

## Image FOCUS 6.2

### Compliance - A Difficult Task - WHY?

*Image FOCUS uses an "Inspection" process to ensure the integrity of your z/OS system change process. Image Fitness and Image Audit Reports are generated, ensuring ongoing integrity and security compliance is maintained.*

#### Image Fitness Reports

Image Fitness Reports can be generated and sent to technical staff to help them get a complete review of their z/OS system, including JES, VTAM and TCP/IP. These reports are invaluable in confirming the integrity of the IPL process.

#### Image Audit Reports

Image Audit Reports can be generated and sent to auditors, security officers, and compliance managers to help them oversee the work of z/OS systems staff. These reports can replace the time-consuming, multi-step processes currently used by auditors to ensure the integrity of the z/OS system.

#### Security Reports – SEC Reports

Our standard security reporting package includes reports detailing APF Authorization, PPT changes and a Key report that details keywords in IEASYSxx.

#### Image Audit Reports – APF Report

APF privileges give programs the right to execute supervisor instructions or restricted supervisor calls, such as supervisor state and storage key 0. These privileges, in turn, allow for other privileges that can compromise the integrity of the system from inside the organization.

A typical audit of the APF libraries may include the following steps:

1. Verify the existence of each APF library;
2. Check for duplicate, triplicate, or more occurrences of data set names;
3. Search the dataset name list by partial name to determine if duplicates exist with completely different naming conventions;
4. Reference site dataset naming standards to determine consistency;
5. Sort by volume to verify consistency between volumes and program products;
6. Determine if the number of volumes in an APF authorized library is appropriate for the size and complexity of the library;
7. Correlate the libraries to a specific program product;
8. Check for anomalous libraries;
9. Review the access control lists to verify that security is appropriate.

Image FOCUS can detect, document, report on and monitor authorized and unauthorized changes to APF as part of its standard inspection process.

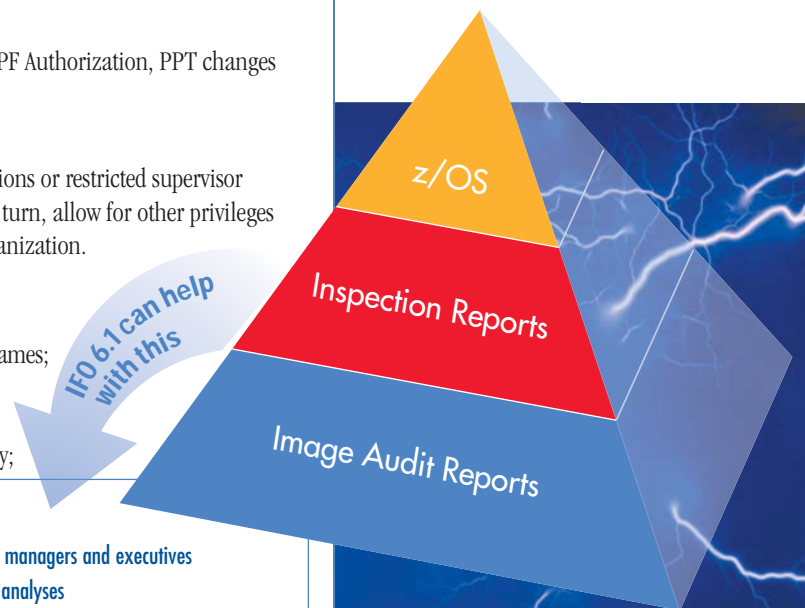
#### Auditors Don't Like

- Interviewing defensive or uninformed managers and executives
- Wading through piles of disorganized analyses
- Managers who can't or won't comprehend the level of risk they are incurring
- The opposite of the "like" items listed below:
  - Good management practices: planning, direction, monitoring, reporting, etc.
  - Proactive management, including frequent operational monitoring
  - Supervisory review of operating results (especially exception reports and analyses)
  - Organized, clear, and up-to-date documentation
  - Well-documented policies and procedures
  - Managerial actions based on facts, not habits
  - A documented chain of command, roles, accountability, and responsibilities
  - Consistent adherence to policy and procedures, from senior management through frontline staff
  - Good staff management, including workforce development
  - A balance between short- and long-term focus, for both objectives and results
  - Managerial willingness to embrace new ideas

Source: *Information Security - Practical guidance on how to prepare for successful audits*, IT Compliance Institute, 2006



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

The Image FOCUS product family can be downloaded from the NewEra website - [www.newera.com](http://www.newera.com).

For more information or to schedule a personal webcast, please call **800-421-5035** or email [info@newera.com](mailto:info@newera.com).



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### ***Image Audit Reports – PPT Report***

An exception to overt APF authorization is through the Program Properties Table (PPT). The PPT lists special privileges that Load Modules obtain. In addition to IBM's default list, other entries can be specified through the SCHEDxx Parmlib member. Standard settings can also be deactivated.

A typical audit of the PPT may include the following steps:

1. Browse SCHEDxx in parmliib or print it using IEBGENER;
2. Run RACF SYSPPPT;
3. Run AMASPZAP;
4. Translate the AMASPZAP report from EBCDIC to a human-readable language;
5. Decipher properties, storage keys, etc.

Image FOCUS can detect, document, report on and monitor authorized and unauthorized changes to PPT as part of its standard inspection process. Reports are generated in English, not EBCDIC or other machine language.

### ***Image Audit Reports – IEASYSxx Report***

IEASYS00 controls system initialization. Alternate members, named IEASYSxx, can override the default settings in IEASYS00. These members can contain two types of entries: parameters and directors (references to parameters). Image FOCUS aggregates these entries into a KEYWORD Report that denotes the status of this most critical member of SYS1.PARMLIB.

A typical audit of IEASYSxx may include the following steps:

1. Determine if the .L option has been used so results of the SYSLOG can be checked;
2. Review the SYSLOG for discrepancies (difficult to do if SYSLOG is incomplete);
3. Review the 28 directors for correctness;
4. Determine if backout member controls are in place;
5. Determine if a member with minimal parameters is available for emergency use;
6. Review the OPI=NO facility;
7. Determine if comments have fully documented all changes, reasons for change, the date and userid of the person making the change;

### **About 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.

8. Confirm that overrides to IEASYS00 are appropriate.

Image FOCUS can detect, document, report on and monitor authorized and unauthorized changes to IEASYS00 and IEASYSxx as part of its standard inspection process.

### ***Image Audit Reports – System Datasets***

Users need to effectively identify changes and/or anomalies in system datasets and the members that they contain. Source programs are often kept in system datasets. But system datasets do not automatically back up nor keep track of versions of the same member. Access control cannot be automatically assumed. Hundreds of datasets are common.

A typical audit of system datasets may include the following steps:

1. Review the written descriptions of procedures;
2. Review the associated documentation;
3. Randomly select programs in production to verify procedures and documentation;
4. Print the directories of all production Load module libraries to check for additions, deletions, changes in size. Determine if the documentation supports the findings.
5. Run AMASPZAP to determine if any undocumented changes have occurred;
6. Determine if AMASPZAP has been used in between audits;
7. If there is concern that documentation does not support the findings, perform a source Load comparison.

Image FOCUS can detect, document, report on and monitor authorized and unauthorized changes to system datasets by adding the functionality of an Image FOCUS Application, the Supplemental Inspectors to its standard inspection process.

### ***So the question on the table is Compliance – A Difficult Task – WHY?***

***You will find that with Image Audit Reports generated by Image FOCUS, compliance will no longer be a difficult task.***