

NewEra Software, Inc.

Image FOCUS

Getting Started Guide

Release :7.0

Revision :1

Date : 8-September-2008

Classification :GA

Copyright, Trademark and Legal Notices

Copyrights

This Getting Started Guide and the related Software Product(s) are protected under a Copyright dated 2008 by NewEra Software, Inc. All rights are reserved.

License Agreement

This Getting Started Guide describes the installation and operation of Image FOCUS, its environment and applications. 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.

Trademarks and Copyrights of Others

The following products and/or registered trademarks of International Business Machines Corporation are referenced in this document: MVS, VM, RACF, z/OS, SYSPLEX, JES, VTAM, TSO, ISPF, ICKDSF, DFSMSdss, DR/DSS, and others.

Technical Support Information

Around-The-Clock Support	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 around-the-clock technical support, 7 days a week, 24 hours a day.
Reach Us By Telephone During Business Hours	In case of an emergency, please use the following phone numbers to reach our technical support staff during normal business hours (6 AM to 4 PM Pacific Time): • In North America, dial 1-800-421-5035 • Outside North America, dial 1-408-201-7000
Reach Us By Telephone During Non-Business Hours	During non business hours, phone the above numbers and you will receive instructions on how to contact a Technical Support Representative or a Technical Support Manager.
Sending Email	If you have access to the Internet, you can send our technical support staff an email message (support@newera.com). Your email message will be answered by the next business day. If you have product technical questions or product recommendations, you can send them as an email message.
Help Through the NewEra Website	If you have access to the Internet, you can access our technical support from www.newera.com . Your request will be answered by the next business day.
Service Levels	NewEra is committed to providing the highest level of quality to our customers by adopting the following criteria for responding to customer requests: • All critical questions received by phone during working hours will be answered within 15 minutes of receiving the request. • All email or NewEra Homepage technical questions will be answered by the next business day.
We Want Your Suggestions!	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.

Contents

Chapter 1	Purpose of this Document	1-5
	Image FOCUS Terms and Definitions	1-6
	Image FOCUS Trial Questionnaire	1-7
Chapter 2	Image FOCUS Installation	2-9
	An overview of Image FOCUS installation	2-9
	Installation Checklist	2-10
	Installation Checklist - Multi-Users using a VTAM Application	2-14
	Installation Checklist - Recovery Use	2-15
	Installation Checklist - Background Use	2-16
Chapter 3	Using Image FOCUS	3-17
	Sample Exercises - Log onto Image FOCUS	3-17
	Sample Exercises - The Workbench View	3-19
	Sample Exercises - The Production View	3-28
Chapter 4	The Next Step	4-47
	Index	5-53

Chapter 1

Purpose of this Document

The purpose of this document is to familiarize users with the fundamental capabilities of **Image FOCUS (IFO)**. Chapter 2 covers the installation, and Chapter 3 the setup and basic functions of **Image FOCUS**.

The **Image FOCUS** product family is the most advanced IPL quality management product set on the market today. It is used for IPL integrity, global change management, and standardization of z/OS configuration components. It is used in all phases of the IPL lifecycle, from development, testing and staging through production. Organizations worldwide use it to achieve and maintain the most error-free, standardized production environment possible. Users can automate special projects like moving to a new release of the operating system, consolidation and standardization efforts.

Image FOCUS is designed to assist the user in testing, monitoring and protecting the IPL integrity of a host operating system or Sysplex using z/OS or any prior MVS-based system, and includes JES, VTAM and TCP/IP in its inspections. It provides the ability to test the components that define the operating system environment in the actual manner in which each component will be used during an actual IPL. This testing, or IPL inspection, can be done in variety of ways using **Image FOCUS** -- on a request basis accessed in the Workbench View, in an interval monitoring method accessed in the Production View, and in batch mode.

Expectations

The **Getting Started Guide** explores the basic setup of the request and monitoring method of the image inspections. Default names are used as examples in this document. Please note all changes required to conform with your site-specific standards.

The guide assumes that you have an understanding of the IBM z/OS operating system, and know how to allocate datasets and APPLIDs. If you have questions, contact your System Programmer or NewEra Software. Additional copies of the guide can be downloaded from our website:

www.newera.com/startifo.pdf

Image FOCUS Terms and Definitions

The following are some basic definitions of terms used in this document and in **Image FOCUS** panels and screens.

Blueprints: Blueprints are copies of the components extracted during an inspection by the IFOBG process. They are stored when a change has been detected to any component in the IPL process. These Blueprints are used to identify and track changes to the members, and datasets that define a Sysplex, Image, subsystem or user-defined data source.

IFOBG: IFOBG involves the running of the inspection process under the control of a provided started task using interval timing to run unattended inspections in BACKGROUND (see “Production View” below).

IFOM: The IFOM procedure creates a MASTER address space that will control all **Image FOCUS** users. This address should be started after an IPL and must be available in order for users to access the **Image FOCUS** VTAM Application.

IFOS: The IFOS procedure is used when a user logs onto the VTAM Application. A separate address space is created for each user.

Inspection: An Inspection involves the processing of the IPL path and applicable rules for the IPL and startup of a Sysplex, Image or subsystem. It includes key components such as PARMLIB members, PROCLIB, and JES, VTAM and TCP/IP definitions.

Packages: Packages are a dataset, one for each inspection request, that contain the generations of Blueprints.

Production View: The Production View involves the setup and control of the IFOBG started task and is used for review and use of the Blueprints. It is used to monitor the integrity of a Sysplex or Image, detect changes and provide notification of status based upon the results of an inspection.

Recovery View: The Recovery View provides access to ISPF through the **Image FOCUS** product.

Workbench View: The Workbench View involves the setup, management and execution of inspection requests. This view includes analysis capabilities and interfaces into more advanced functions and services.

Image FOCUS Trial Questionnaire

Company: _____

Tester: _____

Phone: _____

Email: _____

Start date: _____

Download date: _____

Today's date: _____

Date codes generated: _____

Dates codes expire: _____

Installing Image FOCUS

Ten Steps to Installing **Image FOCUS**

- ☐ Download **Image FOCUS** from the NewEra website. Patch level: _____
- ☐ Upload install job to mainframe.
- ☐ Configure and run the install job. Check return codes.
- ☐ Run the Allocate and Build jobs. Check return codes.
- ☐ Put trial authorization control statements into PARMLIB member NSEPRM00.
- ☐ Move IFOM, IFOS, IFOBG, and IFOR into your system PROCLIB.
- ☐ Update the **Image FOCUS** Procs. Image FOCUS HLQ: _____
- ☐ Setup an **Image FOCUS** APPLID.
- ☐ Start IFOM, IFOBG, and IFOR.
- ☐ Log onto **Image FOCUS**.

Using Image FOCUS

Ten Steps to Using **Image FOCUS**

- ☐ Log onto **Image FOCUS**.
- ☐ Use the Workbench.
- ☐ Define an Image for Inspection. Image name: _____
- ☐ Promote Image to Production.
- ☐ Setup the Monitor Interval/Frequency and User Notification.
- ☐ Run the Monitor IFOBG. What was the result? _____
- ☐ Run the Release Analysis. Which future release was tested? _____
- ☐ Run the Component Inspector.
- ☐ Run the Control Editor.
- ☐ Run the Recovery View.

Problems? Contact NewEra Software technical support.

Chapter 2

Image FOCUS Installation

Overview of Image FOCUS installation

The installation of **Image FOCUS** is defined in Section 8 of the *Image FOCUS User's Guide*, which is a separate document included with the product. As you proceed with the install, the following can serve as a checklist and provide tips and suggestions.

After the installation process has been completed, we will address the setup and execution of **Image FOCUS** in Chapter 3 of this document.

Installation Checklist

The installation process begins by requesting the **Image FOCUS** Install Job (a sequential dataset) from the **NewEra Software** website.

- **Download request:** From the www.newera.com homepage, select “Evaluators - Download Image FOCUS”, and follow the instructions.
- **Open the email:** You will receive an email from **NewEra Software** that contains a weblink to download the Install Job (sequential dataset).

Email from NewEra

From: cyc@newera.com [<mailto:cyc@newera.com>]
Sent: Monday, September 8, 2008 3:50 PM
To: bdm2@garlic.com
Cc: support@newera.com
Subject: IFO Evaluation

Dear: Robert K. Mancini, NewEra Software Inc.
Date: 09/08/08 - 15:57:51

Subject: IFO Evaluation

Thank you for your interest in NewEra and our Products. We are very pleased that you have decided to begin an evaluation. If at anytime should you need assistance please contact us.

Follow the link below to reach your Image Focus Evaluation Resources.
<https://ifodwn.newera.com/cgi-bin/rainmaker.pl?IFOPAGE1502491152>

Regards,

Technical Support, NewEra Software
<mailto:support@newera.com>

- **Click on the weblink within the email:** A special NewEra Software webpage will appear with authorized downloadable Authorized Application Name(s).

Files Available for Download

Authorized Application Name	Download	Read Me	User's Guide
Image FOCUS Core Rel_70 Lev_Pxx	Click	Click	Click

- **Locate the links listed on the webpage:** Towards the bottom of the webpage, locate the Authorized Application Name(s). There are links for Download (Install Job dataset), ReadMe, and User's Guide for each authorized application. This is an example for “Image FOCUS Core Rel_70 Lev_Pxx” (where “Pxx” represents the patch level). Note that Application Names will change with each new patch level.

- **Download and save the datasets:** Click on the Download, Read Me, and User's Guide links for each authorized application. Save these datasets onto a hard drive (local or network). Note that the **Image FOCUS** "Download" file is the Install Job, and has an ".nez" file extension.
- **Allocate the Install Job dataset:** Allocate a dataset for the Install Job on the mainframe. The Install Job space requirements are listed below

SPACE=(CYL,(25,5)),LRECL=80,
BLKSIZE=6160, RECFM=FB

- **Copy the Install Job to the mainframe:** Copy the **Image FOCUS** Install Job dataset to the mainframe. Note that the file must be transferred in Binary. Verify that the last line only contains two @ signs.
- **Edit the Install Job on the mainframe:** Change the Jobcard parameters to conform to your site-specific standards. Do not renumber this member, and do not make global changes. Modifications should not be made past line 27 of this member.
- **Specify and Record HLQ and Volume Names:** Specify the HLQ and Volume names for the **Image FOCUS** datasets within the Install Job. Record them here for future reference:

&nssprfx = _____

&diskvolu = _____

- **Submit the Install Job:** Exit the Edit Session before submitting the job. The Install Job creates a library called HLQ.INSTLIB (where HLQ is replaced by the &nssprfx symbolic). Verify the job return codes.
-

Note:

Do Not Submit this job from ISPF Edit (if you experience a B37 space abend when you submit the job, this likely is due to submitting the job from ISPF Edit). Save and Exit the ISPF Edit session, and submit the job from the TSO command line (ISPF Option 6 - Command Shell), or from ISPF Option 3.4.

- **Edit and submit the member ALLOC:** This job allocates the **Image FOCUS** Datasets. Change the Jobcard parameters to conform to your site-specific standards (no other changes required). Verify that the HLQ and Volume names are correct, and submit the job. Verify the job return codes.
- **Edit and submit the member BUILD:** This job builds the **Image FOCUS** product (populates the **Image FOCUS** Datasets). Change the Jobcard parameters to conform to your site-specific standards (no other changes required). Verify that the HLQ and Volume names are correct, and submit the job. Verify the job return codes. If you receive a B37 abend, an ISV intervention is managing the blocks (increase the sizes and restart).

Image FOCUS datasets

DSLISL - Data Sets Matching IF0.IFOX

```

COMMAND ==> _____ Scroll ==> PAGE
Command - Enter "/" to select action .....Message ..... Volume
-----
___ IF0.IFOX.INSTLIB
___ IF0.IFOX.LOAD
___ IF0.IFOX.PACKAGE.INDEX
___ IF0.IFOX.PARMLIB
___ IF0.IFOX.PROFILE
___ IF0.IFOX.REPORT.INDEX
___ IF0.IFOX.SISPLIB
___ IF0.IFOX.SISPMENU
___ IF0.IFOX.SISPPENU
___ IF0.IFOX.SISPTABB
___ IF0.IFOX.SISPTABL
___ IF0.IFOX.USERLIB
***** End of Data Set list *****

```

- **Authorize Load Library:** Follow the install instructions found in the *Image FOCUS User's Guide* to authorize the LOAD library. Dynamically add this library to the APF list, or add the dataset to the correct PARMLIB member. Then do a refresh of the APF list or do an IPL.

Standard Command to dynamically add an authorized library (issue from an operator console or an equivalent utility):

```
SETPROG APF,ADD,DSNAME=nnnn,VOLUME=volser
```

Standard Command to refresh the APF list: (issue from an operator console or an equivalent utility):

SET PROG=xx

- **Specify Image FOCUS Licensing Information:** Follow the *Image FOCUS User's Guide* instructions for either “Fully Pre-Authorized” (no control cards needed) or “Self Authorized” (evaluation keys are required in PARMLIB member NSEPRM00).
- **Review additional Installation Checklists:** Review the additional installation checklists found in this chapter, and follow the instructions if they apply to your environment.

Installation Checklist - Multi-Users using a VTAM Application

If you plan to allow multiple **Image FOCUS** users, you will need to create a VTAM application for **Image FOCUS**. Remember that you will need to vary the APPLID active before it can be used. If you choose not to create and use a VTAM application, **Image FOCUS** can only be used in what is referred to as Recovery mode, which is a single user in dedicated terminal mode only.

Set up VTAM APPLID- When installing **Image FOCUS** as a VTAM application to support multiple users, you will need to edit the following procedures and copy them into one of the PROCLIB datasets. For more information, see Section 8 of the **Image FOCUS** User's Guide.

- **IFOM** - Proc IFOM is a started task that will remain active until stopped. The IFOM procedure is used to create a MASTER address space that will control all **Image FOCUS** users. This address should be started after an IPL and must be available in order for users to access the **Image FOCUS** VTAM Application. The IFOS procedure is used when a user logs onto the VTAM Application. A separate address space is created for each user.
- **IFOS** -Proc IFOS started task is started by IFOM when each user logs on. This task will self-terminate when the user logs off.

Notes:

- You may need to add this application to your VTAM session management product.
 - Verify that VARY ACTIVE was specified for the APPLID.
 - If the APPLID is changed, validate the changes throughout.
 - IFOM must have VTAM APPLID (IFO) specified in PARM (PARM line must have a comma in column 71).
 - You may need to define SUBS (subsystem) IFO1 to the resident security system (RACF, etc.). This subsystem is needed for IFOM.
 - Users must have read/write access. Otherwise “Not Authorized to create dataset” error messages may be issued during START IFOM.
-

Installation Checklist - Recovery Use

The IFOR started task is used for recovery purposes. The IFOR started task, with its local console support, allows **Image FOCUS** logons even if VTAM is unavailable. This is a single use application and the address will terminate when a user logs off.

- **IFOR** - Proc for a single user recovery system.

It is important to remember that as a user logs on to **Image FOCUS**, in either VTAM or recovery mode, the user should use their normal USERID and PASSWORD. **Image FOCUS** will make the necessary SAF calls and verify security access with the resident security system. Access to **Image FOCUS** can be restricted in this way. The user can enable an exception to this as described in Section 8 of the *Image FOCUS User's Guide*.

Also, consider security rights for the **Image FOCUS** address spaces. They will need access to all of the datasets that will be examined during an IPL inspection. This will include PARMLIB(s), PROCLIB(s), JES, VTAM and TCP/IP datasets.

The next step in the installation will be to update the PARMLIB dataset for **Image FOCUS**. The member NSEPRM00 contains control statements for the temporary and permanent licensing of **Image FOCUS** provided to you by **NewEra Software**. If you have not received these statements, please email support@newera.com or call 800-421-5035 or 408-201-7000.

- **&nssprfx.PARMLIB(NSEPRM00)**

This member is used to control the execution of IFOM and IFOBG, which will be explained later.

Note:

Completing the installation to this point will allow the IFOM address to execute, users to logon to the VTAM application, and **Image FOCUS** to perform its inspections on a request basis via the Workbench View.

Installation Checklist - Background Use

One of the major features of **Image FOCUS** is its ability to perform inspections in an automated, unattended method, using a supplied procedure – IFOBG. You should include this procedure in your testing of **Image FOCUS**.

Edit the IFOBG procedure (change the VOLSER) and copy to a PROCLIB dataset. Carefully review the edit instructions at the bottom of the member for the DD statement NSEMODEL. You may need to allocate a dataset with the correct name as **Image FOCUS** uses this name to build new datasets used to track changes; these are called package datasets. If this is an SMS dataset, follow the instructions within the PROC. We recommend that you specify an HLQ which SMS will not migrate the packages and reports.
Note: IFOBG must have write access to the HLQ.

The NSEPRM00 member may require additional customization for IFOBG. Details of the changes are found in the **Image FOCUS User's Guide**.

- **IFOBG** - Proc for the Background Monitor started task

Once again be aware of the security needs of this address space. In addition to reading the IPL datasets, this address space will also need to create and update other datasets. Review Section 8 of the **Image FOCUS User's Guide** for security information.

The installation of other **Image FOCUS** components can be done on an as needed basis, but we will not implement them in these initial Getting Started tests. The INSTLIB dataset contains an index member that explains the use of the other members in this dataset where these other members add further functions. They include running the **Image FOCUS** inspections in batch using IFOBAT, providing sample custom inspectors such as IFOREXX, and with MAILINST enabling an email service interface to **Image FOCUS**. Please review the members as you may wish to use these capabilities.

Additional customization can be done for either a single user or multiple users if required and the INSTLIB dataset contains sample profile programs for this purpose.

Note:

*Now that the installation of the basic functions of **Image FOCUS** has been completed, we will address the use of the **Image FOCUS** product. A step-by-step walk through follows in Chapter 3 of this document.*

Chapter 3

Using Image FOCUS

In this chapter we will take a step-by-step approach to set up and run inspections in both the Workbench and Production views of **Image FOCUS**.

Sample Exercises - Logon

Step 1: Log onto Image FOCUS

To begin using **Image FOCUS**, log onto the VTAM application set up in the prior chapter. The ***Image FOCUS Logon Panel*** will appear after the VTAM application has connected successfully with the IFOM address space. Log onto **Image FOCUS** with your standard USERID and password.

Image FOCUS
Logon Panel

```
----- Image Focus 7.0  Pxx LOGON PANEL -----
PF3/PF15 ==> LOGOFF          PA2 == > RESHOW

LOGON PARAMETERS:                SECURITY PARAMETERS:

USERID      ==>                PASSWORD      ==>

                                NEW PASSWORD ==>

COMMAND     ==> PX PROFM      CONFIRM NEW  ==>

                                GROUP IDENT  ==>

USERID REQUIRED
```

After you have logged onto **Image FOCUS**, the ***Image FOCUS Primary Menu*** (Image Control Environment panel) is displayed.

**Image FOCUS
Primary Menu**

Option ==>		Image Control Environment	
P	Production	- Image Focus Production	Userid - GBAGS1
W	Workbench	- Image Focus Workbench	Time - 10:31
R	Recovery	- Image Focus Recovery	Terminal - 3278
C	Control	- Control Editor Functions	System - ADCD
S	Sentry	- Audit and Compliance	Applid - IF06
D	Definitions	- Definitions & Settings	Image Focus 7.0
			Patch Level Pxx

		* Monitor Task: RUNNING *	
		* Recovery : DOWN *	

X	Exit	- Terminate Image Focus	

Sample Exercises - The Workbench View

Step 2: Workbench View Selections

The Workbench View will assist in the analysis of each Image Component by providing Operating System and Subsystem Inspection, Release Analysis and Configuration Change Management Tools. Each of these tools will generate Inspection Logs or Change Reports that focus attention on changes to critical configuration components and/or their integrity.

Select Option W (Workbench View) from the *Image FOCUS Primary Menu*. The *Workbench View Selections* panel is displayed.

Workbench
View Selections
panel

Image Focus - Workbench View Selections			
Option	====>		
I	Inspect	- SYSPLEX/IMAGE Inspection	userid - CG0LL2
IR	Inspect/R	- Inspection w/Release Level	Time - 09:02
A	Actions	- Copy Controlled Image Definitions	Terminal - 3278
Y	Component	- Single Component Inspection	System - ADCD
R	Reports	- Inspection Reports	Applid - IF0C
O	Options	- Workbench Options	Image Focus 7.0
N	Notify	- User Inspection Notification Settings	Patch Level Pxx
X	Exit	- Return to the Image Focus Primary Menu	

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

Step 3: The Inspection Selection

Select Option I (Inspect) from the *Workbench View Selections* panel. The *System Inspection Selection* panel is displayed.

The names of the Sysplex, Type S, and the Image, Type I, will be set to the defaults and have been discovered for the running system(s). You may change these names, if desired, by over-typing the defaults names of PROD0001 and IMAG001. If you change these names, please use names that will be both unique and descriptive of the images you wish to inspect.

System
Inspection
Selection panel

Image Focus - System Inspection Selection

Row 1 to 2 of 2

COMMAND ==>SCROLL ==>

Line Commands: S - Select X - Run Sysplex Inspection W - Work with an Image
F - Rediscover Sysplex Images (running system)
N - Report Index (Browse, Print, Mail, Reports)
I - Insert Image IX - Insert Sysplex D - Delete R - Repeat

LINE	--	ENTRY	--	SYS(PLEX)	IPL	LOAD	-----	LAST	INSPECTION	-----
CMD	TYPE	NAME		NAME	ADDR	PARM		DATE	TIME	RESULT
..	S	PROD0001		ADCDPL						
..	I	IMAG0001		ADCD		0A80 0A83W8.1				

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

Step 4: Single Image Inspection

To work with one of the Images, place a W (Work with an Image) next to one of the images on the *System Inspection Selection* panel. The *Single Image Inspection* panel is displayed.

Single Image
Inspection panel

```
Image Focus - Single Image Inspection                                Row 1 to 1 of 1
COMMAND ==>                                                         SCROLL ==> PAGE

Line Commands
General:      S - Select  X - Inspect Now  C - Compare  N - Index
Running System: U - Use Host IPL Parms      Y - Dynamic Audit

LINE  IMAGE      SYS      IPL   LOAD      ----- Inspection Result -----
CMD   NAME       NAME     ADDR  PARM      DATE      TIME      RESULT
..  IMAG0001  ADCD      0A80  0A83W8.1
***** Bottom of data *****
```

Step 5: Define Image for Single Image Inspection

Select the Image by placing an S next to the image on the *Single Image Inspection* panel. The *Define Image for Single Image Inspection* panel is displayed.

Define Image for
Single Image
Inspection panel

Image Focus - Define Image for Single Image Inspection

COMMAND ==>

IMAGE NAME ==> IMAG0001

(USER ASSIGNED NAME -
UP TO EIGHT CHARACTERS; DEFAULTS
TO MVS SYSTEM NAME WHEN FOUND)

MVS IPL INPUT

MVS IPL ADDRESS ==> 0A80

(FOUR DIGITS)

MVS LOAD PARM ==> 0A8288.1

(UP TO EIGHT CHARACTERS)

SYSCAT SUFFIX ==>

(IEA347A SPECIFY MASTER CATALOG PARAMETER)

IEASYS00 SUFFIX ==>

(IEA101A SPECIFY SYSTEM PARAMETERS)

ADD'L COMMNDxx ==>

(SEE DOCUMENTATION)

FILTERING INPUT

HARDWARE NAME ==>

(PROCESSOR NAME)

LPAR NAME ==>

(LPAR NAME)

VM USERID ==>

(MVS VM USERID)

ADD'L PARMLIB INPUT

(Concatenated in front of LOADxx Parmlibs)

DATASET ==>

INSPECTION AREA ---System--- ----Subsystems----- -Supplemental- --Custom--

PROCESSING OPTIONS OPSYS DSRPT JES2 JES3 VTAM TCPS LOAD MBRS PLCY CST1 CST2

INSPECTION ==> Y Y N N N N N N N N

This panel defines the details of the inspection request including the Name, IPL address and loadparm. Confirm the IPL information and make corrections as needed. Note that the fields for SYSCAT and IEASYS suffix will only be available if your loadparm value requests prompting.

Step 6: The ADD'L COMMNDxx field

If your site starts the major subsystems of JES, VTAM and TCP/IP by using a COMMNDxx member in PARMLIB, or if you do not wish to inspect these subsystems, you may proceed to Step 7.

The ADD'L COMMNDxx field is important to installations that use a method other than a COMMNDxx member to start one or more of the major subsystems, JES, VTAM, and TCP/IP. In order to provide **Image FOCUS** with the start location and JCL for these subsystems, the start command must be part of the IPL path, so **Image FOCUS** will look for these in the COMMNDxx member. If the start commands are not present, we ask that you provide them to **Image FOCUS** through an auxiliary COMMNDxx member to be used only by **Image FOCUS** during its inspections.

Create a new COMMNDxx member that contains the start command for the subsystems. Be sure to include any start parameters that are needed. Additionally, the suffix name for this member must be provided on this panel.

PARMLIB
member
COMMNDNE

```
EDIT          USER.PARMLIB(COMMNDNE) - 01.12          Columns 00001 00072
Command ==>                                         Scroll ==> PAGE
***** ***** Top of Data *****
000001 COM='S  TCPIP,SUB=MSTR'
000002 COM='S  NET'
```

Once this member has been created, request the use of the member by placing the suffix name on this panel on the ADD'L COMMNDxx line. Then request the subsystems to be included in the inspection by setting the value to Y below each label at the bottom of this panel, as seen in the *Define Image for Single Image Inspection* panel.

**Define Image for
Single Image
Inspection panel**

Image Focus - Define Image for Single Image Inspection

```

COMMAND ==>
IMAGE NAME      ==> IMAG0001      (USER ASSIGNED NAME -
                                   UP TO EIGHT CHARACTERS; DEFAULTS
                                   TO MVS SYSTEM NAME WHEN FOUND)

    MVS IPL INPUT
MVS IPL ADDRESS ==> 0A80          (FOUR DIGITS)
MVS LOAD PARM   ==> 0A8288.1     (UP TO EIGHT CHARACTERS)
SYSCAT SUFFIX   ==>              (IEA347A SPECIFY MASTER CATALOG PARAMETER)
IEASYS00 SAFETY ==>              (IEA101A SPECIFY SYSTEM PARAMETERS)
ADD'L COMMNDxx ==> NE            (SEE DOCUMENTATION)
    FILTERING INPUT

HARDWARE NAME   ==>              (PROCESSOR NAME)
LPAR NAME       ==>              (LPAR NAME)
VM USERID       ==>              (MVS VM USERID)
ADD'L PARMLIB INPUT
DATASET         ==>              (Concatenated in front of LOADxx Parmlibs)

INSPECTION AREA  ---System---    ----Subsystems----- -Supplemental- --Custom--
PROCESSING OPTIONS OPSYS DSRPT JES2 JES3 VTAM TCPS LOAD MBRS PLCY CST1 CST2
INSPECTION      ==>      Y      Y      N      N      N      N      N      N      N      N
  
```

Step 7: Submit the Inspection

When finished with the updates to the *Define Image for Single Image Inspection* panel, press <ENTER> to submit the inspection. The inspection will begin and a small display will appear showing the progress of the inspection.

Image FOCUS
Processing
Message

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

Step 8: View the IMAGE Report Index

When the inspection has completed (Step 7), **Image FOCUS** will display the **Image Report Index** panel. This panel provides access to the complete report or any portion of the report by making a selection from the list. The index can be sorted by Results (default), Member or Sequence.

Review the results of the inspection and make any changes to your system. Then rerun this final step in order to correct any problems or defects that **Image FOCUS** may have identified.

If you need assistance to analyze the inspection results, please contact support@newera.com or call us at 800-421-5035 or 408-201-7000. We will ask you to send us a full **Image FOCUS** report for our analysis.

Image Report Index panel

```
Image Focus - IMAGE      Report Index for  IMAG0001      Row 1 from 103
COMMAND ==>                                SCROLL ==> PAGE

Line Commands:  S - Select  E - Edit Mode
Report  Line Commands      Report  Line Commands
INDEX  SF M  P  ME MX
Report Filtering for SF, M, and P line commands:
Report Level ==> 1      (1, 2, 3, or 4)  Member Display ==> Y      (Y/N)

LINE Member      Status      Description
CMD  Name        Code
..  ++ALL        WARNING    Inspection Log  6.2 P1.
..  -OPSYS        WARNING    Operating System Inspection
..  -JES2         WARNING    JES2 Subsystem Inspection
..  -JES3         OK        JES3 Subsystem Inspection
..  -HCKR         OK        Health Checker Inspection
..  -VTAM         OK        VTAM Subsystem Inspection
..  -RESOLVE      OK        RESOLVER Data Inspection
..  -TCPIP        NOTICE   TCPIP Profile Inspection
..  -TCPDATA      OK        TCPIP Data Inspection
..  -LOAD         OK        LOAD Module Inspection
..  -MBRS         OK        MBRS Inspection
..  -PLCY         OK        PLCY Inspection
..  -SEQS         NO-INSP   SEQS Inspection
..  -CUST1        NO-INSP   Custom Inspection 1
..  -CUST2        NO-INSP   Custom Inspection 2
..  -REPORTS      WARNING    Compliance Documentation
***** Bottom of data *****
```

Step 9: View the Inspection Report

A sample of an inspection report can be reviewed by placing an S next to the ++ALL line on the **Image Report Index** panel. This report provides complete information regarding all of the components and their status and use by the inspected image.

The Inspection Report

```
BROWSE -- INDEXED_REPORT----MEMBER=++ALL ----- Line 00000000 Col 001 080
Command ==>                                     Scroll ==> PAGE
***** Top of Data *****
IF00999I REPORT FOR IMAGE IMAG0001 SYSTEM ADCD      WARNING.
IF01000I REPORT GENERATED BY FOREGROUND EXECUTION.
IF01001I SYSTEM ID=SYS1; SYSTEM NAME=ADCD; SYSPLEX NAME=ADCDPL.
IF00000I REPORT DATASET: 'IFO.IFOX.REPORT.D2008032.T092512'.
IF01008I PACKAGE INDEX DATASET: 'IFO.IF0C.PACKAGE.INDEX'.
IF00765I LICENSED TO NEWERA SOFTWARE INC. (SITE EDITION).
IF00741I INSPECTION=Y; STORE PACKAGE=N; RELEASE=.
IF00727I Image Focus 6.2 Pxx.
|
IF00900I IPL REQUESTED FROM UNIT 0A80.
IF00922I SUPPLIED LOADPARM IS 0A83W8.1.
IF00901I LOADPARM IODF UNIT=0A83 SPECIFIED.
IF00901I LOADPARM LOADW8 SPECIFIED.
IF00950I LOADPARM IMSI SPECIFIED AS OR DEFAULTED TO ".".
IF00901I LOADPARM IEANUC01 SPECIFIED.
IF00712I VMUSERID ZOS18W SPECIFIED.
IF00712I ADD'L COMMNDXX CG SPECIFIED.
|
IF00905I IPL UNIT 0A80 IS VOLUME Z8RES1.
IF00905I IODF UNIT 0A83 IS VOLUME Z8SYS1.
IF00611I IPL UNIT ADDRESS: RUNNING SYSTEM=0A80; TARGET SYSTEM=0A80.
IF00611I IODF UNIT ADDRESS: RUNNING SYSTEM=0A83; TARGET SYSTEM=0A83.
IF00611I LOADXX SUFFIX: RUNNING SYSTEM=W8; TARGET SYSTEM=W8.
IF00611I IEANUC0X SUFFIX: RUNNING SYSTEM=1; TARGET SYSTEM=1.
IF00611I HWNAME: RUNNING SYSTEM=-BLANKS-; TARGET SYSTEM=-NONE-.
IF00611I LPARNAME: RUNNING SYSTEM=-BLANKS-; TARGET SYSTEM=-NONE-.
IF00611I VMUSERID: RUNNING SYSTEM=ZOS18W; TARGET SYSTEM=ZOS18W.
```

Continue your review and analysis of this report and rerun the inspection as needed in order to reach a status for your image that you would like to have monitored on an automatic basis using the Production View and IFOBG.

Sample Exercises - The Production View

Step 10: Production View Selections

The Production View supports functions that are used to enable the interval monitoring of an **Image FOCUS**-managed Sysplex or Image. Once active, this critical monitoring function will call the **Image FOCUS** Inspection Server as scheduled to perform a Sysplex-wide validation of the current configuration components that define a running production environment. As directed by optional settings, Packages are updated and "Need to Know" notices sent.

Return to the *Image FOCUS Primary Menu* and select Option P for Production View. The *Production View Selections* panel will be displayed.

Production View Selections panel

```
.....Image Focus - Production View Selections
Option  ===>

  I   Inspect      - Controlled Image Settings      Userid   - CG0LL2
  A   Actions      - Controlled Image Actions        Time     - 09:17
  O   Options      - Inspection Policies             Terminal - 3278
  C   Control      - Inspection Status and Control   System   - ADCD
  D   Display      - Running System Display          Applid   - IFOC
  R   Reports      - Inspection Reports              Image Focus 7.0
  P   Package      - Configuration Packages          Patch Level Pxx
  N   Notify       - Inspection Notification Settings

  X   Exit         - Return to the Image Focus Primary Menu

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

Step 11: Controlled Image Actions

The Production View of **Image FOCUS** manages the inspection requests that have been promoted from user created inspections built in the Workbench view.

The Production View does not have an edit facility, so all inspection requests must be created and changed in the Workbench then promoted to Production Select Option A from the ***Production View Selections*** panel.

The ***Controlled Image Actions*** panel is displayed.

**Controlled
Image Actions
panel**

```
Image Focus - Controlled Image Actions          Row 1 to 2 of 2
COMMAND ===>                                SCROLL ===> PAGE

Line Commands:
  P - Promote Sysplex    PR - Promote Sysplex w/replace    D - Delete Sysplex

Workbench -----> Controlled
LINE -- ENTRY --  SYS(PLEX) IPL      -- ENTRY --  SYS(PLEX) IPL
CMD  TYPE  NAME      NAME  ADDR      TYPE  NAME      NAME  ADDR
..    S  PROD0001  ADCDPL                      I  IMAG0001  ADCD      0A80
***** Bottom of data *****
```

Step 12: Promote Inspection Definition

Place a P on the Sysplex (Type S) line of the *Controlled Image Actions* panel. This will move the Inspection definition from the workbench to the production area of **Image FOCUS (Production Definition Actions** panel). This process needs to be repeated only if the definition request changes or a new request is to be added.

Production
Definition
Actions panel

```
Image Focus - Production Definition Actions          Row 1 to 2 of 2
COMMAND ==>                                         SCROLL ==> PAGE

Line Commands:
  P - Promote Sysplex   PR - Promote Sysplex w/replace   D - Delete Sysplex

Workbench -----> Production
LINE -- ENTRY --  SYS(PLEX) IPL  -- ENTRY --  SYS(PLEX) IPL
CMD  TYPE  NAME      NAME      ADDR  TYPE  NAME      NAME      ADDR
..                               S  PROD0001  ADCDPL
..                               I  IMAG0001  ADCD      0A80
***** Bottom of data *****
```

Step 13: Execute Inspection Request

Now that the inspection request has been promoted, it is available to be executed by the monitoring started task – IFOBG.

Setup and control of this started task is reached by first returning to the **Production View Selections** panel, and then selecting Option O (Inspection Policies). The **Inspection Policies** panel is displayed.

Inspection Policies panel

Image Focus - Inspection Policies

COMMAND ==> SCROLL ==> PAGE

Monitor Task Enabled ==> Y (Y/N)

Job Scheduler Controlled ==> N (Y/N)

Start Date ==> 02/01/2008 (MM/DD/YYYY)

Start Time ==> 09:25 (HH:MM)

Interval ==> 00:12:00 (DD:HH:MM) Days:Hours:Minutes

Notify ==> P390 (USERID)

Report Dataset:

1st Level Index ==> IFO

2nd Level Index ==> IFOX

3rd Level Index ==> REPORT

Reports to keep ==> 10

CYLs Primary/Secondary ==> 2 / 2

Mail Report Option ==> N (reports to mail) Enhanced Mail ==> Y (Y/N)

A - all; N - none; W - warnings or errors; E - errors; S - success

Bypass Package Store ==> N N - always store packages

W - don't store if warnings or errors; E - don't store if errors

Override Inspections with the Options Below ==> Y (Y/N)

Processing Options: OPSYS DSRPT JES2 JES3 VIAM TCPS LOAD MBRS PLCY CST1 CST2

Inspection	==>	Y	Y	Y	N	Y	Y	Y	Y	N	N	N
Store Package	==>	Y	Y	N	N	N	N	N	N	N	N	N

Starting at the top of this panel, make sure the Monitor Task Enabled is set to Y. This will allow the started task to start and execute the inspections. The date and time need not be changed since the inspections will begin if the stated time and date have past. You may want to change the Notify field so that you will be able to see sample messages created by **Image FOCUS**.

Change the Report Dataset fields. Specify the same 1st Level Index and 2nd Level Index to match the HLQ (&nssprfx) symbolic defined during the **Image FOCUS** installation (Chapter 2).

Other changes to make to this panel are near the bottom. Change the Bypass Package Store field to N, this will allow for the creation of Blueprint even though errors may appear. We recommend this for testing only and this action should be reviewed before actually deploying **Image FOCUS** as an integrity monitor. Change the Override Inspections below to a value of Y, and change the option matrix so that the Inspection and store package options for the OPSYS, DSRPT, JES, VTAM and TCP/IP are set to Y.

These settings will ensure ALL inspection requests promoted into production will be inspected using the same settings and **Image FOCUS** will perform Blueprint stores and compares. During the execution of these inspections by IFOBG, the Monitor option panel will not be accessible.

Step 14: Start the IFOBG Started Task

The started task BACKGROUND (IFOBG) is the platform from which all Inspection and Monitoring activity is run. Knowing that it is functional and running is critical. To ensure that you are informed of its status, this notice is updated each time you enter the Primary Menu. If the Background is "DOWN", you should go directly to the Production View. Select the Status Monitor Option to determine the reason why. It is recommended that IFOBG be run continuously.

Upon completion of the changes in Step 13, press <ENTER> or <PF3>. This will save these settings and start the IFOBG started task. The inspection will be run, a report created, and the initial Blueprint will be stored for this image.

Return to the **Production View Selections** panel and select Option C (Inspection Status and Control) to monitor the IFOBG started task.

The **Control Task Status and Control** panel is displayed. Should you need to stop this started task, restart it, or to refresh the setting, the commands available on this panel provide those controls. This task can also be started or stopped using normal console commands.

Control Task Status and Control panel

```
Image Focus - Control Task Status and Control
COMMAND ==>
----- CONTROL TASK ESSENTIALS -----
Enabled      : YES : YES
Status       :RUNNING: RUNNING
Sysplexes Promoted: >0 : 1
Sysplexes Enabled : >0 : 1
----- CONTROL TASK DETAILS -----
JobScheduler Controlled: NO
Jobname      : IFOCBG
UserId       :          Notify:
Start Date   : 02/01/2008 (MM/DD/YYYY)
Start Time   : 09:25 (HH:MM)
Interval     : 01:00:00 (DD:HH:MM)
Current      : 02/01/2008 09:25:12
Interval Base : 02/01/2008 09:25:12
Last Inspection: 02/01/2008 09:25:12
Next Inspection: 02/01/2008 09:25:12
----- LOGON INFO -----
UserId : CG0LL2
Prefix : CG0LL2
STCName: IFOCS
LU/Cons: SC0TCP29
System : ADCD
Sysplex: ADCDPL
----- GENERAL -----
Company: NEWERA SOFTWARE INC. (SITE)
Status : LICN LICENSE
Feature: 23VTLMP12ESMFH12
Status : llllllllllll..
Serial : xx01CF
Type   : 1247
Model  : L02
Subs   : IF51      Appl: IFOC
IFO Rel: 7.0 Pxx
MVS Rel: SP7.0.8   FMID: HBB7730
-----
ACTION==> (blank - update display; S - Start; P - Stop; C - Cycle now)
Note: Allow up to one minute for actions to take effect.
```

Step 15: Review Inspection Reports

Upon completion of the inspection, the reports can be reviewed by returning to the *Production View Selections* panel and select Option I (Controlled Image Settings).

The *Controlled Image Settings* panel is displayed. By placing an N next to the image, the index for the most recent report will be built and made available.

Review the reports as in Step 9. Rerun the inspections in the Production View by using the C (Cycle) command on the monitor status screen.

**Controlled
Image Settings
panel**

```

Image Focus - Controlled Image Settings
COMMAND ==>
Row 1 to 2 of 2
SCROLL ==> PAGE

Line Commands: S - Select   N - Index (Browse, Print, Mail, Reports)

LINE -- ENTRY --      SYS(PLEX) IPL  USERID/  INSP  ----- LAST  INSPECTION -----
CMD  TYPE  NAME        NAME      ADDR  LOADPRM  ENABLE  DATE      TIME      RESULT
..   S    PROD0001    ADCDPL                CCHIN2   Y..   02/01/2008  09:25    SUCCESS
..   I    IMAG0001    ADCD      0A80   0A83W8.1 Y..   02/01/2008  09:25    WARNING
***** Bottom of data *****

```

Step 16: Confirm Blueprint

After the inspection has completed, and if you have used the settings as documented in Step 13, a Blueprint for this image was created.

Return to the **Production View Selections** panel and select Option P (Configuration Packages). The **Stored Package Operations** panel is displayed.

Stored Package
Operations
panel

Image Focus - Stored Package Operations

Option ==>

B

Browse

- Browse Packages

C

Compare

- Same Image Compare

CX

Compare

- Cross Image Compare

Userid

- CGOLL2

Time

- 09:29

Terminal

- 3278

System

- ADCD

Applid

- IFOC

Image Focus

7.0

Patch Level

Pxx

X

Exit

- Return to the previous menu

NewEra Software, Inc.

Our Job? Help you make repairs, avoid problems, and improve IPL integrity.

Step 17: List all Image Package Datasets

Select Option B (Browse) from the *Stored Package Operations* panel.

The *Stored Package Index* panel is displayed. It contains a selection list of all Image package datasets.

**Stored Package
Index panel**

Image Focus - Stored Package Index

Row 1 to 2 of 2

COMMAND ===>SCROLL ===> PAGE

IMAGE PACKAGE INDEX DATASET: IFO.IFOC.PACKAGE.INDEX

VOLSER: USR003

USING THE SELECTION LISTS THAT FOLLOW, SELECT THE SYSTEM IMAGE BY NAME

AND THEN SELECT THE DATE OF THE IMAGE PACKAGE FOR WHICH TO BROWSE.

CMD IMAGE VOLUME DSNAME

.. IMAG0001 USR002 IFO.IFOC.PACKAGE.IMAG0001

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

Step 18: Select an Image

Select the image you have inspected from the *Stored Package Index* panel. This will display the list of available packages and the reports created in support of the Blueprint. A sample *Select Stored Package* panel.

Select Stored
Package panel

Image Focus - Select Stored Package			Row 1 to 3 of 3
COMMAND ==>			SCROLL ==> PAGE
IMAGE PACKAGE DATASET: IFO.IFOC.PACKAGE.IMAG0001			
VOLSER: USR002			
Line Commands: S - Select Package R - Select Report			
CMD	Date	Result	----- Report Data Set Name -----
..	02/01/08	W	IFO.IFOCBG.REPORT.D2008032.T092512
***** Bottom of data *****			

Step 19: Request Blueprint Report

Request the most current Blueprint reports by placing an R on the selection line on the *Select Stored Package* panel.

The *Report Entry Selection* panel displays the reports created with this Blueprint. These reports can be selected and reviewed as in Step 8.

**Report Entry
Selection panel**

Image Focus - Report Entry Selection

Row 1 to 4 of 4

COMMAND ==>SCROLL ==> PAGE

Line Commands: S - Select Report

LINE	REPORT	INSP.	ENTRY	RECORD	----- Inspection -----		
CMD	TYPE	ID	NAME	COUNT	DATE	TIME	RESULT
..	LOG	OPSYS	AUDITLOG	11	02/01/2008	09:25	SUCCESS
..	SYSPLEX	OPSYS	PROD0001	43	02/01/2008	09:25	SUCCESS
..	IMAGE	OPSYS	IMAG0001	10004	02/01/2008	09:25	WARNING
***** Bottom of data *****							

Step 20: Update PARMLIB

Now that we have a Blueprint stored, we need to make a change to a PARMLIB member to demonstrate the **Image FOCUS** ability to detect and report changes.

If you created PARMLIB member COMMNDNE in Step 6, use ISPF Edit to modify this member. The example below shows a change made to COMMNDNE (adding line 3 - “THIS IS A TEST LINE TO SHOW CHANGES”).

If you did not create PARMLIB member COMMNDNE, you can edit any other PARMLIB member which was used during the inspection process.

Updated
PARMLIB
member
COMMNDNE

```
EDIT          USER.PARMLIB(COMMNDNE) - 01.12          Columns 00001 00072
Command ==>                                         Scroll ==> PAGE
***** ***** Top of Data *****
000001 COM='S TCPIP,SUB=MSTR'
000002 COM='S NET'
000003 THIS IS A TEST LINE TO SHOW CHANGES
***** Bottom of Data *****
```

Step 21: Rerun Inspections

In this step, we will rerun **Image FOCUS** to discover the PARMLIB change and to analyze the change for any problems.

Return to the **Production View Selections** panel and select Option C (Inspection Status and Control), and then use the “C” command to recycle the IFOBG task.

This will run a new inspection, create new reports and a new Blueprint. After the inspection is complete, return to the **Production View Selections** panel and select Option P (Configuration Packages).

Repeat Step 19 and review the new reports. Look at the change summary, CHGSUM, and change detail, CHGDET, reports.

To see the changes between any two Blueprints, return to the **Stored Package Operations** panel and select Option C (Compare).

From the **Select New Package** panel, place an S next to your selected image. Two Blueprints will be available. Select one Blueprint and press <ENTER>. Then select the second Blueprint and press <ENTER>.

Select New Package panel

```
COMMAND ==>          Image Focus - Select New Package          Row 1 to 10 of 10
                                                                SCROLL ==> PAGE

IMAGE PACKAGE DATASET: NEWERA.IF0.PACKAGE.IMAG0001
VOLSER: NEWERA

SELECT THE DATE OF THE IMAGE PACKAGE FOR WHICH TO PERFORM THE COMPARE.
THIS WILL BE CALLED THE "NEW" PACKAGE.

CMD    Date    Result
..     02/01/08    W
..     02/01/08    E
***** Bottom of data *****
```

Step 22: Compare Blueprints

After your selection has been made, a confirmation screen will show the Blueprints to be compared.

Press <ENTER> to proceed with the compare.

Compare Confirmation panel

```
Image Focus - Compare Confirmation
COMMAND ===>

IMAGE COMPARISION WILL NOW COMPARE THE CONTENTS OF THE SELECTED
PARAMETER LIBRARIES.

----- Old IPL Parameters -----      ----- New IPL Parameters -----

DATE:                02/01/08           DATE:                02/01/08
IMAGE NAME:          IMAG0001           IMAGE NAME:          IMAG0001
IPL ADDRESS:         0A80               IPL ADDRESS:         0A80
LOAD PARM:           0A8288.1           LOAD PARM:           0A8288.1
SYSCATxx SUFFIX:     SYSCATxx SUFFIX:
IEASYSxx SUFFIX:     IEASYSxx SUFFIX:
HWNAME:              HWNAME:
LPARNAME:            LPARNAME:
VMUSERID:            VMUSERID:

IF OLD AND NEW IPL PARAMETERS ARE DIFFERENT THEN THEY MAY BE THE
CAUSE OF DIFFERENCES THAT THIS COMPARISION WILL NOT DETECT.

PRESS ENTER TO BEGIN THE COMPARISION
```

Step 23: Select Members with Differences

The compare will show a list of members compared and will display those that have a difference. Select a member with the * DIFFERENT * status to view the changes.

Image
Comparison
Summary panel

Image Focus - Image Comparison Summary				Row 18 to 34 of 58
COMMAND ===>				SCROLL ===> PAGE
Line Commands: S- Compare Details BN- Browse New EN- Edit New				B0- Browse Old E0- Edit Old
SELECT ONE MEMBER BELOW:				
CMD	MEMBER	STATUS	VOLUME	DSNAME
..	IFAPRD00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	CONSOL00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEFSSN02	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEFSSN00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	MSTJCL00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEACMD00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	COMMND88	SAME	OS39M1	USER.PARMLIB
..	COMMNDNE	* DIFFERENT *	OS39M1	USER.PARMLIB
..	SCHED00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	VATLST00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	BPXPRM88	SAME	OS39M1	USER.PARMLIB
..	IKJTS000	SAME	OS39M1	USER.PARMLIB
..	SMFPRM00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEAAPP00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEAOPT00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEAICS00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB
..	IEAIPS00	SAME	Z2RES1	ADCD.Z0SV1R2.PARMLIB

Step 24: View the Comparison Report

Select the member and the comparison report will display all changes in the member.

Comparison Report

```
BROWSE      SYS04318.T155114.RA000.IFOS.R0100049      Line 00000000 Col 001 080
Command ==>                                         Scroll ==> PAGE
***** Top of Data *****
ISRSUPC      -      MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR z/OS
NEW: SYS04318.T155114.RA000.IFOS.R0100048(COMMNDNE)      OLD: SYS04318.T1551
```

LISTING OUTPUT SECTION (LINE COMPARE)

```
ID      SOURCE LINES
-----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----+-----
I - THIS IS A TEST LINE TO SHOW CHANGES
ISRSUPC      -      MVS/PDF FILE/LINE/WORD/BYTE/SFOR COMPARE UTILITY- ISPF FOR z/OS
NEW: SYS04318.T155114.RA000.IFOS.R0100048(COMMNDNE)      OLD: SYS04318.T1551
```

Step 25: Conclusion

This concludes your testing of the fundamental capabilities of **Image FOCUS**.

With the examples and work you have done up to this point, you will have a good foundation for your continued use of **Image FOCUS**.

Notes

Use the following pages to record notes and comments for future reference regarding these exercises.

Chapter 4

The Next Step

Congratulations! You did it!! The **Getting Started Guide** examples and exercises showed you how to install and perform the basic functions of **Image FOCUS**. So what's the next step?

Our job?

Help you make repairs, avoid problems, and improve z/OS integrity.

Your results?

A safer and more secure environment for your business applications.

More detailed instructions about **Image FOCUS** (including the more advanced capabilities not discussed here) can be found in the User's Guide. Optional features not included with the **Image FOCUS** core product are also documented in the User's Guide. A brief overview of these options as well as the other NewEra Software products can be found later in this chapter.

For additional assistance or training, contact us at support@newera.com or call 800-421-5035 or 408-201-7000.

Information is also available on our website, www.newera.com, including our FAQ section with answers to frequently asked questions regarding **Image FOCUS** and our other products.

NewEra Software - Product Family

Image FOCUS

Image FOCUS is the industry standard for business continuity in z/OS data centers. It is a unique system management application that systematically identifies, locates, inspects and processes the thousands of critical parameters that define z/OS images. It supports real-time change control and management (including validating changes detected) by monitoring and reporting on events that would result in a loss of service, up to and including an IPL failure.

Image FOCUS Applications

Image FOCUS Applications (separately licensed) extend the scope of the **Image FOCUS Control Environment**:

Subsystem Inspectors

Subsystem Inspectors extend the scope of **Image FOCUS** inspection, release analysis, component inspection, change detection and monitoring functions to the major subsystems (JES2, JES3, VTAM and TCP/IP).

Supplemental Inspectors

Supplemental Inspectors monitor the modules and objects in system libraries, the members in partitioned datasets and the installation policies that are used to control system security, the monitoring of overall system health (HZSPROC) and the defined hardware configuration (IODF).

The Control Editor

The Control Editor leverages the existing Inspection and Surveillance functions into an ISPF editing environment that both improves productivity and enforces site-specific policy.

Image SENTRY

Image SENTRY is a separately licensed **Image FOCUS** Application that provides the user with the ability to do analysis or reporting without running an inspection. It can be used to analyze the same general areas that are the major areas of **Image FOCUS**, namely Software, Health, Security and Hardware.

Fast DASD Erase for z/OS

Fast DASD Erase for z/OS is an operating system version of the proven FAST DASD Erase application found in Stand Alone Environment (SAE). It can be used while z/OS is up and allows the user to erase data that is no longer needed and potentially could be a security risk.

SAE

Stand Alone Environment (SAE) is a self-contained, self-loading system software utility. It provides immediate access to system datasets through an ISPF-like editor without an active MVS system. It has five integrated applications. SAE is the industry standard for the repair, recovery and data erasure of z/OS systems.

NewEra Software - Contact Information

Corporate Headquarters

155 E Main, #130
Morgan Hill, CA 95037

Phone: (408) 201-7000
(800) 421-5035

FAX: (408) 201-7099

Web Site: www.newera.com

Technical Support

24 hours a day, 7 days a week
(800) 421-5035
support@newera.com

International Distributors

UK & Ireland (EMEA)

Fitz Software
Kilcolta House
Crosshaven
County Cork
Ireland
+353-21-4832131

London
+44-20-73320 222
sales@fitzsoftware.com
www.fitzsoftware.com

Germany, Austria, Switzerland & BENELUX

UBS Hainer
Am Zickmantel 16
D-36341 Frischborn
Germany
+49-6641-65510
info@ubs-hainer.com
www.ubs-hainer.com

NewEra Software - Contact Information

International Distributors (continued)

Spain & Portugal

Pedro Ramos SI
Rua Rui Luis Gomes
62B - 1
2330-145 Entroncamento
Portugal
+351 249 710 376

Mellila
29A - 2°-B
28005 Madrid
Spain
+34 911 516 460
info@pedroramos-si.com
www.pedroramos-si.com

Italy

DBA Sistemi
Via dell'Arcolaio 44/d - 50137
Firenze
Italy
+39 055.600636
info@dbasistemi.it
www.dbasistemi.it

France

Query Informatique
1 Boulevard Charles de Gaulle
Immeuble Le NOBLET
Hall A
92700 Colombes
France
+33 1 49 97 33 00
query@query-informatique.com
www.query-informatique.com

NewEra Software - Contact Information

International Distributors (continued)

Israel

Log-On Software, Ltd.
2 Hachilazon Street
Ramat Gan 52522
Israel
+972-3-5763133
info@log-on.com
www.log-on.com

Australia

Blueline Software Pty Ltd
PO Box 5575
Port Macquarie
NSW 2444
Australia
+61-2-6583-9442
admin@blueline.com.au
www.blueline.com.au

Scandinavia

Intelligent Enterprise Integration AB
Box 2042
Romansvägen 6, 16 tr
SE-131 02 NACKA
Sweden
+46 8 410 194 60
sales@iei.se
www.iei.se

Index

Symbols

.nez file extension 2-11
&dskvolu 2-11
&nssprfx 2-11, 2-15, 3-31

Numerics

1st Level Index field 3-31
2nd Level Index field 3-31

A

ADD'L COMMNDxx field 3-23
ALLOC 2-12
APF list 2-12
APPLID 2-14
Authorize Load Library 2-12
Authorized Application Name 2-10

B

B37 space abend (Install Job) 2-11, 2-12
Background Use 1-6, 2-16
Batch mode 1-5
Blueprint 1-6, 3-32, 3-35, 3-37, 3-40
Blueprint compare 3-41
Blueprint Report 3-38
BUILD 2-12
Bypass Package Store field 3-32

C

checklist
 Trial Questionnaire 1-7
CHGDET 3-40
CHGSUM 3-40
COMMNDxx 3-23
COMMNDNE 3-23, 3-24, 3-25, 3-39
Comparison Report 3-43
Configuration Packages 3-40

Contact information

Australia 4-51
Austria 4-49
BENELUX 4-49
Blueline Software Pty Ltd 4-51
Corporate Headquarters 4-49
EMEA 4-49
Fitz Software 4-49
France 4-50
Germany 4-49
Intelligent Enterprise Integration AB 4-51
International Distributors 4-49, 4-50, 4-51
Ireland 4-49
Israel 4-51
Italy 4-50
Log-On Software, Ltd. 4-51
Pedro Ramos SI 4-50
Portugal 4-50
Query Informatique 4-50
Scandinavia 4-51
Spain 4-50
Switzerland 4-49
Technical Support 4-49
UBS Hainer 4-49
UK 4-49
USA 4-49
Control Task Status and Control panel 3-33
Controlled Image Actions 3-29
Controlled Image Actions panel 3-29, 3-30
Controlled Image Settings panel 3-34

D

DBA Sistemi 4-50
Define Image for Single Image Inspection panel
3-22, 3-25
DIFFERENT comparison status 3-42
dskvolu 2-11
DSRPT 3-32

E

Email - installation weblink 2-10
Evaluation keys 2-13
Execute Inspection Request 3-31

F

Frequently Asked Questions (FAQ) 4-47

H

Help 4-47
HLQ 2-11, 3-31
How to use Image FOCUS 3-17

I

IEASYS 3-22
IFOBAT 2-16
IFOBG 1-6, 2-15, 2-16, 3-27, 3-31, 3-32, 3-33, 3-40
IFOM 1-6, 2-14, 2-15, 3-17
IFOR 2-15
IFOREXX 2-16
IFOS 1-6, 2-14
IMAG001 3-20
Image FOCUS
 contact information 4-47
 help 4-47
 installation 2-9
 licensing information 2-13
 logon 3-17
 sample exercises 3-17
 terms and definitions 1-6
 training 4-47
 VTAM Application 1-6
Image FOCUS Logon Panel 3-17
Image FOCUS Primary Menu 3-18, 3-19
Image FOCUS report 3-26
Image FOCUS Trial Questionnaire 1-7
Image Package Datasets 3-36
Image Report Index panel 3-26, 3-27
Inspection 1-6
Inspection Policies panel 3-31
Inspection Report 3-34
Install Job 2-10
 copy to the mainframe 2-11
 dataset allocation 2-11
 HLQ and Volume Names 2-11
 Jobcard parameters 2-11
Installation Checklist

Background Use 2-16
Image FOCUS 2-10
Multi-Users 2-14
Recovery Use 2-15

Installation of Image FOCUS 2-9

Installation weblink 2-10

INSTRIB 2-11, 2-16

 ALLOC member 2-12

 BUILD member 2-12

Integrity monitor 3-32

IPL 1-6, 3-22

IPL datasets 2-16

IPL integrity 1-5

J

JES 1-5, 1-6, 2-15, 3-23, 3-32

L

Loadparm 3-22

M

MAILINST 2-16

Monitor Task Enabled 3-31

Multi-Users using a VTAM Application 2-14

MVS 1-5

N

NewEra Software

 Product Family 4-48

Next Step 4-47

Notify field 3-31

NSEMODEL 2-16

NSEPRM00 2-15, 2-16

nssprfx 2-11, 2-15, 3-31

O

OPSYS 3-32

Option matrix 3-32

Override Inspections 3-32

P

Package 1-6, 3-37

PARMLIB 1-6, 2-15, 3-39, 3-40

 COMMNDxx member 3-23

 COMMNDNE member 3-23, 3-24, 3-25, 3-39

 NSEPRM00 member 2-13, 2-15

PROCLIB 1-6, 2-15, 2-16

PROD0001 3-20
Production View 1-5, 1-6, 3-27, 3-28, 3-34
Production View Selections panel 3-28, 3-29,
3-31, 3-33, 3-34, 3-35, 3-40
Promote Inspection 3-30

R

ReadMe file - download weblink 2-10
Recovery system - single user 2-15
Recovery Use 2-15
Recovery View 1-6
Report Dataset fields 3-31
Report Entry Selection panel 3-38

S

Sample Exercises
 Log onto Image FOCUS 3-17
 Production View 3-28
 Workbench View 3-19
Select New Package panel 3-40
Select Stored Package panel 3-37, 3-38
SETPROG 2-12, 2-13
Single Image Inspection 3-21
Single Image Inspection panel 3-21, 3-22
Single user recovery system 2-15
Stored Package Index panel 3-36, 3-37

Stored Package Operations panel 3-35, 3-36,
3-40
SYSCAT 3-22
System Inspection Selection panel 3-20, 3-21

T

TCP/IP 1-5, 1-6, 2-15, 3-23, 3-32
Training 4-47

U

User's Guide - download weblink 2-10

V

Volume Name 2-11
VTAM 1-5, 1-6, 2-15, 3-23, 3-32
VTAM application 2-14
VTAM APPLID 2-14

W

Workbench View 1-5, 1-6, 2-15, 3-19
Workbench View Selections panel 3-19, 3-20

Z

z/OS 1-5

NewEra Software, Inc.

Corporate Headquarters
155 E Main, #130
Morgan Hill, CA 95037

Phone: (408) 201-7000
(800) 421-5035

FAX: (408) 201-7099

Web Site: www.newera.com

