4	3390		Yes Ye	s						
800	0A80	B4RES1	3390		Yes Ye	s						
009	0A81	B4RES2	3390		Yes Ye	s						
010	0A83	B4SYS1	3390		Yes Ye	s						
011	0A84	B4USS1	3390		Yes Ye	s						
012	0A85	B4USS2	3390		Yes Ye	s						
013	0A8E	ZWORK5	3390		Ye	s						

#### **IEASYS Comparison:**

Numb	yy/mm/dd	z/OS	IPLUnit	Volume	IODFUnit	Volume	LoadSf	Nucleus	HWName	LPAR	VMUid
Bse Log	05/03/2022 05/03/2022	V2R4 V2R4	0A80 0A80	B4RES1 B4RES1	0A83 0A83	B4SYS2 B4SYS2	ws ws	1 1	Blank Blank	Blank Blank	ZOS24M ZOS24M
					22/09/28	11:43:18					
Row Ke	yword So	ource	ParmVal	ue <u>B</u> :	<u>se Log</u>	n/a	n/a	n/a n/a	n/a	n/a r	n/a n/a
	C IEAS	YSCM/0	00								
02 APF	0 12/10		DEFAULT	Ye	es Yes						
03 AUTO	R		DEFAULT	Ye	es Yes						
04 AXR			DEFAULT	Ye	es Yes						
05 BOOS	БТ		DEFAULT	Ye	es Yes						
06 CATA	LOG		DEFAULT	Ye	es Yes						
07 CEA			DEFAULT	Ye	es Yes						
08 CEE			DEFAULT	Ye	es Yes						

### **Inspection Findings:**

This report is unique in that it reports differences in inspection findings between the baseline and the current Inspection log. The top part of the report, above the text "Base Line 0", shows the current inspection findings. The bars below show the differences between them. Clicking on a bar will show its underlying detail.

Numb	yy/mm/dd	z/OS	IPLUnit	Volume	IODFUnit	Volume	LoadSf	Nucleus	HWName	LPAR	VMUid
Bse Log	05/03/2022 05/03/2022	V2R4 V2R4	0A80 0A80	B4RES1 B4RES1	0A83 0A83	B4SYS2 B4SYS2	ws ws	1	Blank Blank	Blank Blank	ZOS24M ZOS24M
					22/09/28	- 11:36:41					
			-								
			Sourc	e - Image	FOCUS IF	00999I - II	nage Insp	ection	- 🖌		
										0	
								3	Log Wa	r 143	
		J. V.V.		N <sup>L</sup>			مريد	4-50	<ul> <li>Log Wa</li> <li>Log No</li> </ul>	ur 143 t 8	
			ne		2.00	1997 - V	NN	u-ne	<ul> <li>Log Wa</li> <li>Log No</li> <li>Log Inf</li> </ul>	t 143 t 8 37	
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		W <sup>C</sup>	a.co		N 750	v-ne	<ul> <li>Log Wa</li> <li>Log No</li> <li>Log Inf</li> <li>Base Li</li> </ul>	ur 143 t 8 37 ne 0	
		N	.ne	W CY	a.co	in v	N NO	v-ne	<ul> <li>Log Wa</li> <li>Log No</li> <li>Log Inf</li> <li>Base Li</li> <li>Dif Err</li> </ul>	ar 143 t 8 37 ne 0 0	
		14.44 14.44 14.44 14.44	.ne	W Cr	a.co		12 2 2 2 12 2 2 2 2 12 2 2 2	N.Ne N.Ne	<ul> <li>Log Wa</li> <li>Log No</li> <li>Log Inf</li> <li>Base Li</li> <li>Dif Err</li> <li>Dif War</li> </ul>	r 143 t 8 37 ne 0 0 5	
		NE 274 NE 274 24	.ne .ne	W <sup>CK</sup>	a.co a.co a.co		NO 1010 NO 1010 NO 1010 N	N.N.	<ul> <li>Log Wa</li> <li>Log Inf</li> <li>Base Li</li> <li>Dif Err</li> <li>Dif War</li> <li>Dif Not</li> </ul>	r 143 t 8 37 ne 0 5 0	

## LPAR Analytics (The Detail)

This option supports, in detail, the LPAR Analytic option selected initially from the Dashboard. It requires that more than one LPAR be selected. To select an LPAR "Check" the box that precedes the LPAR name. When selection is complete "Click" the "LPAR Analytics" submit button below the LPAR Name column to launch the LPAR Analytics Application.

<b></b>	LPAR Analyti	<b>(</b>			
Shared Volumes	Common Datasets	Prevailing Members	Authorized Libraries	IEASYS Comparison	
		22/09/28 - 12:09:52			0

The application supports five options that will perform a "Venn Diagram" like analysis of the LPARs selected (eight is the limit) but presents results in a tabular format.

01       S0W1       V2R4       0A80       B4RES1       0A83       B4SYS2       WS       1       Blank			rivvivanie	ieus	Nucle	LoadSt	volume	DFUnit	Volume	IPLUnit	z/os	System	Numb
22/09/28 - 12:16:04           Source - Image FOCUS IFO0633I - DASD Volumes           Row         Unit         VolSer         Type         01         02         03         04         05         n/a         n/a         n           001         0A82         B4CFG1         3390         Yes	ank ZOS24M ank ZOS24M ank ZOS24M ank ZOS24M ank ZOS24M ank ZOS24M	Blank Blank Blank Blank Blank	Blank Blank Blank Blank Blank	1 1 1 1 1	1 1 1 1	WS WS WS WS WS	B4SYS2 B4SYS1 B4SYS2 B4SYS1 B4SYS1	0A83 0A83 0A83 0A83 0A83	B4RES1 B4RES1 B4RES1 B4RES1 B4RES1 B4RES1	0A80 0A80 0A80 0A80 0A80	V2R4 V2R4 V2R4 V2R4 V2R4 V2R4	S0W1 S0W1 S0W1 S0W3 S0W4	01 02 03 04 05
Source - Image FOCUS IFO0633I - DASD Volumes           Row         Unit         VolSer         Type         01         02         03         04         05         n/a         n/a         n           001         0A82         B4CFG1         3390         Yes         <							12:16:04	22/09/28 -					
Row         Unit         VolSer         Type         01         02         03         04         05         n/a         n/a         n           001         0A82         B4CFG1         3390         Yes         Yes <th>5</th> <th></th> <th></th> <th>;</th> <th>lumes</th> <th>DASD Vol</th> <th>O0633I - I</th> <th>CUS IF</th> <th>e - Image F</th> <th>Sourc</th> <th>5</th> <th></th> <th></th>	5			;	lumes	DASD Vol	O0633I - I	CUS IF	e - Image F	Sourc	5		
OO1         OA82         B4CFG1         3390         Yes         Ye	n/a r	n/a	n/a	n/a	<u>05</u>	<u>04</u>	<u>03</u>	<u>02</u>	<u>0</u>	Туре	VolSer	Unit	Row
002       0A8B       B4PAGA       3390       Yes					Yes	Yes	Yes	Yes	Ye	3390	34CFG1	0A82	001
003       0A8C       B4PAGB       3390       Yes					Yes	Yes	Yes	Yes	Ye	3390	34PAGA	0A8B	002
004         0A87         B4PRD1         3390         Yes         Ye	·				Yes	Yes	Yes	Yes	Ye	3390	34PAGB	0A8C	003
005       0A88       B4PRD2       3390       Yes					Yes	Yes	Yes	Yes	Ye	3390	34PRD1	0A87	004
006         0A89         B4PRD3         3390         Yes         Ye	·				Yes	Yes	Yes	Yes	Ye	3390	34PRD2	0A88	005
JUT         UABA         B4PRD4         3390         Yes         Ye					Yes	Yes	Yes	Yes	Ye	3390	34PRD3	0A89 I	006
UUS UASU B4REST 3390 Yes Yes Yes Yes Yes 009 0A81 B4RES2 3390 Yes Yes Yes Yes 010 0A83 B4SYS1 3390 Yes Yes Yes Yes Yes 011 0A84 B4USS1 3390 Yes Yes Yes Yes Yes					Yes	Yes	Yes	Yes	Ye	3390	34PRD4	DA8A I	007
لمحال المراجع عنها معامل الحج المحال المراجع المحال المراجع المحال المحال المحال المحال المحال المحال المحال ال 1010 0A83 B4SYS1 3390 Yes Yes Yes Yes Yes Yes Yes Yes 1011 0A84 B4USS1 3390 Yes Yes Yes Yes Yes Yes Yes					Yes	Yes	Yes	Yes	Ye	3390	34RES1	0880	800
011 0A84 B4USS1 3390 Yes Yes Yes Yes Yes					Yes	Yee	Yes	Yes	Ye	3390	34RES2	0401 1	109
					Ves	Vee	Ves	Vee		3390	8411991	0483	011
12 0A85 B4USS2 3390 Yes Yes Ves					Yes		Yes	Yee	V	3390	B4USS2	0485	)12
113 0.48E ZWORK5 3390 Yes Yes							Yes	Yes	Ye	3390	WORK5	0A8E 7	013
014 0A8x B4USSx 3390 Yes						Yes				3390	B4USSx	0A8x	)14
Elansed Seconds:11.10											econds:11.10	Flapsed S	

For example, if "Shared Volumes" were selected the report would be presented as follows:

Or if Prevailing Members were selected:

Numt	o System	z/OS	IPLUnit Volume	IODF	Unit	Volume	LoadSf	Nucleus	HWName	LPAR	VM	Uid
01 02 03 04 05	<b>S0W1</b> S0W1 S0W1 S0W3 S0W4	V2R4 V2R4 V2R4 V2R4 V2R4 V2R4	0A80 B4RES <sup>2</sup> 0A80 B4RES <sup>2</sup> 0A80 B4RES <sup>2</sup> 0A80 B4RES <sup>2</sup> 0A80 B4RES <sup>2</sup>	0Ai 0Ai 0Ai 0Ai	83 83 83 83 83 83	B4SYS2 B4SYS1 B4SYS2 B4SYS1 B4SYS1	WS WS WS WS	1 1 1 1 1	Blank Blank Blank Blank Blank	Blank Blank Blank Blank Blank	ZOS ZOS ZOS ZOS ZOS	24M 24M 24M 24M 24M 24M
				22	2/09/28 - 1	12:20:31						¢
		5	Source - Image	FOCUS	S IFO	)609l - Pr	evailing I	Members	(			
									_ (			
Row	Member	Source	ConCat	<u>01</u>	<u>02</u>	03	04	<u>05</u> r	/a n/a	n/a	n/a	n/a
001	IEASVC00	IEASYSWS	2	Yes	Yes	Yes	Yes	Yes				
002	PROGAB	IEASYSCM	0	Yes	Yes	Yes	Yes	Yes				
003	PROGAM	IEASYSCM	2	Yes	Yes	Yes	Yes	Yes				
004	PROGA0	IEASYSCM	0	Yes	Yes	Yes	Yes	Yes				
005	PROGA2	IEASYSCM	2	Yes	Yes	Yes	Yes	Yes				
006	PROGCM	IEASYSCM	0	Yes	Yes	Yes		Yes				
007	PROGIP	IEASYSCM	0	Yes	Yes	Yes	Yes	Yes				
800	PROGSY	IEASYSCM	0	Yes	Yes	Yes	Yes	Yes				
009	PROGLB	IEASYSCM	0	Yes	Yes	Yes	Yes	Yes				
010	PROGLM	IEASYSCM	2	Yes	Yes	Yes	Yes	Yes				
011	PROGL0	IEASYSCM	2	Yes	Yes	Yes		Yes				
012	PROGLL	IEASYSCM	2	Yes	Yes	Yes	Yes	Yes				
013	IEAFIX00	IEASYSWS	2	Yes	Yes	Yes	Yes	Yes				
)14	IEALPA00	IEASYSWS	0	Yes	Yes	Yes	Yes	Yes				
)15	IEAPAK00	IEASYSWS	2	Yes	Yes	Yes	Yes	Yes				
)16	LPALST01	IEASYSWS	0	Yes	Yes	Yes						
)17	DIAG00	IEASYSWS	0	Yes	Yes	Yes	Yes	Yes				
)18	COUPLE00	IEASYSWS	2	Yes	Yes	Yes	Yes	Yes				
)19	IEAABD00	*DEFAULT	2	Yes	Yes	Yes	Yes	Yes				
020	IEADMP00	*DEFAULT	2	Yes	Yes	Yes	Yes	Yes				
121		*DEEALILT	2	Van	Vee	Vac	Vaa	Vee				

In all cases these reports use a common header that summarizes the IPL initialization PARMs used by each individual LPAR. The overall finding from the inspection highlights the LPAR Name shown in the System column. In addition, clicking the matching column heading (01,02,03,Etc.) will show underlying detail.

### **Show LPAR XCompare:**

The "Show LPAR XCompare" select option is shown at the bottom of the Dashboard. To use the option first select (check) two LPARs in the "Yellow" column headed "Chk". If less than or more than two are selected the following message is displayed.

ICEBATA - Only two	o Inspection Logs can be	Compared at Once.	
	22/09/28 - 12:40:01	<b>_</b>	

If the LPAR selection is correct but no chages are discovered the following message is displayed.

NSIMANL - No	Inspection Logs Changes v	vere Detected.
<u> </u>	22/09/28 - 12:52:36	

If changes between the selected LPARs are detected a Cross Compare Report similar to the snippet shown below will be displayed.

ICEBA	ICEBATA Configuration Baseline Snapshot Cross Compare	EBATA
	Baseline - IFO.MTGY.ICEBATA.S0W1.LOG Baseline - IFO.MTGY.ICEBATA.S0W2.LOG	
	Changed Element/Member Deleted Element/Member Deleted Element/Member	0
Member:	LOADWX Member is now configured	
Member: Detail: New New New	NUCLSTXX Member is now configured Status: FOUND IN VOL=B4SYS1;DSN=SYS1.IPLPARM. Update: DATE=2009/05/11 TIME=22:37:56 USER=IBMUSER.  INCLUDE IGC203	
Member:	LOADWS Member is no longer configured	
Member: Detail: Del Del Del	NUCLST00 Member is no longer configured Status: FOUND IN VOL=B4SYS1;DSN=SYS1.IPLPARM. Update: DATE=2009/05/11 TIME=22:37:56 USER=IBMUSER.  INCLUDE IGC203	
Member: Old New	IPLPATH Member has changed  IODF UNIT 0A83 IS VOLUME B4SYS1.  IODF UNIT 0A83 IS VOLUME B4SYS2.	

### **Technical Support Contact Information**

#### NewEra Software, Inc.

Mailing Address: 8070 Santa Teresa Blvd., Ste. 240 Gilroy, CA 95020

> Phone: (408) 520-7100 (800) 421-5035

> FAX: (888) 939-7099

Email Address: support@newera.com

Web Site: https://www.newera.com

Technical Support: 24 hours a day, 7 days a week 1-800-421-5035 support@newera.com

