

*IPLCheck/AI* is Image FOCUS executing on the “Running System” under the control of the IBM Health Checker for z/OS. This close association with z/OS gives it the ability to perform full z/OS Inspections, detect Health Check Exceptions and discover Dynamic Changes, a state where in-memory parameters vary from those used in the prior IPL. Findings are distributed as Real-Time Alerts and/or Interval Reports. Knowing of such possible troubling conditions is critical to maintaining integrity and long-term resiliency of your z/OS environment. Exploring the Inspection Trace/Log using the 3270 Command Line and/or Web based Interface will lead to a better understanding of often hidden Configuration Insights and Compliance Concerns.

# IPLCheck/AI – Advanced Functions

**ICE19.0**

**USER GUIDE**

IPLCheck/AI uses a Rule Based Model for Predictive z/OS Failure Analysis (PFA)



Contact us for additional information:

NewEra Software Technical Support

800-421-5035 or 408-520-7100

Or text support requests to 669-888-5061

[support@newera.com](mailto:support@newera.com)

[www.newera.com](http://www.newera.com)

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## 1 Foreword

### 1.1 Copyright, Trademark and Legal Notices

#### 1.1.1 Copyrights

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#### 1.1.2 License Agreement

This User Guide describes the installation and operation of the IPLCheck Family and related components of the Integrity Controls Environment (ICE). It is made available only under the terms of a license agreement between the licensee and NewEra Software, Inc. No part of this Guide or the related Software Product(s) may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose, without the express written permission of NewEra Software, Inc.

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## 1.2 General Information

### 1.2.1 Who Should Read this Document

Those given the responsibility to install, maintain and use IPLCheck should read this document. It will explain in detail how IPLCheck is installed, configured, maintained and used.

### 1.2.2 Other Documents and Resources

In addition to this document, new users will benefit from the content of these three additional documents:

- Image FOCUS Read Me;
- Image FOCUS User Guide;
- Getting Started With Image FOCUS;
- IPLCheck/AI - Core Functions - User Guide.

All of these documents are available in PDF format as downloads on the NewEra web site or can be requested directly by contacting NewEra Technical Support by email at the following email address: [support@newera.com](mailto:support@newera.com).

### 1.2.3 Reporting Problems

When reporting an IPLCheck problem to NewEra Technical Support, please provide the following information so that we may resolve the issue expeditiously.

- The JOBLOG/JCL/MESSAGE output from the IPLCHECK Address Space.

### 1.3 Technical Support Information

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<b>Around-the-clock-support</b>	NewEra Software is dedicated to providing the highest level of technical support to meet our customers' growing needs. In order to meet these needs, NewEra provides technical support, 7 days a week, 24 hours a day.
<b>Reach us by Telephone during Business Hours</b>	Please use the following phone numbers to reach our technical support staff during normal business hours (6 AM to 4 PM Pacific Time): <ul style="list-style-type: none"><li>• In North America, dial 1-800-421-5035</li><li>• Outside North America, dial 1-408-520-7100</li><li>• Support inquiries may also be texted to 669-888-5061</li></ul>
<b>Reach us by Telephone during non-Business Hours</b>	In case of an emergency, during non-business hours, phone the above numbers to receive instructions on how to contact a Technical Support Representative or a Technical Support Manager.
<b>Sending Email</b>	Our technical support staff can be reached by email at support@newera.com. Email messages will be answered by the next business day. Product technical questions or product recommendations may be sent via email.
<b>Help through the NewEra website</b>	You can access technical support from <a href="http://www.newera.com">www.newera.com</a> . Click the Support tab at the top of the screen to reach our Technical Support Request page.
<b>Service Levels</b>	NewEra is committed to providing the highest level of quality to our customers by adopting the following criteria for responding to customer requests: <ul style="list-style-type: none"><li>• All critical questions received by phone during working hours will be answered within 15 minutes of receiving the request;</li><li>• Technical questions sent by email, or messages sent through our Technical Support Request page, will be answered by the next business day.</li></ul>
<b>We Want Your Suggestions!</b>	NewEra understands the significance of providing our customers with the highest quality support and welcomes all suggestions as to how we may improve Technical Support.

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## 1.4 About IPLCheck/AI

The IPLCheck/AI Family is an integrated set of Predictive Failure Analysis (PFA) “Health Checks” that evaluate z/OS configuration settings against ‘Industry Best Practices’ to pinpoint the causes of potential system initialization failures at the z/OS Logical Partition (LPAR) level.

The analytic processes used by each IPLCheck/AI application are based on NewEra’s proven z/OS Inspection Server Technology that supports all releases of z/OS. The Family includes:

### CORE FUNCTIONS

- **IPLCheck/AI-Core** is directed to automatically discover the IPL PARMs of each ‘Production’ z/OS LPAR to which it is assigned. It evaluates running settings for syntax and related system components for structural integrity.
- **IPLCheck-/AI-Dynamic** evaluates LPALST, LNKLST, APFLST, BPXLST, BPXMNT and SYMLST settings. Mismatches with ‘Actual’ production or alternate configurations often result in a loss of functionality when an LPAR is re-IPLed.

### ADVANCED FUNCTIONS

- **IPLCheck/AI-Plus** is directed to ‘Alternate’ z/OS LPARs via user-managed settings that override IPLCheck/AI-Core discoveries. Alternates include Unit Address, LoadParm, Catalog and development IPLPARM and PARMLIB datasets.
- **IPLCheck/AI-Viewer** analytic findings are reported to the Health Checker Framework where they are immediately distributed, by LPAR, for review and remediation. The Viewer provides a centralized focal point where the state of all LPARs can be reviewed simultaneously.
- **IPLCheck/AI -Subsystems** extends the discovery and standards enforcement found in IPLCheck/AI-Core and IPLCheck/AI-Plus to include the z/OS subsystems JES, VTAM, CICS and various TCP/IP components.

## 1.5 IPLCheck/AI Licensing Keys

There are several License Statement options that control access to IPLCheck CORE and ADVANCED Functions as shown in the example/sample below. They will be placed in and activated from the ICE Parmlib member NSEPRMxx.

```
COMPANY=NEWERA/STANDARD/IFO (CPUS EDITION) - Required for Both
LTAUTH=3FBA26D04503D4 (UPDATE BY:12/31/27) - CORE Function
AUTH10=9151453CDE47E6 (SNUM:0001A0 1090/710) - ADVANCED Function
OPTH11=67CA4A556EA8F6 (Subsystem Inspectors) - ADVANCED Function
OPTH15=8E3A02EBFB2646 (Health Checker Support) - ADVANCED Function
OPTH16=F0CAE36451B047 (New Release Analysis) - CORE Function
```

### 1.5.1 IPLCheck/AI – Core Function:Opsys and Dynamic

For Core functions licensing, Statements LICNAUTH and LICNOPT6 are required.

### 1.5.2 IPLCheck/AI – Advanced Function:Plus

In addition to Core Function licensing, Advance Function:Plus requires licensing Statement LICNOPT5

### 1.5.3 IPLCheck/AI – Advanced Function:Subsystems

In addition to Core Function licensing, Advance Function:Subsystems requires licensing Statement LICNOPT1

## 1.6 Requesting Licensing Keys

To request Licensing Keys send an Email to Support@newera.com with a copy of the output of the M=CPU command from the processor on which you wish to run IPLCheck/AI

## 1.7 Limitations of IPLCheck/AI

The IPLCheck/AI Family of applications operates totally under the control of the IBM Health Checker for z/OS and therefore does not have access to the background and/or interval monitoring or change and/or event detection process found in the other ICE applications: Image FOCUS, The Control Editor and The Supplementals.

## 1.8 Enhancements in this Release

IPLCheck/AI 19.0 is built on the latest ICE code base Version 18 Patch 8. Changes improving the availability, reliability and serviceability of the Image FOCUS Core have been made. They are listed in the Image FOCUS 19.0 Read Me. In addition, in this release of Image FOCUS the z/OS Core has been enhanced to provide support for z/OS V3R2. It is recommended that current users upgrade to this new release as soon as possible.

### 1.8.1 Functionality

- Dataset and Volume Reports now included in Trace/Log
- Parmlib Dataset Backup Verification or Not noted in Trace/Log
- Last IPL Date and Time now noted in Trace/Log
- IEASYSxx Default Value now shown in Report (V2R5 and Higher)

### 1.8.2 Presentation

- IPLCheck/AI has always been great at creating findings, clearly “Big Data”, ranging to 20k records for a single image and hiding insights into the data itself. Now a Command Line Interface (CLI) unmask the true value of the Trace allowing navigation using preprogrammed prompts.

### 1.8.3 Automation

- Obeying either internally programmed rules or Health Checker intervals assures that Adverse Inspection Findings of Errors | Warnings | Notice or Exceptional Health Check Events of High | Medium | Low severity are detected and reported out to your team in near real-time.

### 1.8.4 Alerts and Notifications

- When adverse Inspection Findings or Health Check Exceptions are discovered alert and notification is programmable using Email | ServiceNow | FTP. Any or all, as necessary.

### 1.8.5 Support for z/OS 3.2

- z/OS 3.2 became generally available on October 1, 2025. NewEra, as expected, provided support on the same day.

## 1.9 System Requirements

### 1.9.1 Prerequisites

To use any /AI Family application, you will need Integrity Controls Environment (ICE) 14.0 for z/OS V1R1 or higher and the IBM System Display and Search Facility (SDSF), CA-SysView, or their equivalent. You can access the latest release of ICE at [www.newera.com](http://www.newera.com).

### 1.9.2 The License Key

One or more License Key(s) is required to activate an IPLCheck/AI Family application. Once the License Key(s) is inserted in the ICE Control Member NSEPRM00, the functions of the application are unlocked and become immediately controllable by the IBM Health Checker for z/OS Framework.

## 1.10 IPLCheck/AI - Solving Real-World Problems

### 1.10.1 Valuable Insurance

- “...When we did the math it was pretty clear that the partnership of the IBM Health Checker for z/OS and the IPLCheck/AI product family represented an insurance policy we just couldn’t live without. I mean the RACF Resource Checks alone help us to avoid negative Security Audit Findings. And the z/OS, Sub-system and Dynamic Checks provided by NewEra assure us that z/OS and Sub-System initializations will go as planned. What would an initialization failure cost us? Well in our organization a lot more than the license fee per LPAR per year. Working together these system tools represent the best Insurance Policy against security and Initialization failure available anywhere. We’re all satisfied with the improvements in z/OS integrity and the savings, problem solved.”

### 1.10.2 Money Saver

- “...money is always a problem in our shop, it’s become a way of life to look for the best value, highest return on investment in everything we do. We’ve been following NewEra and its z/OS Inspection Technology for a long time and were convinced it could help us guard against future IPL failures. We wrote and submitted our justification for approval but management just couldn’t give the ‘Green Light’ because of other financial priorities. I am happy to say that the IPLCheck/AI Family solved all financial concerns. We acquired a license only for our six production LPARs. Management now thinks of LPAR Inspection as *MUST HAVE*.” LPARs protected, management happy, problem solved.

### 1.10.3 Economical Growth

- “...we have been using the ICE Application, Image FOCUS in batch (IFOBAT/A/S) for the last 5 years. We consider batch processing a good alternative to Image FOCUS Production for automating individual LPAR Inspections when you are not concerned with the integrity of the overall Sysplex. When we started there were only 3 production LPARS; now we’re up to 20 spread across 3 z/Platforms and expect more. We still like the LPAR by LPAR inspection approach we get with IFOBAT/A/S but the numbers are beginning to work against us. I am happy to say that IPLCheck/AI solved this for us. Now we let the IBM Health Checker schedule our LPAR Inspections and report the results. And since we share DASD across the Sysplex and therefore the ICE Application Libraries, all we need to do when adding a new LPAR is copy the IPLCHECK PROC to the LPAR’s PROCLIB and start it. And the really good news is that for us there was *NO ADDITIONAL LICENSE FEE*.” LPARs protected; growth under control, problem solved.

### 1.10.4 Easy Startup

- “...the thing we like best about the way NewEra is approaching the distribution of its system software environment and applications is that it allowed us to get started with

minimal effort and expense, focusing on what we believed to be our most critical issue, LPAR integrity. As we get comfortable with the process we can, at any time, move on to more global z/OS concerns: Sysplex and Sub-System Inspections, Baselines, Change Detection, Release Analysis, Compensating Configuration Control and IODF Configuration Management. We're not at all certain we'll ever need them but our business is growing and that to us means more regulations and more oversight. It's good to know that the tools we'll need to solve these complex problems are already installed and available." LPARs protected, future assured, problem solved.

#### 1.10.5 Problem Solved

- "...I really didn't know very much about the IBM Health Checker for z/OS except that it came packaged as a "freebee" with z/OS. Now we run it constantly and wonder how we ever got along without it. The IPLCheck/AI Family got us hooked and then with a little time and research we turned off checks in the IBM Check Inventory that weren't useful in our shop. Who knows? We may even write a few Checks of our own, it certainly looks doable." LPARs protected, new system tool active, problem solved.

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## 2 IPLCheck/AI - Advanced Function

### 2.1 Starting IPLCheck/AI – Core Functions

Following the documented Workflow to install and start IPLCheck/AI – Core functions is a prerequisite to starting IPLCheck/AI – Advanced Functions. For more information see the IPLCheck/AI - Core Functions documentation.

### 2.2 Starting IPLCheck/AI - Advanced Functions (Alt)

Move/Copy the IPLCheck/AI-Alt PROC, (IPLALT), from &nssprfx.PROCLIB to the *INSTALL* LPAR's Proclib.

#### 2.2.1 Working Datasets and IFO ParmLib Member Suffix

Keyword		Functional Description
NSSPRFX		The dataset prefix used to define the working Image FOCUS Datasets. Must match the setup prefix defined in the Image FOCUS Parmlib member NSEPRMxx.
SPFPRFX		The dataset prefix used to define the IBM ISPF/PDF Datasets. Must match the setup prefix defined in the Image FOCUS Parmlib member NSEPRMxx.
PRM		The suffix of the NSEPRMxx controlling the execution of Image FOCUS as found in the Image FOCUS Parmlib dataset.

#### 2.2.2 Application Configuration

Keyword	*	Functional Description
ADDC		The suffix of an optional COMMNDxx member to be used for signaling the start of processes not normally started during the early stages of an IPL, i.e TCP/IP or CICS regions.  NOTE: Member name is required. If you do not require an additional start command create and reference a 'DUMMY' member.
WARN		Specify "E" to report Inspection Warning messages as Health Checker Exception messages. Specify "I" to report Inspection Warning messages as Health Checker Information messages.

CAT		SYSCAT SUFFIX (OPTIONAL)
ID		A three-character label to be used as part of the Check-Name. Should be used to distinguish individual checks by LPAR.
IPLU		4 hex digit unit address of the alternate IPL volume, required
LPRM	*	1-8 character LOADPARM, optional.
HWN	*	1-8 character Hardware name to be used, optional
LPN	*	1-8 character LPAR name to be used, optional
VMN	*	1-8 character VM UserId to be used, optional
	*	If not specified the value of this Keyword will default to the automatically discovered running system value.

### 2.2.3 Allocate IPLALT Log Dataset

The ALLOCALT PROC found in ifohlq.ifollq.INSTLIB can be used to allocate the required Log Dataset.

### 2.2.4 Verify Log Dataset Name

Before executing the PROC, verify that the //REPORT DD Statement that defines the IPLCheck/AI-Alt Log Dataset is in the form shown below. Do not modify the format, as it will be used by the available ICE-Viewer to locate the Inspection Logs for each system running the IPLCheck/AI-Alt application.

```
//REPORT DD DISP=SHR,DSN=&NSSPRFX.. IPLALT.&SYSNAME..LOG
```

## 2.2.5 IPLCheck/AI-Alt Sample PROC

```

***** Top of Data *****
/*-----*/
/*          NEWERA IPLCHECK/AI PLUS SUITE          *
/*          IPLCHECK FROM AN ALTERNATE IMAGE      *
/*          STARTED TASK PROCEDURE                *
/*-----*/
/* NSSPRFX - PREFIX FOR IMAGE FOCUS DATASETS      *
/* SPFPREFX - PREFIX FOR IBM ISPF/PDF DATASETS    *
/* PRM      - SUFFIX FOR NSEPRMXX MEMBER          *
/* ADDC     - SUFFIX FOR ADDITIONAL COMMNDXX MEMBER *
/* WARN     - E- TREAT WARNING MESSAGES AS EXCEPTIONS *
/*          I- TREAT WARNING MESSAGES AS INFORMATION *
/* ID       - THREE-CHARACTER IDENTIFIER TO BE USED *
/*          AS PART OF THE CHECK NAME.            *
/* CAT      - SYSCAT SUFFIX (OPTIONAL)           *
/*-----*/
/* IPLU, LPRM, HWN, LPN, AND VMN, IF SUPPLIED HERE *
/* WILL OVERRIDE THE RUNNING SYSTEM VALUES WHICH ARE *
/* THE DEFAULTS.                                   *
/*-----*/
/*
/*
//HCHECK PROC NSSPRFX='IFO.TEST',
//          SPFPREFX='ISP',
//          PRM='00',          <===== MODIFY
//          ADDC='$$',        <===== MODIFY
//          WARN=E,          <===== MODIFY
//          CAT=',          <===== MODIFY
//          ID='ALT',        <===== MODIFY
//          IPLU=????,      IPL UNIT ADDRESS (4 CHARS; REQUIRED)
//          LPRM=,          LOADPARM (4 - 8 CHARS; OPTIONAL)
//          HWN=,          HARDWARE NAME (1 - 8 CHARS; OPTIONAL)
//          LPN=,          LPAR NAME (1 - 8 CHARS; OPTIONAL)
//          VMN=,          VM USERID (1 - 8 CHARS; OPTIONAL)
/*
//IEFPROC EXEC PGM=NSIBSAS,
//          PARM='ISPSTART CMD(%IFBGHCK &PRM, &ADDC, &WARN, &CAT, &ID, &IPLU, &LPRM,
//          &HWN, &LPN, &VMN) ',
//          DYNAMNBR=800,
//          REGION=20M
//STEPLIB DD DISP=SHR, DSN=&NSSPRFX..LOAD
/*-----*/
/* UNCOMMENT THE $IPLPDM DD TO USE A TEST IPLPDM DATASET
/*
/*$IPLPDM DD DISP=SHR, DSN=YOUR.ALTERNATE.IPLPDM
/*
/*-----*/
/* UNCOMMENT THE $PRMLB$$ DD TO ADD A TEST PARMLIB DATASET TO
/* THE TOP OF THE PARMLIB DATASET CONCATENTAION
/*
/*$PRMLB$$ DD DISP=SHR, DSN=YOUR.ADDITIONAL.PARMLIB
/*
/*-----*/
//NSEPDM DD DISP=SHR, DSN=&NSSPRFX..PARMLIB
//NSEULIB DD DISP=SHR, DSN=&NSSPRFX..USERLIB
//REPORT DD DISP=SHR, DSN=&NSSPRFX..IPLALT.&SYSNAME..LOG
//ISPPROF DD SPACE=(TRK, (5, 5, 5)), UNIT=SYSDA,
//          BLKSIZE=3120, LRECL=80, RECFM=FB
//ISPCTL1 DD SPACE=(TRK, (5, 5)), UNIT=SYSDA,
//          BLKSIZE=3120, LRECL=80, RECFM=FB
//ISPLST1 DD SPACE=(CYL, (1, 1)), UNIT=SYSDA,
//          BLKSIZE=1210, LRECL=121, RECFM=FBA
//ISPTABL DD SPACE=(TRK, (5, 5, 5)), UNIT=SYSDA,
//          BLKSIZE=3120, LRECL=80, RECFM=FB
//NSEPWORK DD UNIT=SYSDA, SPACE=(CYL, (5, 1))

```

```
//NSEPWRK2 DD UNIT=SYSDA,SPACE=(CYL,(5,1))
//NSEPWRK3 DD UNIT=SYSDA,SPACE=(CYL,(32,8)),
//          LRECL=120,RECFM=FB,
//          DISP=(MOD,DELETE)
//SYSPROC DD DISP=SHR,DSN=&NSSPRFX..SISPCLIB
//          DD DISP=SHR,DSN=&NSSPRFX..SISPCLB2
//          DD DISP=SHR,DSN=&SPFPRFX..SISPCLIB          ISPF
//SYSEXEC DD DISP=SHR,DSN=&SPFPRFX..SISPEXEC          ISPF
//ISPMLIB DD DISP=SHR,DSN=&NSSPRFX..SISPMENU
//          DD DISP=SHR,DSN=&SPFPRFX..SISPMENU          ISPF
//ISPEXEC DD DISP=SHR,DSN=&SPFPRFX..SISPEXEC          ISPF
//ISPPLIB DD DISP=SHR,DSN=&NSSPRFX..SISPPENU
//          DD DISP=SHR,DSN=&NSSPRFX..SISPPNL2
//          DD DISP=SHR,DSN=&SPFPRFX..SISPPENU          ISPF
//ISPPLIB DD DISP=SHR,DSN=&SPFPRFX..SISPSENU          ISPF
//          DD DISP=SHR,DSN=&SPFPRFX..SISPSLIB          ISPF
//ISPTLIB DD DISP=SHR,DSN=&SPFPRFX..SISPTENU          ISPF
//ISPLOG DD SYSOUT=A,HOLD=YES,
//          BLKSIZE=129,LRECL=125,RECFM=VA
//SYSTSIN DD DUMMY
//SYSTSPRT DD SYSOUT=A,HOLD=YES
//SYSUDUMP DD SYSOUT=A,HOLD=YES
***** Bottom of Data *****
```

### 2.3 Starting IPLCheck/AI-Subsystems

The Subsystem checks (JES2/3, VTAM, TCP/IP and CICS) all require either IPLCheck/AI-Core or IPLCheck/AI-Alt and a Subsystem License Key. When the Subsystem License Key is present in the NSEPRMxx Member, starting either the IPLCheck/AI-Core or IPLCheck/AI-Alt PROC will automatically result in the inclusion of the subsystem inspection records within the Inspection Log Dataset.

## 2.4 Starting IPLCheck/AI Viewer

The IPLCheck Viewer is selectable from the Integrity Controls Environment (ICE) Primary Menu. To display the Viewer Primary Menu place 'V' on the command line (representing the Viewer option) and press enter.

```

ICE 19.0 - The Integrity Control Environment

P  ProdView  .. - Image Focus Production Views          Userid   - RFAUL1
W  WorkView  .. - Image Focus Workbench Views           Time     - 07:37
R  DRecView  .. - Image Focus Recovery Views            Terminal - 3278
C  Controls  .. - Controls Environment Settings         System   - ADCD113
V  IPLViews  .. - IPLCheck Results Focal Point         Applid   - TEST
D  Defining  .. - IFO Definitions and Settings          Image Focus 19.0
                                           Patch Level GA

                *****
                * Background Task: DOWN *
                * No/TSO Recovery: DOWN *
                *****

X  Exit      - Terminate

NewEra Software, Inc.
Our Job? Help you make repairs, avoid problems, and improve IPL integrity.
Option ===>

```

### 2.4.1 The ICE Viewer Primary Menu

```

VUE 19.0 - Integrity Control Environment Viewer

C  IPLCore   .. - Production IPL Configurations         Userid   - RFAUL1
P  IPLPlus   .. - Alternative IPL Configurations        Time     - 07:36
M  Manager   .. - View Managed Peer Image Changes      Sysplex  - ADCDPL
S  StepOne   .. - Explores all IODF Configurations      System   - ADCD113
J  JEvents   .. - Access a Timeline of Change Events   IFOhlq   - TEST
Z  zChecks   .. - z/OS Health Checks for Named Systems ICE 19.0 - VUE 19.0
D  Detects   .. - Baseline Named z/OS Control Boundaries Patch Level GA

X  Exit      - Return to the ICE Primary Menu

NewEra Software, Inc.
Our Job? Help you make repairs, avoid problems, and improve IPL integrity.
Option ===>

```

## 2.5 Post Installation Activities

### 2.5.1 Supporting Multiple LPARs

The same IPLCHECK PROC may be executed on other LPARs, within the same physical z/Platform, if the LPARs share DASD with the *INSTALL* LPAR and have access to the same sets of IPLCheck/AI System, PARMLIB and PROCLIB datasets. Each additional LPAR *MUST* have a unique Inspection Trace/Log Dataset. Generally this Dataset distinction is made in the individual PROC by the automatic substitution/insertion of the SYSTEM NAME into the Log Dataset Name.

The ALLOCIPL and ALLOCALT PROC, found in ifohlq.ifollq.INSTLIB, can be used to allocate the required unique dataset on each additional LPAR.

If a manual allocation process is required, use the following dataset attributes for each unique Log Dataset.

```
SPACE=(CYL,(16,1)),LRECL=120,BLKSIZE=0,RECFM=FB,NEW,CATLG
```

If an LPAR does not share the same IKJTSOxx PARMLIB member as the *INSTALL* LPAR, add the IPLCheck/AI-Core and/or IPLCheck/AI-Alt specific command NSIBSAS to the AUTHCMD section of the LPAR's IKJTSOxx member before the *REQUIRED* member refresh. To refresh the LPAR's IKJTSOxx member, use the following MVS Operator Command:

```
SET IKJTSO=xx
```

If the LPAR target does not share DASD, or is on another z/Platform, a new install of IPLCheck/AI is required. Unique Log Dataset names are not required but highly recommended.

### 2.5.2 Starting an IPLCHECK PROC

From any MVS Operator Console or equivalent, START IPLCHECK or START IPLALT (a started task). Once IPLCheck/AI-Core and/or IPLCheck/AI-Alt are started, the task will remain active until stopped or the LPAR is re-IPLed.

The first action taken by an IPLCheck/AI application, after it is started, is to register itself with the IBM Health Checker for z/OS using the Check Name:

```
NEZ_OPSYS_INSPECTION
or
NEZ_(id)_OPSYS_INSPECTION
```

Where "id" is the three-character value assigned on the ID keyword (default is 'ALT') found in the IPLCheck/AI-Alt PROC, IPLALT.

### 2.5.3 What to Expect

Once started, IPLCheck/AI will register itself with the IBM Health Checker for z/OS and be requested to run immediately. Following this initial execution, the IBM Health Checker for z/OS will call IPLCheck/AI approximately every two hours unless otherwise specified in HZSPRMxx.

### 2.5.4 Changing the Interval

Updating the HZSPRMxx member with a CHECK POLICY, like the one shown below, will permanently change the interval, at which IPLCheck/AI-Core and IPLCheck/AI-Alt are called:

```
ADDREPLACE POLICY STMT(NEZP) UPDATE CHECK(NEWERA,*)
           DATE (yyyymmdd) INTERVAL (4:00)
           REASON('UPDATE INTERVAL TO 4 HOURS')
```

Updating the HZSPRMxx member with a CHECK POLICY, like the one shown below, will permanently change the interval, at which IPLCheck/AI-Core is called:

```
ADDREPLACE POLICY STMT(NEZP) UPDATE CHECK(NEWERA,NEZ_OPSYS*)
           DATE (yyyymmdd) INTERVAL (4:00)
           REASON('UPDATE INTERVAL TO 4 HOURS')
```

Updating the HZSPRMxx member with a CHECK POLICY, like the one shown below, will permanently change the interval, at which IPLCheck/AI-Alt is called:

```
ADDREPLACE POLICY STMT(NEZP) UPDATE CHECK(NEWERA,NEZ_id_OPSYS*)
           DATE (yyyymmdd) INTERVAL (4:00)
           REASON('UPDATE INTERVAL TO 4 HOURS')
```

Where “id” is the value from the IPLALT PROC ID keyword.

### 2.5.5 Verify Activity

Verify that the IBM Health Checker for z/OS is running on the IPLCheck/AI target LPAR. If not, START HZSPROC and verify activity using SDSF or an equivalent system management tool.

## 2.5.6 Problems with HZSPROC and IPLCHECK

Depending on your External Security Manager (ESM) - RACF, ACF2 or Top Secret- you may encounter the following or similar errors in syslog when you attempt to start the IPLCHECK PROC.

```
J E S 2   J O B   L O G   --   S Y S T E M   S Y S N   --   N O D E   N G I C J 2 N 2

11.22.32 STC08842 ---- WEDNESDAY, 16 AUG 2019 ----
11.22.32 STC08842  IEF695I START IPLCHECK WITH JOBNAME IPLCHECK IS ASSIGNED TO USER
IPLCHECK, GROUP #STCNON
11.22.32 STC08842  $HASP373 IPLCHECK STARTED
11.22.32 STC08842  IEF403I IPLCHECK - STARTED - TIME=11.22.32
11.22.32 STC08842  IFO0375I IPLCHECK INITIALIZATION COMPLETE FOR STC=IPLCHECK.
11.22.33 STC08842  +IFO0309E HZSADDCK RETURN CODE X'00000008'; REASON CODE
X'02010859'.
...
```

This is caused by the lack of authorization of the HZSPROC. The IBM manual says:

“That the calling program has CONTROL access to the SAF resource HZS.sysname.checkowner.checkname.ADD in the XFACILIT class.”

To correct for this error try the following:

```
RDEFINE XFACILIT HZS.*. NEWERA.** UACC(NONE)
PERMIT HZS.*.NEWERA.** CLASS(XFACILIT) ID(IFOSTCP) ACCESS(CONTROL)
SETROPTS REFRESH RACLIST(XFACILIT)
```

Restart IPLCHECK and check the log for the 309E message. If the message does reappear, contact NewEra Technical Support, [support@newera.com](mailto:support@newera.com).

### 2.5.7 Message Management

Image FOCUS Inspection Reports detail the state of each inspection action and inspection result using an 8-character message number. This message number is composed of three independent elements: positions 1-3 are the Inspector Identifiers, positions 4-7 are the Message Numbers, and position 8 is used to denote Message Severity. Message Severity levels include: “I” to indicate an Information message, “N” to indicate a Notice message, “W” to indicate a Warning message, and finally “E” to denote an Error message. A string of descriptive Message Text follows each Inspection Message to help amplify in meaning. The Inspection Report lines shown below show these relationships and an ERROR being reported by message number IFO0615E.

```

IFO0935I SEARCHING FOR BPXPRMMS MEMBER.
IFO0940I BPXPRMMS FOUND IN PARMLIB(1) VOL=VTMVSG;DSN=SVTSC.PARMLIB.
IFO0675I BPXPRMMS LAST CHANGED DATE=2019/08/01 TIME=14:32:46 USER=IBMUSER.
IFO0923I BPXPRMMS MEMBER CONTENTS ARE AS FOLLOWS:
|-----1-----2-----3---TOP OF MEMBER---5-----6-----7-----
|/*****/
|/* Copy from CSQ700.SVSC.CUSTOM.INSTALL(BPXPRMMS) to
|/* VENDOR.PARMLIB(BPXPRMMS) .
|/* Update VENDOR.PARMLIB(IEASYSVN) OMVS=(OM,VN), to add MS --->
|/* OMVS=(OM,VN,MS)
|/*****/
|MOUNT FILESYSTEM('CSQ700.MQM.HFS')
| TYPE(HFS)
| MODE(READ)
| MOUNTPOINT('/usr/lpp/mqm/v7R0M0')
IFO0615E UNBALANCED COMMENTS DETECTED.
IFO0718I SEARCHING FOR HFS DATASET(S) .
IFO0724I CATALOG NAME FOR CSQ700.MQM.HFS IS CATALOG.CSQ700.
IFO0998I CSQ700.MQM.HFS FOUND ON VOLUME VTMQ7A.

```

All Inspection Message severity levels are based on published IBM Documentation, Industry and Customer Experience. By default, they are considered “Technically Correct”, deserving of serious attention and ignored at the risk of losing system integrity. These cautions notwithstanding, based on specific site experiences and unique site requirements, users may wish to alter these message severities. This can be accomplished by using the optional NSEMSG00 PARMLIB member.

In the Inspection Report lines shown above, take note of the ‘IFO0615E’ message. If it is considered appropriate to change this message from a severity of ERROR to a severity of WARNING, insert the following message syntax into the NSEMSG00 PARMLIB member.

```
IFO0615E(W)
```

In certain circumstances, it may be desirable to limit the message severity change to only those cases that are further qualified by all or a portion of the content of the message text that is associated with the Inspection Message.

In the first example shown below, the message severity is changed from a WARNING to NOTICE but only if the word `PROCEDURE TCPIP` is also found in the message.

In the second example, the message severity is changed from a WARNING to an ERROR but only if the prefix `SYS1` is found in the message.

```
IFO0983W(N) ' PROCEDURE TCPIP '
IFO0749W(E) ' SYS1' /* find SYS1 Datasets */
```

When message text is used as a qualifier, the string to be matched with the text must be enclosed in single quotes. The quoted qualifier may appear anywhere in the message text between columns 13 through 71.

If the string to be matched contains a single quote, then place two single quotes in succession to represent a single quote as shown in the example below.

```
IFO0796E(W) 'LET''S GO' /* match LET'S GO */
```

The increase or decrease in message severity that results from the use of `NSEMSG00` along with all reported ERROR, WARNING and NOTICE messages and the entire `NSEMSG00` member are reported in the Message Summary Report. The Message Summary Report is linked to the Inspection Report Index using the label `MSS_RPT`.

There may be times when you would like an Information Message, an “I”, which would not normally be included in the Message Summary to appear. To accomplish this, code the desired message severity the same as the old. In the example below the text is presented for amplification of the related Information Message text only and not necessary.

```
IFO0940I(I) LOADW1 FOUND IN IPLPARM(0) VOL=VPMVSB;DSN=SYS1.IPLPARM.
```

### 2.5.7.1 NSEMSG00 SYNTAX Rules

- The entire line may be a comment by placing an asterisk in column 1.
- Comments may be added to any line, with or without a string, and may appear before or after the string.
- A blank in column 1 on any line of `NSEMSG00` will cause a syntax error.
- The actual Inspection Message to be changed must begin in column 1 and end in column 8.

- The desired message severity: I, N, W or E must be preceded by “(“ beginning in position 9 followed by the new severity and then followed by “)” in position 11.

### 2.5.7.2 NSEMSG00 Limitations

Message Filtering/Changes has certain limitations; currently message IFO0909E cannot be changed.

### 3 Using IPLCheck/AI

Once IPLCheck/AI is started, it will automatically register its availability with IBM Health Checker for z/OS, which will immediately take control, scheduling LPAR Inspections and routing inspection results to the SDSF Message Buffer and the System/Sysplex Log Stream. In addition, with each inspection execution, IPLCheck/AI will create and store a detail Trace/Log of its inspection processes and findings, The Inspection Log.

#### 3.1 Validating IPLCheck/AI Application Status

Once an IPLCheck/AI application is started, validate that both it and the IBM Health Checker for z/OS are operational.

```

Display Filter View Print Options Help
-----
SDSF STATUS DISPLAY ALL CLASSES                               LINE 1-19 (28)
COMMAND INPUT ==>                                           SCROLL ==> PAGE
NP  JOBNAME  JobID   Owner   Prty Queue   C  Pos  SAff  ASys Status
PROBI1  TSU01940  PROBI1   15 EXECUTION  NEZ1 NEZ1
SDSF    STC01361  STRTASK  15 EXECUTION  NEZ1 NEZ1
VTAM    STC01363  STRTASK  15 EXECUTION  NEZ1 NEZ1
HZSPROC STC01367  STCOPER  15 EXECUTION  NEZ1 NEZ1
ZFS     STC01369  STCOPER  15 EXECUTION  NEZ1 NEZ1
SYSLOG  STC01370  +MASTER+ 15 EXECUTION  NEZ1 NEZ1
INIT    STC01371  STRTASK  15 EXECUTION  NEZ1 NEZ1
INIT    STC01372  STRTASK  15 EXECUTION  NEZ1 NEZ1
RACF    STC01380  STRTASK  15 EXECUTION  NEZ1 NEZ1
BPXAS   STC01381  OMVSKERN 15 EXECUTION  NEZ1 NEZ1
BPXAS   STC01384  OMVSKERN 15 EXECUTION  NEZ1 NEZ1
TCPIP   STC01386  TCPIP    15 EXECUTION  NEZ1 NEZ1
TN3270  STC01387  TCPIP    15 EXECUTION  NEZ1 NEZ1
TCAS    STC01390  STRTASK  15 EXECUTION  NEZ1 NEZ1
IFOEM   STC01807  STCOPER  15 EXECUTION  NEZ1 NEZ1
IPLCHECK STC01841  STCOPER  15 EXECUTION  NEZ1 NEZ1
IPLALT  STC01841  STCOPER  15 EXECUTION  NEZ1 NEZ1
IFOCM   STC01894  STCOPER  15 EXECUTION  NEZ1 NEZ1
$MASCOMM STC00001  15 PRINT      1
IFOBM   STC01856  STCOPER  1 PRINT      2

```

### 3.2 Viewing Check Results in SDSF

From the SDSF Primary Option Menu, select CK to access the SDSF Health Checker Display.

```

Display Filter View Print Options Help
-----
HQX7740 ----- SDSF PRIMARY OPTION MENU -----
COMMAND INPUT ==>                                SCROLL ==> PAGE

DA  Active users                                INIT  Initiators
I   Input queue                                  PR    Printers
O   Output queue                                 PUN   Punches
H   Held output queue                           RDR   Readers
ST  Status of jobs                               LINE  Lines
                                         NODE  Nodes
                                         SO    Spool offload

LOG  System log
MAS  Members in the MAS
JC   Job classes                                CK    Health checker
SE   Scheduling environments
RES  WLM resources                               ULOG  User session log

END   Exit SDSF

```

Page down until you locate the NEZ\_OPSYS\_INSPECTION Check. Take note of the Check State and Check Status. Page the display to the right for additional information or to alter the Check Interval. The revised interval will persist for as long as the IBM Health Checker for z/OS remains active. The results of an IPLCheck/AI execution can be updated at any time from this display by placing an “R” before the Check Name and pressing enter.

```

Display Filter View Print Options Search Help
-----
SDSF HEALTH CHECKER DISPLAY SOW1                                LINE 59-95 (174)
COMMAND INPUT ==>                                SCROLL ==> CSR
PREFIX=* DEST=(ALL) OWNER=* SYSNAME=

NP  NAME                                           CheckOwner      State           Status
   IXGLOGR_STRUCTUREFULL                          IBMIXGLOGR      ACTIVE (ENABLED)  SUCCES
   JES2 z11_UPGRADE CK JES2                        IBMJES2         ACTIVE (ENABLED)  SUCCES
   NEZ_OPSYS_INSPECTION                            NEWERA         ACTIVE (ENABLED)  EXCEPT
   NEZ_SETR_INSPECTION                             NEWERA         ACTIVE (ENABLED)  SUCCES
   NEZ_SETR_PWD_INSPECTION                         NEWERA         ACTIVE (ENABLED)  SUCCES
   PDSE_SMSPDSE1                                  IBMPDSE        ACTIVE (ENABLED)  EXCEPT
   RACF_AIM_STAGE                                  IBMRACF        ACTIVE (ENABLED)  SUCCES
   RACF_CSFKEYS_ACTIVE                             IBMRACF        ACTIVE (ENABLED)  SUCCES

```

Note that the NEZ\_SETR\_INSPECTION and NEZ\_SETR\_PWD\_INSPECTION Checks are not part of IPLCheck/AI Core

To display the results of the Check, place an “S” to the left of the Check name and press enter. Take note of any Inspection Messages, shown in the body of the report, and examine the content of the Inspection Log Dataset for additional detail, as needed.

### 3.2.1 Sample NEZ\_OPSYS\_INSPECTION Messages

```

Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY NEZ_OPSYS_INSPECTION          LINE 0          COLUMNS 02- 81
COMMAND INPUT ===>                                SCROLL ===> PAGE
*****
CHECK (NEWERA,NEZ_OPSYS_INSPECTION)
START TIME: 08/06/2019 16:10:43.424670
CHECK DATE: 20100302 CHECK SEVERITY: HIGH

INSPECTION SUMMARY Report

Message Text
-----
IFO0795E  SYS1.NUCLEUS HAS INVALID ATTRIBUTES.
IFO0796E  SECONDARY ALLOCATION NOT ALLOWED.
IFO0725N  OBSOLETE PARAMETER APG IGNORED.
IFO0651N  CMB= VALUE WILL BE IGNORED ON A REAL IPL OF A Z990 OR NEWER P
IFO0964W  SMS - MULTIPLE PARAMETERS NOT ALLOWED.
IFO0769N  TCPIP.SEZAMIG NOT FOUND ON VOLUME VTMVSC.
IFO2100N  *INTEGRITY* APF DATASETS SHOULD NOT BE DEFINED IF THEY DO NOT
IFO0768N  MASTCAT.DSN410.SDSNLINK BYPASSED; VOLUME VTD41A NOT MOUNTED.
IFO0768N  DSN410.SDXRRESL BYPASSED; VOLUME VTD41A NOT MOUNTED.
IFO0786W  UNCLOSED COMMENT DETECTED.
IFO0987W  MEMBER DATA AFTER LOGICAL END OF FILE.
IFO0413N  IQI580.SIQILPA/VTIQIA IS A DUPLICATE LPALST ENTRY.
IFO0608W  SYSLBC IGNORED AS OF Z/OS V1R3; USE IKJTSOXX.

* High Severity Exception *

NEZH051E The NEZ_OPSYS_INSPECTION check has found one or
more potential errors in IPL integrity of this system.

Explanation: The Image Focus inspection has found one or more
potential errors with the IPL and System startup of this system.

System Action: The check continues processing. There is no effect on
the system at this time.

Operator Response: Report this item to the System Programmer.

System Programmer Response: Examine the related Image Focus
inspection report.

Problem Determination: Examine the related Image Focus messages
manual and any related IBM manuals.

Source: Image Focus Messages

Reference Documentation:
Image Focus Messages
z/OS MVS Initialization and Tuning Reference

Automation: None.

Check Reason: VERIFY IPL INTEGRITY

END TIME: 08/06/2019 16:11:23.565706 STATUS: EXCEPTION-HIGH

```

## 3.2.2 Sample NEZ\_JES2\_INSPECTION Messages

```

Display  Filter  View  Print  Options  Help
-----
SDSF OUTPUT DISPLAY NEZ_OPSYS_INSPECTION          LINE 0          COLUMNS 02- 81
COMMAND INPUT ==>                                SCROLL ==> PAGE
***** TOP OF DATA *****
CHECK(NEWERA,NEZ_JES2_INSPECTION)
START TIME: 09/28/2019 10:09:46.195957
CHECK DATE: 20110926  CHECK SEVERITY: HIGH

INSPECTION SUMMARY Report

Message  Text
-----
JES0168W OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 84, COLUMN 10. REPLACE
JES0153W LINE 00082: I(6)          NAME=6,
JES0153W LINE 00083:              CLASS=BA,
JES0152W WARNING AT:  ---+---*---+---2---+---3---+---4---+---5
JES0168W OBSOLETE KEYWORD 'RDINUM' FOUND AT LINE 129, COLUMN 10. DELETE
JES0153W LINE 00126: INTRDR      AUTH=(JOB=YES,DEVICE=YES,SYSTEM=YES),
JES0153W LINE 00127:              CLASS=A,
JES0153W LINE 00128:              HOLD=NO,
JES0152W WARNING AT:  ---+---*---+---2---+---3---+---4---+---5
JES0153W LINE 00129:              RDINUM=20
JES0168W OBSOLETE KEYWORD 'TGBPERVL' FOUND AT LINE 546, COLUMN 10.
JES0153W LINE 00542: SPOOLDEF    BUFSIZE=3992,
JES0153W LINE 00543:              DSNAME=SYS1.HASPACE,
JES0153W LINE 00544:              FENCE=NO,
JES0153W LINE 00545:              LARGEDS=ALLOWED,
JES0152W WARNING AT:  ---+---*---+---2---+---3---+---4---+---5
JES0153W LINE 00546:              TGBPERVL=5,

* High Severity Exception *

NEZH051E The NEZ_ALT_JES2_INSPECTION check has found one or
more potential errors in IPL integrity on this system.

Explanation:  The Image Focus inspection has found one or more
potential errors with the IPL and System startup of this system.

System Action:  The check continues processing. There is no effect on
the system at this time.

Operator Response:  Report this item to the System Programmer.

System Programmer Response:  Examine the related Image Focus
inspection report.

Problem Determination:  Examine the related Image Focus messages
manual and any related IBM manuals.

Source:  Image Focus Messages

Reference Documentation:
Image Focus Messages
z/OS MVS Initialization and Tuning Reference

Automation:  None.

Check Reason:  VERIFY IPL INTEGRITY

END TIME: 09/28/2019 10:09:46.201961  STATUS: EXCEPTION-HIGH

```

### 3.2.3 The Inspection Trace/Log Dataset

To access the Inspection Log Dataset, use TSO/ISPF option 3.4.

```
Menu  Options  View  Utilities  Compilers  Help
-----
DSLIST - Data Sets Matching IFO.H*                               Row 1 of 14
Command ==>                                                    Scroll ==> PAGE

Command - Enter "/" to select action                            Message                               Volume
-----
hlq.llq.INSTLIB                                                VPWRKI
hlq.llq.IPLCHECK.system_name.LOG                               VPWRKI
hlq.llq.IPLALT.system_name.LOG                                 VPWRKI
hlq.llq.LOAD                                                    VPWRKI
hlq.llq.PARMLIB                                                VPWRKI
hlq.llq.SISPCLIB                                               VPWRKI
hlq.llq.SISPMENU                                               VPWRKI
hlq.llq.SISPPENU                                               VPWRKI
***** End of Data Set list *****
```



## 4.1 Viewer Primary Menu

The Viewer provides access to the Report Library and a centralized interactive focal point from which the state of all LPARs, Production or Alternate, their Inspection and Check status, can be reviewed simultaneously. Inspections and Checks are fully updatable on demand using panel commands.

The remainder of this section contains sample Viewer Panels, Worksheets and Reports. As needed, use PFK1 for panel explanation and other specific assistance.

### 4.1.1 Production Systems

When IPLCheck/AI-Core is selected, a listing of all Production Systems is displayed.

```

      ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 13 of 13
      -----Results-----
      ----- IPLCheck/AI Results Viewer - 13 Production Images Monitored -----
      Row Selection: Show IPLCheck Report Libraries Update the Image FOCUS Inspection
      --- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
      - Line -System- Inspect -----Initialization Values----- -Last Checked-

S Numb --Name-- Rsl Msg Unit LoadParm HardWare LparName VmUserId yy/mm/dd hh:mm
- 0001 $NEZA   WAR 063 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 17/09/21 01:00
- 0002 $NEZB   WAR 063 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 17/09/21 02:00
- 0003 $NEZC   WAR 063 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 17/09/21 03:00
- 0004 $NEZD   WAR 061 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 17/09/21 19:05
- 0005 $NEZE   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 17/09/21 12:20
- 0006 $NEZ2   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 17/09/21 14:52
- 0007 $NEZ3   WAR 299 C3A1 B7002T.1 OHPF5805 TSYS   --NONE-- 19/09/21 04:00
- 0008 $NEZ4   ERR 265 1000 0CE3W1.1 VM-TOKEN --NONE-- ETPGMQC 19/09/21 05:00
- 0009 $NEZ5   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 19/09/21 12:45
- 0010 $NEZ6   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 19/09/21 13:15
- 0011 $NEZ7   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 19/09/21 13:18
- 0012 $NEZ8   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 19/09/21 13:30
- 0013 $NEZ9   WAR 243 1000 0CE3W1M1 VM-TOKEN --NONE-- ETPGM7Q 19/09/21 14:49

Option ==>                                     Scroll ==> PAGE

```

### 4.1.2 Alternate Systems

When IPLCheck/AI-Alt is selected, a listing of all Alternate Systems is displayed.

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 14
-----Results-----
----- IPLCheck Results Viewer - 14 Alternate Images Monitored -----
Row Selection: Show IPLCheck Report Libraries Update the Image FOCUS Inspection
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Initialization Values----- -Last Checked-
_ 0001 $NEZA    WAR 063 1000 0CE3W1M1 VM-TOKEN --NONE--  ETPGM7Q 00/00/00 00:00

```

### 4.1.3 Show IPLCheck/AI Report Libraries

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 14
-----Results-----
----- IPLCheck Results Viewer - 14 Alternate Images Monitored -----
Row Selection: S Show IPLCheck Report Libraries Update the Image FOCUS Inspection
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Initialization Values----- -Last Checked-
S 0001 $NEZA    WAR 063 1000 0CE3W1M1 VM-TOKEN --NONE--  ETPGM7Q 00/00/00 00:00

```

To display a Report Library, place an “S” on the command line preceding the target system and press enter. Note that the name of the system selected will be carried forward into the panels and worksheets that follow.

### 4.1.4 Update the Image FOCUS Inspection

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 14
-----Results-----
----- IPLCheck Results Viewer - 14 Alternate Images Monitored -----
Row Selection: Show IPLCheck Report Libraries U Update the Image FOCUS Inspection
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Initialization Values----- -Last Checked-
U 0001 $NEZA    WAR 063 1000 0CE3W1M1 VM-TOKEN --NONE--  ETPGM7Q 00/00/00 00:00

```

IPLCheck/AI Image Inspections are run under the control of the Health Checker Framework. However, if an inspection appears to be out of date, it can be re-run by placing a “U” on the command line preceding the target system and pressing enter. The resulting Inspection Log will overwrite the previous Log Dataset. All Report Library entries associated with the target system are updated as the Inspection process completes.

#### 4.1.4.1 Update the Image Inspection

```

-----ICE 19.0----- VUE 14 - IPLCheck/AI Core - Inspection Results -----Results-----
----- ICE Results Viewer - 4 Alternate Systems Monitored -----
Row Selection: Show the Report Libraries Update the Image Inspection XAnalytics
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Initialization Values----- -Last Checked-

S Numb --Name-- Rsl Msg Unit LoadParm HardWare LparName VMUserId yy/mm/dd hh:mm
- 0001 NEZ1 NOT 052 1001 0CE3W1M1 VM-TOKEN NEZ1 ETPGM7Q 15/01/27 08:54
- 0002 SOW2 AOK 048 1002 0CE3W2M1 VM-TOKEN SOW2 ETPGM7Q 15/01/28 10:04
- 0003 SOW3 AOK 072 1003 0CE3W3M1 VM-TOKEN SOW3 ETPGM7Q 15/01/29 11:03
- 0004 SOW4 AOK 012 1004 0CE3W4M1 VM-TOKEN SOW4 ETPGM7Q 15/01/29 12:05
***** Bottom of data *****

      |-----|
      | OPSYS *PROCESSING* |
      |-----|
      Performing Image Inspection

Option ==> Scroll ==> PAGE

```

#### 4.1.4.2 Updated Image Inspection Report

```

Menu Utilities Compilers Help
-----
BROWSE PROBI1.IFOQUICK.INSPECT Line 00000000 Col 001 080
***** Top of Data *****
IFO1000I REPORT IS IPLCHECK/AI VIEWER UPDATE DATE: 2024/09/29 TIME: 08:59:28.
IFO0765I LICENSED TO NEWERA/STANDARD/IFO (SITE EDITION).
IFO0741I INSPECTION=Y; STORE PACKAGE=N; RELEASE=.
IFO0727I Image Focus 19.0
|
IFO0900I IPL REQUESTED FROM UNIT 0A80.
IFO0922I SUPPLIED LOADPARM IS 0A82XAM1.
IFO0901I LOADPARM IODF UNIT=0A82 SPECIFIED.
IFO0901I LOADPARM LOADXA SPECIFIED.
IFO0901I LOADPARM IMSI=M SPECIFIED.
IFO0901I LOADPARM IEANUC01 SPECIFIED.
IFO0712I HWNAME --NONE-- SPECIFIED.
IFO0712I LPARNAME --NONE-- SPECIFIED.
IFO0712I VMUSERID ZOSNE1 SPECIFIED.
|
IFO0905I IPL UNIT 0A80 IS VOLUME ZDRES1.
IFO0905I IODF UNIT 0A82 IS VOLUME ZDSYS1.
IFO0611I IPL UNIT ADDRESS: RUNNING SYSTEM=0A80; TARGET SYSTEM=0A80.
IFO0611I IODF UNIT ADDRESS: RUNNING SYSTEM=0A82; TARGET SYSTEM=0A82.
Command ==> Scroll ==> PAGE

```

## 4.1.5 IPLCore/AI – XAnalytics

### 4.1.5.1 Cross System Image Analytics

The Cross System Analytics Worksheet is useful when comparing the inspection results of one image against all others defined to IPLCheck/AI. To reveal the Name and its LoadParm, cursor under its Relative Image Position and Press Enter. For more inspection detail, select and element using the “S” Row Command.

```

VUE 14 - IPLCheck/AI Core - Image Analytics Row 1 to 15 of 57
--NSIMVUE 0924--          ---Cross Image---
----- Cross System Image Analytics - 57 Unique Elements -----
Row Selection: Show_Inspection_Detail_Across_All_Systems
- Row -----Inspected System Elements----- --- ----Relative Image Position----

S Num VolSer -----Datasets----- Member Sx Dif 001 002 003 004 005 006 007 008
_ 001 ----- non_specific IPLPRM -- <=> Aok War Aok Aok --- --- --- ---
_ 002 ZDSYS1 SYS1.IPLPARM NUCNST 00 Aok Aok Aok Aok --- --- --- ---
_ 003 ZDRES1 SYS1.NUCLEUS IEANUC 01 Aok Aok Aok Aok --- --- --- ---
_ 004 ZDRES1 SYS1.NUCLEUS IEANUC 21 Aok Aok Aok Aok --- --- --- ---
_ 005 ----- non_specific SCATDS -- Aok Aok Aok Aok --- --- --- ---
_ 006 ----- non_specific IODFDS -- <=> Aok War Aok Aok --- --- --- ---
_ 007 ----- non_specific PARMDS -- <=> Aok War Aok Aok --- --- --- ---
_ 008 ZDSYS1 USER.PARMLIB IEASYS XA Aok --- --- --- --- --- ---
_ 009 ZDRES1 ADCD.Z113.PARMLIB IEASYS 00 Not Not Not Not --- --- --- ---
_ 010 ZDSYS1 USER.PARMLIB IEASYS WS Not Not Not Not --- --- --- ---
_ 011 ZDSYS1 USER.PARMLIB IEASYS XA Aok --- --- --- --- --- ---
_ 012 ZDRES1 ADCD.Z113.PARMLIB IEASVC 00 Aok Aok Aok Aok --- --- --- ---
_ 013 ZDSYS1 USER.PARMLIB PROG 01 <=> Aok War Aok Aok --- --- --- ---
_ 014 ZDRES1 ADCD.Z113.PARMLIB IEAFIX 00 Aok Aok Aok Aok --- --- --- ---
_ 015 ZDSYS1 USER.PARMLIB IEALPA 00 Aok Aok Aok Aok --- --- --- ---

Option ==> Scroll ==> CSR

```

### 4.1.5.2 Element Analytic Inspection Detail and Comparison

The Inspection Detail Worksheet shows a comparison of Inspection Results for the selected Image Element for all defined Images. To review Inspection findings related to an Element by Image/System, use the “V” Row Command.

```

VUE 14 - ICE Viewer - Cross Image Inspection Row 1 to 4 of 4
--NSIMVUE 0924--          ---Cross Image---
----- 4 Images - Element Volser:ZDSYS1 Dsn(Mbr):USER.PARMLIB (PROG01) -----
Row Selection: Show_the_Message_Filter View_the_Element_Inspection_Findings
- Row -----Images Inspected----- -----Image Element Findings-----

S Num -System- Unit LoadParm --Date-- Aok Err War Not TsoUser -Update- hh:mm:ss
_ 001 ADCD113_ 0A80 0A82XA.1 15/09/04 Aok PHARL2_ 15/06/25 20:23:22
_ 002 BDCD113_ 0A80 0A82XB.1 15/07/30 War PHARL2_ 15/06/25 20:23:22
_ 003 CDCD113_ 0A80 0A82XC.1 15/12/13 Aok ADCDMST 15/07/05 10:42:13
_ 004 DDCD113_ 0A80 0A82XD.1 15/12/12 Aok ADCDMST 15/07/05 10:42:13
***** Bottom of data *****

Option ==> Scroll ==> CSR

```

### 4.1.5.3 View Element Inspection Detail

The View provided is of the full set of Inspection Log Records created for the selected Element by Image/System. These records may be sorted and filtered. To filter for Inspection Errors, enter 'ERR' above 'Rsl Column' and press enter. Only Error records will be displayed.

```

VUE 19.0 - Image Inspection - Message Filte Row 1 to 14 of 330
--NSIMVUE 0924--                               --Messge Detail--
----- ICE Inspection Viewer - 330 Filter Records - Sysplex:IMAGE/BDCD113 -----
Row Selection: Full_Image_Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Count --Results-- -----Inspection Log Records-----

S -Rec- --Key-- Rsl -----
- 00001 IFO0935 AOK SEARCHING FOR PROG01 MEMBER.
- 00002 IFO0940 AOK  PROG01 FOUND IN PARMLIB(0) VOL=ZDSYS1;DSN=USER.PARMLIB.
- 00003 IFO0675 AOK  PROG01 LAST CHANGED DATE=2019/09/29 TIME=20:23:22 USER=PHA
- 00004 IFO0923 AOK  PROG01 MEMBER CONTENTS ARE AS FOLLOWS:
- 00005 -----  --- |-----+-----1-----+-----2-----+-----3-----TOP OF MEMBER---5-----+-----
- 00006 -----  --- |APF FORMAT (DYNAMIC)
- 00007 -----  --- |APF ADD
- 00008 -----  --- |      DSNAMES (SYS1.SHASLNKE)                                V
- 00009 -----  --- |APF ADD
- 00010 -----  --- |      DSNAMES (SYS1.SIEAMIGE)                                V
- 00011 -----  --- |APF ADD
- 00012 -----  --- |      DSNAMES (SYS1.MIGLIB)                                V
- 00013 -----  --- |APF ADD
- 00014 -----  --- |      DSNAMES (SYS1.SERBLINK)                                V

Option ==>                               Scroll ==> CSR

```

### 4.1.6 z/OS Inspection

The inspection of a targeted LPAR begins with the automatic discovery of the IPL Unit Address and LOADPARM. This information is passed to the Image FOCUS Inspection Server, which in turn validates it and begins the z/OS LPAR Inspection process. The Results of this “Virtual IPL” are found in the z/OS Inspection Report and are displayed and accessed via the interface panel shown below by placing the cursor under the “White Report Labels” and pressing enter.

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
$NEZ3
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
_ 0007 $NEZ3 WAR 299 MSGsum ZOSprM IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****
Option ==> Scroll ==> PAGE

```

In addition to these specific z/OS Inspection Reports, Sub-System and Dynamic Change Reports are optionally available. To access these optional reports, place an “S” or a “D” on the command line immediately preceding a named row and then press enter to display the associated report selection list.

The underlying Full Inspection Log, that contains the source data for all of the z/OS Inspection Reports, is displayed when you place “F” on the command line immediately preceding a named row and press enter.

## 4.1.7 z/OS Inspection Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
$NEZ3
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
_ 0007 $NEZ3 WAR 299 MSGsum ZOSprml IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****
Option ==> Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 14 of 115
---Inspections---
----- Configuration Worksheet - 115 Image Inspection Domains -----
Row Selection: Show Inspection Get Member History Compare Prior Report Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -Inspections- ---Last Update--- -----Source ParmLib-----
S Num Rsl Domain Sx --User-- --Date-- -----Dataset Names----- Volume
_ 001 WAR START -- ----- --/--/-- -----non_specific-----
_ 002 AOK NUCLST SV IBMUSER 19/08/12 SYS1.IPLPARM VPMVSB
_ 003 AOK IEANUC 01 ----- --/--/-- SYS1.NUCLEUS VIMVSB
_ 004 WAR IEANUC 21 ----- --/--/-- SYS1.NUCLEUS VIMVSB
_ 005 AOK IEASYM W1 RAMON 19/01/21 LVL0.PARMLIB VTLVL0
_ 006 AOK IEASYM SV RALEY 16/10/09 SVTSC.PARMLIB VTMVSG
_ 007 AOK IEASYM VN RALEY 18/10/09 VENDOR.PARMLIB VPMVSD
_ 008 AOK IEASYS 00 TODD 17/07/15 LVL0.PARMLIB VTLVL0
_ 009 NOT IEASYS LV PHARL2 17/09/09 VENDOR.PARMLIB VPMVSD
_ 010 AOK IEASYS SV DPACK 18/12/03 SVTSC.PARMLIB VTMVSG
_ 011 WAR IEASYS VN IBMUSER 18/11/26 VENDOR.PARMLIB VPMVSD
_ 012 AOK IEASVC I1 DPACK 17/01/07 SVTSC.PARMLIB VTMVSG
_ 013 AOK IEASVC 66 FLEMING 17/07/17 SVTSC.PARMLIB VTMVSG
_ 014 NOT PROG 00 PKRUTZA 18/12/08 LVL0.PARMLIB VTLVL0
Option ==> Scroll ==> PAGE

```

## 4.1.8 z/OS Inspection Trace/Log

```

      ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
      -----Results-----
      ----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
      Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
      --- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
      - Line -System- Inspect -----Report Selection-----
      $NEZ3
      S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
      F 0007 $NEZ3 WAR 299 MSGsum ZOSprml IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
      ***** Bottom of data *****

      Option ==>                               Scroll ==> PAGE
  
```

```

|
| IFO0998I SYS1.SVCLIB FOUND ON VOLUME VIMVSB.
| IFO0757I 1 DASD EXTENTS.
| IFO0938I ALLOCATING SVCLIB DATASETS.
| IFO0138I ALLOCATING SYS1.SVCLIB; VOL=VIMVSB.
| IFO0151I ALLOCATED TO SYS08236.
|
| IFO0998I SYS1.NUCLEUS FOUND ON VOLUME VIMVSB.
| IFO0757I 1 DASD EXTENTS.
| IFO0795E SYS1.NUCLEUS HAS INVALID ATTRIBUTES.
| IFO0796E SECONDARY ALLOCATION NOT ALLOWED.
| IFO0938I ALLOCATING NUCLEUS DATASETS.
| IFO0138I ALLOCATING SYS1.NUCLEUS; VOL=VIMVSB.
| IFO0151I ALLOCATED TO SYS08237.
|
| IFO0929I INSPECTING IPL TEXT.
| IFO0921I IPL TEXT FOUND IS IEAIPL0010/31/06 HBB7740.
|
| IFO0935I SEARCHING FOR LOADW1 MEMBER.
| IFO0906I SYS1.IPLPARM WAS FOUND ON VOLUME VPMVSB.
| IFO0998I SYS1.IPLPARM FOUND ON VOLUME VPMVSB.
| IFO0757I 1 DASD EXTENTS.
| IFO0138I ALLOCATING SYS1.IPLPARM; VOL=VPMVSB.
| IFO0151I ALLOCATED TO SYS08238.
| IFO0940I LOADW1 FOUND IN IPLPARM(0) VOL=VPMVSB;DSN=SYS1.IPLPARM.
| IFO0675I LOADW1 LAST CHANGED DATE=2019/01/28 TIME=12:44:30 USER=RAMON.
| IFO0923I LOADW1 MEMBER CONTENTS ARE AS FOLLOWS:
|-----1-----2-----3---TOP OF MEMBER---5-----6-----7-----
|*-----1-----2-----3-----4-----5
| IEASYM (W1,SV,VN)
| INITSQA 0000K 0512K
| IODF 00 SYS1 MVS 00 Y
| NUCLEUS 1
| NUCLST SV N
| SYSCAT VPMVSB113CMASSTERV.CATALOG CATALOG
| SYSPARM (00,LV,SV,VN)
| SYSPLEX SVSCPLEX
| PARMLIB VENDOR.PARMLIB
| PARMLIB SVTSC.PARMLIB
| PARMLIB LVL0.PARMLIB
| PARMLIB SYS1.PARMLIB
|-----1-----2-----3-BOTTOM OF MEMBER--5-----6-----7-----
  
```

### 4.1.9 Message Summary

Inspection results are reported using unique Image FOCUS IFO message numbers. Each number has an associated suffix as its last position. A suffix of “I” indicates an information message related to the discovery and processing of a component, “E” indicates a potential configuration *ERROR* has been detected, “W” is a *WARNING* that indicates that a resource may be incorrectly configured, “N” provides *NOTICE* of findings that may impact system integrity, duplication, obsolescence or system capacity limitations.

The Message Summary extracts ERROR, WARNING and NOTICE messages from the full report and presents them in summary format.

### 4.1.10 Message Summary Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
  NEZ1
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
_ 0014 NEZ1     WAR 243 MSGsum ZOSprn IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

```

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 15 of 243
-----Messages Summary-----
--- IPLCheck/AI Results Viewer - 243 Conditional z/OS Messages - System:NEZ1 ---
Row Selection: Show Image Inspection Details Compare with Prior Report Baseline
- Rec --Inspection Result-- - -----Inspection Message Text-----
S Num Typ -Rec- --Key-- Rsl F -----Filtered-----
_ 001 ZOS 00029 IFO0691 WAR - SYS1.RACFPRM1 HAS NON-STANDARD ATTRIBUTES.
_ 002 ZOS 00030 IFO0692 WAR - DSORG SHOULD BE PSU; NOT PS.
_ 003 ZOS 00043 IFO0795 WAR < SYS1.NUCLEUS HAS INVALID ATTRIBUTES.
_ 004 ZOS 00044 IFO0796 WAR < SECONDARY ALLOCATION NOT ALLOWED.
_ 005 ZOS 00139 IFO0657 WAR - CURRENT ACCESS=UPDATE; REQUIRED ACCESS=READ.
_ 006 ZOS 00142 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 007 ZOS 00145 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 008 ZOS 00239 IFO0725 NOT - OBSOLETE PARAMETER APG IGNORED.
_ 009 ZOS 00242 IFO0651 NOT - CMB= IGNORED/REAL IPL OF Z990/NEWER CPC.
_ 010 ZOS 00386 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 011 ZOS 00391 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 012 ZOS 00396 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 013 ZOS 00401 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 014 ZOS 00406 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.
_ 015 ZOS 00411 IFO0687 WAR - DATASET NOT PROTECTED BY A PROFILE.

Option ==>
                                           Scroll ==> PAGE

```

### 4.1.11 The Message Summary Report

```

|
|IFO0678I MESSAGE SUMMARY REPORT.
|IFO0426I EFFECTIVE MESSAGE FILTERING TABLE FOLLOWS:
|-----1-----2-----3---TOP OF MEMBER---5-----6-----7-----
|IFO0795E(W)
|IFO0796E(W)
|IFO0909E(W)
|IFO0983E(W)
|-----1-----2-----3-BOTTOM OF MEMBER---5-----6-----7-----
|IFO0795W< SYS1.NUCLEUS HAS INVALID ATTRIBUTES.
|IFO0796W< SECONDARY ALLOCATION NOT ALLOWED.
|IFO0725N OBSOLETE PARAMETER APG IGNORED.
|IFO0651N CMB= VALUE WILL BE IGNORED ON A REAL IPL OF A Z990 OR NEWER PROCESSOR
|IFO0964W SMS - MULTIPLE PARAMETERS NOT ALLOWED.
|IFO0909W<ERROR IN ABOVE STATEMENT AT OR NEAR COLUMN 1.
|IFO0769N TCPIP.SEZAMIG NOT FOUND ON VOLUME VTMVSC.
|IFO2100N *INTEGRITY* APF DATASETS SHOULD NOT BE DEFINED IF THEY DO NOT EXIST.
|IFO0768N SYS1.SIATLPA BYPASSED; VOLUME VTMVAB NOT MOUNTED.
|IFO0768N SYS1.VTAMLIB BYPASSED; VOLUME VTMVAB NOT MOUNTED.
|IFO0768N SYS1.CSSLIB BYPASSED; VOLUME VTMVSH NOT MOUNTED.
|IFO0768N SYS1.CSSLIB BYPASSED; VOLUME VTMVSH NOT MOUNTED.
|IFO0749W SYS1.SIEALNKE IGNORED; NOT ALLOWED.
|IFO0749W SYS1.SIEAMIGE IGNORED; NOT ALLOWED.
|IFO0632N APF ENTRY FOR SYS1.LINKLIB ON VOLUME VIMVSB IGNORED; ALREADY ADDED BY
|IFO0786W UNCLOSED COMMENT DETECTED.
|IFO0786W UNCLOSED COMMENT DETECTED.
|IFO0987W MEMBER DATA AFTER LOGICAL END OF FILE.
|IFO0615W UNBALANCED COMMENTS DETECTED.
|IFO0413N SYS1.SBDTLPA/VTMVSC IS A DUPLICATE LPALST ENTRY.
|IFO0983W<JCL ERROR IN PROCEDURE TCPPT.
|IFO0983W<JCL ERROR IN PROCEDURE PRRTST.
|IFO0615W UNBALANCED COMMENTS DETECTED.
|IFO0746I JES2 PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I HCKR PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I RESOLVER PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I TCPIP PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I TELNET PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I CICS PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I CICS PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I LOAD PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I MBRS PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I CSDS PROCESS COMPLETED SUCCESSFULLY.
|IFO0746I CUST1 PROCESS COMPLETED SUCCESSFULLY.
|

```

In addition, the message summary also provides a recap of site defined Message Management actions. If such actions are defined in NSEMSG00, the full member is presented at the top of the Message Summary. Messages impacted by the changes defined are further highlighted in the report by the use of the following action characters ">", "<" and "=" . When ">" is used, it denotes that the message severity has been increased, "<" indicates the severity has been reduced, and "=" denotes the severity remains unchanged but was flagged to indicate the desire to have the message presented in the message summary.

### 4.1.12 System Datasets

During the inspection process, as the Inspection Server traverses the IPL Path, it identifies all System Datasets and gathers their related statistics. The System Dataset Report summarizes the dataset by Dataset Class SYSTEM, LPALST, LNKLST, FLPA, MLPA and PROCLIB.

### 4.1.13 System Dataset Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
      NEZ1
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
_ 0014 NEZ1    WAR 243 MSGsum ZOSprn IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

```

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 193
-----System Datasets-----
----- Configuration Worksheet - 193 Discovered System Datasets - NEZ1 -----
Row Selection: Show the Full Dataset Report Compare with Prior Dataset Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -----System Datasets----- -----Usages----- -ESM-
S Num Cls Org -----Name----- Volume SMS Type Trk Dir Mbrs -Acs-
_ 001 SYS PS SYS1.RACFPRM1 VPMVSH NO SEQ 084 --- ---- READ
_ 002 SYS PO SYS1.SVCLIB VIMVSB NO PDS 033 033 0000 READ
_ 003 SYS PO SYS1.NUCLEUS VIMVSB NO PDS 071 071 0005 READ
_ 004 SYS PO SYS1.IPLPARM VPMVSB NO PDS 050 050 0000 READ
_ 005 SYS AM SYS1.IODF00 VPMVSB NO VSAM --- ---- READ
_ 006 SYS PO VENDOR.PARMLIB VPMVSD NO PDS 018 018 0000 UPDAT
_ 007 SYS PO SVTSC.PARMLIB VTMVSG NO PDS 028 028 0000 -----
_ 008 SYS PO LVL0.PARMLIB VTLVL0 NO PDS 052 052 0001 -----
_ 009 SYS PO SYS1.PARMLIB VIMVSB NO PDS 002 002 0000 READ
_ 010 SYS PSU SYS1.NEZ1.LOGREC VPMVSB NO SEQ 100 --- ---- READ
_ 011 SYS AM PAGE.NEZ1.PLPA.DATA VPPAGA NO VSAM --- ---- -----
_ 012 SYS AM PAGE.NEZ1.COMMON1.DATA VPPAGI NO VSAM --- ---- -----
_ 013 SYS AM PAGE.NEZ1.LOCALA.DATA VPPAGA NO VSAM --- ---- -----
_ 014 SYS AM PAGE.NEZ1.LOCALB.DATA VPPAGB NO VSAM --- ---- -----

Option ==> Scroll ==> PAGE

```

## 4.1.14 The Dataset Report

```
|
| IFO0797I DATASET REPORT.
|
| IFO0798I SYSTEM DATASETS.
|
| SYS1.SVCLIB                                VOL=VIMVSB SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000000003 SEC=000000015 USED=000000001 %USED=033
| DSORG=PO RECFM=U LRECL=00000 BLKZ=06144 DIR:TOT=000003 USED=000001 %USED=033
| MEMBERS=000004
|
| SYS1.NUCLEUS                                VOL=VIMVSB SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000000675 SEC=000000005 USED=000000661 %USED=097
| DSORG=PO RECFM=U LRECL=00000 BLKZ=06144 DIR:TOT=000140 USED=000099 %USED=070
| MEMBERS=000581
|
| SYS1.IPLPARM                                VOL=VPMVSB SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000000015 SEC=000000001 USED=000000002 %USED=013
| DSORG=PO RECFM=FB LRECL=00080 BLKZ=08000 DIR:TOT=000010 USED=000004 %USED=040
| MEMBERS=000023
|
| IFO0798I LPALST DATASETS.
|
| VENDOR.LPALIB                               VOL=VPMVSD SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000000150 SEC=000000001 USED=000000002 %USED=001
| DSORG=PO RECFM=U LRECL=00000 BLKZ=23200 DIR:TOT=000050 USED=000001 %USED=002
| MEMBERS=000000
|
| SVTSC.LPALIB                                VOL=VTMVSG SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000000002 SEC=000000001 USED=000000001 %USED=050
| DSORG=PO RECFM=U LRECL=00000 BLKZ=23200 DIR:TOT=000005 USED=000001 %USED=020
| MEMBERS=000001
|
| IFO0798I LNKLST DATASETS.
|
| VENDOR.LINKLIB                               VOL=VPMVSD SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000000300 SEC=000000001 USED=000000002 %USED=000
| DSORG=PO RECFM=U LRECL=00000 BLKZ=23200 DIR:TOT=000060 USED=000001 %USED=001
| MEMBERS=000000
|
| SYS1.MIGLIB                                  VOL=VTMVSC SMS=NO TYPE=PDS
| EXTENTS=001 TRKS: PRI=000001500 SEC=000000015 USED=000001015 %USED=067
| DSORG=PO RECFM=U LRECL=00000 BLKZ=06144 DIR:TOT=000400 USED=000305 %USED=076
| MEMBERS=001811
```

## 4.2 System Volume

During the inspection process, as the Inspection Server traverses the IPL Path, it identifies all System Volumes and gathers their related statistics. The DASD Volume Report contains entries for each volume discovered.

### 4.2.1 The System Volume Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
      NEZ1
S Num  --Name--  Rsl  Msg  -(01)-  -(02)-  -(03)-  -(04)-  -(05)-  -(06)-  -(07)-  -(08)-
_0014  NEZ1      WAR  243  MSGsum  ZOSprm  IEAsys  APFdsn  PPTble  SYSsds  SYSvol  HLTchk
***** Bottom of data *****

```

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 69
-----System Volume-----
----- Configuration Worksheet - 69 Discovered System Volumes - NEZ1 -----
Row Selection: Show the System Volume Report Compare with Prior Report Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec  -----Volumes----- -Mgmts-  ---Used---  ----Free Space-----  ----Index-----
S Num  Serial  Unit  -Types-  EAV  SMS  Tks  Vtc  Cyl  -Cyldr-  -Track-  Ext  NDX  Act  Frags
_001  VDAPSD  183F  3390  NO  NO  031  N/A  007  0000408  0006120  061  YES  YES  00000
_002  VDAUTG  1805  3390  NO  NO  074  N/A  006  0000167  0002505  025  YES  YES  00007
_003  VDCTGE  182E  3390  NO  NO  090  N/A  006  0000054  0000814  008  YES  YES  00000
_004  VDDFHC  0BEE  3390  NO  NO  077  N/A  016  0000416  0006240  082  YES  YES  00071
_005  VDDFHD  182A  3390  NO  NO  048  N/A  018  0001016  0015240  230  YES  YES  00098
_006  VDFEKA  1837  3390  NO  NO  034  N/A  003  0000326  0004900  049  YES  YES  00000
_007  VDIELI  1829  3390  NO  NO  079  N/A  003  0000030  0000460  010  YES  YES  00183
_008  VDIGYF  03C3  3390  NO  NO  080  N/A  003  0000018  0000270  002  YES  YES  00070
_009  VDNETE  1803  3390  NO  NO  096  N/A  006  0000022  0000330  003  YES  YES  00033
_010  VDPORE  184D  3390  NO  NO  092  N/A  004  0000043  0000655  006  YES  YES  00000
_011  VIMVSB  1000  3390  NO  NO  081  N/A  001  0000045  0000675  015  YES  YES  00236
_012  VPDFHC  0BF0  3390  NO  NO  025  N/A  008  0000370  0005557  055  YES  YES  00000
_013  VPDFHD  182C  3390  NO  NO  017  N/A  007  0000373  0005603  074  YES  YES  00070
_014  VPD81B  0D44  3390  NO  NO  092  N/A  005  0000022  0000330  012  YES  YES  00401

Option ==>                               Scroll ==> PAGE

```

## 4.2.2 The System Volume Report

```
|
|IFO0633I DASD VOLUME REPORT.
|
|VDAPSC
UNIT=039E TYPE=3390 EAV=NO SMS=NO DSCBS/TRK=0000050 TRKS/CYL=0000015
TOTAL: VOLUME TRKS=000007500 VTOC TRKS=000000015 DSCBS=000000750
USED : VOLUME TRKS=000003149 VTOC TRKS=N/A DSCBS=000000056
%USED: VOLUME TRKS=041 VTOC TRKS=N/A DSCBS=007
FREE SPACE :CYLS=0000289 TRKS=000000016 TOT TRKS=000004351 EXTENTS=0000004
LARGEST FREE:CYLS=0000289 TRKS=000000000 TOT TRKS=000004335
INDEXED VTOC=YES,ACTIVE FRAGMENTATION INDEX=0000003
|
|VDAUTE
UNIT=0BE8 TYPE=3390 EAV=NO SMS=NO DSCBS/TRK=0000050 TRKS/CYL=0000015
TOTAL: VOLUME TRKS=000009750 VTOC TRKS=000000015 DSCBS=000000750
USED : VOLUME TRKS=000007085 VTOC TRKS=N/A DSCBS=000000053
%USED: VOLUME TRKS=072 VTOC TRKS=N/A DSCBS=007
FREE SPACE :CYLS=0000177 TRKS=000000010 TOT TRKS=000002665 EXTENTS=0000003
LARGEST FREE:CYLS=0000177 TRKS=000000000 TOT TRKS=000002655
INDEXED VTOC=YES,ACTIVE FRAGMENTATION INDEX=0000004
|
|VDAPSC
UNIT=039E TYPE=3390 EAV=NO SMS=NO DSCBS/TRK=0000050 TRKS/CYL=0000015
TOTAL: VOLUME TRKS=000007500 VTOC TRKS=000000015 DSCBS=000000750
USED : VOLUME TRKS=000003149 VTOC TRKS=N/A DSCBS=000000056
%USED: VOLUME TRKS=041 VTOC TRKS=N/A DSCBS=007
FREE SPACE :CYLS=0000289 TRKS=000000016 TOT TRKS=000004351 EXTENTS=0000004
LARGEST FREE:CYLS=0000289 TRKS=000000000 TOT TRKS=000004335
INDEXED VTOC=YES,ACTIVE FRAGMENTATION INDEX=0000003
|
|VDAUTE
UNIT=0BE8 TYPE=3390 EAV=NO SMS=NO DSCBS/TRK=0000050 TRKS/CYL=0000015
TOTAL: VOLUME TRKS=000009750 VTOC TRKS=000000015 DSCBS=000000750
USED : VOLUME TRKS=000007085 VTOC TRKS=N/A DSCBS=000000053
%USED: VOLUME TRKS=072 VTOC TRKS=N/A DSCBS=007
FREE SPACE :CYLS=0000177 TRKS=000000010 TOT TRKS=000002665 EXTENTS=0000003
LARGEST FREE:CYLS=0000177 TRKS=000000000 TOT TRKS=000002655
INDEXED VTOC=YES,ACTIVE FRAGMENTATION INDEX=0000004
```

### 4.3 IEASYSxx Keywords

During the inspection process, as the Inspection Server traverses the IPL Path, it identifies all prevailing IEASYSxx ParmLib Members and consolidates their content into a final set of IEASYSxx keywords and values. The IEASYSxx Keyword Report provides a listing of all available IEASYSxx keywords noting their final or default value. The source IEASYSxx member that prevailed in the consolidation is noted as is its level in the ParmLib Concatenation.

#### 4.3.1 The IEASYSxx Keyword Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
  NEZ1
- S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
  0014 NEZ1 WAR 243 MSGsum ZOSprml IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 14 of 86
-----IEASYS Keywords-----
----- Configuration Worksheet - 75 IEASYS Keywords -----
Row Selection: Show a Prevailing Member List Compare with Prior Report Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec --Keywords-- -----Director and Parameter----- ---Source---
S Num Typ --Name-- -----Keyword Values----- -Member- Cat
- 001 DIR ALLOC *DEFAULT* -----
- 002 DIR APF *DEFAULT* -----
- 003 DIR AUTOR *NOTUSED* -----
- 004 DIR AXR *DEFAULT* -----
- 005 PRM CEA *DEFAULT* -----
- 006 PRM CEE *DEFAULT* -----
- 007 DIR CLOCK SV IEASYSLV 000
- 008 PRM CLPA *SPECIFIED* -----
- 009 PRM CMB UNITR, COMM, GRAPH, CHRDR IEASYSLV 000
- 010 DIR CMD J2, 00, LV, LW, SV, VN, 61 IEASYSSV 001
- 011 DIR CON 00 IEASYSLV 000
- 012 DIR COUPLE SV IEASYSLV 000
- 013 PRM CSA 4500, 300000 IEASYSSV 001
- 014 PRM CSCBLOC ABOVE IEASYSLV 000

Option ==> Scroll ==> PAGE

```

## 4.3.2 The IEASYSxx Keyword Report

```

|
|FO0619I IEASYSXX KEYWORD REPORT.
|KEYWORD----- OPERAND ----- -MEMBER-  CONCAT
|ALLOC      *DEFAULT*
|APF        *DEFAULT*
|AXR        *DEFAULT*
|CEE        *DEFAULT*
|CLOCK      SV                      IEASYSLV  2
|CLPA       *SPECIFIED*
|CMB        UNITR, COMM, GRAPH, CHRDR  IEASYSLV  2
|CMD        J2, 00, LV, LW, SV, VN, 61  IEASYSVV  1
|CON        00                      IEASYSLV  2
|COUPLE     SV                      IEASYSLV  2
|CSA        4500, 300000              IEASYSVV  1
|CSCBLOC    ABOVE                   IEASYSLV  2
|CVIO       *NOT SPECIFIED*
|DEVSUP     SV                      IEASYSLV  2
|DIAG       *DEFAULT*
|DRMODE     *DEFAULT*
|DUMP       DASD                    IEASYSVN  0
|FIX        00, RF                  IEASYSLV  2
|GRS        TRYJOIN                 IEASYSLV  2
|GRSCNF     00                      IEASYSLV  2
|GRSRNL     SV                      IEASYSLV  2
|HVSHARE    *DEFAULT*
|IKJTSO     *DEFAULT*
|IOS        TC                      IEASYSLV  2
|LFAREA     *DEFAULT*
|LICENSE    *DEFAULT*
|LNK        *DEFAULT*
|LNKAUTH    LNKLST                  IEASYSLV  2
|LOGCLS     C                      IEASYSLV  2
|LOGLMT     008000                  IEASYSLV  2
|LOGREC     SYS1.NEZ1.LOGREC        IEASYSLV  2
|LPA        00, 60, 65, DE, ID, IQ  IEASYSVV  1
|MAXCAD     *DEFAULT*
|MAXUSER    300                    IEASYSLV  2
|MLPA       RF, I5, ID, RX          IEASYSVV  1
|MSTRJCL    SV                      IEASYSLV  2
|NONVIO     *DEFAULT*

```

### 4.3.3 IEASYSxx Summary Report

During the inspection process, as the Inspection Server traverses the IPL Path, it identifies all prevailing IEASYSxx ParmLib Members and consolidates their content into a final set of IEASYSxx keywords and values. Certain IEASYSxx keywords, sometimes called *DIRECTORS*, and their *SUFFIX VALUES*, are identified and used to determine the fully qualified name of the *PREVAILING* ParmLib Members. The results of the Inspection of these configuration members, their location in the ParmLib Concatenation, date and time and user of last change, are detailed in the IEASYSxx Summary.

-MEMBER-	SPEC.BY	NOTICES	WARNINGS	ERRORS	CONCAT	-----	CHANGED	-----	USERID
IFO0609I	IEASYSXX	SUMMARY REPORT.							
IEASVCI9	IEASYSSV				1	2019/10/17	12:26:56		DPACK
IEASVC65	IEASYSSV				1	2019/08/14	16:07:48		FLEMING
PROG00	IEASYSVN	N			2	2019/06/18	08:01:18		RAMON
PROGVN	IEASYSVN	N			0	2019/02/22	10:59:58		PHARL2
PROG52	IEASYSVN	N			2	2019/08/07	11:27:31		TODD
PROG65	IEASYSVN	N			1	2019/08/14	16:19:22		FLEMING
PROGJ3	IEASYSVN				2	2019/08/04	11:46:40		RAMON
PROGAA	IEASYSVN	N			2	2017/11/06	10:16:21		RAMON
PROGDB	IEASYSVN				1	2017/10/25	09:26:17		DPACK
PROGMS	IEASYSVN				1	2019/07/27	15:56:07		IBMUSER
PROGI9	IEASYSVN	N			1	2017/10/17	12:29:07		DPACK
PROGC7	IEASYSVN	N			1	2017/10/17	12:19:30		DPACK
PROGFM	IEASYSVN				1	2017/10/29	10:49:15		IBMUSER
PROGID	IEASYSVN				1	2017/10/29	13:50:07		IBMUSER
PROGWD	IEASYSVN				1	2017/10/31	12:06:00		SVTSCU
PROGSY	IEASYSVN				2	2019/04/04	19:45:45		RALEY
PROGLA	IEASYSVN				2	2017/10/09	22:36:14		RALEY
PROGLB	IEASYSVN		W		2	2019/02/21	15:30:21		PKRUTZA
PROGMC	IEASYSVN				2	2017/12/12	14:57:22		PKRUTZA
PROGMD	IEASYSVN				2	2017/12/13	13:44:53		PKRUTZA
PROGLE	IEASYSVN				2	2017/12/12	14:56:37		PKRUTZA
PROGLF	IEASYSVN				1	2017/10/29	10:48:16		IBMUSER
PROGLI	IEASYSVN				1	2017/10/29	15:54:18		IBMUSER
PROGLG	IEASYSVN				2	2017/12/12	14:57:11		PKRUTZA
PROGLJ	IEASYSVN				2	2019/03/26	18:16:49		PKRUTZA
PROGLM	IEASYSVN				2	2019/12/12	09:33:38		RAMON
PROGLN	IEASYSVN				2	2017/11/06	10:36:45		RAMON
PROGLQ	IEASYSVN				1	2019/08/14	16:15:22		FLEMING
PROGD9	IEASYSVN				1	2017/10/17	12:31:37		DPACK
PROGB7	IEASYSVN				1	2017/10/17	12:19:09		DPACK
PROGGY	IEASYSVN				1	2017/10/23	16:55:25		SVTSCU
PROGIQ	IEASYSVN				1	2017/10/24	13:46:48		SVTSCU
PROGEL	IEASYSVN				1	2017/10/24	14:14:56		IBMUSER
PROGL9	IEASYSVN				2	2019/04/04	19:56:02		RALEY
IEAFIX00	IEASYSLV				2	2019/06/02	11:35:00		WALL
IEAFIXRF	IEASYSLV				2	2019/06/17	15:46:26		PKRUTZA
IEALPARF	IEASYSSV		W		2	2017/12/05	11:24:30		TODD

## 4.4 APF Dataset Authorization

During the inspection process, as the Inspection Server traverses the IPL Path, it identifies all System Datasets. Many, if not all, of these datasets will require APF (Authorized Program Facility) Authorization. Because z/OS is not fully active at the time the APF Table is loaded into memory, it is unable to determine if APF Dataset requests are, in fact, valid. The APF Dataset Authorization Report displays the status of each Dataset request noting VOLUME, EXISTENCE, DUPLICATION and DATASET TYPE. Unlike Image FOCUS, IPLCheck/AI does not report a dataset's access profile.

### 4.4.1 The APF Dataset Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
  NEZ1
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
_0014 NEZ1    WAR 243 MSGsum ZOSprn IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 14 of 156
-----APF Table-----
----- Configuration Worksheet - 156 APF Table Entries -----
Row Selection: Show APF Dataset Member Lists Compare with Prior Report Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -State- -----Authorized Program Facility (APF)----- Dsn --Esm--
S Num Unk Dup -----Dataset Name----- Volume Typ Profile
- 001 UNK --- ANF.SANFLOAD VTMVSC --- -----
- 002 UNK --- AOP.SAOPLOAD VTMVSC --- -----
- 003 UNK --- CEE.SCEERUN VTMVAB --- -----
- 004 --- DUP CEE.SCEERUN VTMVSC LNK -----
- 005 --- DUP CEE.SCEERUN2 VTMVSC LNK -----
- 006 --- --- CSF.SCSFMODE VTMVSC LNK -----
- 007 --- DUP CSQ700.CSQ7.SCSQAUTH VPMQ7A FLP -----
- 008 --- DUP CSQ700.SCSQANLE VTMQ7A FLP -----
- 009 --- DUP CSQ700.SCSQAUTH VTMQ7A FLP -----
- 010 --- DUP CSQ700.SCSQLINK VTMQ7A PLP -----
- 011 --- DUP CSQ700.SCSQMVR1 VTMQ7A FLP -----
- 012 --- DUP CSQ700.SCSQSNLE VTMQ7A PLP -----
- 013 --- --- DFH320.CICS.SDFHAUTH VTDFHC FLP -----
- 014 --- --- DFH320.CICS.SDFHLINK VTDFHC LNK -----

Option ==> Scroll ==> PAGE

```

## 4.4.2 The APF Summary Report

```

|
|FO0693I APF SUMMARY REPORT          (ULPMF: U-USER L-LNKLST P-PLPA M-MLPA F-FLPA)
|---DATASET NAME ----- -VOL-- NODSN DUP ULPMF   -SECURITY
|ADB710.SADBLINK                VTUT8A                U
|ANF.SANFLOAD                    VTMVSC                Y
|AOP.SAOPLOAD                    VTMVSC                Y
|CEE.SCEERUN                     VTMVAB                Y
|CEE.SCEERUN                     VTMVSC                L
|CEE.SCEERUN                     VTMVSF                Y
|CEE.SCEERUN2                   VTMVSI                Y
|CICSTS12.CICS.SDFHAUTH         VTTS2A                Y
|CICSTS12.CICS.SDFHLINK        VTTS2A                Y
|CICSTS12.CICS.SDFHLPA         VTTS2A                Y
|COB2140.COB2CICS.MODLIB       VTCOMA                Y
|CSF.SCSFMODE0                 VTMVSC                L
|CSQ531.SCSQANLE               VTM53A                L
|CSQ531.SCSQAUTH               VTM53A                L
|CSQ531.SCSQLINK               VTM53A                L
|CSQ531.SCSQMVR1               VTM53A                L
|CSQ531.SCSQSNLE               VTM53A                L
|CSQ600.CSQ6.SCSQAUTH          VPMQ6A                U
|CSQ600.SCSQANLE               VTMQ6A                U
|CSQ600.SCSQAUTH               VTMQ6A                U
|CSQ600.SCSQLINK               VTMQ6A                P
|CSQ600.SCSQMVR1               VTMQ6A                U
|CSQ600.SCSQSNLE               VTMQ6A                U
|DFH320.CICS.SDFHAUTH          VTDFHC                U
|DFH320.CICS.SDFHLINK          VTDFHC                L
|DFH320.CICS.SDFHLOAD          VTDFHC                U
|DFH320.CICS.SDFHLPA          VTDFHC                P
|DFH320.CICS.SDFJAUTH          VTDFHC                U
|DFH320.CICS.SEYUAUTH          VTDFHC                Y
|DFH320.CICS.SEYULINK          VTDFHC                Y
|DFH320.CICS.SEYULPA          VTDFHC                Y
|DIT130.SDITMOD1               VTDITA                L
|DSN410.SDXRRESL               VTD41A                Y
|DSN510.SDSNEXIT               VPD51B                Y
|DSN510.SDSNLINK               VTD51A                Y
|DSN510.SDSNLOAD               VTD51A                Y
|DSN510.SDXRRESL               VTD51A                Y

```



## 4.5.2 IEFSDPPT Decoded

```

|
| IFO0661I BASE PROGRAM PROPERTIES TABLE REPORT.
| IFO0662I IEFSDPPT ENTRIES HAVE BEEN TRANSLATED INTO SCHEDXX FORMAT.
| IFO0940I IEFSDPPT FOUND IN LNKST(8) VOL=VIMVSB;DSN=SYS1.LINKLIB.
| IFO0923I IEFSDPPT MEMBER CONTENTS ARE AS FOLLOWS:
|-----1-----2-----3---TOP OF MEMBER---5-----6-----7-----
|PPT      PGMNAME (IEDQTCAM)
|      CANCEL
|      NOSWAP
|      NOPRIV
|      NOSYST
|      DSI
|      PASS
|      KEY (6)
|      AFF (NONE)
|      NOPREF
|PPT      PGMNAME (ISTINM01)
|      NOCANCEL
|      NOSWAP
|      NOPRIV
|      SYST
|      DSI
|      NOPASS
|      KEY (6)
|      AFF (NONE)
|      NOPREF
|PPT      PGMNAME (IKTCAS00)
|      NOCANCEL
|      SWAP
|      PRIV
|      SYST
|      DSI
|      PASS
|      KEY (6)
|      AFF (NONE)
|PPT      PGMNAME (AHLGTF  )
|      NOCANCEL
|      NOSWAP
|      NOPRIV
|      SYST
|      DSI

```

## 4.6 System Health Checker Status

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
- NEZ1
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
- 0014 NEZ1 WAR 243 MSGsum ZOSprm IEAsys APFDsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

```

## 4.6.1 Health Checker Message Summary Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 139
--Health Checks--
----- Configuration Worksheet - 139 Health Checks Discovered -----
Row Selection: Show Full Health Check Report Compare with Health Check Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -System- -----Health Check Results-----
S Num --Name-- Sev -Result- -----Check Names----- -Policy- -State-
- 001 NEZ1 LOW EXCEPTS USS_HFS_DETECTED ACTIVE ENABLED
- 002 NEZ1 --- SUCCESS USS_CLIENT_MOUNTS ACTIVE ENABLED
- 003 NEZ1 --- SUCCESS USS_PARMLIB_MOUNTS ACTIVE ENABLED
- 004 NEZ1 LOW EXCEPTS USS_MAXSOCKETS_MAXFILEPROC ACTIVE ENABLED
- 005 NEZ1 N/A ENV USS_AUTOMOUNT_DELAY ACTIVE DISABLE
- 006 NEZ1 --- SUCCESS USS_FILESYS_CONFIG ACTIVE ENABLED
- 007 NEZ1 N/A ENV CSTCP_CINET_PORTRNG_RSV_TCPIP ACTIVE DISABLE
- 008 NEZ1 --- SUCCESS CSTCP_SYSPLEXMON_RECOV_TCPIP ACTIVE ENABLED
- 009 NEZ1 --- SUCCESS CSTCP_TCPMAXRCVBUFFRSIZE_TCPIP ACTIVE ENABLED
- 010 NEZ1 --- SUCCESS CSTCP_SYSTCPIP_CTRACE_TCPIP ACTIVE ENABLED
- 011 NEZ1 --- SUCCESS RRS_STORAGE_NUMLARGELOGBLKS ACTIVE ENABLED
- 012 NEZ1 --- SUCCESS RRS_STORAGE_NUMLARGEMSGBLKS ACTIVE ENABLED
- 013 NEZ1 --- SUCCESS RRS_STORAGE_NUMSERVERREQS ACTIVE ENABLED
- 014 NEZ1 --- SUCCESS RRS_STORAGE_NUMTRANSBLKS ACTIVE ENABLED

Option ==> Scroll ==> PAGE

```

## 4.6.2 Named Check Detail Report

```

/*****
/*
/*          Report Date:2019/09/28 Report Time:11:41:56          */
/*
/*          Health Check Detail - USS_PARMLIB_MOUNTS          */
/*
/*****
|
CHECK (IBMUSS,USS_PARMLIB_MOUNTS)
STATE: ACTIVE (ENABLED)          STATUS: SUCCESSFUL
EXITRTN: BPXHCADC
LAST RAN: 09/25/2019 14:30      NEXT SCHEDULED: (NOT SCHEDULED)
INTERVAL: ONETIME
EXCEPTION INTERVAL: SYSTEM
SEVERITY: HIGH
WTOTYPE: CRITICAL EVENTUAL ACTION
SYSTEM DESC CODE: 11
THERE ARE NO PARAMETERS FOR THIS CHECK
FOR CHECK: BPXPRMxx parmlib mount failures can cause
MODIFIED BY: N/A
DEFAULT DATE: 20190809
ORIGIN: HZSADDCK
LOCALE: HZSPROC
DEBUG MODE: OFF  VERBOSE MODE: NO
REQUIRES USS RESOURCES
|
/*****
NewEra Software, Inc.
Our Job? Help you avoid problems and improve z/OS integrity.
***** Bottom of Data *****

```

## 4.7 Sub-System Inspection

The activation of the Sub-System Inspection component of IPLCheck/AI requires an active Sub-System Support License Key and a restart of the IPLCheck/AI-Core PROC. The Key is inserted into the ICE Control Member NSEPRM00

### 4.7.1 Accessing Sub-System Inspection Reports

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
  $NEZ3
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
S 0007 $NEZ3 WAR 299 MSGsum ZOSprn IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

Option ==> Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -zSystem- ----JESx Reports---- ----VTAM Reports---- ----TCPIP Reports--
  $NEZ3
S Numb --Names-- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)-
_ 0007 $NEZ3 MSGsum JESprn JESdsn MSGsum VTmprn VTmdsn MSGsum TCPprn TCPdsn
***** Bottom of data *****

Option ==> Scroll ==> PAGE

```

## 4.7.2 JES Inspection

The JES2/3 Inspector is used to inspect the parameters that start the JES2/3 subsystem. The inspection is performed on the JES2/3 parameters that would be used as determined by either IPLCheck/AI-Core or IPLCheck/AI-Alt. The inspection involves syntax checking of all parameters and additional inspection processing that identifies syntax coding errors and Definition errors in JES2/3 parameters. Problems identified would generally prevent the next start of JES2/3. Users should correct identified problems as they may turn into JES2/3 initialization errors.

### 4.7.2.1 JES Message Summary Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -zSystem- ----JESx Reports---- ----VTAM Reports---- ----TCPIP Reports---
$NEZ3
S Numb --Names-- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)-
_ 0007 $NEZ3 MSGsum JESprm JESdsn MSGsum VTmprm VTmdsn MSGsum TCPprm TCPdsn
***** Bottom of data *****
Option ==> Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewe Row 1 to 15 of 21
-Message Summary-
-- IPLCheck/AI Results Viewer - 21 Conditional JESx Messages - System:$NEZ4 ---
Row Selection: Show Image Inspection Details Compare with Prior Report Baseline
- Rec --Inspection Result-- - -----Inspection Message Text-----
S Num Typ -Rec- --Key-- Rsl F -----Filtered-----
_ 001 JES 00012 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 84, COLUMN
_ 002 JES 00017 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 87, COLUMN
_ 003 JES 00022 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 90, COLUMN
_ 004 JES 00027 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 95, COLUMN
_ 005 JES 00032 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 98, COLUMN
_ 006 JES 00037 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 101, COLUMN
_ 007 JES 00042 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 104, COLUM
_ 008 JES 00047 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 107, COLUM
_ 009 JES 00052 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 110, COLUM
_ 010 JES 00057 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 113, COLUM
_ 011 JES 00062 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 116, COLUM
_ 012 JES 00067 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 119, COLUM
_ 013 JES 00072 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 122, COLUM
_ 014 JES 00077 JES0168 WAR - OBSOLETE KEYWORD 'DRAIN' FOUND AT LINE 125, COLUM
_ 015 JES 00082 JES0168 WAR - OBSOLETE KEYWORD 'RDINUM' FOUND AT LINE 129, COLUM
Option ==> Scroll ==> PAGE

```

## 4.7.2.2 JES Configuration Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -zSystem- ----JESx Reports---- ----VTAM Reports---- ----TCPIP Reports---
  $NEZ3
S Numb --Names-- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)-
  0007 $NEZ3      MSGsum JESprn JESdsn MSGsum VTMprn VTMdsn MSGsum TCPprn TCPdsn
***** Bottom of data *****
Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 14 of 833
--Messge Detail--
----- IPLCheck/AI Results Viewer - 833 Inspection Records - System:$NEZ4 -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Count --Results-- -----Inspection Message Text-----
S -Rec- --Key-- Rsl -----UnFiltered-----
- 00001 ----- --- IFO0739I PROCESSING JES2 FOR PROCEDURE JES2.
- 00002 ----- --- IFO0741I INSPECTION=Y; STORE PACKAGE=N; RELEASE=.
- 00003 ----- --- IFO0998I LVL0.PARMLIB FOUND ON VOLUME VTLVL0.
- 00004 ----- --- IFO0940I HASJES20 FOUND IN LNKLST(10) VOL=VTMVSC;DSN=SYS1.
- 00005 ----- ---
- 00006 ----- --- IFO0718I SEARCHING FOR SOURCE DATASET(S).
- 00007 ----- --- IFO0998I LVL0.PARMLIB FOUND ON VOLUME VTLVL0.
- 00008 ----- --- IFO0757I 1 DASD EXTENTS.
- 00009 ----- --- IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A
- 00010 ----- ---
- 00011 ----- --- IFO0938I ALLOCATING SOURCE DATASETS.
- 00012 ----- --- IFO0150I ALLOCATING LVL0.PARMLIB; VOL=VTLVL0; MBR=JES2420A
- 00013 ----- --- IFO0151I ALLOCATED TO SYS03406.
- 00014 ----- --- IFO0923I JES2 MEMBER CONTENTS ARE AS FOLLOWS:
Option ==>                               Scroll ==> PAGE

```

## 4.7.2.3 JES Dataset Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -zSystem- ----JESx Reports---- ----VTAM Reports---- ----TCPIP Reports---
  $NEZ3
S Numb --Names-- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)- -(01)- -(02)- -(03)-
  0007 $NEZ3      MSGsum JESprm JESdsn MSGsum VTMprm VTMdsn MSGsum TCPprm TCPdsn
***** Bottom of data *****
Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 14 of 833
--Message Detail--
----- IPLCheck/AI Results Viewer - 833 Inspection Records - System:$NEZ4 -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Count --Results-- -----Inspection Message Text-----
S -Rec- --Key-- Rsl -----UnFiltered-----
- 00001 ----- --- IFO0739I PROCESSING JES2 FOR PROCEDURE JES2.
- 00002 ----- --- IFO0741I INSPECTION=Y; STORE PACKAGE=N; RELEASE=.
- 00003 ----- --- IFO0998I LVL0.PARMLIB FOUND ON VOLUME VTLVL0.
- 00004 ----- --- IFO0940I HASJES20 FOUND IN LNKLIST(10) VOL=VTMVSC;DSN=SYS1.
- 00005 ----- ---
- 00006 ----- --- IFO0718I SEARCHING FOR SOURCE DATASET(S).
- 00007 ----- --- IFO0998I LVL0.PARMLIB FOUND ON VOLUME VTLVL0.
- 00008 ----- --- IFO0757I 1 DASD EXTENTS.
- 00009 ----- --- IFO0687W PROTECTION INADEQUATE: DATASET NOT PROTECTED BY A
- 00010 ----- ---
- 00011 ----- --- IFO0938I ALLOCATING SOURCE DATASETS.
- 00012 ----- --- IFO0150I ALLOCATING LVL0.PARMLIB; VOL=VTLVL0; MBR=JES2420A
- 00013 ----- --- IFO0151I ALLOCATED TO SYS03406.
- 00014 ----- --- IFO0923I JES2 MEMBER CONTENTS ARE AS FOLLOWS:
Option ==>                               Scroll ==> PAGE

```

## 4.8 Dynamic Changes

The activation of the Dynamic Change component of IPLCheck/AI requires an active Health Checker Support License Key and a restart of the IPLCHECK/AI - Core PROC. The required Key is inserted into the ICE Control Member NSEPRM00.

### 4.8.1 Accessing Dynamic Change Reports

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
                -----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report Sub-System Reports Dynamic Change Reports
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- Inspect -----Report Selection-----
  $NEZ3
S Numb --Name-- Rsl Msg -(01)- -(02)- -(03)- -(04)- -(05)- -(06)- -(07)- -(08)-
D 0007 $NEZ3   WAR 299 MSGsum ZOSprn IEAsys APFdsn PPTble SYSdsn SYSvol HLTchk
***** Bottom of data *****

Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
                -----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

Option ==>                               Scroll ==> PAGE

```

4.8.2 LNKLIST

4.8.2.1 Defined LNKLIST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
_ $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3 Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

Option ==> Scroll ==> PAGE
    
```

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 209
-----LNKLIST Datasets-----
----- Configuration Worksheet - 209 Discovered LNKLIST Datasets - $NEZ3 -----
Row Selection: Show the Full Dataset Report Compare with Prior Dataset Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -----System Datasets-----Usages---- -ESM-

S Num Cls Org -----Name----- Volume SMS Type Trk Dir Mbrs -Acs-
_ 001 LNK PO SYS3.EMER.TSYS.LINKLIB CATTTC NO PDS 000 000 0000 -----
_ 002 LNK PO SYS1.TSYS.LINKLIB M1NYTC NO PDS 002 002 0000 -----
_ 003 LNK PO SYS1.NYT.LINKLIB M1NYTC NO PDS 002 002 0000 -----
_ 004 LNK PO SYS1.RETAIL.LINKLIB M1NYTC NO PDS 008 008 0000 -----
_ 005 LNK PO SYS1.LINKLIB M1NYTC NO PDS 082 082 0043 -----
_ 006 LNK PO SYS1.MIGLIB M1NYTC NO PDS 072 072 0019 -----
_ 007 LNK PO SYS1.CSSLIB M1NYTC NO PDS 081 081 0010 -----
_ 008 LNK PO SYS1.SIEALNKE M1NYTC NO PDSE 100 100 0001 -----
_ 009 LNK PO SYS1.SIEAMIGE M1NYTC NO PDSE 100 100 0000 -----
_ 010 LNK PO SYS1.CMDLIB M1NYTC NO PDS 088 088 0002 -----
_ 011 LNK PO SYS1.SVCLIB M1NYTC NO PDS 066 066 0000 -----
_ 012 LNK PO SYS1.SHASLNKE M1NYTC NO PDSE 100 100 0000 -----
_ 013 LNK PO SYS1.SHASMIG M1NYTC NO PDS 066 066 0002 -----
_ 014 LNK PO SYS1.C112.SCEERUN M1NYTC NO PDS 073 073 0035 -----

Option ==> Scroll ==> PAGE
    
```

## 4.8.2.2 Dynamic LNKLIST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
              -----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 2 of 2
              -----Dynamic Changes-----
----- Configuration Worksheet - 2 LNKLIST Dynamic Changes Discovered -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line --Result-- -----Super Compare Return Text-----
-----z/OS Component Name-----
S Numb -Name- Cng -----z/OS Component Name-----
_ 0001 LNKLIST DEL SYS1.TWS83.01.SEQQLMD0
_ 0002 LNKLIST DEL SYS3.VIEWDLVR.CAILIB
***** Bottom of data *****

Option ==>                               Scroll ==> PAGE

```

## 4.8.2.3 LNKLST Dynamic Change Report

```
IFO1010I DYNAMIC CHANGE DETAILS FOR LNKLST.
```

```
MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY
```

```
NEW: SYS11256.T135536.RA000.ITSXSD8I.R0182669(LNKLST)
```

```
OLD: SYS11256.T135536.RA000.ITSXSD8I.R0182668(LNKLST)
```

```
LISTING OUTPUT SECTION (LINE COMPARE)
```

```
-----1-----2-----3-----4-----5
```

```
D - SYS1.TWS83.O1.SEQQIMD0
```

```
M2NYTC
```

```
D - SYS3.VIEWDLVR.CAILIB
```

```
M2NYTC
```

## 4.8.3 APFLST

## 4.8.3.1 Defined APFLST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
_ $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3 Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

Option ==> Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 14 of 849
-----APF Table-----
----- Configuration Worksheet - 849 APF Table Entries -----
Row Selection: Show APF Dataset Member Lists Compare with Prior Report Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -State- -----Authorized Program Facility (APF)----- Dsn --Esm--
_ Num Unk Dup -----Dataset Name----- Volume Typ Profile
_ 001 --- --- DB2NYBQ.BMC.DIS.LOAD SMS FLP -----
_ 002 --- --- DB2NYBQ.BMC.SIS.LOAD SMS FLP -----
_ 003 --- --- DB2NYBQ.BMC.TIS.LOAD SMS FLP -----
_ 004 --- --- DB2NYBQ.BMC.UIS.LOAD SMS FLP -----
_ 005 --- --- DB2NYBQ.SDSNEXIT SMS FLP -----
_ 006 --- --- DB2NYBQ.SDSNLOAD SMS FLP -----
_ 007 --- --- DB2NYBT.BMC.BASE.LOAD SMS FLP -----
_ 008 --- --- DB2NYBT.BMC.DIS.LOAD SMS FLP -----
_ 009 --- --- DB2NYBT.BMC.SIS.LOAD SMS FLP -----
_ 010 --- --- DB2NYBT.BMC.TIS.LOAD SMS FLP -----
_ 011 --- --- DB2NYBT.BMC.UIS.LOAD SMS FLP -----
_ 012 --- --- DB2NYBT.SDSNEXIT SMS FLP -----
_ 013 --- --- DB2NYBT.SDSNLOAD SMS FLP -----
_ 014 --- DUP HOGNV.TESTLIB SMS FLP -----

Option ==> Scroll ==> PAGE

```

## 4.8.3.2 Dynamic APFLST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
- 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****
Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewe Row 1 to 14 of 29
-----Dynamic Changes-----
----- Configuration Worksheet - 29 APFLST Dynamic Changes Discovered -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line --Result-- -----Super Compare Return Text-----
S Numb -Name- Cng -----z/OS Component Name-----
- 0001 APFLST DEL HOGNV.TESTLIB
- 0002 APFLST DEL INSX0$P.NCP.TSYS.NCPLIB
- 0003 APFLST DEL INSX0$P.SSP.TSYS.SSPLIB
- 0004 APFLST DEL INSX0$P.VTAM.TSYS.LINKLIB
- 0005 APFLST DEL INSX00P.VPS.TSYS.LINKLIB
- 0006 APFLST DEL ITSX0$P.OMEG.C1.TSYS.RKANMOD
- 0007 APFLST DEL ITSX0$P.OMEG.C2.TSYS.RKANMOD
- 0008 APFLST DEL SYS1.SEDCSPC
- 0009 APFLST DEL SYS1.SICELINK
- 0010 APFLST DEL SYS1.SIEALNKE
- 0011 APFLST DEL SYS1.SIEAMIGE
- 0012 APFLST DEL SYS1.SORTLIB
- 0013 APFLST DEL SYS1.TAD.V7R2M0.SHSIMOD1
- 0014 APFLST DEL SYS3.DVS.SKMPAUTH
Option ==>                               Scroll ==> PAGE

```

## 4.8.3.3 The APFLST Dynamic Change Report

```
IFO1010I DYNAMIC CHANGE DETAILS FOR APFLST.
```

```
MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY
```

```
NEW: SYS11256.T135536.RA000.ITSXSD8I.R0182669 (APFLST)
```

```
OLD: SYS11256.T135536.RA000.ITSXSD8I.R0182668 (APFLST)
```

```
LISTING OUTPUT SECTION (LINE COMPARE)
```

```
-----1-----2-----3-----4-----5
D - HOGNV.TESTLIB SMS
D - INSX0$P.NCP.TSYS.NCPLIB SMS
D - INSX0$P.SSP.TSYS.SSPLIB SMS
D - INSX0$P.VTAM.TSYS.LINKLIB SMS
D - INSX00P.VPS.TSYS.LINKLIB SMS
D - ITSX0$P.OMEG.C1.TSYS.RKANMOD SMS
D - ITSX0$P.OMEG.C2.TSYS.RKANMOD SMS
D - SYS1.SEDCSPC M2NYTC
D - SYS1.SICELINK M1NYTC
```

4.8.4 LPALST

4.8.4.1 Defined LPALST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
_ $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3 Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

Option ==> Scroll ==> PAGE
    
```

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 29
-----LPALST Datasets-----
----- Configuration Worksheet - 29 Discovered LPALST Datasets - $NEZ3 -----
Row Selection: Show the Full Dataset Report Compare with Prior Dataset Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -----System Datasets-----Usages---- -ESM-

S Num Cls Org -----Name----- Volume SMS Type Trk Dir Mbrs -Acs-
_ 001 LPA PO SYS3.EMER.TSYS.LPALIB CATTTC NO PDS 001 001 0000 -----
_ 002 LPA PO SYS1.TSYS.LPALIB M1NYTC NO PDS 002 002 0000 -----
_ 003 LPA PO SYS1.NYT.LPALIB M1NYTC NO PDS 002 002 0000 -----
_ 004 LPA PO SYS1.RETAIL.LPALIB M1NYTC NO PDS 002 002 0000 -----
_ 005 LPA PO SYS3.TSS.CAILPA M2NYTC NO PDS 020 020 0000 -----
_ 006 LPA PO SYS1.LPALIB M1NYTC NO PDS 070 070 0017 -----
_ 007 LPA PO SYS1.C112.SCEELPA M1NYTC NO PDS 002 002 0000 -----
_ 008 LPA PO SYS1.SDWDDLPA M1NYTC NO PDS 010 010 0000 -----
_ 009 LPA PO SYS1.SEZALPA M1NYTC NO PDS 030 030 0000 -----
_ 010 LPA PO SYS1.SERBLPA M1NYTC NO PDS 066 066 0000 -----
_ 011 LPA PO SYS1.SEAGLPA M1NYTC NO PDS 020 020 0000 -----
_ 012 LPA PO SYS1.IBM.LPALIB M2NYTC NO PDS 006 006 0000 -----
_ 013 LPA PO SYS3.CAI.CAILPA M2NYTC NO PDS 000 000 0000 -----
_ 014 LPA PO SYS3.CA90.CAILPA M2NYTC NO PDS 010 010 0000 -----

Option ==> Scroll ==> PAGE
    
```

## 4.8.4.2 Dynamic LPALST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 289
-----Dynamic Changes-----
----- Configuration Worksheet - 289 LPALST Dynamic Changes Discovered -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line --Result-- -----Super Compare Return Text-----
S Numb -Name- Cng -----z/OS Component Name-----
_ 0001 LPALST ADD **HEX**
_ 0002 LPALST DUP **HEX**
_ 0003 LPALST DUP **HEX**
_ 0004 LPALST DUP **HEX**
_ 0005 LPALST ADD ABENDAID
_ 0006 LPALST ADD BBOCFU70
_ 0007 LPALST DUP BBOCFU70
_ 0008 LPALST DUP BBOCFU70
_ 0009 LPALST DUP BBOCFU70
_ 0010 LPALST DUP BBOCFU70
_ 0011 LPALST DUP BBOCFU70
_ 0012 LPALST ADD BBODPCRT
_ 0013 LPALST DUP BBODPCRT
_ 0014 LPALST DUP BBODPCRT

Option ==>                               Scroll ==> PAGE

```

## 4.8.4.3 \*\*HEX\*\*

If an LPA entry has a name that contains binary data, the label **\*\*HEX\*\*** is substituted in place of the real name as the real name is not printable. Questions should be raised with IBM and/or ISV providers as to whether or why they would add an LPA entry using a hex module name.

#### 4.8.4.4 Duplicate Entries

It is not advised, though perfectly legal, to dynamically add an LPA entry for the same module multiple times. When such a condition is detected, an entry will appear in the report. Such duplications can be wasteful of CSA/ECSA storage and lead to processing confusion and users should raise questions with IBM and/or the ISV owner as to why they add the same name to the LPA more than once; such duplication may result in negative audit findings.

#### 4.8.4.5 The LPALST Dynamic Change Report

```
IFO1010I DYNAMIC CHANGE DETAILS FOR LPALST.
```

```
MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY
```

```
NEW: SYS11256.T135536.RA000.ITSXSD8I.R0182669 (LPALST)
```

```
OLD: SYS11256.T135536.RA000.ITSXSD8I.R0182668 (LPALST)
```

```
LISTING OUTPUT SECTION (LINE COMPARE)
```

```
-----1-----2-----3-----4-----5
I - **HEX**
I - **HEX**
I - **HEX**
I - BBOCFU70
I - BBOCFU70
I - BBOCFU70
I - BBODPCRT
I - BBODPCRT
I - BBORTS70
I - CAIMB838
I - CAIRIMC
I - CAIXL7B0
I - CAIXSQJ$
I - CAIXSQJ0
D - CAIXSQJ1
D - CAMSERR
```

## 4.8.5 SYMLST

SYMLST compares the content of the IEASYSxx Members of the system under Inspection to the Symbols List as contained in memory. Since Symbols cannot be changed dynamically, any changes reported will be as a result of changes to the IEASYSxx Members since the last IPL.

## 4.8.5.1 Defined SYMLST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****
Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewe Row 1 to 14 of 46
-----Symbols-----
----- IPLCheck/AI Results Viewer - 46 System Symbols Discovered -----
Row Selection: Full Inspection Report Display IEASYMxx Member Source
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -----Symbolic----- -----ParmLib Dataset Source-----
S Numb --Names-- --Values-- -Member- -----Dataset----- Cat Volume
_ 0001 &LERUN.  "C112"    IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0002 &LELINK.  "C112"    IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0003 &SSMFLVL. "1102"    IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0004 &MQVER.   "q2"      IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0005 &L1.     "NY"      IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0006 &SYSR0.  "M0NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0007 &SYSR2.  "M2NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0008 &SYSR3.  "M3NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0009 &SYSR4.  "M4NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0010 &SYSR5.  "M5NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0011 &SYSR6.  "M6NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0012 &SYSR7.  "M7NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0013 &SYSR8.  "M8NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
_ 0014 &SYSR9.  "M9NYTC" IEASYM00 SYS1.PARMLIB          002 M1NYTC
Option ==>                               Scroll ==> PAGE

```

## 4.8.5.2 Dynamic SYMLST Worksheet

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****
Option ==>                               Scroll ==> PAGE

```

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 1 of 1
-----Results-----
----- IPLCheck/AI Results Viewer - 14 Named Systems Monitored -----
Row Selection: Full Inspection Report
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -System- ----APFLIST---- ----LNKLIST---- ----LPALIST---- ----SYMLIST----
  $NEZ3
S Numb --Name-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)-- --(1)-- --(2)--
_ 0007 $NEZ3   Defined Dynamic Defined Dynamic Defined Dynamic Defined Dynamic
***** Bottom of data *****

◇----- No Dynamic SYMLST Changes Discovered. -----◇

```

## 4.8.6 BPXLST

## 4.8.7 BPXMNT

## 4.9 Common Worksheet Operations

Viewer Worksheets allow you to analyze targeted data elements in several ways. You can sort (ascending or descending order), filter (specify a specific value), and query (specify a value for a specific data column) using the operators described below.

### 4.9.1 Sorting the Worksheet

You can sort the data in ascending or descending order. Initially, the numbers are sorted in ascending order.

- Place your cursor on the “Numb” column heading and press <ENTER>. Notice that the line items are now sorted in descending order.
- Placing your cursor on the “Numb” column heading and pressing <ENTER> again will return the column to ascending order.
- Now try sorting the “Unit” and “Type” fields.

### 4.9.2 Filtering a Worksheet

You can filter the data by selecting a specific value from a data column for example the “Type” column. Initially, the entries are not shown/grouped by type.

- Place your cursor on the first data line with a “Type” of “3390A”, and press <ENTER>. Notice that only the line items for Type=3390A are shown.
- Placing your cursor on the “3390A” you selected and pressing <ENTER> twice will clear the filter (e.g. display the worksheet in its original format).

### 4.9.3 Worksheet Column Query

You can column query the data by specifying a value for a specific data column for example “Type” column. Initially, the entries are not sorted.

- Place your cursor on the field above the “Type” column heading, type “3390A”, and press <ENTER>. Notice that only the line items for Type=3390A are shown.
- Place your cursor on the “Numb” column heading and press <ENTER> to clear the column query (e.g. display the worksheet in its original format).

### 4.9.4 Report Baseline/Comparison

Each Report Worksheet offers a Report Baseline/Comparison option that allows you to freeze the current state of a report as a unique Report Baseline. This Baseline is used later as a compare point to pinpoint changes in subsequent, new reports.

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 14 of 135
--Health Checks--
----- Configuration Worksheet - 135 Health Checks Discovered -----
Row Selection: Show Full Health Check Report Compare with Health Check Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -System- -----Health Check Results-----
S Num --Name-- Sev -Result- -----Check Names----- -Policy- -State-
C 001 NEZ1     LOW EXCEPTS  USS_HFS_DETECTED           ACTIVE  ENABLED
  002 NEZ1     --- SUCCESS   USS_CLIENT_MOUNTS          ACTIVE  ENABLED
  003 NEZ1     --- SUCCESS   USS_PARMLIB_MOUNTS         ACTIVE  ENABLED
  004 NEZ1     LOW EXCEPTS  USS_MAXSOCKETS_MAXFILEPROC  ACTIVE  ENABLED
  005 NEZ1     N/A ENV        USS_AUTOMOUNT_DELAY         ACTIVE  DISABLE
  006 NEZ1     --- SUCCESS   USS_FILESYS_CONFIG          ACTIVE  ENABLED
  007 NEZ1     N/A ENV        CSTCP_CINET_PORTRNG_RSV_TCPIP  ACTIVE  DISABLE
  008 NEZ1     --- SUCCESS   CSTCP_SYSPLEXMON_RECOV_TCPIP  ACTIVE  ENABLED
  009 NEZ1     --- SUCCESS   CSTCP_TCPMAXRCVBUFFRSIZE_TCPIP  ACTIVE  ENABLED
  010 NEZ1     --- SUCCESS   CSTCP_SYSTCPIP_CTRACE_TCPIP  ACTIVE  ENABLED
  011 NEZ1     --- SUCCESS   RRS_STORAGE_NUMLARGELOGBLKS  ACTIVE  ENABLED
  012 NEZ1     --- SUCCESS   RRS_STORAGE_NUMLARGEMSGBLKS  ACTIVE  ENABLED
  013 NEZ1     --- SUCCESS   RRS_STORAGE_NUMSERVERREQS    ACTIVE  ENABLED
  014 NEZ1     --- SUCCESS   RRS_STORAGE_NUMTRANSBLKS     ACTIVE  ENABLED

Option ==>>>                               Scroll ==>>> PAGE
    
```

#### 4.9.4.1 Baseline Change Worksheet

The original Report Baseline can be maintained or updated at any time.

```

ICE 19.0 - IPLCheck/AI Family - Results View Row 1 to 10 of 10
--Health Checks--
----- Baseline Date:17/09/29 Time:13:58 - 7 Changes Discovered - NEZ1 -----
Row Selection: Uppdate Health Check Report Baseline
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Rec -System- -----Health Check Results-----
S Cng --Name-- Sev -Result- -----Check Names----- -Policy- -State-
U ADD NEZ1     --- SUCCESS   NEZ_ALT_JES3_INSPECTION     ACTIVE  ENABLED
  ADD NEZ1     --- SUCCESS   NEZ_ALT_JES2_INSPECTION     ACTIVE  ENABLED
  ADD NEZ1     --- SUCCESS   NEZ_ALT_OPSYS_INSPECTION    ACTIVE  ENABLED
  ADD NEZ1     HIG EXCEPTS  NEZ_OPSYS_INSPECTION        ACTIVE  ENABLED
  OLD NEZ1     --- SUCCESS   JES2_Z11_UPGRADE_CK_JES2    ACTIVE  ENABLED
  NEW NEZ1     --- SUCCESS   JES2_Z11_UPGRADE_CK_JES2    ACTIVE  ENABLED
  OLD NEZ1     --- SUCCESS   USS_PARMLIB                  ACTIVE  ENABLED
  NEW NEZ1     --- SUCCESS   USS_PARMLIB                  ACTIVE  ENABLED
  OLD NEZ1     --- SUCCESS   IOS_CMRTIME_MONITOR          ACTIVE  ENABLED
  NEW NEZ1     --- SUCCESS   IOS_CMRTIME_MONITOR          ACTIVE  ENABLED
***** Bottom of data *****

Option ==>>>                               Scroll ==>>> PAGE
    
```

### 4.9.5 Accessing Member History

Certain Worksheets will contain an access path to the display of Configuration Members, for example, the IEASYS Worksheet. Selecting a member will generally display a list of all such members discovered along the IPL path. Once the member list is resolved and displayed in the Member Worksheet, an additional option, Get Member History, will allow you to display a complete history of member changes when The Control Editor (TCE) is installed and its Control Journals are accessible.

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 12 of 12
                                -Parmlib Members-
----- Configuration Worksheet - 12 BPXPRMxx Parmlib Members -----
Row Selection: Show Inspection Get Member History
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -----Members----- Last Update----- Parmlib Datasets-----
-   Cat
S Numb -Prefix- Sf Num --User-- --Date-- Rsl -----Dataset Names----- Volume
G 0001 BPXPRM WM 001 DPACK 16/10/13 AOK SVTSC.PARMLIB VTMVSG
- 0002 BPXPRM OM 002 PKRUTZA 16/12/08 AOK LVL0.PARMLIB VTLVL0
- 0003 BPXPRM SV 003 SYSMBJ1 16/11/19 AOK SVTSC.PARMLIB VTMVSG
- 0004 BPXPRM DB 004 IBMUSER 16/12/30 AOK SVTSC.PARMLIB VTMVSG
- 0005 BPXPRM MS 005 IBMUSER 17/08/01 WAR SVTSC.PARMLIB VTMVSG
- 0006 BPXPRM I1 006 DPACK 17/09/10 AOK SVTSC.PARMLIB VTMVSG
- 0007 BPXPRM I9 007 RGONZAL 17/08/23 AOK SVTSC.PARMLIB VTMVSG
- 0008 BPXPRM 66 008 FLEMING 16/11/05 AOK SVTSC.PARMLIB VTMVSG
- 0009 BPXPRM RZ 009 LARRYWD 16/11/12 AOK SVTSC.PARMLIB VTMVSG
- 0010 BPXPRM 61 010 SYSMBJ1 16/12/07 AOK SVTSC.PARMLIB VTMVSG
- 0011 BPXPRM 70 011 SYSMBJ1 16/12/07 AOK SVTSC.PARMLIB VTMVSG
- 0012 BPXPRM VN 012 IBMUSER 17/08/16 AOK VENDOR.PARMLIB VPMVSD
***** Bottom of data *****
Option ==> Scroll ==> PAGE

```

#### 4.9.5.1 TCE Control Journal – Member History

```

ICE 19.0 - IPLCheck/AI Family - Results Viewer Row 1 to 3 of 3
                                --Dataset/Member--
----- IFO.IFOP - Controlled Member Events - BPXPRMOM -----
Row Selection: Show TCE Journal History Browse TCE Journal Record
--- To Sort select a Sub-Head, To Query enter above Sub-Head, PFK1 for Help ---
- Line -----Detected Events----- Controlled Dataset-----
S Lines yy/mm/dd hh:mm Types --User-- -Member- -----Controlled Dataset-----
- 00001 17/08/29 13:50 DTDEL PKRUTZA BPXPRMOM SVTSC.PARMLIB
- 00002 17/08/29 13:50 DTCNG PKRUTZA BPXPRMOM LVL0.PARMLIB
- 00003 17/03/11 12:10 DTDEL PHARL3 BPXPRMOM CCHIN1.PARMLIB
***** Bottom of data *****
Option ==> Scroll ==> PAGE

```

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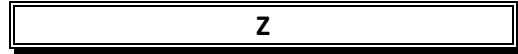


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## 6 Technical Support Contact Information

NewEra Software, Inc.  
8070 Santa Teresa Blvd., Ste. 240  
Gilroy, CA 95020

**Mailing Address:**

PO Box 2726  
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

