



## IBM IMS Audit Management Expert for z/OS V1.2

### **IMS Auditing – who what, when, where, and how** September 8, 2009

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# OVERVIEW

- **IMS Audit Management Expert for z/OS**
  - Provides a comprehensive auditing solution that reduces the cost of compliance through automation, centralization, and segregation of duties
  - Simplifies the collection of audit data through automation
    - Reduces manual efforts and increases productivity
  - Provides centralization of the audit data by collecting and correlating data access information from a variety of IMS and SMF resources
    - Removes the difficulty of gathering data from multiple data sources by centralizing audit data
    - Auditors can easily get audit information while requiring fewer resources
    - Data from different sources is presented in a consistent way

# OVERVIEW

- **IMS Audit Management Expert for z/OS**
  - Allows for segregation of duties between auditors and DBA's
    - Increases the integrity of the audited data
    - Removes the opportunity for data tampering because reports are no longer provided by the personnel companies need to audit
  - Saves time and effort by eliminating manual auditing processes
  - Facilitates common auditing tasks
    - determining who updated a particular object
    - time frame
    - monitoring access to specific objects
  - Allows auditors to obtain information
    - without being defined as IMS users
    - work without extensive interaction with Data Base and System Administrators
    - Auditors will not be able to directly manipulate IMS resources

# IMS Audit Management Expert for z/OS

## ■ Data collection

- Collection and reporting of READ (GETS), INSERT, UPDATE and DELETE accesses to databases
- Ability to audit and report on READ, INSERT, UPDATE, and DELETE calls on specific database segments
  - READ and DELETE calls retain the concatenated key of the audited segment
  - UPDATE and INSERT calls retain the segment concatenated key as well as the segment data, as found in the DLI call I/O area

# IMS Audit Management Expert for z/OS

## ■ Data collection

- IMS Audit Management Expert Agent
  - Responsible for administrating the collection of data to be audited
  - The agent may collect data from
    - a single IMS system
    - multiple IMS systems that share a set of RECON datasets
    - multiple IMS systems using diverse RECON datasets
  - Populates the DB2 repository with audited data collected
  - Provides audit collection definition to the activity monitors and collectors
    - which databases / segments should be audited
    - the level of auditing that should be done
  - Agent communicates with the Activity Monitors and Data Collectors by using subtasks that execute in their own address spaces as started tasks

# IMS Audit Management Expert for z/OS

## ■ Data collection

### – IMS Online and Batch Activity Monitors

- Interface with the IMS DL/I language call analyzer module (DFSDLA0) and the IMS/VS/FP Inter-region Communications Controller (DBFIRC10)
- In an online IMS environment
  - the activity monitor is activated when an INIT call is made to the IMS logger Exit (DFSFLGX0)
  - remain active until a DFSFLGX0 TERM call is made
- In an IMS batch (DLI/DBB) environment
  - the activity monitor is activated when the IMS Batch exit (DFSISVI0) is called
  - remain active until the batch job terminates
- The IMS Online and Batch Activity Monitors communicate with the agent via an IMS Online and Batch data collector
  - Transports data to the agent using z/OS System log streams
  - Audited data from the batch and online monitors use individual and separate System log-streams to send data to the agent

# IMS Audit Management Expert for z/OS

## ■ Data collection

### – z/OS System Logger

- Used to collect audit data from IMS online and DLI/DBB batch jobs
- Must define structures and log streams for IMS Audit Management Expert to write audit data z/OS System Logger
  - Add CFRM structures
    - > DEFINE STRUCTURE  
NAME(AUE\_BATCH\_JRN)
    - > DEFINE STRUCTURE  
NAME(AUE\_ONLINE\_JRN)
  - Add log streams to the CFRM environment
    - > DEFINE LOGSTREAM  
NAME(AUE.BATCH.JRN)
    - > DEFINE LOGSTREAM  
NAME(AUE.ONLINE.JRN)
- Update Policy in CFRM (COUPLING FACILITY RESOURCE MANAGER)
- ACTIVATE THE POLICY
  - SETXCF START,POLICY,TYPE=CFRM,POLNAME=CFRMPOL1

# IMS Audit Management Expert for z/OS

## ■ Data collection

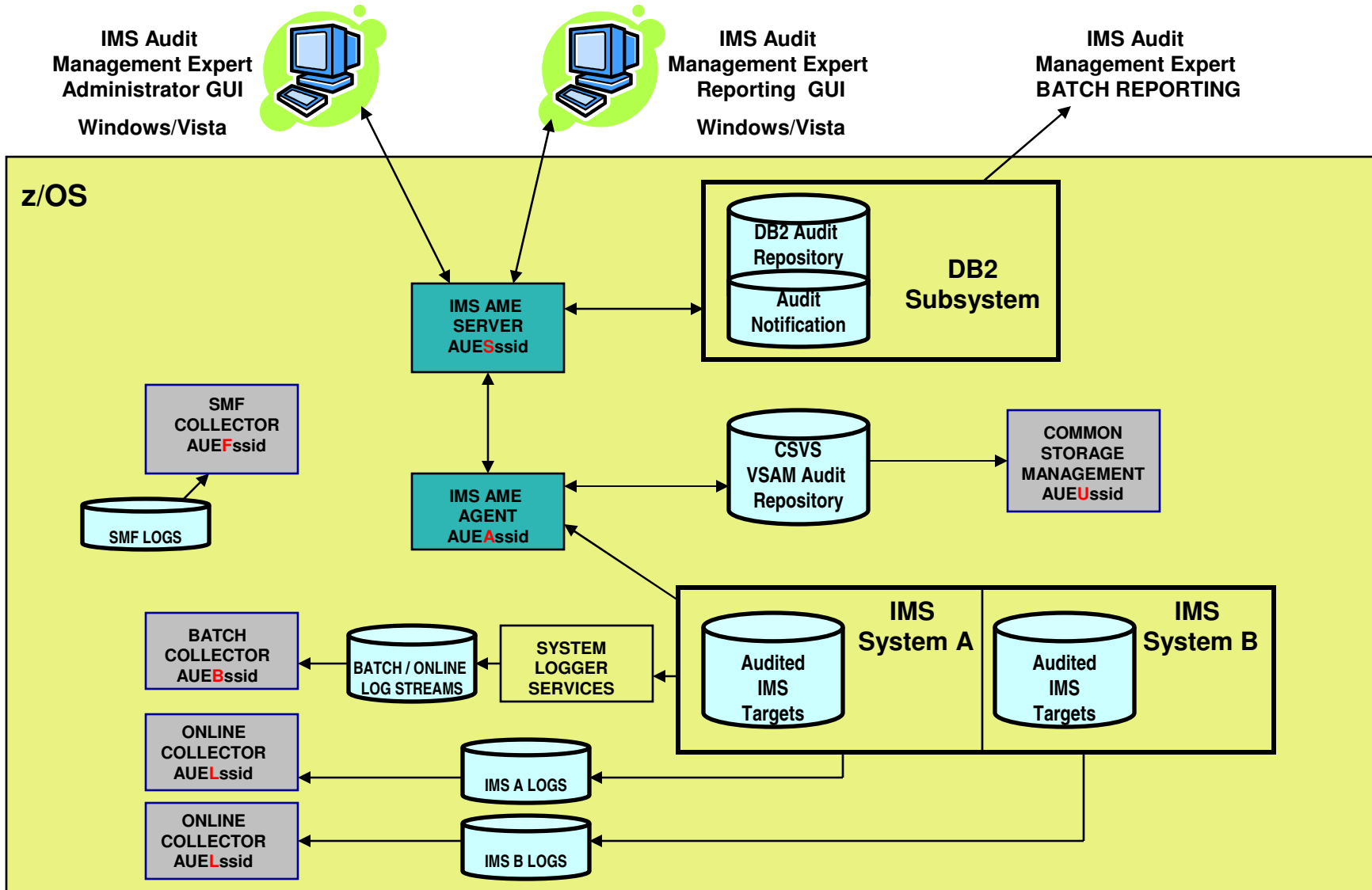
- IMS Online and Batch Data Collectors
  - Reads audited data from the log-streams, and present it to the agent ready for insertion into the DB2 repository
- IMS Archive Log Dataset Collectors
  - determines the IMS Archived Log datasets (SLDS) needed to be read in order to collect
    - IMS subsystem starts and stops
    - users signing on to an IMS subsystem
    - PSB and DBD status changes
    - DLI Get, Insert, Delete and Update activity at the database level
- SMF DUMP Data Collectors
  - reads a subset of SMF records from SMF DUMP datasets to determine if datasets associated with audited IMS databases were read, written, deleted or renamed outside the control of IMS
  - associated dataset type include database datasets, Image copy datasets IMS log datasets and RECON datasets
- Common Storage Management Utility
  - Not a collector
  - Provides the agent with a method of updating ECSA storage on all LPARS of a Sysplex from a single z/OS image
  - The ESCA storage contains audit criteria used by the IMS Online and Batch Activity Monitors and Data Collectors to determine which IMS systems are to be audited



# IMS Audit Management Expert for z/OS

- **The IMS Audit Management Expert Audit Repository**
  - DB2 Database
  - Stores IMS configuration data
    - Added/updated via Admin GUI
  - Stores audit data collected by the agent
    - Report GUI and Batch Reports display audit data from Repository
- **The IMS Audit Management Expert Server**
  - Central control point for IMS Audit Management Expert
  - Provides the connection for the Administration and Reporting GUIs
  - Runs functions to create summary reports of collected audit data
    - Summary Reports created at time interval set by configuration

# IMS Audit Management Expert Architecture



# IMS Audit Management Expert for z/OS

- **REPORTING of audit data**
  - GUI Reporting interface
    - Provides auditors with flexible options for examining the data in the audit repository
    - Summary and detail reports
    - Report filtering
    - Graphical and tabular reports
      - Export data grid values directly to Excel
      - Zoom data grid cells, to view data more easily
      - Search capability for data grid cells
  - Batch Reports
    - Generate reports by
      - USERID, DATABASE, SEGMENT, TRANCODE, PSB, JOBNAME
      - Date Range with STARTDATE, ENDDATE
      - Masking and control card omission allows desired report content
    - Provides capability to view segment concatenated key and segment data in it's raw format

# IMS Audit Management Expert for z/OS

## ■ **Automated audit notification**

- Exceptions exceeding CRITICAL or WARNING threshold values
  - Thresholds values are set by individual Report users
- Trigger Action
  - Email notification with message to selected email addresses
  - WTO to selected TSO USERids

# IMS Audit Management Expert for z/OS

- **Administration User Interface GUI**
  - Provides administrators with flexible control options
    - User management
    - Auditing profile management
      - Ability to define what will be targets of auditing
      - Ability to set auditing rules for different levels of auditing
      - Ability to filter auditing at the database level as well as segment level
      - The inclusion of PSBs within a rule, to audit all databases within the PSB at the database level
    - Reporting authorizations



# IBM IMS Audit Management Expert for z/OS V1.2

Report GUI sample



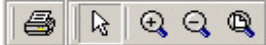
File Settings Help  
Log DB2 I92A SERVER  
◆ IMS AME Server  
Define Servers... Ctrl+D

# IMS AUDIT MANAGEMENT EXPERT

User Name   
Password

Login Disconnect Help

Disconnected



**IMS SYSTEMS**
DATASETS | AD HOC
IMS AUDIT MANAGEMENT EXPERT
Welcome barry

> Overview Subsystem
Go to...
Help

**Report Options:**

**Date Range:**

From: Calendar >

Month Starting: Sat, Aug 1, 2009

To: Calendar >

Month Ending: Mon, Aug 31, 2009

Last Summary Table Update: 08-10-2009 16:19

**Log Type:**

All ▼

**Set time period to check for Threshold:**

Every Hour  
 Every Day  
 Every Week  
 Every Month

No Filters applied

Filter Options...
Refresh

Edit Thresholds...
Collection History

Database Activity:		System Activity:	
a. First INSERT [IMS]	d. Get [IMS]	g. IMS STOP and START [IMS]	j. Database STOP and START [IMS]
b. First UPDATE [IMS]	e. Update [SMF]	h. IMS Users Sign-on and OFF	
c. First DELETE [IMS]	f. Read [SMF]	i. PSB STOP and START [IMS]	

**Normal**

**Warning**

**Critical**

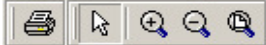
### Comparison of Activity count against Thresholds

**Subsystem I9A1**

Database Activity:		System Activity:	
a.	d.	g.	j.
b.	e.	h.	
c.	f.	i.	

> Available Dates: 2007-4-2 to 2009-8-10





IMS SYSTEMS
DATASETS | AD HOC
IMS AUDIT MANAGEMENT EXPERT
Welcome barry

Overview
>Subsystem
Subsystem Analytical
Go to...
Help

**Report Options:**

**Date Range:**

From: Calendar >  
Sat, Aug 1, 2009 Hour: 0

To: Calendar >  
Mon, Aug 31, 2009 Hour: 23

> Available Dates: 2007-4-2 to 2009-8-10

Last Summary Table Update: 08-10-2009 16:19

**Subsystem:**  
I9A1

**Log Type:**  
All

Filter Options... Edit Thresholds...

**Set time period to check for Threshold:**

Every Hour  
 Every Day  
 Every Week  
 Every Month

Export Data... Refresh

Chart Options... Display Colors...

**Summary Report for Subsystem: I9A1**

**Absolute Count of Activity:**

Category	Count
a.	35
b.	27
c.	35
d.	64
e.	236
f.	9
g.	4
h.	26
i.	1
j.	6

**Threshold Summary by Day:** ■ Critical ■ Warning ■ Normal

Category	Threshold Status
a.	2 (Normal)
b.	2 (Normal)
c.	2 (Normal)
d.	2 (Normal)
e.	2 (Normal)
f.	2 (Normal)
g.	2 (Normal)
h.	2 (Normal)
i.	1 (Normal)
j.	1 (Normal)

**Absolute Count of Activity By Day:** Linear  Log

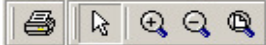
a. First INSERT [IMS]
  b. First UPDATE [IMS]
  c. First DELETE [IMS]
  d. Get [IMS]
  e. Update [SMF]
  f. Read [SMF]

g. IMS STOP and START [IMS]
  h. IMS Users Sign-on and OFF
  i. PSB STOP and START [IMS]
  j. Database STOP and START [I

Level2\_Users\_Subsystem -2.57 1.72 100%

File Reports Settings Help

Log in Reporting Audit Notifications



IMS SYSTEMS
DATASETS | AD HOC
IMS AUDIT MANAGEMENT EXPERT
Welcome barry

Overview
>Subsystem
Subsystem Analytical
Go to... Help

**Report Options:**

**Date Range:**

From: Calendar >  
Sat, Aug 1, 2009 Hour: 0

To: Calendar >  
Mon, Aug 31, 2009 Hour: 23

> Available Dates: 2007-4-2 to 2009-8-10

Last Summary Table Update: 08-10-2009 16:19

**Subsystem:**  
I9A1

**Log Type:**  
All

**Filter Options...** **Edit Thresholds...**

**Set time period to check for Threshold:**

Every Hour  
 Every Day  
 Every Week  
 Every Month

**Export Data...** **Refresh**

**Chart Options...** **Display Colors...**

### Summary Report for Subsystem: I9A1

**Absolute Count of Activity:**

Category	Count
a	35
b	27
c	35
d	236

**Threshold Summary by Day:** ■ Critical ■ Warning ■ Normal

Category	Threshold Status
a	Normal
b	Normal
c	Normal
d	Normal
e	Normal
f	Normal
g	Normal
h	Normal
i	Warning
j	Warning

**Absolute Count of Activity:**

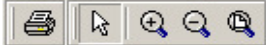
**Collection History**

- a. First INSERT [IMS]
- b. First UPDATE [IMS]
- c. First DELETE [IMS]
- d. Get [IMS]
- e. Update [SMF]
- f. Read [SMF]
- g. IMS STOP and START [IMS]
- h. IMS Users Sign-on and OFF
- i. PSB STOP and START [IMS]
- j. Database STOP and START [IMS]

Level2\_Users\_Subsystem -1.72 1.81 100%

File Reports Settings Help

Log in Reporting Audit Notifications



IMS SYSTEMS
DATASETS | AD HOC
IMS AUDIT MANAGEMENT EXPERT
Welcome barry

Overview
Subsystem
> Subsystem Analytical
Go to...
Help

**Report Options:**

**Date Range:**

From: Calendar >

Week Starting: Sun, Aug 9, 2009

To: Calendar >

Week Ending: Sat, Aug 15, 2009

> Available Dates: 2007-4-2 to 2009-8-10

**Subsystem:**

I9A1

**Log Type:**

All

**Graph Display (middle chart):**

Job

User

PSB Program Type

PSB Name

Database

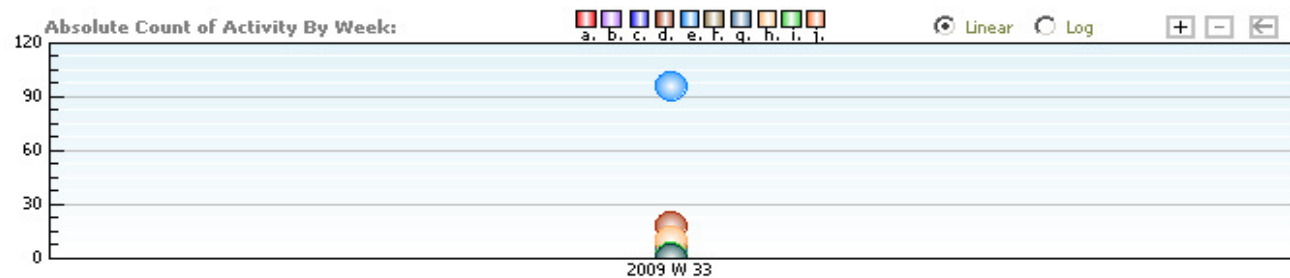
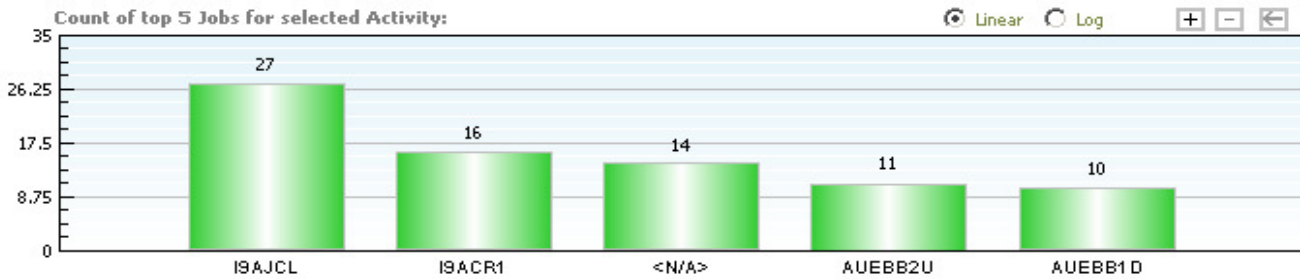
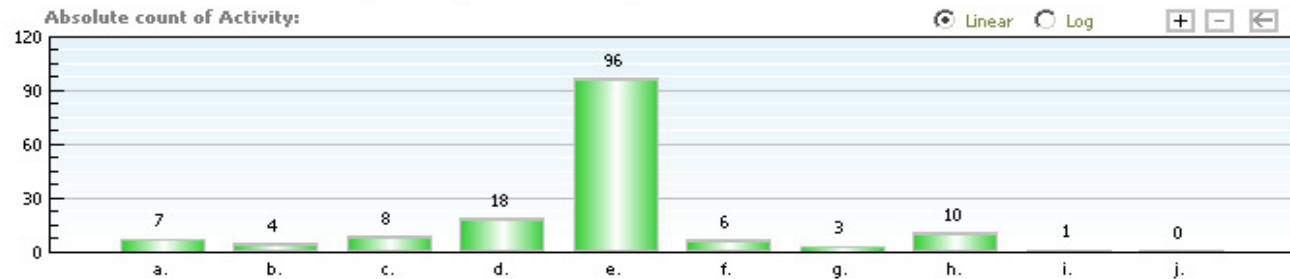
**Set time period to group by:**

Every Hour  
 Every Day  
 Every Week  
 Every Month

Export Data...
Refresh

Filter Options...
Display Colors...

### Analytical Report for Subsystem: I9A1

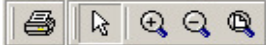


Level2\_Users\_SubsystemAnalytical

-3.61 0.25 100%

Connected to IMS AME Server Reporting

Current Reporting Client UTC Time: 8/12/09 2:03 PM



> Summary of DATASETS

Report Options:

Date Range:

From: Calendar >

Week Starting: Sun, Aug 9, 2009

To: Calendar >

Week Ending: Sat, Aug 15, 2009

> Available Dates: 2007-4-2 to 2009-8-10

Subsystem:

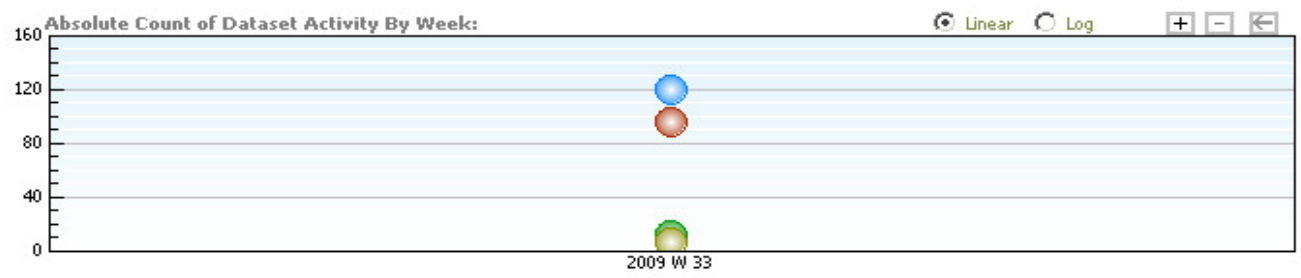
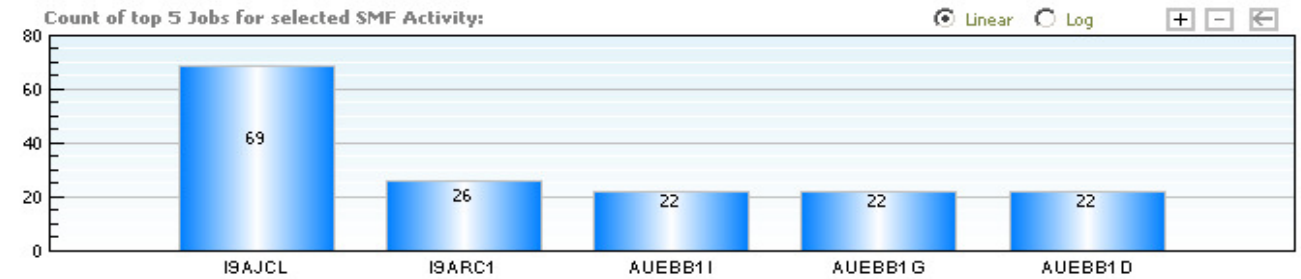
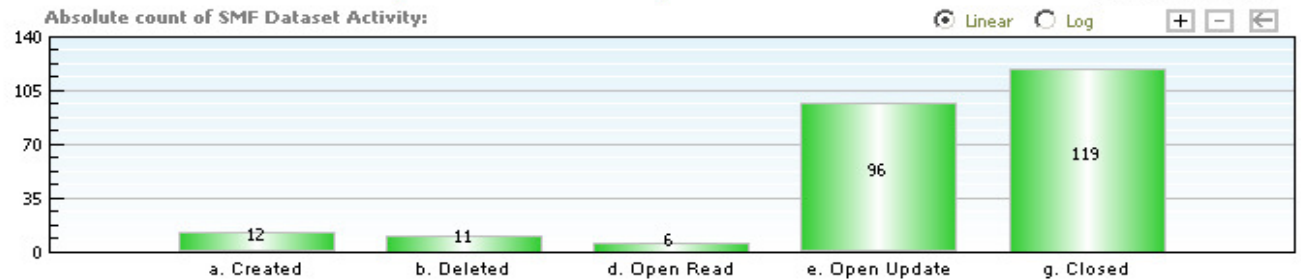
ISA1

Graph Display (middle chart):

- Job
- Job
- User
- Database
- Dataset
- Program Name
- Every Hour
- Every Day
- Every Week
- Every Month

Export Data...
Refresh  
Filter Options...
Display Colors...

Summary of Datasets for Subsystem: ISA1



Level2\_Users\_Datasets

-3.45 0.39 100%

Option

Record Count: 64

	EVENT_TYPE	START_TIME	END_TIME	IMS_SUBSYSTEM	SYSTEM_ID	JOB_NAME	JOB_NUMBER	?
<b>Display all columns</b>	IMS050	2009-08-06 21:00:47...	2009-08-06 21:00:5...	ISA1	AUEBB1G	AUEBB1G	JOB09348	G
Default SMF Columns	IMS050	2009-08-06 21:01:22...	2009-08-06 21:01:2...	ISA1	AUEBB1I	AUEBB1I	JOB09349	G
✓ Default IMS Columns	IMS050	2009-08-06 21:01:42...	2009-08-06 21:01:4...	ISA1	AUEBB1D	AUEBB1D	JOB09350	G
✓ ROW	IMS050	2009-08-06 21:02:06...	2009-08-06 21:02:1...	ISA1	AUEBB1U	AUEBB1U	JOB09351	G
✓ DESCRIPTION	IMS050	2009-08-06 21:02:52...	2009-08-06 21:03:2...	ISA1	AUEBB1U	AUEBB1U	JOB09352	G
✓ EVENT_TYPE	IMS050	2009-08-06 21:03:50...	2009-08-06 21:03:5...	ISA1	AUEBB1S	AUEBB1S	JOB09353	G
✓ START_TIME	IMS050	2009-08-06 21:13:13...	2009-08-06 21:13:1...	ISA1	AUEBB2I	AUEBB2I	JOB09358	G
✓ END_TIME	IMS050	2009-08-06 21:13:51...	2009-08-06 21:13:5...	ISA1	AUEBB2D	AUEBB2D	JOB09359	G
✓ IMS_SUBSYSTEM	IMS050	2009-08-06 21:14:06...	2009-08-06 21:14:1...	ISA1	AUEBB2U	AUEBB2U	JOB09360	G
✓ SYSTEM_ID	IMS050	2009-08-06 21:14:26...	2009-08-06 21:14:3...	ISA1	AUEBB2S	AUEBB2S	JOB09361	G
	IMS050	2009-08-06 21:16:14...	2009-08-06 21:16:4...	ISA1	AUEBB2U	AUEBB2U	JOB09364	G
	IMS050	2009-08-06 21:47:33...	2009-08-06 21:47:3...	ISA1	ISA1	ISAM11		RE
	IMS050	2009-08-06 21:47:57...	2009-08-06 21:47:5...	ISA1	ISA1	ISAM11		RE
	IMS050	2009-08-06 21:48:16...	2009-08-06 21:48:1...	ISA1	ISA1	ISAM11		RE
	IMS050	2009-08-06 21:48:21...	2009-08-06 21:48:2...	ISA1	ISA1	ISAM11		RE
	IMS050	2009-08-06 21:48:35...	2009-08-06 21:48:3...	ISA1	ISA1	ISAM11		RE
	IMS050	2009-08-06 21:48:37...	2009-08-06 21:48:3...	ISA1	ISA1	ISAM11		RE
	IMS050	2009-08-06 21:50:24...	2009-08-06 21:50:2...	ISA1	ISA1	ISAM11		RE
34 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:50:33...	2009-08-06 21:50:3...	ISA1	ISA1	ISAM11		RE
35 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:50:43...	2009-08-06 21:50:4...	ISA1	ISA1	ISAM11		RE
36 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:50:46...	2009-08-06 21:50:4...	ISA1	ISA1	ISAM11		RE
37 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:51:49...	2009-08-06 21:51:4...	ISA1	ISA1	ISAM11		
38 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:51:52...	2009-08-06 21:51:5...	ISA1	ISA1	ISAM11		
39 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:52:36...	2009-08-06 21:52:3...	ISA1	ISA1	ISAM11		RE
40 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:52:43...	2009-08-06 21:52:4...	ISA1	ISA1	ISAM11		RE
41 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:52:59...	2009-08-06 21:52:5...	ISA1	ISA1	ISAM11		RE
42 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:53:02...	2009-08-06 21:53:0...	ISA1	ISA1	ISAM11		RE
43 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:58:41...	2009-08-06 21:58:4...	ISA1	ISA1	ISAF11	JOB09329	IFF
44 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:58:47...	2009-08-06 21:58:4...	ISA1	ISA1	ISAF11	JOB09329	IFF
45 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:58:58...	2009-08-06 21:58:5...	ISA1	ISA1	ISAF11	JOB09329	IFF
46 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-06 21:59:05...	2009-08-06 21:59:0...	ISA1	ISA1	ISAF11	JOB09329	IFF
47 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-10 15:11:51...	2009-08-10 15:11:5...	ISA1	ISA1	ISAM11		RE
48 SEG GET CALL (IMS050 - 70)	IMS050	2009-08-10 15:12:13...	2009-08-10 15:12:1...	ISA1	ISA1	ISAM11		RE

**Report Filter for Subsystem: Level2: Subsystem I9A1**

**Report Filter**

- Filters
  - Databases (AND)
    - Included
    - Other
  - Detailed - IMS (AND)
  - Detailed - SMF (AND)
  - Job Name (AND)
  - PSB Name (AND)**
  - Included
  - Other
  - PSB Program Types (AND)
    - Included
    - Other
  - User ID (AND)
  - Filter Summary

Hide Unused And Disabled Filters

Only Display Universal Filters

Connector:  And  Or

Available PSB Name

<N/A>	Add
ALL	
DFSIVP1	
DFSIVP2	
DFSIVP3	
DFSIVP4	
DFSIVP6	
DFSIVP7	
DFSIVP9	
DFSIVPC	

Back  
Next

Filter Available PSB Name

Operator:  Is  Is Not

Starting With ▼

Refresh

Other Options:

Populate Available List At Load Time

Do Not Use This Filter

Use This Filter On All Reports (Universal Filter)

PSB Name Filter:

Selected PSB Name

Include  Exclude

Remove  
Remove All

---

Other PSB Name Options:

Remove  
Remove All

Connector:  And  Or

Operator:  Is  Is Not

Starting With ▼

Add

Font Clear Cancel OK Help

File Settings Help

Log in Reporting **Audit Notifications**

Notifications:

Name	Description	Type	Created	Owner	Next Scheduled	Notification Enabled	Subsystem	Time Range From	Time Range To	Run Count	Critical Count	Warning Count
barry1	first notificatio...	Standard	7/20/09 8:43...	barry	7/20/09 9:00...	<input checked="" type="checkbox"/>	All Subsystems	4/1/07 12:00...	8/1/09 12:00...	15	6	7
barry1	test on reads	Standard	7/23/09 9:39...	barry	7/24/09 8:00...	<input checked="" type="checkbox"/>	All Subsystems	7/1/09 12:00...	8/1/09 12:00...	1	1	0
barry3	test the good ...	Standard	7/30/09 12:4...	barry	7/31/09 8:00...	<input checked="" type="checkbox"/>	All Subsystems	7/26/09 12:0...	8/2/09 12:00...	0	0	0

Quick Filter

Name like  Refresh

- Show All Notifications
- Show only enabled Notifications
- Show only disabled Notifications
- Show only Notifications with warnings

Selected Notification History

Run Date	Result	Duration (Seconds)	Time Range From	Time Range To	Messages
8/10/09 9:49 AM	Critical	2	4/1/07 12:00 AM	7/31/09 11:59 PM	1
8/7/09 7:57 AM	Critical	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
8/6/09 4:29 PM	Critical	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
8/6/09 1:48 PM	Critical	2	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/30/09 10:54 AM	Critical	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/29/09 7:05 PM	Critical	16	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/27/09 9:26 AM	Warning	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/24/09 7:35 AM	Warning	3	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/23/09 1:33 PM	Warning	3	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/23/09 8:50 AM	Warning	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/22/09 5:08 PM	Warning	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/22/09 3:35 PM	Warning	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/21/09 9:58 AM	Warning	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/20/09 5:04 PM	Normal	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1
7/20/09 9:00 AM	Normal	1	4/1/07 12:00 AM	7/31/09 11:59 PM	1

[View Graphical Report...](#)

[View Messages...](#)

[Delete](#)

Create Notification

Clone Notification

Enable Notification

Disable Notification

View Notification

Delete Notification

Run Notification...

Current Notification Server Time: 8/10/09 5:06 PM

Current Reporting Client UTC Time: 8/10/09 9:06 PM

Connected to IMS AME Server Audit Notifications



## IBM IMS Audit Management Expert for z/OS V1.2

Administration GUI sample  
Configuration of IMS, Agent and Collections



File Edit Settings Help



- DB2 I92A SERVER
- ◆ IMS JME Server
- Define Servers... Ctrl+D
- Automatic Discovery... Ctrl+M

# AUDIT MANAGEMENT EXPERT



User Name

Password

Login

File Edit Settings Help

Users Groups IMSs Agents Collection Profiles Collections Authorizations Repository

Profile Name	Description	Last Modified	Active Collections
19A1 DEMO PROFILE	DEMO	2009-07-17 09:09:28	1



Add

Edit

Clone

Delete

Refresh

**Collection Profile Editor**

19A1 DEMO PROFILE

- Rule 1
  - Databases
  - Segments
  - Events
  - PSBs
- Summary

Provide a name and optional description for this collection profile. The name must be unique to this profile. Later steps provide the opportunity to specify what is to be audited by this collection profile.

Profile Name: 19A1 DEMO PROFILE

Description: DEMO

Source: 19A1

The source will serve as a template for the profile. Quantities from the selected data source will be used to determine what choices for fields within the profile are presented.

OK Cancel

ISA1 DEMO PROFILE

- ▼ Rule 1
  - ▢ Databases
  - ▢ Segments
  - ▢ Events
  - ▢ PSBs
  - ▢ Summary

Databases

Target Filter

Database \*

Refresh

Known targets

Type	Database
<input type="checkbox"/>	DBFSAMD3
<input type="checkbox"/>	DBFSAMD4
<input type="checkbox"/>	DI21PART

Add >

< Remove

« Remove All

Other targets

Type Database

Add Other

Audited targets

Type	Database
<input type="checkbox"/>	IVPDB1
<input type="checkbox"/>	IVPDB11
<input type="checkbox"/>	IVPDB2
<input type="checkbox"/>	IVPDB3

OK

Cancel

ISA1 DEMO PROFILE

- ▼ Rule 1
  - Databases
  - Segments
  - Events
  - PSBs
  - Summary

Segments

Target Filter

Database \*

Segment \*

Refresh

Known targets

Type	Database	Segment
	DBFSAMD3	CHCKSEGM
	DBFSAMD3	CHCKTRSG
	DBFSAMD3	CURRSEGM
	DBFSAMD3	CURRTRSG
	DBFSAMD3	CUSDEPSG
	DBFSAMD3	CUSTADDR
	DBFSAMD3	CUSTROOT
	DBFSAMD3	SAVESEGM
	DBFSAMD3	SAVETRSG
	DBFSAMD4	CUSTROOT
	DBFSAMD4	LOANSEGM
	DI21PART	BACKORDR
	DI21PART	CYCCOUNT
	DI21PART	PARTROOT
	DI21PART	STANINFO
	DI21PART	STOKSTAT

Add >

< Remove

« Remove All

Other targets

Type	Database	Segment

Add Other

Audited targets

Type	Database	Segment
	IVPDB1	A1
	IVPDB3	A1111111
	IVPDB2	A1111111
	IVPDB1	A1111111
	IVPDB3	DSEGM2

OK

Cancel

ISA1 DEMO PROFILE

- Rule 1
  - Databases
  - Segments
  - Events**
  - PSBs
- Summary

Segments

Type	Database	Segment	All Events	Insert	Update	Delete	Read	Capture Data
	IVPDB1	A1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IVPDB3	A1111111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IVPDB2	A1111111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IVPDB1	A1111111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	IVPDB3	DSEGM2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



OK

Cancel

ISA1 DEMO PROFILE

- Rule 1
  - Databases
  - Segments
  - Events
  - PSBs**
  - Summary

PSBs

Target Filter

PSB \*

Refresh

Known PSBs

- DFSIVPA
- DFSIVPB
- DFSIVPC
- DFSIVP1
- DFSIVP2
- DFSIVP3
- DFSIVP31
- DFSIVP32
- DFSIVP33
- DFSIVP34
- DFSIVP35
- DFSIVP37
- DFSIVP4
- DFSIVP5
- DFSIVP6
- DFSIVP61
- DFSIVP62
- DFSIVP64
- DFSIVP65
- DFSIVP67
- DFSIVP7

Add >

< Remove

<< Remove All

Other PSBs

Add Other >

Included PSBs

- DBFSAMP1
- DBFSAMP2
- DBFSAMP3
- DBFSAMP4
- DBFSAMP5
- DBFSAMP6
- DFHSAM04
- DFHSAM05
- DFHSAM14
- DFHSAM15
- DFHSAM24
- DFHSAM25

OK

Cancel

19A1 DEMO PROFILE

- ▼ Rule 1
  - Databases
  - Segments
  - Events
  - PSBs
  - Summary**

## Profile Summary

### 19A1 DEMO PROFILE for IMS on z/OS

DEMO

#### Rule 1

#### Audited Databases

- IVPDB1
- IVPDB1I
- IVPDB2
- IVPDB3

#### Audited Segments

Segment	Database	Audit insert	Audit update	Audit delete	Audit read	Audit capture data
A1	IVPDB1I	true	true	true	true	true
A1111111	IVPDB3	true	true	true	true	true
A1111111	IVPDB2	true	true	true	true	true
A1111111	IVPDB1	true	true	true	true	true
DSEGM2	IVPDB3	true	true	true	true	true

OK

Cancel





# IBM IMS Audit Management Expert for z/OS V1.2

## Questions

