

What's New in IMAGE Focus?

Release 5.0

NewEra Software, Inc.

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

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TABLE OF CONTENTS

- 1. ABOUT THIS DOCUMENT 6**
- PURPOSE 6
- SUMMARY 6
- Terminology and/or Methodology* 6
- Functional Enhancements*..... 6
- Accessing the Report Cluster*..... 6
- 2. TERMINOLOGY AND/OR METHODOLOGY 7**
- THE MONITOR..... 7
- SURVEILLANCE LIST 7
- PROMOTE/DELETE 7
- SYSPLEX-CENTRIC 7
- IMAGE/SYSPLEX PAIR 7
- IMAGE FOCUS WORKGROUP 8
- CLUSTER FORMAT 8
- BLUEPRINTING 8
- INSPECTION DEFINITION 8
- THE REPORT INDEX 9
- EDIT/RESTORE 9
- AUTO MIGRATION 9
- SINGLE MEMBER INSPECTION 9
- VOLUME REPORT 9
- THE AUDIT LOG..... 10
- 3. FUNCTIONAL ENHANCEMENTS 11**
- PRODUCTION VIEW ENHANCEMENT..... 11
- Overview* 11
- Inspection - Production Definition Settings*..... 12
- Actions - Promote/Delete Definitions* 17
- Options - Production Monitor Options*..... 18
- Monitor - Monitor Status and Control*..... 19
- Reports - Report Inventory*..... 20
- Package - Stored Packages*..... 21
- Mail - Production Mail Settings* 22
- WORKBENCH VIEW ENHANCEMENTS 23
- Overview* 23
- Inspection - Inspection Selection* 24
- Release - Release Analysis*..... 26
- Actions - Copy Production Definitions* 28
- Subsystem - Subsystem Inspection* 29
- Reports - Report Inventory*..... 30
- Options - Workbench Options*..... 31
- Mail - Workbench Mail Settings* 32

- RECOVERY VIEW 33
- DEFINITIONS & SETTINGS 35
 - Migration Options*..... 35
- 4. ACCESSING THE REPORT CLUSTER 37**
 - OVERVIEW 37
 - READING THE BINARY HEADER 38
 - ACCESSING REPORT SEGMENTS 39
 - ADDITIONAL CLUSTER FUNCTIONS 39
 - Browsing a Cluster Segment*..... 39
 - Extracting a Cluster Segment* 40

1. About this Document

Purpose

The purpose of this document is to explain the enhancements and/or changes users will find when moving from IMAGE Focus 4.6 to IMAGE Focus 5.0. This document is not intended as a replacement for the current IFO 4.6 Users Guide as it contains only the supplemental information needed for existing users to easily transition to IMAGE Focus 5.0. New IMAGE Focus users are encouraged to review the IFO 4.6 Users Guide prior to installing and using IMAGE Focus 5.0 . A completely updated Users Guide, reflecting all new 5.0 enhancements and changes.

Summary

Enhancements and/or changes made to IMAGE Focus in each of the following areas are explained in detail.

Terminology and/or Methodology

In IMAGE Focus 5.0, a number of new terms and/or methods are used to display and/or create the various panels, menus and screens of the user interface and Inspection Reports. Users are encouraged to develop a working familiarity with all IMAGE Focus terms and/or methods.

Functional Enhancements

In this release, the shift in emphasis from the Image to the Sysplex as the primary target of auto-discovery and inspection has resulted in numerous changes to the Production and Workbench Views. The Recovery View remains unchanged from prior releases.

Accessing the Report Cluster

Beginning with this release, all Inspection Reports for a named Sysplex and its Image(s) are stored in a single dataset called an Inspection Report Cluster. Each Cluster will include the Sysplex Inspection Report, the IMAGE Inspection Report and each of its elements – Opsys, JES, VTAM, TCPIP and Custom Inspections – for each related Image. Users currently or planning to post-process IMAGE Focus Inspection Reports will want to use the newly supplied function calls. Inspection Report Clusters created by The Monitor will also contain an additional segment, the Monitor Inspection Log. Inspection Reports created with prior releases are full compatible with this release.

2. Terminology and/or Methodology

In IMAGE Focus 5.0, a number of new terms and/or methods are used to display and/or create the various panels, menus and screens of the user interface and Inspection Reports. They include:

The Monitor

The term "Monitor" will be used to replace the term "Background". For example, the Background Task will now be referred to as the Monitor Task. The functions of the Monitor Task remain unchanged except for the addition of more precise control over the content of Notice Email.

Surveillance List

The term "Surveillance List" will be used to define a set of Sysplex and/or Image definitions. The Monitor, as required by program interval, will interrogate this list to determine a final set of "Enabled" Monitor Inspection Definitions.

Promote/Delete

The term "Promote/Delete" will be used to define an "ACTION" that users may take, when in the Production View, that will add/delete a Sysplex and/or Images to the Surveillance List.

Sysplex-Centric

The term "Sysplex-Centric" will be used to define a change in Inspection Processing methodology in which the Sysplex will become the primary focus of Auto Discovery and Inspection Definition and the Image(s) will become a sub-component of its parent Sysplex. This will become most noticeable to users when they are working within the Workbench View as the functions "INSPECTION" and "RELEASE" now combine the Sysplex and its Image(s) into a single logical, accessible structure.

Image/Sysplex Pair

The term "Image/Sysplex Pair" will be used to define a unique Image entity existing within a named Sysplex. This is an effort to distinguish Images with the same names that exist within other unique Sysplex environments. Users will note the additional use of the term "PRODxxxx", where 'xxxx' is a sequentially assigned available number. This Production Name is automatically assigned to each Sysplex Structure as it is discovered or created/defined by the user.

IMAGE Focus Workgroup

Multiple users are now more closely linked into a Common Workgroup, The IMAGE Focus Workgroup. The primary advantage of the IMAGE Focus Workgroup is in sharing common access to critical system information. For example, new users can now optionally Import and/or "Copy/Replace" Production View Image definitions directly into their individual Workbench View, saving start-up time for new users and eliminating definition mismatches for existing users.

Cluster Format

All Inspection Reports for a named Sysplex will now immediately, record by record, be written to DASD as a single dataset called an Inspection Report Cluster. In prior releases, Inspection Report records were accumulated in memory and then written to DASD, a process that could result in an abnormal ending due to limited available memory.

The Inspection Report Cluster includes the Sysplex Inspection Report, the IMAGE Inspection Report and each of its elements – Opsys, JES, VTAM, TCPIP and Custom Inspections – for each related Image. The primary advantage of this is that a single dataset now contains ALL the elements of an Inspection Report.

The Inspection Report Cluster is organized into segments, the first of which is called the "Cluster Header". This Header, encoded in binary, contains summary information about each Cluster Segment. Those users currently or planning to post-process IMAGE Focus Inspection Reports will want to use the newly supplied IMAGE Focus Function Calls. These Calls will first read and interpret the content of the binary header and then provide specific access to named report segments.

Blueprinting

The terms "Blueprinting" and "Blueprint" will be used interchangeably with the terms "Package Storing" and "Packages".

Inspection Definition

The IMAGE Inspection Definition Methodology has been streamlined by eliminating the need for users to select a specific "Report Level", or turn ON/OFF "Member Display" or "Store Package". By default, ALL Inspection Reports are set to a "Report Level" of "1" or ALL, "Member Display" is set to "Y" or Yes and "Store Package" is set to "N" or No. The change in Methodology is further extended by allowing the users more control over which segments of an Inspection Report they wish to view through the enhanced functions of the Report Index. The "Store Package" function ("Blueprinting") is now controlled independently of the Inspection Definition and is now accessed and set only in the Production View.

The Report Index

The Report Index, available in a limited form in prior releases, is now used as the focal point for Inspection Results. It provides an access point for drilling-down into Inspection Report contents. Displayed from Report and Inspection Operational Functions, the Report Index now displays a full screen of interactive Inspection, Configuration and Change Information and replaces the Inspection Report as the primary interface into Inspection Results. In addition, the Options – Browse, Print, Mail, Custom Analysis, and Custom Reports – no longer appear as Primary Menu Functions; they are now accessible only from the Report Index.

Edit/Restore

New functions have been added directly to the Package Options that allow for the direct extraction of content from a Stored Package or Blueprint. Selected content is immediately written to a temporary dataset and displayed in ISPF Edit. From this point, standard ISPF functions can be used to EDIT, COPY or RESTORE the selected Blueprint Segment.

Auto Migration

The term "Auto Migration" will be used to define a change in IMAGE Focus Product Release Migration Methodology in which it will no longer be necessary for an individual user to Export and then Import individual settings in order to capture the benefit of Release/Product Patch enhancements. This notwithstanding, users moving to IMAGE Focus 5.0 will be required (for one last time) to Export their settings from the prior release and then Import them into IMAGE Focus 5.0.

Single Member Inspection

"OPSYS" will become a selectable Subsystem Inspection Option and is planned for a Patch Level Release following the GA of IMAGE Focus 5.0. Using this option, users will be able to define the datasets and order of existing or future PARMLIB concatenations and specific Members within the final concatenation for inspection. This planned function will be called "Single Member Inspection".

Volume Report

The term "Volume Report" will be used to describe a new Inspection Report Type containing attribute information about volume encountered by IMAGE Focus during a virtual IPL. Typically these volumes will be those used to house datasets critical to the IPL process.

The Audit Log

The term "Audit Log" will be used as the name of a new Inspection Report Type that will detail the actions of The Monitor. The Log will, for each IMAGE in the Sysplex, will note the start and result of the Inspection and Package Storing processes.

3. Functional Enhancements

In this release, the shift in emphasis from the Image to the Sysplex as the primary target of auto-discovery and inspection has resulted in numerous changes to the Production and Workbench Views. The Recovery View remains unchanged from prior releases, while Definition and Setting Options have been enhanced to support more robust release migration tools.

Production View Enhancement

Overview

The Production View controls the setup and timing of the IMAGE Focus Monitor (previously called the Background Task). The IMAGE Focus Monitor provides surveillance over named Image/Sysplex Pairs at programmed intervals. During this surveillance process, the Monitor first evaluates the "Surveillance List" for enabled Image/Sysplex pairs; next it INSPECTS each to detect configuration changes and further evaluate their impact on the overall IPL integrity of the Image/Sysplex Pair. The results of this change and impact analysis are reported to named members of the IMAGE Focus Workgroup by TSO broadcast and/or email. In addition a new report, The Job Log, contains a summary of Monitor activity, actions and results.

In this release, the Production View interface has been enhanced to allow users to more easily define and control the functions of the Production Monitor Task. Package Storing (Blueprinting) Options are now accessed and controlled exclusively from the Production View, having been eliminated from the Workbench View.

Production View Selections

```

Image Focus - Production View Selections
Option  ===>

  I  Inspection  - Production Definition Settings      Userid   - IBMUSER
  A  Actions     - Promote / Delete Definitions       Time    - 08:13
  O  Options     - Production Monitor Options         Terminal - 3278
  S  Monitor     - Monitor Status and Control         PF Keys - 12
  R  Reports     - Report Inventory                   Image Focus 5.0
  P  Package     - Stored Packages                       Patch Level 1
  M  Mail       - Production Mail Settings
  X  Exit       - Return to the Image Focus Primary Menu

```

Inspection - Production Definition Settings

The "INSPECTION" Production Definition Settings menu (formerly IMAGE Added to the Background) is used to Enable/Disable Image/Sysplex Pairs in the Active Monitor Surveillance List. These functions are enhanced to display, in sequence, first the Sysplex Name and then all of its related IMAGE names. The collection of system elements or structure is further automatically tagged with a Production or Entry Name using the form "PRODnnnn". In addition, the menu is further enhanced to provide a refined set of selection options.

Production Definition Settings

```

Image Focus - Production Definition Settings
COMMAND ==>
Row 1 to 6 of 6
SCROLL ==> PAGE

Line Commands: S- Select L- List Image Details
                N- Index (Browse, Print, Mail, Custom Analysis, Custom Reports)

LINE -- ENTRY -- SYS(PLEX) IPL USERID/ INSP ----- LAST INSPECTION -----
CMD  TYPE NAME      NAME      ADDR LOADPRM ENABLE  DATE      TIME      RESULT
..   S  PROD0001  LOCAL
..   I  AA        P390      0A80 0122CS.1 Y.. 08/06/2003 23:04  WARNING
..   S  PROD0002  PLEX1
..   I  SYSA      P391      0A80 0122CS.1 Y.. 08/06/2003 23:24  WARNING
..   I  SYSB      P392      0A80 0122CS.1 Y.. 08/06/2003 23:24  WARNING
..   I  SYSC      P393      0A80 0122CS.1 Y.. 08/06/2003 23:24  WARNING
***** Bottom of data *****

```

Placing an "S" adjacent to "PRODnnnn" (The Production Name) will display the Global IMAGE Inspection Settings Options menu. Using this menu, a user may redefine/override Inspection and Package Options for ALL of the Images related to a Named Sysplex.

Global IMAGE Inspection Settings

```

Image Focus - Global Image Inspection Settings
COMMAND ==>

PRODNAME: PROD0001

Processing Options:
Inspection      ==>   OPSYS DSRPT  JES2  JES3  VTAM TCPIP  REXX CUST1 CUST2
Store Package   ==>   Y     Y     N     N     N     N     N     N     N

```

Placing an "S" next to an IMAGE Name will display a "View Only" copy of the Image Definition for a selected Image.

View Image Definitions

```

Image Focus - View Image Definition
COMMAND ==>
IMAGE NAME      ==> AA          (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   ==> 0122CS.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        (MVS VM USERID)
PROCESSING OPTIONS
INSPECTION      ==>            OPSYS DSRPT JES2 JES3 VTAM TCPIP REXX CUST1 CUST2
STORE PACKAGE   ==>            Y      Y      N      N      N      N      N      N      N
Report Options:
1- ALL; 2- Error & Warning; 3- Error Only; 4- Final Result Only

```

Placing an "L" adjacent to "PRODnnnn" (The Production Name) will display a list of Image(s) related to the selected Sysplex and their IPL Parns, SYSCAT and IEASYS suffixes, additional Command Member suffix and LOADxx filter information, if any.

IMAGE List for a Named Sysplex

```

Image Focus - Image List for PROD0002
COMMAND ==>
Row 1 to 3 of 3
SCROLL ==> PAGE

IMAGE  SYS      IPL  LOAD      SYS IEA ADDL HW      LPAR      VM
NAME   NAME     ADDR PARM     CAT SYS CMD  NAME     NAME     USERID
SYSA   P390     0A80 0122CS.1
SYSB   P390     0A80 0122CS.1
SYSC   P390     0A80 0122CS.1
***** Bottom of data *****

```

Placing an "N adjacent to "PRODnnnn" (The Production Name) will display the Report Index.

Inspection Report Index

```

Image Focus - Report Segment Selection
COMMAND ===> Row 1 to 3 of 3
SCROLL ===> PAGE

Line Commands: S- Select Report

LINE  REPORT  INSP.  ASSOC.  RECORD  ----- Inspection -----
CMD   TYPE     ID      NAME    COUNT   DATE       TIME      RESULT
..  AUDITLOG OPSYS  AA      12      09/23/2003 10:03    SUCCESS
..  SYSPLEX  OPSYS  FSPXN   61      09/23/2003 10:03    ERROR
..  IMAGE    OPSYS  AA      3202   09/23/2003 10:02    WARNING
***** Bottom of data *****

```

From this high-level index, select "AUDITLOG", "SYSPLEX" or "IMAGE" to drill-down into specific report content. If "AUDITLOG" is selected, the Inspection Audit Log is displayed.

Inspection Audit Log

```

BROWSE -- REPORT ----- Line 00000000 Col 001 080
Command ===> Scroll ===> PAGE
***** Top of Data *****

      ALLOCATING REPORT DSN 'IBMUSER.IFOBG.REPORT.D2003266.T1001595'.
      SELECTING SYSPLEX NUMBER 1 : PROD0001

      SELECTING IMAGE NUMBER 1 : AA IN SYSPLEX: PROD0001
IFO0998I P390.IFO32.PACKAGE.AA FOUND ON VOLUME NSSAE2.
IFO0349I USING OLD IMAGE PDS P390.IFO32.PACKAGE.AA ON VOLUME NSSAE2.
IFO0351I LAST PACKAGE STORED WAS MEMBER F030921.
IFO0352I COMPARE SUCCESSFUL; PACKAGE NOT STORED.
IFO0354I P390.IFO32.PACKAGE.AA/NSSAE2/0A88 INDEXED.

      SELECTING IMAGE NUMBER 2 : BB IN SYSPLEX: PROD0001
IFO0998I P390.IFO32.PACKAGE.BB FOUND ON VOLUME NSSAE2.
IFO0349I USING OLD IMAGE PDS P390.IFO32.PACKAGE.BB ON VOLUME NSSAE2.
IFO0351I LAST PACKAGE STORED WAS MEMBER F030921.
IFO0352I COMPARE SUCCESSFUL; PACKAGE NOT STORED.
IFO0354I P390.IFO32.PACKAGE.BB/NSSAE2/0A88 INDEXED.

***** Bottom of Data *****

```

The purpose of the Inspection Audit Log is to provide a detailed "Audit Trail" of Monitor activity. Such questions as: "When did the Monitor run?" "Which IMAGES were inspected?" "What were the results of the Inspection(s)?" "Were Configuration Changes encountered?" "If so, were the Blueprints Updated?" and more can all be answered from a review of the Inspection Audit Log.

If "SYSPLEX" is selected, the Sysplex Inspection Report Index is displayed.

Sysplex Inspection Report Index

```

Image Focus - Sysplex Inspection Report Index      Row 1 to 4 of 4
COMMAND ==>>
SORT      ==>> R          (R- Result; M- Member; S- Sequence)
REPORT OPTIONS
Report Level  ==>> 1      (1- All; 2- Error & Warning; 3- Error Only
                          4- Final Result Only)
Member Display ==>> Y      (Y/N; Display Member Data w/Report Level=1)

Line Commands: S- Select M - Mail P- Print

LINE Member      Status  Insp.      Record
CMD  NAME        Code    Name       Count
..  ++ALL        OK      OPSYS     53
..  +IMAGE       ERROR   OPSYS     42
..  +CROSSCK     WARNING OPSYS     6
..  +HEADER      OK      OPSYS     5
***** Bottom of data *****

```

If an "IMAGE" is selected, the Image Inspection Report Index is displayed.

IMAGE Inspection Report Index

```

Image Focus - Image Inspection Report Index      Row 1 to 12 of 60
COMMAND ==>>
SORT      ==>> R          (R- Result; M- Member; S- Sequence)
REPORT OPTIONS
Report Level  ==>> 1      (1- All; 2- Error & Warning; 3- Error Only
                          4- Final Result Only)
Member Display ==>> Y      (Y/N; Display Member Data w/Report Level=1)

Line Commands: S- Select M- Mail P- Print CA- Custom Analysis IE- Image Editor

LINE Member      Status  Insp.      Record
CMD  NAME        Code    Name       Count
..  ++ALL        OK      OPSYS    1306
..  +RESULT     WARNING OPSYS      3
..  PROG00      WARNING OPSYS    161
..  IEASYSCV    NOTICE OPSYS      5
..  +CUSTOM1    OK      CUST1      5
..  +CUSTOM2    OK      CUST2      5
..  +DSN_RPT    OK      CUST1    384
..  +VOL_RPT    OK      CUST1    132
..  +HEADER     OK      OPSYS      9
..  +IODF       OK      OPSYS      8
..  +IPLINFO    OK      OPSYS     24
..  +IPLTXT     OK      OPSYS      3
..  +JES2       OK      JES2      5

```

Reserved for use in a future
IMAGE Focus release.

The area noted, in the sample IMAGE Inspection Report Index shown above, as "Reserved for use in a future IMAGE Focus release" will contain additional configuration change information (Who and When). However, when the IMAGE Index is displayed following a

demand Inspection current configuration location information (Dataset and Volume) will be displayed.

The new Index Entry "+VOL_RPT" is used to link users to the Volume Report Segment of the IMAGE Inspection Report.

Actions - Promote/Delete Definitions

The "ACTIONS" Option makes the promotion and/or deletion of a Sysplex and its Images (Image/Sysplex Pairs) from the Active Monitor Surveillance List much less cumbersome. Once selected, the "ACTIONS" Option displays two informational lists side-by-side. Displayed to the left side of the ACTIONS Menu are the Image/Sysplex Pairs as defined by a named user from one's individual Workbench. The Image/Sysplex Pairs currently under active Monitor Surveillance, as defined by the members of the IMAGE Focus Workgroup, are to the right side. From the user's Workbench List, the user can "Promote" (ADD) Image/Sysplex Pairs to the Active Monitor Surveillance List. From the Active Monitor Surveillance List, the user can "Delete" (REMOVE) Image/Sysplex Pairs. Deleting an Image/Sysplex Pair will immediately remove it from the Active Monitor Surveillance List but has no effect on its Workbench status.

Production Definition Actions

```

Image Focus - Production Definition Actions          Row 1 to 10 of 10
COMMAND ==>>>                                     SCROLL ==>> PAGE

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

                Workbench -----> Production
LINE -- ENTRY --  SYS(PLEX) IPL      -- ENTRY --  SYS(PLEX) IPL
CMD  TYPE NAME    NAME  ADDR      TYPE NAME    NAME  ADDR
..   S  PROD0001  LOCAL
..   I  AA        P390    0A80
..
..           S  PROD0001  LOCAL
..           I  A        P390    0A80
..   S  PROD0002  LOCAL
..   I  SYSA      P390    0A80
..   I  SYSB      P390    0A80
..   I  SYSC      P390    0A80
..
..           S  PROD0002  LOCAL
..           I  A        P390    0A80
***** Bottom of data *****

```

Options - Production Monitor Options

The "OPTIONS" Production Monitor Option menu (formerly Backgrounds Options Menu) is enhanced with the addition of Global Inspection Settings that, when toggled on, will globally redefine all Monitor Controlled Inspection Definitions, overriding individual Image/Sysplex Pair Definitions specified from the Workbench.

Monitor Options

```

Image Focus - Monitor Options
COMMAND ==>
Monitor Task Enabled ==> Y (Y/N)
Job Scheduler Controlled ==> N (Y/N)

Start Date ==> 01/01/2003 (MM/DD/YYYY)
Start Time ==> 00:00 (HH:MM)
Interval ==> 01:00:00 (DD:HH:MM) Days:Hours:Minutes
Notify ==> (USERID)

Report Dataset:
1st Level Index ==> IBMUSER
2nd Level Index ==> IFOBG
3rd Level Index ==> REPORT
Reports to keep ==> 99999

Package Control:
Maximum Packages per PDS ==> 9999
(Set to zero for no limit)

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

Processing Options:
Inspection ==> OPSYS DSRPT JES2 JES3 VTAM TCPIP REXX CUST1 CUST2
Store Package ==> Y Y N N N N N N N

```

Monitor - Monitor Status and Control

The "MONITOR" - Monitor Status and Control Display (formerly the Background Status and Control Display) is functionally unchanged from prior releases.

Monitor Task Status and Control Display

```

                                Image Focus - Monitor Task Status and Control
COMMAND ===>
----- MONITOR TASK ESSENTIALS ----- .----- LOGON INFO -----
                REQUIRED  ACTUAL  | Userid : IBMUSER
Enabled         : YES   : NO    | Prefix : IBMUSER
Status          :RUNNING: RUNNING| STCname: IFOS
IPLSIM in IKJTSOxx: YES  : YES   | LU/Cons: SC0TCP02
Images Added    : >0   : 0    | System  : P390
Images Enabled  : >0   : 0    | Sysplex: LOCAL
----- MONITOR TASK DETAILS ----- |
Job Scheduler Controlled: NO         |
Jobname      :                       |----- GENERAL -----
Userid       :                       |Company: NEWERA SOFTWARE
Notify      :                       |Status  : SITE LICENSE
Start Date  : (MM/DD/YYYY)           |Serial  : xx0001
Start Time  : (HH:MM)                 |Type    : 7490
Interval    : (DD:HH:MM)              |Model   : 000
Current     : 09/05/2003 08:17:16    |Subs    : IFO9          Appl: IFO
Interval Base :                       |IFO Rel: 5.0 P1
Last Inspection:                       |MVS Rel: SP6.0.6
Next Inspection:                       |
-----
ACTION===> (blank- update display; S- Start; P- Stop; C- Cycle now)
           Note: Allow up to one minute for actions to take effect.

```

Reports - Report Inventory

The "REPORTS" Report Inventory menu (formerly the Inspection Reports Menu) is enhanced by the simplification of available menu options and the addition of "CLUST" column values, which indicate if a report is in Cluster Format "Y" or not "N". IMAGE Focus 5.0 will read and display ALL IMAGE Focus created Inspection Reports. But prior IMAGE Focus releases will not recognize Inspection Reports created by IMAGE Focus 5.0.

Report Inventory

```

Image Focus - Inspection Report Inventory      Row 1 to 18 of 28
COMMAND ===>                                SCROLL ===> PAGE

Line Commands:  S- Select Report   D- Delete Report

CMD DATE          TIME    NAME  CLUST ITEMS RESULT  ----- DSNAME -----
.. 09/04/2003    13:24  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003247
.. 09/04/2003    07:44  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003247
.. 09/02/2003    09:02  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003245
.. 08/11/2003   11:35  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003223
.. 08/09/2003   17:39  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   17:36  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   17:22  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   16:14  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   11:05  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   10:59  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   10:26  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003   10:19  P390   N      1  SUCCESS 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003    4:07  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003    4:01  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003    3:51  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 08/09/2003    3:47  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003221
.. 07/30/2003   13:52  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003211
.. 07/30/2003   13:46  P390   N      1  WARNING 'IBMUSER.IFOBG.REPORT.D2003211

```

To select and view an Inspection Report from the inventory, place an "S" on the "CMD" Line next to the date and press enter. This action will display the Inspection Report Index. From the Index, select either Sysplex or Images to drill-down into Inspection Results. To delete, place a "D" on the "CMD" Line next to the date and press enter.

Package - Stored Packages

The "PACKAGES" Stored Packages menu-related functions remain unchanged except for the addition of the "EDIT" Option to the Stored Package Members Display. To reach this Display, select "PACKAGES" and in the panel that follows, select the Browse option. Next select a named Image, followed by the selection of a Package Member. These actions will display a listing of members contained in the Package along with originating volumes and dataset names.

Stored Package Members Display

```

Image Focus - Stored Package Members
COMMAND ===>                               Row 1 to 14 of 41
                                           SCROLL ===> PAGE

IMAGE PACKAGE DATASET: P390.IFO32.PACKAGE.P390
VOLSER: NSSAE2 MEMBER: F030305

Line Commands: S- Browse Member E- Edit Member

SELECT ONE MEMBER BELOW:
CMD MEMBER VOLUME DSNAME
.. LOADCS SCPMV5 SYS1.IPLPARM
.. NUCLST00 SCPMV5 SYS1.IPLPARM
.. IEASYM00 OS39R6 SYS1.ADCD06.PARMLIB
.. IEASYS00 OS39R6 SYS1.ADCD06.PARMLIB
.. IEASYS00 OS39R6 SYS1.ADCD06.PARMLIB
.. IEASVSCV OS39R6 SYS1.ADCD06.PARMLIB
.. IEASVC00 OS39R6 SYS1.ADCD06.PARMLIB
.. PROG00 OS39R6 SYS1.ADCD06.PARMLIB
.. IEAFIX00 SCPMV5 SYS1.PARMLIB
.. IEALPA00 OS39R6 SYS1.ADCD06.PARMLIB
.. IEAPAK00 OS39R6 SYS1.ADCD06.PARMLIB
.. LPALST00 OS39R6 SYS1.ADCD06.PARMLIB
.. DIAG00 SCPMV5 SYS1.PARMLIB
.. IEAABD00 OS39R6 SYS1.ADCD06.PARMLIB

```

To Browse a member, select it using an "S". To "EDIT" a member, select it using an "E". The following "Pop-Up" message will be displayed prior to displaying the content of the member in the ISPF option 3.4. You can COPY/RESTORE the member, as needed using available ISPF edit commands.

Edit Pop-Up

```

I-----I
I
I      You are editing a copy of the package      I
I      member data. Create/Replace may be        I
I      used to save the member to an actual      I
I      dataset(member) if desired.              I
I
I      Press ENTER to continue or END to exit    I
I
I-----I

```

Mail - Production Mail Settings

The "MAIL" Production Mail Settings menu has been enhanced with the addition of options that allow the content of Monitor created Inspection Report attachments to be customized for Report Level and Member Display, thereby limiting the content of Monitor created email.

Mail Settings

```
Image Focus - Mail Settings

COMMAND ==>>                                SCROLL ==>> PAGE

Mail Server      (Name or IP address of SMTP server)
==>> MAIL.LIVEZONE.NET

From             (Email address)
==>> SUPPORT@NEWERA.COM

Primary Destination (Email address)
==>> GORDON@NEWERA.COM

Secondary Destination (Email address)
==>>

TCP/IP           (Name of TCP/IP service or blank for default service)
==>>

Timeout         (Timeout in seconds for TCP/IP operations)
==>> 060

Report Level    ==> 1      (1, 2, 3, or 4)
Member Display  ==> Y      (Y/N)

Report Level Options:
1- ALL; 2- Error & Warning; 3- Error Only; 4- Final Result Only
```

Workbench View Enhancements

Overview

The Workbench View interface has been enhanced to allow users to more easily define and work with individual Image/Sysplex Pairs at the Workbench and join an IMAGE Focus Workgroup by inheriting existing Monitor Definitions.

Workbench View Selections

```

Image Focus - Workbench View Selections
Option  ===>
  I  Inspection  - SYSPLEX/IMAGE Inspection          Userid   - IBMUSER
  N  Release    - Release Analysis Option           Time    - 08:20
  A  Actions    - Copy Production Definitions        Terminal - 3278
  Y  Subsystem  - Subsystem Inspection              PF Keys - 12
  R  Reports    - Inspection Reports                 Image Focus 5.0
  O  Options    - Workbench Options                  Patch Level 1
  M  Mail       - Workbench Mail Settings
  X  Exit       - Return to the Image Focus Primary Menu

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```

Upon entering the Workbench View Selection Menu, existing users will note that the "Sysplex Inspection" and "Image Inspection" options have been combined into the single option "INSPECTION". The additional option "ACTIONS" has been added while the "PACKAGES" option has been removed. It will now be accessed exclusively from within the Production View.

Inspection - Inspection Selection

The Inspection Function now combines Sysplex and Image Inspection into a single menu. In doing this, the AutoDiscovery function was upgraded so that upon "First Entry", the Sysplex and Image(s) associated with the system upon IMAGE Focus is running (The Running System) are displayed in the Inspection Selection Menu.

Inspection Selection

```

Image Focus - Inspection Selection      Row 1 to 6 of 6
COMMAND ==>                          SCROLL ==> PAGE

Line Commands: S- Select  X- Run Sysplex Inspection  W- Work with an Image
F- Rediscover Sysplex Images (running system)
N- Index (Browse, Print, Mail, Custom Analysis, Custom 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  LOCAL          0A80 0122CS.1  08/06/2003  23:04  ERROR
..   I   AA          P390          0A80 0122CS.1  08/06/2003  23:04  WARNING
..   S   PROD0002  PLEX1
..   I   SYSA      P390          0A80 0122CS.1
..   I   SYSB      P390          0A80 0122CS.1
..   I   SYSC      P390          0A80 0122CS.1
***** Bottom of data *****

```

Selecting a Sysplex using "S" will display the Global Image Inspection Settings. Using options provided, "Processing Options" for each Image in the named Sysplex can be set and then used as the basis for the additional options – Override, Default or Ignored.

Global Image Inspection Settings

```

Image Focus - Global Image Inspection Settings
COMMAND ==>

PRODNAME: PROD0001

Image Inspection      O- Override Image Definitions
Option Use          ==> D      D- Defaults for New Image Definitions
                    I- Ignored by Image Definitions

PROCESSING OPTIONS   OPSYS DSRPT  JES2  JES3  VTAM TCPIP  REXX CUST1 CUST2
INSPECTION          ==>      Y     Y     N     N     N     N     N     N

```

Selecting an Image using "S" will display the IMAGE Inspection Settings. Note that the options Release Level, Member Display and Store Package have been removed, while the remainder of the Settings Options remains unchanged.

Individual IMAGE Inspection Settings

```

Image Focus - Define Image in a Sysplex
COMMAND ==>
IMAGE NAME      ==> AA                (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   ==> 0122CS.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              (MVS VM USERID)

PROCESSING OPTIONS      OPSYS DSRPT  JES2  JES3  VTAM TCPIP  REXX CUST1 CUST2
INSPECTION              ==>         Y   Y   N   N   N   N   N   N   N

```

Selecting an Image using "W", Work with an Image, will display the Single Image Inspection Options. This is a replacement for the Image Inspection Selection Options found in prior releases. Note that the options – Browse Report, Delete, Insert, Repeat, Print, Mail, Use Host IPL Parm, Add to Background and Custom Analysis – have been removed or moved to other panels. The remaining options – Select, Execute, Compare, Dynamic Change and Index – function as expected.

Single IMAGE Inspection

```

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

Line Commands: S- Select X- Execute Now C- Compare Y- Dynamic Change
N- Index (Browse, Print, Mail, Custom Analysis, Custom Reports)

LINE  IMAGE      SYS      IPL   LOAD      ----- Inspection Result -----
CMD   NAME        NAME     ADDR  PARM        DATE       TIME       RESULT
..   AA          P390     0A80  0122CS.1
***** Bottom of data *****

```

Release - Release Analysis

The Release Function now expands Release Analysis to include both Sysplex and Image components. In doing this, the AutoDiscovery was upgraded so that upon "First Entry", the Sysplex and Image(s) associated with the system upon which IMAGE Focus is running (The Running System) are displayed in the Inspection Selection Menu.

New Release Analysis

```

Image Focus - New Release Analysis
COMMAND ==> Row 1 to 6 of 6
SCROLL ==> PAGE

Line Commands: S- Select X- Execute Sysplex or Image Inspection
N- Index (Browse, Print, Mail, Custom Analysis, Custom Reports)
I- Insert Image IX- Insert Sysplex D- Delete R- Repeat
F- Rediscover Sysplex Members (running system)

LINE -- ENTRY -- SYS(PLEX) IPL LOAD REL ----- LAST INSPECTION -----
CMD TYPE NAME NAME ADDR PARM LVL DATE TIME RESULT
.. S PROD0001 LOCAL 0A80 0122CS.1 1 08/06/2003 23:04 ERROR
.. I AA P390 0A80 0122CS.1 1 08/06/2003 23:04 WARNING
.. S PROD0002 PLEX1
.. I SYSA P390 0A80 0122CS.1 1
.. I SYSB P390 0A80 0122CS.1 1
.. I SYSC P390 0A80 0122CS.1 1
***** Bottom of data *****

```

Selecting a Sysplex using "S" will display the Global Release Inspection Settings. Using options provided, "Processing Options" for each Image in the named Sysplex can be set and then used as the basis for the additional options – Override, Default or Ignored.

Global Release Inspection Settings

```

Image Focus - Global Release Inspection Settings
COMMAND ==>

PRODNAME: PROD0001

Image Inspection O- Override Image Definitions
Option Use ==> D D- Defaults for New Image Definitions
I- Ignored by Image Definitions

PROCESSING OPTIONS OPSYS DSRPT JES2 JES3 VTAM TCPIP REXX CUST1 CUST2
INSPECTION ==> Y Y N N N N N N N
RELEASE LEVEL ==> 1 1 1 1 1 1 1 1 1

Release Levels: 0- OS/390 V2R9 and below 1- OS/390 V2R10
2- z/OS V1R1 3- z/OS V1R2
4- z/OS V1R3 5- z/OS V1R4

```

Selecting an Image using "S" will display the Image Inspection Settings. Note that the options Release Level and Member Display have been removed or moved to other panels while the remainder of the Setting Options remain unchanged.

Release Inspection

```

                                Image Focus - Release Inspection
COMMAND ==>
IMAGE NAME      ==> AA          (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   ==> 0122CS.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      (MVS VM USERID)

PROCESSING OPTIONS      OPSYS DSRPT  JES2  JES3  VTAM TCPIP  REXX CUST1 CUST2
INSPECTION              ==>      Y    Y    N    N    N    N    N    N    N
RELEASE LEVEL           ==>      1          1    1    1    1    1    1    1

Release Levels:        0- OS/390 V2R9 and below; 1- OS/390 V2R10
                       2- z/OS V1R1; 3- z/OS V1R2; 4- z/OS V1R3; 5- z/OS V1R4
                       blank- use sysplex release

```

Actions - Copy Production Definitions

The "Actions" Option will automatically discover and display the "Current Production Inspection Definitions" and compare them to the users' "Current Workbench Inspection Definitions". Users may "Inherit" the Product Definitions by using the Options provided to Copy them into their Workbench.

Copy Production Definitions

```

Image Focus - Copy Production Definitions          Row 1 to 10 of 10
COMMAND ==>>>                                SCROLL ==>> PAGE

Line Commands:  C- Copy      CR- Copy w/replace

      Production -----> Workbench
LINE -- ENTRY --  SYS(PLEX) IPL      -- ENTRY --  SYS(PLEX) IPL
CMD  TYPE  NAME    NAME  ADDR      TYPE  NAME    NAME  ADDR
..   S  PROD0001  LOCAL
..   I  AA        P390    0A80
..
..                   S  PROD0001  LOCAL
..                   I  A        P390    0A80
..   S  PROD0002  LOCAL
..   I  SYSA     P390    0A80
..   I  SYSB     P390    0A80
..   I  SYSC     P390    0A80
..
..                   S  PROD0002  LOCAL
..                   I  A        P390    0A80
***** Bottom of data *****

```

Subsystem - Subsystem Inspection

The functions found within this option are unchanged. This notwithstanding, it is expected that following the GA of IMAGE Focus 5.0 that "OPSYS" will become a selectable Subsystem Inspection Option. Using this option, users will be able to define the datasets and order of existing or future PARMLIB concatenations and specific Members within the final concatenation for inspection. This planned function is to be called "Single Member Inspection".

Reports - Report Inventory

The "REPORTS" Report Inventory menu (formerly Inspection Reports Menu) is enhanced by the simplification of available menu options and the addition of "CLUST" column values, which indicate if a report is in Cluster Format "Y" or not "N".

Report Inventory

```

                                Image Focus - Report Inventory
                                Row 3 to 5 of 5
COMMAND ==>>                                SCROLL ==>> PAGE

    Line Commands:  S- Select Report   D- Delete Report

CMD DATE          TIME    NAME  CLUST ITEMS RESULT  ----- DSNAME -----
.. 08/20/2003 08:20 *N/A*  Y     4      'IBMUSER.IFOSP.REPORT.D2003232
.. 08/06/2003 23:03 *N/A*  Y     2      'IBMUSER.IFOSP.REPORT.D2003218
.. 08/06/2003 14:25 *N/A*  Y     2      'IBMUSER.IFOSP.REPORT.D2003218
***** Bottom of data *****

```

Options - Workbench Options

```
Image Focus - Workbench Options
COMMAND ==>                                SCROLL ==> PAGE

Sysplex Report Dataset:                    Import/Export Dataset:
 1st Level Index ==> &SYSPREF              1st Level Index ==> &SYSPREF
 2nd Level Index ==> IFOSP                 2nd Level Index ==> IFOWK
 3rd Level Index ==> REPORT               3rd Level Index ==> IXPOR
 Reports to keep ==> 5

Sysplex Release Report Dataset:
 1st Level Index ==> &SYSPREF
 2nd Level Index ==> IFORL
 3rd Level Index ==> REPORT
 Reports to keep ==> 5

Single Image Report Dataset:
 1st Level Index ==> &SYSPREF
 2nd Level Index ==> IFO
 3rd Level Index ==> REPORT
 Reports to keep ==> 5

Subsystem Report Dataset:
 1st Level Index ==> &SYSPREF
 2nd Level Index ==> IFOSS
 3rd Level Index ==> REPORT
 Reports to keep ==> 5
```

Mail - Workbench Mail Settings

The "MAIL" Workbench Mail Settings menu has been enhanced with the addition of options that allow the content of Inspection Report attachments to be customized for Report Level and Member Display, thereby limiting email content.

Mail Settings

```

                                Image Focus - Mail Settings

COMMAND ==>>>                                SCROLL ==>>> PAGE

Mail Server      (Name or IP address of SMTP server)
==>> MAIL.LIVEZONE.NET

From             (Email address)
==>> SUPPORT@NEWERA.COM

Primary Destination (Email address)
==>> GORDON@NEWERA.COM

Secondary Destination (Email address)
==>>

TCP/IP          (Name of TCP/IP service or blank for default service)
==>>

Timeout        (Timeout in seconds for TCP/IP operations)
==>> 060

Report Level    ==> 1      (1, 2, 3, or 4)
Member Display  ==> Y      (Y/N)

Report Level Options:
1- ALL; 2- Error & Warning; 3- Error Only; 4- Final Result Only
    
```

Recovery View

Recovery View functionality remains unchanged from prior releases.

Definitions & Settings

IMAGE Focus Definitions & Settings are unchanged from prior releases with the exception of Migration Options.

Migration Options

To upgrade to a new Release of IMAGE Focus, it is longer necessary for an individual user to Export and then Import individual settings in order to capture the benefit of Release/Product Patch enhancements. This notwithstanding, users moving to IMAGE Focus 5.0 will be required (for one last time) to Export their settings from the prior release and then Import them into IMAGE Focus 5.0.

To begin the migration to 5.0, Export your settings from 4.6 using the IMAGE Focus 4.6 Export Functions.

Export Options - IMAGE Focus 4.6

```

                                Image Focus - Export
COMMAND ===>                                SCROLL ===> PAGE

SELECT ITEMS TO BE EXPORTED BELOW:

Foreground Definitions:
Image Inspection          ===> Y      (Y/N)
Sysplex Inspection       ===> Y      (Y/N)
Release Inspection       ===> Y      (Y/N)
Subsystem Inspection     ===> Y      (Y/N)
Custom Inspection        ===> Y      (Y/N)
Custom Report            ===> Y      (Y/N)
Mail Options             ===> Y      (Y/N)

Background Definitions:
Background Inspection    ===> N      (Y/N)
Background Options      ===> N      (Y/N)
Mail Options            ===> N      (Y/N)
*-----*
|Note: The Background Task
|      should be down if
|      background definitions
|      are being exported.
*-----*
    
```

Once you have completed the Export, logon to IMAGE Focus 5.0 and using the IMPORT Functions, "IMPORT" your 4.6 Workbench Definitions. Take note that the 5.0 IMPORT Options are now accessed as Workbench Definitions, Production Definitions and Custom Definitions.

Please Note: You can export your Background Definitions out of 4.6 but they ARE NOT importable into 5.0 using the Production Definitions Option. To accomplish this, you will need to take the additional step from within 5.0 of "PROMOTING" selected Workbench Definitions, exported as Foreground Definitions, into "PRODUCTION".

Import Options - IMAGE Focus 5.0

```

                                Image Focus - Import
COMMAND ===>                                SCROLL ===> PAGE

SELECT ITEMS TO BE IMPORTED BELOW:

  IFO 4.6 Definitions          ===> Y      (Y/N)

  Workbench Definitions:
    IFO 5.0 Sysplex Inspection ===> Y      (Y/N)
    IFO 5.0 Sysplex w/Release  ===> Y      (Y/N)
    Subsystem Inspection       ===> Y      (Y/N)
    Mail Options                ===> Y      (Y/N)

  Production Definitions: (IFO 5.0 only)
    Inspection                  ===> N      (Y/N)
    Options                     ===> N      (Y/N)
    Mail Options                ===> N      (Y/N)

  Common Definitions:
    Custom Inspection           ===> Y      (Y/N)
    Custom Report              ===> Y      (Y/N)

*-----*
|Note: The Monitor Task
|      should be down if
|      Production definitions
|      are being imported.
|-----*
  
```

While it should not be necessary for you to do so, an Export Option is provided that will export your IMAGE Focus 5.0 Settings as in prior releases. This may be useful should you desire to back-up your settings/definitions or do a "CLEAN" reinstall.

Export Options - IMAGE Focus 5.0

```

                                Image Focus - Export
COMMAND ===>                                SCROLL ===> PAGE

SELECT ITEMS TO BE EXPORTED BELOW:

  Workbench Definitions:
    Sysplex Inspection          ===> Y      (Y/N)
    Sysplex with Release        ===> Y      (Y/N)
    Subsystem Inspection        ===> Y      (Y/N)
    Mail Options                ===> Y      (Y/N)

  Production Definitions:
    Inspection                  ===> N      (Y/N)
    Options                     ===> N      (Y/N)
    Mail Options                ===> N      (Y/N)

  Common Definitions:
    Custom Inspection           ===> Y      (Y/N)
    Custom Report              ===> Y      (Y/N)

*-----*
|Note: The Monitor Task
|      should be down if
|      Production Definitions
|      are being exported.
|-----*
  
```


Reading the Binary Header

To read the Binary Header, the ddname of the target Inspection Report Dataset is passed to the IMAGE Focus function "NSIRRCL" using the "INIT" qualifier. In this context, the returned value of "token" will be "0" or ">0". If the value is ">0", then the target is a valid IMAGE Focus Inspection Report in Cluster Format and the value is equal to the number of Report Segments in the cluster. If the value is "0", the report is invalid or not in Report Cluster Format. In this latter case, application processing should be halted and the "NSIRRCL" function call terminated using the "TERM" qualifier. The example presented is as used in a REXX application.

```

/*****
/* Read Cluster Header with DDName to gather Report Segments Variables */
*****/

ddname = "temprrt"
token = NSIRRCL('INIT' , ddname)      /* Initialize Function */

if token = 0 then
  do
    x = NSIRRCL('TERM' , token)      /* Terminate Function */
    exit
  end
else
  do
    x = NSIRRCL('LIST' , token); x = return_code ; item# = 0 ; repseg = x

    if x = 0 then
      do
        x = NSIRRCL('TERM' , token)  /* Terminate Function */
        exit
      end

    /*****
    /* If report contains valid segments read and process each */
    *****/

    do while x \= 0

      say INFO_RELREC      /* Relative Record # of first Record in item */
      say INFO_NUMBER     /* Number of Records in an item */
      say INFO_TYPE       /* Item types: '1' = Sysplex Report */
                        /* '2' = IMAGE Report */
                        /* '3' = Release Report */
                        /* '4' = Subsystem Report */
                        /* '5' = Log Report */
      say INFO_ID         /* Inspector ID: 'OP' = OPSYS INSPECTOR */
                        /* 'J2' = JES2 INSPECTOR */
                        /* 'J3' = JES3 INSPECTOR */
                        /* 'VT' = VTAM INSPECTOR */
                        /* 'T2' = TCPIP - RESOLVER INSPECTOR */
                        /* 'TC' = TCPIP - PROFILE INSPECTOR */
                        /* 'T1' = TCPIP - .DATA INSPECTOR */
                        /* 'U0' = REXX/CLIST INSPECTOR */
                        /* 'U1' = CUSTOM INSPECTOR 1 */
                        /* 'U2' = CUSTOM INSPECTOR 2 */
      say INFO_RESULT     /* Insp. Results 'S' = Success */
                        /* 'N' = NOTICE */
                        /* 'W' = WARNING */
                        /* 'E' = ERROR */
      say INFO_NAME       /* User name associated with an item */
      say INFO_SDAT       /* Report start date mm/dd/yyyy */
      say INFO_STIME      /* Report start time hh:mm:ss */
      say INFO_NUMSEG     /* Number of Report Segments (after INIT only) */
    end
  end

```

```

/*****
/*   Read the next segment if any                               */
/*****

x = NSIRCL('LIST' , token , item#)

end
end

x = NSIRCL('TERM' , token)      /* Terminate Function */

```

Accessing Report Segments

Once a Report Segment of interest is found, it can be further processed. One such example of processing would be to read a target cluster and write out its content into a newly allocated temporary dataset. The example presented is as used in a REXX application.

```

/*****
/*   Read Report Cluster with DDName for Specific Segment & Write copy   */
/*****

IF repseg \= 0 THEN
DO

TOKEN = NSIRCL('INIT',ddname)      /* Opens the Cluster          */

IF TOKEN = 0 THEN
DO
SAY 'System Error - Report Cluster is Invalid'
X = NSIRCL('TERM',TOKEN)          /* Closers Cluster          */
EXIT
END
ELSE
DO

USER = SYSVAR(SYSUID) ; USER = STRIP(USER)

DSRPT = hlq1||'|'.'||hlq2||'|'.'||hlq3||'|'.'||hlq4

ADDRESS TSO
"ALLOC DD(TEMP) DA('"DSRPT"')  LRECL(80) RECFM(F B) DSORG(PO),
DIR(18) DSNTYPE(LIBRARY) CYL SPACE(1 1) NEW REUSE"          X =

"NSIMEXT ddname TEMP repseg"

END

END

```

Additional Cluster Functions

If your application does not require header interpretation and/or you know the exact segment within the cluster you want to access, you should consider using these functions in your application.

Browsing a Cluster Segment

To browse a segment, use the following TSO COMMAND.

```
ADDRESS TSO  
NSISBRO DDNAME(ddname) SEGMENT(item#)
```

Where: ddname is the DDNAME of the Report Cluster Dataset and
item# is the SEGMENT number within the Cluster

Extracting a Cluster Segment

To Extract a segment, use the following TSO COMMAND.

```
ADDRESS TSO  
NSISBRO indd outdd segment
```

Where: indd is the DDNAME of the Report Cluster Dataset
Outdd is the DDNAME of the resulting output Dataset
segment is the item# number within the Cluster

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