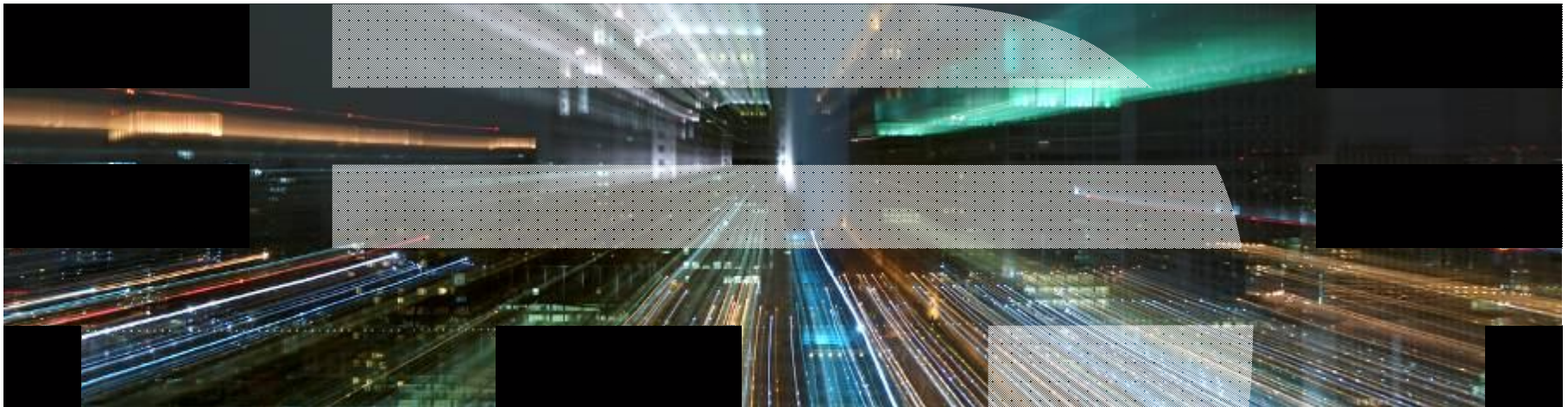


IMS Tools Autonomics and Modernization

Bob Magid, IMS Tools Architect

Chris Holtz, IMS Tools Modernization Architect



Agenda

- Why Autonomics and Modernization?
- IMS Tools Vision
- All-in-One Solutions
 - IMS Database Solution Pack
 - IMS Fast Path Solution Pack
- IMS Tools Autonomics Director
- IMS Tools Administration Console
- Summary
- Questions and Discussion



Why Autonomics and Modernization?

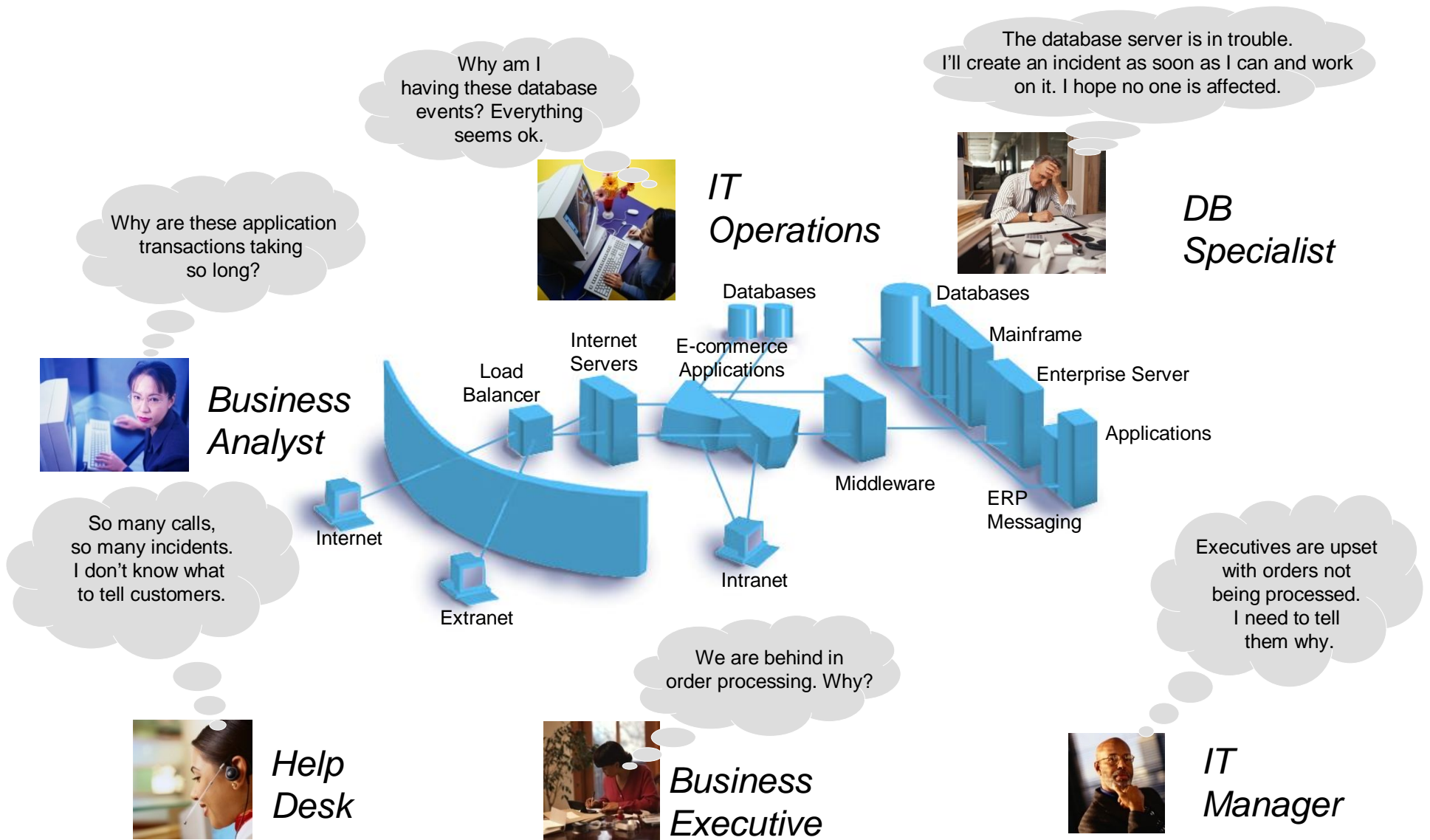
Now more than ever, business challenges demand it

- Unanticipated problems can result in downtime and loss of revenue
- Increased burden of system management and maintenance
- Problem determination is time and resource intensive
 - Expert skills are often spent determining when a problem took place rather than figuring out how to fix it
- DBA resources are dwindling
 - Expert skills are wasted on repetitive tasks
- Time and resources are not available for developing new applications, pursuing new technologies, and growing business

“The information technology industry is obliterating barriers and setting records with astonishing regularity, but now we face a problem springing from the very core of our success....More than any other IT problem, this one, if it remains unsolved, will actually prevent us from moving to the next era of computing. The obstacle is complexity.”

— Paul Horn, Senior Vice President, Research, IBM

When problems do occur, the impact can be extensive



User Interface Modernization is Critical



- Modern graphical user interfaces:
 - Provide a richer user experience and can convey more information
 - Reduce the need for IMS or Z specific knowledge
 - Shorten the IMS learning curve for new DBAs
 - Enable deeper integration between tools and across platforms

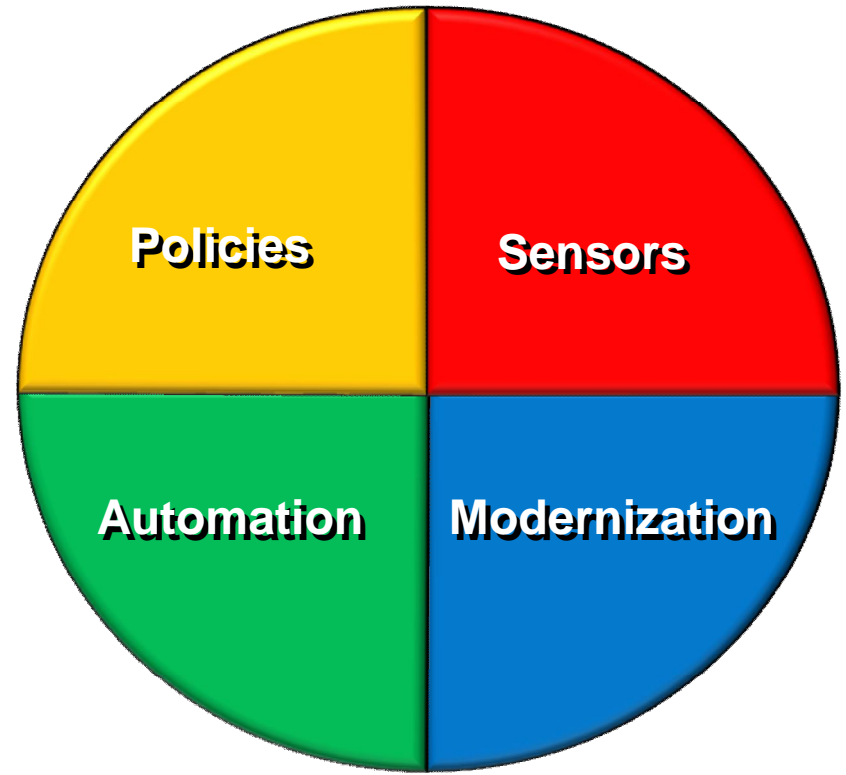
What we're doing

- Leap ahead to graphical user interfaces for IMS
 - Focus on web-based interfaces
 - Exploit the latest relevant technologies
 - Allow access from anywhere via the Internet

IMS Tools Vision



Putting information to work

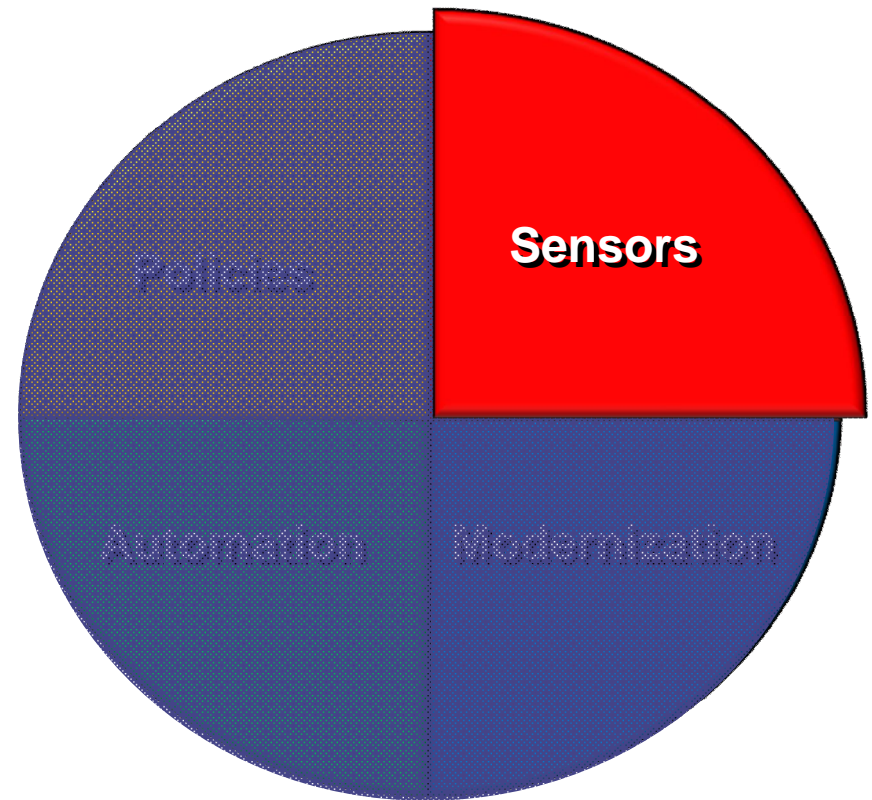


IMS Tools Vision



Putting information to work

Gather database statistics at regular intervals for your environment – e.g. space utilization, fragmentation, and optimization

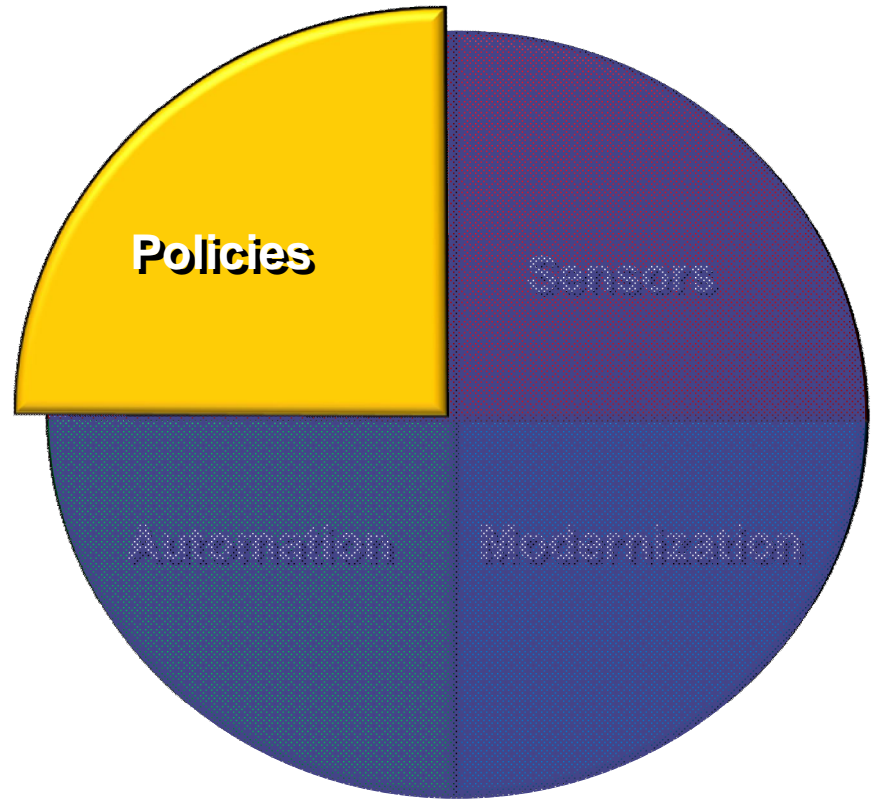


IMS Tools Vision



Putting information to work

User-defined policies and thresholds to determine when exceptions should be triggered and notifications should be sent

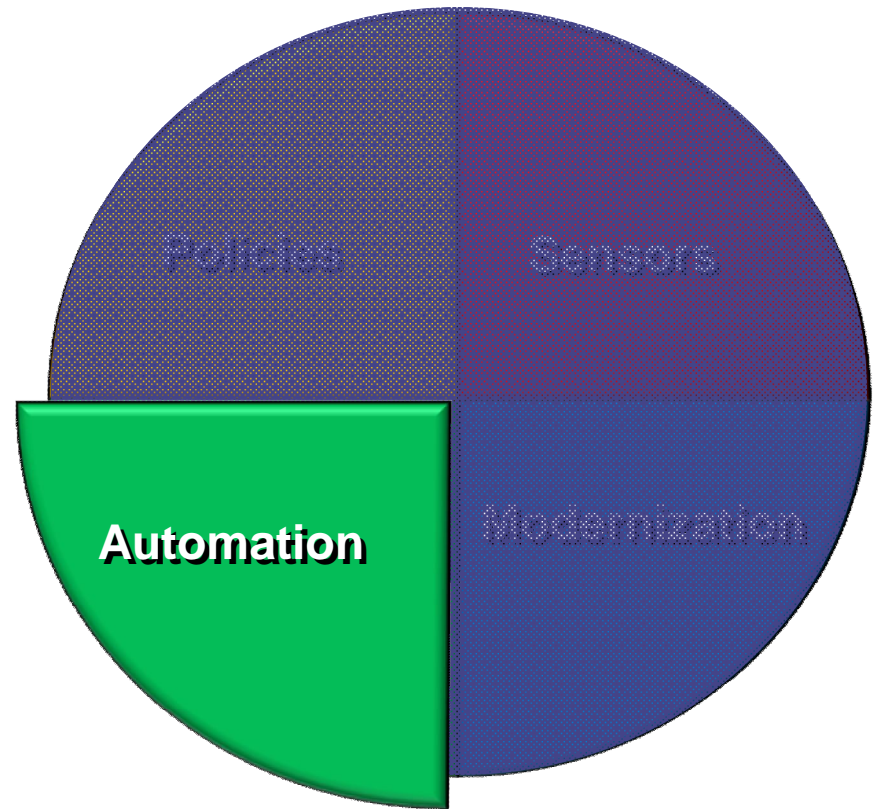


IMS Tools Vision



Putting information to work

Recommending and taking corrective actions based on the exceptions that are raised when thresholds are reached

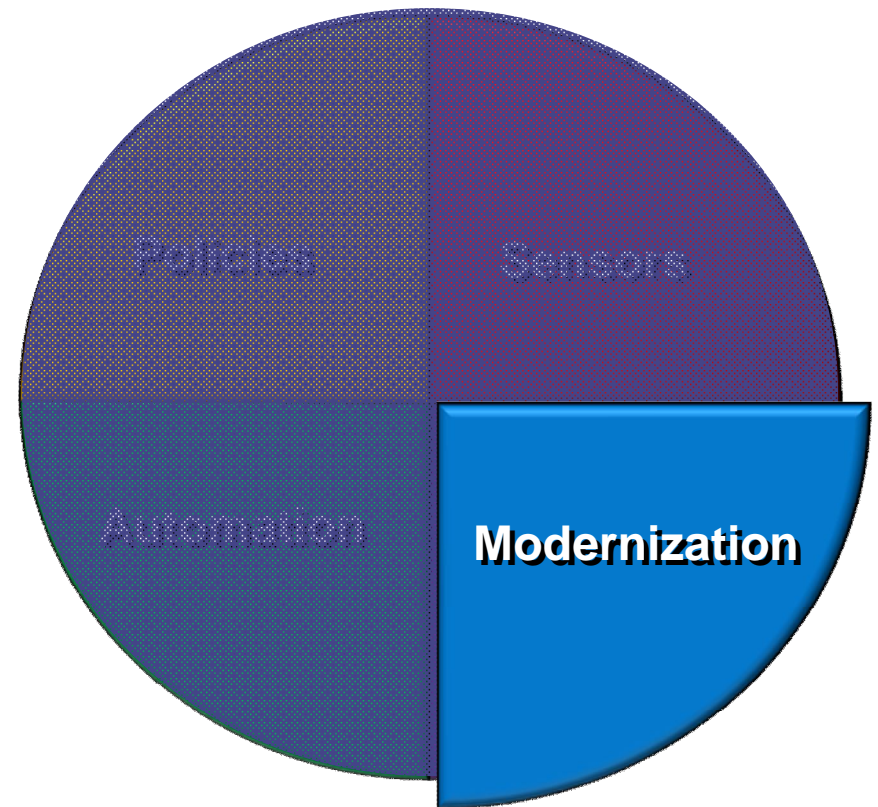


IMS Tools Vision



Putting information to work

Performing all of these actions from a rich, web-based user interface that is easy to install and access



Putting it all Together: IMS Tools Solution Packs

- High performance IMS Tools help you perform your IMS database management tasks – providing full end-to-end solutions
- A full suite of IMS Tools to help with:
 - Full-function database maintenance
 - Fast Path database maintenance
 - Recovery
 - Performance and tuning
- Built on our vision, built for you
 - Easier to install
 - Easier to maintain
 - Increased integration
 - Automated
 - Modern
 - Built to fit any size shop



Our Newest Offerings!

- IMS Database Solution Pack 1.2 and IMS Fast Path Solution Pack 1.2
 - Already announced
 - October 11, 2011
 - Available this December
 - December 9, 2011
- Customer value
 - Provides a full set of tools for maintaining and managing your IMS full-function and Fast Path databases
 - Includes important High Performance utilities
 - Utilizes Sensors, Policies, Automation, and Modernization
 - Delivers on the IMS Tools vision



IBM Tools Base for z/OS

- A prerequisite for all IMS Tools Solution Packs
- Contains all the common infrastructure components, including the IMS Tools Knowledge Base, for enabling autonomies and next-generation UIs
- IMS Tools Knowledge Base repository holds the information to help you make expert decisions
 - Sensor Data
 - Policy Services
 - Reports
- No charge PID
 - Program number: 5655-V93
 - IBM Tools Base for z/OS 1.3



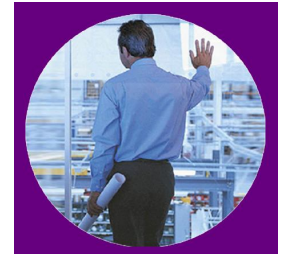
Sensors: Collecting the Basic Information You Need

- Statistical point-in-time sensor data
 - Stored in IMS Tools Knowledge Base repository
 - Historically maintained per user specifications
 - Over 60 separate data elements related to space usage, optimization, and fragmentation
 - E.g. data set extents, DASD volume usage, data set free space, roots distribution, RAP usage, CI/CA splits, and IMS free space
- Two methods of collection:
 - Standalone database Sensor utilities for full-function and Fast Path databases
 - Integrated with existing IMS Tools
- Integrated Tools support
 - High Performance Image Copy, High Performance Pointer Checker
 - Fast Path Analyzer, Fast Path Online Pointer Checker

Policies: Using Sensor Data to Help Make Decisions

- Policy definitions are used to evaluate specific database states
 - E.g. the state of space utilization at a specific instance in time
 - Threshold values are compared against sensor data for a given database or group of databases
 - When thresholds are met or exceeded, exceptions occur
- Works “out of the box”
 - Ships with predefined policies and threshold values
 - Full ISPF interface provided for policy management
- Customizable to fit your shop
 - You can define your own sets of threshold values
 - Customize the messages sent when exceptions do occur
 - Specify who receives which messages and how
 - WTO, e-mail, or text

Automation: Delivering on our Vision



IMS Tools Autonomics Director

- Passive autonomics for IMS databases
- Automates ongoing database monitoring and maintenance tasks based on a detailed understanding of the current state of your IMS databases
- Recommends when databases should be reorganized
- Provides a scheduling feature that allows you to control how frequently sensor data is collected and how frequently policies are evaluated

Customer value

- Help prevent problems before they occur
 - Higher availability and performance through optimally organized data
- Consistent and reliable monitoring of database status
 - Regular collection/evaluation at predefined intervals

Automation: Delivering on our Vision



- Simplify ongoing database monitoring and maintenance tasks
 - Relieve the day-to-day burden on IMS DBAs
 - Reduce analysis overhead by generating recommended actions
 - Reduce the skill set that is required to analyze database status
- Efficient use of system resources through integration with existing IMS Tools
 - Collect information about database status in conjunction with IMS Tools execution
- Historical collection of database status for growth and trends projections
 - Synergy with the new IMS Administration Console
- Get you up and running quickly
 - Simple to install and customize
 - One-time set up
 - Easy to use

Autonomics Director Overview



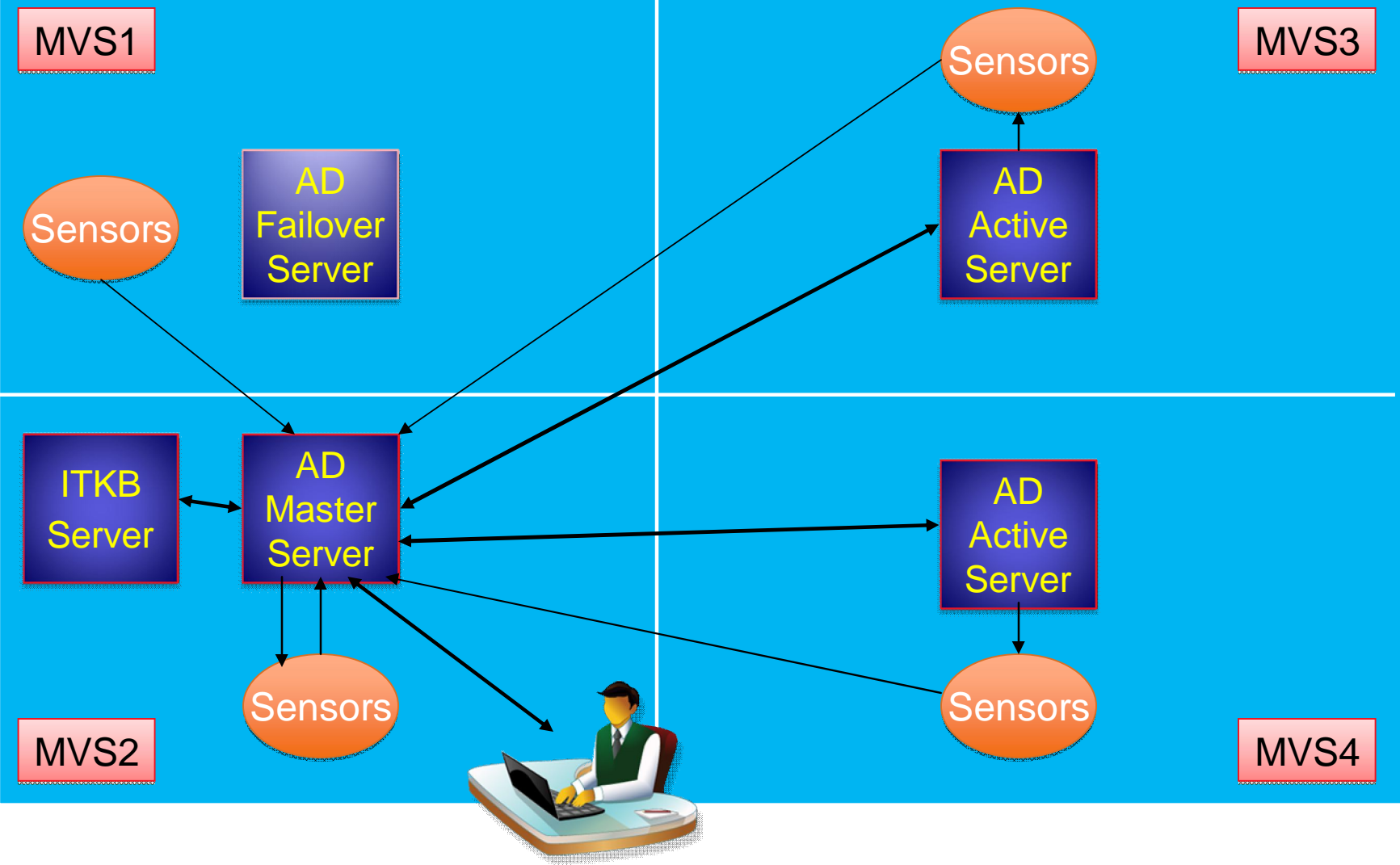
- Automatic collection of Sensor data
 - Integrates with IMS Tools image copy and pointer checker processes
- On Demand collection/evaluation for immediate issues
 - “I have a problem and need the information now!”
- Automatic analysis and evaluation of database status
 - Based on user-defined policies and thresholds
- Recommendation for reorganization
 - Easy to understand: simple “yes” or “no”
- E-mail or text notification when a reorganization is recommended
 - Alert DBA to consider taking action
- Flexible scheduling around peak workloads
 - Doesn't interfere with production throughput or response

Autonomics Director Overview

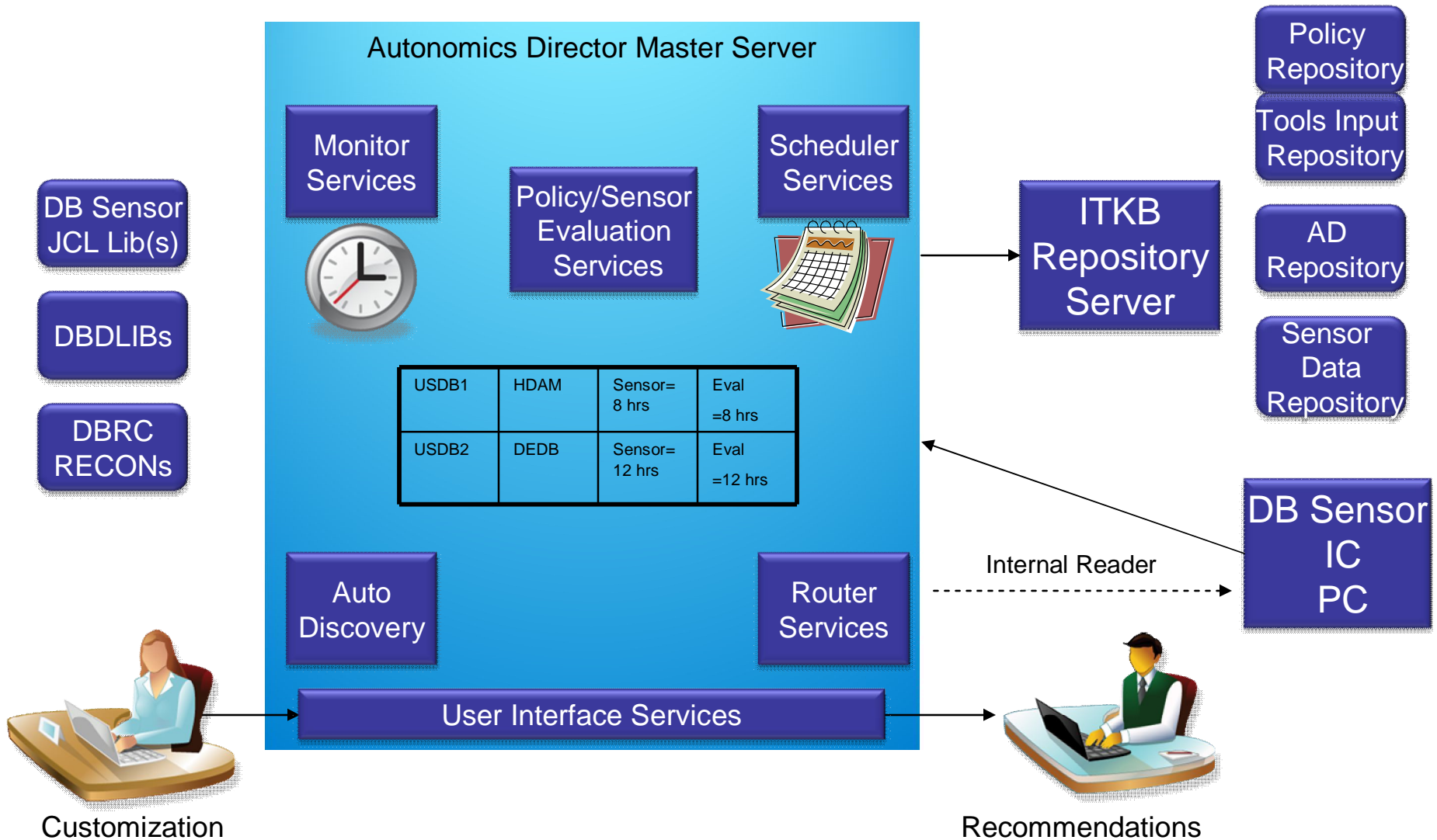


- Works with existing job schedulers
- Exploits the power of IMS sysplex
 - Redundant servers for highest levels of availability
 - Spreads data collection/tools workload based on system capacity and status
- Easily customized for groups or individual databases
 - Auto-discovery of databases and existing database groups
 - User-defined groupings: “These are the databases that I’m responsible for”
 - Group-assigned defaults propagate to individual databases
- Intuitive user interfaces for all users
 - Full ISPF interface
 - Integrates with new IMS Administration Console for viewing database status on the web
- Available with upcoming release of IBM Tools Base Pack
 - No charge product

Autonomics Director Configuration



Autonomics Director Process Flow





Customization Highlights

- Auto-discovery feature simplifies customization
 - Define DBD libraries and DBRC RECONs in Knowledge Base repository
 - Awareness and presentation of databases and DBRC groups
 - Menu and selection list driven from this point
- Individual databases
 - Specify monitoring parameters
 - Evaluation Interval, Sensor Data maximum age, Sensor job stream data set
 - Policy by generic database type, database name, policy name
- Group support
 - All DBRC group types supported
 - HALDB databases and partitions
 - Fast Path DEDBs and areas
 - Group expanded to include all members
 - “Add Group” line command
 - Group parameter specifications are propagated to all defined members

Sensor Data Collection Highlights



- Automatic scheduling
 - Automated or On Demand through Autonomics Director
 - Periodic Basis in days, hours, and minutes
- External scheduling
 - Through job scheduler
 - Manual submission
- Notification
 - Sensors notify Autonomics Director of new sensor data
 - Drives automatic analysis, evaluation, and recommendations

Evaluation Highlights



- Based on user-defined policies
 - IMS Tools Policy Services
 - Policy selection based upon database type, name, or policy name
 - Robust threshold criteria based on key status indicators
- Results and recommendations
 - Retained in repository
 - Historically maintained based on user specifications
 - Accessible via ISPF or web interface
 - Optional email or text alerts

Recommendations

```
Menu View Help
-----
Autonomics Director Monitor List Entries      Row 1 to 9 of 9
Command ==>                                  Scroll ==> PAGE

Locale . . . : $IMSV12          Group type . : DATABASE

Row Actions:  S - View the database attributes
              V - View recommendations
              X - Select a database, partition, area for scheduling on demand
              H - View evaluation history

Action Reorg Sev DBDName  PartName Eval-Date  Eval-Time  Snsr-Date  Snsr-Time
v_      N      C   ORDDB                Sep 23, '11 08:00:03  Sep 23, '11 08:00:02
_       N      C   DBFSAMD3 HOSPIID  Sep 14, '11 20:00:11  Sep 14, '11 20:00:08
        N      C   DBFSAMD3 HOSPIIC  Sep 14, '11 20:00:11  Sep 14, '11 20:00:08
        N      C   DBFSAMD3 HOSPIIB  Sep 14, '11 20:00:11  Sep 14, '11 20:00:08
        N      C   DBFSAMD3 HOSPIIA  Sep 14, '11 20:00:11  Sep 14, '11 20:00:08
        N      C   DBFSAMD2 HOSPITD  Sep 19, '11 19:00:07  Sep 19, '11 19:00:05
        N      C   DBFSAMD2 HOSPITC  Sep 19, '11 19:00:06  Sep 19, '11 19:00:05
        N      C   DBFSAMD2 HOSPITB  Sep 19, '11 19:00:06  Sep 19, '11 19:00:05
        N      C   DBFSAMD2 HOSPITA  Sep 19, '11 19:00:06  Sep 19, '11 19:00:05
***** Bottom of data *****
```

Recommendations

```
Autonomics Director Evaluation Run Information
Command ==>

Locale . . . . . : $IMSV12

Enter S to view evaluation run exceptions . . . . S _

Database name . . . . . : ORDDB
Partition name . . . . . :
Database type . . . . . : HDAM
Access method . . . . . : OSAM

Status . . . . . : DB EVALUATION Completed
Return code . . . . . : 00000000
Reason code . . . . . : 00000000
Reorganization needed . . . . . : N
Severity . . . . . : C
Sensor data from date / time . . . . : Sep 23,'11 / 08:00:03
Evaluation run date / time . . . . . : Sep 23,'11 / 08:00:03

Policy by . . . . . : DBTYPE
Policy name . . . . . : SYS.DBDTYPE.HDAM
```


Recommendations

```
Menu Utilities Compilers Help
-----
BROWSE      USRT002.ECDBT09.IMSAD.CMDOUT1      Line 00000021 Col 001 080
Command ==> _                               Scroll ==> HALF
Exceptions
-----
The number of available extents for a data set of ORDDB is small
  Class: DATA_SET_EXTENTS_AVAILABILITY      Level: CRITICAL
  Rule: G:IBM.DBDS_EXTENTS.10      Threshold Set: HIGH
                                       Action: MESSAGE

Overflow data in ORDDB has increased
  Class: EXCESSIVE_HDAM_OVERFLOW      Level: SEVERE
  Rule: G:IBM.HDAM_OVERFLOW.10      Threshold Set: MED
                                       Action: MESSAGE

The number of roots not in their home blocks in ORDDB has increased
  Class: EXCESSIVE_HDAM_ROOTS_NOT_HOME      Level: CRITICAL
  Rule: G:IBM.ROOTS_NOTHOME.10      Threshold Set: HIGH
                                       Action: MESSAGE

A data set of ORDDB has many pointers that point to other blocks or CIs
  Class: EXCESSIVE_SEGMENT_SCATTERING      Level: CRITICAL
  Rule: G:IBM.SEGM_SPREAD.10      Threshold Set: HIGH
```

Recommendation Alerts



EMAIL - EXCEPTION MESSAGE:

IMS Tools Autonomics Policy Notification

IMS_Tools

to:

User Name

07/25/2011 12:27 PM

Data Base Team

HFP2930I The average number of I/Os per root segment exceeded a threshold in area DEDBDBA1.

IBM Tools Modernization (IMS Administration Console)

The screenshot displays the IBM Tools Base Administration Console for z/OS, showing a comprehensive view of database management and monitoring. The interface is organized into several key sections:

- Navigation and Search:** A top navigation bar includes "Welcome", "Resources", and "Reports". A search bar is located at the top left of the main content area.
- Resource View:** A tree view on the left shows a hierarchy of resources, including "Group Closed", "Critical Databases", and a list of databases from DBABC001 to DBABC009, along with "Data Set" and "Other Databases".
- Database Properties:** A panel for "DBABC002" displays details such as Database Name, DBD Type (HDAM), Segment levels (15), Segment types (255), External DBDs (4), Logical children (5), Data set groups (10), and Access type (VSAM).
- Exceptions:** A panel titled "As of May 27, 2011 5:48PM" shows a list of alerts, including "Critical (1)", "Severe (3)", and "Warning (4)", with specific details for each.
- Reports:** A panel lists various reports generated on "December 15, 2011 (12)", such as "HI500 - Job# 1079 (5)", "2:32PM - Diagnostic Report", "2:31PM - Free Space Report", "2:30PM - Interval Stats Rep", "2:30PM - DB Record Dist", and "2:30PM - Interval Free Space".
- Performance Charts:** Three charts are displayed at the bottom:
 - Space Usage:** A bar chart titled "Available Data Set Extents" for "CUSTPAB", comparing "DB NUM AVAIL EXT 1" (yellow) and "DB NUM AVAIL EXT 2" (pink) against a "Critical Threshold" (red line).
 - Optimization:** A line chart titled "Synonym Roots" showing a trend over time from 10:00 to 15:00.
 - Fragmentation:** A bar chart titled "Variable Length Segment Splits" showing the number of splits for five different items (Item 1 to Item 5) against a "Threshold" (orange line).

Modernization: Breaking New Ground

- IMS Tools Administration Console
 - Integrates key IMS information into a single, intuitive, web interface
 - Presents exception notifications and recommended resolutions
 - Presents historical data about database space usage, optimization, and fragmentation in interactive, graphical charts

- Customer value
 - Easily manage databases by exception and take action only when necessary
 - Rapidly interpret database statistics to find opportunities for performance tuning
 - Shorten the IMS learning curve for new DBAs



IMS Administration Console Goals

- Provide a holistic view of your IMS databases from a single, easy-to-use web interface
 - Dynamic, interactive graphs and charts provide you with a visual representation of your sensor data
 - Integration with the Autonomics Director provides a list of policy exceptions and recommended resolutions for all of your monitored databases
 - All IMS Tools reports stored in the IMS Tools Knowledge Base can be searched, retrieved, and viewed effortlessly
- Prepare for the next generation of IMS DBAs
 - Uses the latest web technologies for a rich user experience
 - Access from anywhere via the Internet using the most popular web browsers
 - Includes a robust help system that serves as a learning aid for new IMS DBAs.

Overview of IMS Resources with Drill-down

The screenshot displays the IBM Tools Base Administration Console for z/OS. The main content area shows a summary table for Critical Databases. A yellow callout box with an arrow points to the 'Overall' status indicator (a red square) for the 'Critical Databases' group, indicating that resource status, errors, and recommendations can be aggregated and drilled down.

Resource	Type	Overall	Critical	Severe	Warning	Recommendations	Reports
Critical Databases	group		2	1	1	0	440
CUSTD1	database		0	0	0	0	53
CUSTD2	haldb		-	-	-	-	166
CUSTD3	database		2	1	1	0	52
CUSTD4	haldb		-	-	-	-	142
CUSTD5	database		-	-	-	-	14
CUSTD6	database		0	0	0	0	13

Finished retrieving child resources Errors: 0

Holistic View of IMS Resources

...from Various HP Tools

...from Autonomics Director

...from Auto Discovery

The screenshot displays the IBM IMS Resource Manager web interface for database CUSTD3. The interface is organized into several sections:

- Properties:** A yellow box highlights this section, which includes details such as Database name (CUSTD3), Database type (HDAM), Segment levels (2), Segment types (2), External databases (2), Logical children (2), Data set groups (1), and Access type (VSAM).
- Exceptions:** A red box highlights this section, showing 4 exceptions as of Tue Sep 13 18:00:38 PDT 2011. It lists 2 Critical exceptions (Excessive RAP synonyms, Excessive HDAM roots not home), 1 Severe exception, and 1 Warning.
- Reports:** A green box highlights this section, showing 52 reports with links for dates like September 14, 2011 (4), September 13, 2011 (3), August 31, 2011 (1), August 30, 2011 (23), and August 29, 2011 (21).
- Space Use:** A blue box highlights this section, featuring a bar chart titled "Highest Used and Highest Allocated RBA".
- Optimization:** A blue box highlights this section, featuring a table titled "Number of Database Records".
- Fragmentation:** A blue box highlights this section, featuring a bar chart titled "Pointers to Other Blocks or CIGs".

At the bottom of the interface, there is a status bar with the text "Finished retrieving child resources" and "Errors: 0".

...from Sensors

Prepare the next generation of IMS DBAs

The screenshot displays the IBM Tools Base Administration Console for z/OS interface. The main content area is divided into several panels:

- Properties:** Shows details for database CUSTD3, including Database name, Database type (HDAM), Segment levels (2), Segment types (2), External databases (2), Logical children (2), Data set groups (1), and Access type (VSAM).
- Exceptions:** Lists 4 exceptions as of Tue Sep 13 18:00:38 PDT, including Critical (2), Severe (1), and Warning (1).
- Reports:** Lists 52 reports, including September 14, 2011 (4), September 13, 2011 (3), August 31, 2011 (1), August 30, 2011 (23), and August 29, 2011 (21).
- Space Use:** A bar chart comparing DB RBA HIGH ALLOC and DB RBA HIGH USED for CUSTD3. The Y-axis ranges from 0 to 3,000,000,000. A callout box highlights the chart area.
- Fragmentation:** A bar chart showing Points to Other Blocks or CIs for CUSTD3. The Y-axis ranges from 0 to 4.

Integrated help text is displayed on the right side of the console, titled "Highest Used and Highest Allocated RBA chart". The help text explains that if the highest used relative byte address (RBA) is near or equal to the highest allocated RBA, the data set might be extended upon data growth, requiring additional I/O processing. It also defines unformatted space and notes that the space between the highest used and the highest allocated RBA does not represent unformatted space for a VSAM KSDS. A note mentions that if data elements cross thresholds defined with Tools Base Policy Services, an exception notification might be generated.

Integrated help educates new and experienced DBAs on database concepts and how to interpret charts

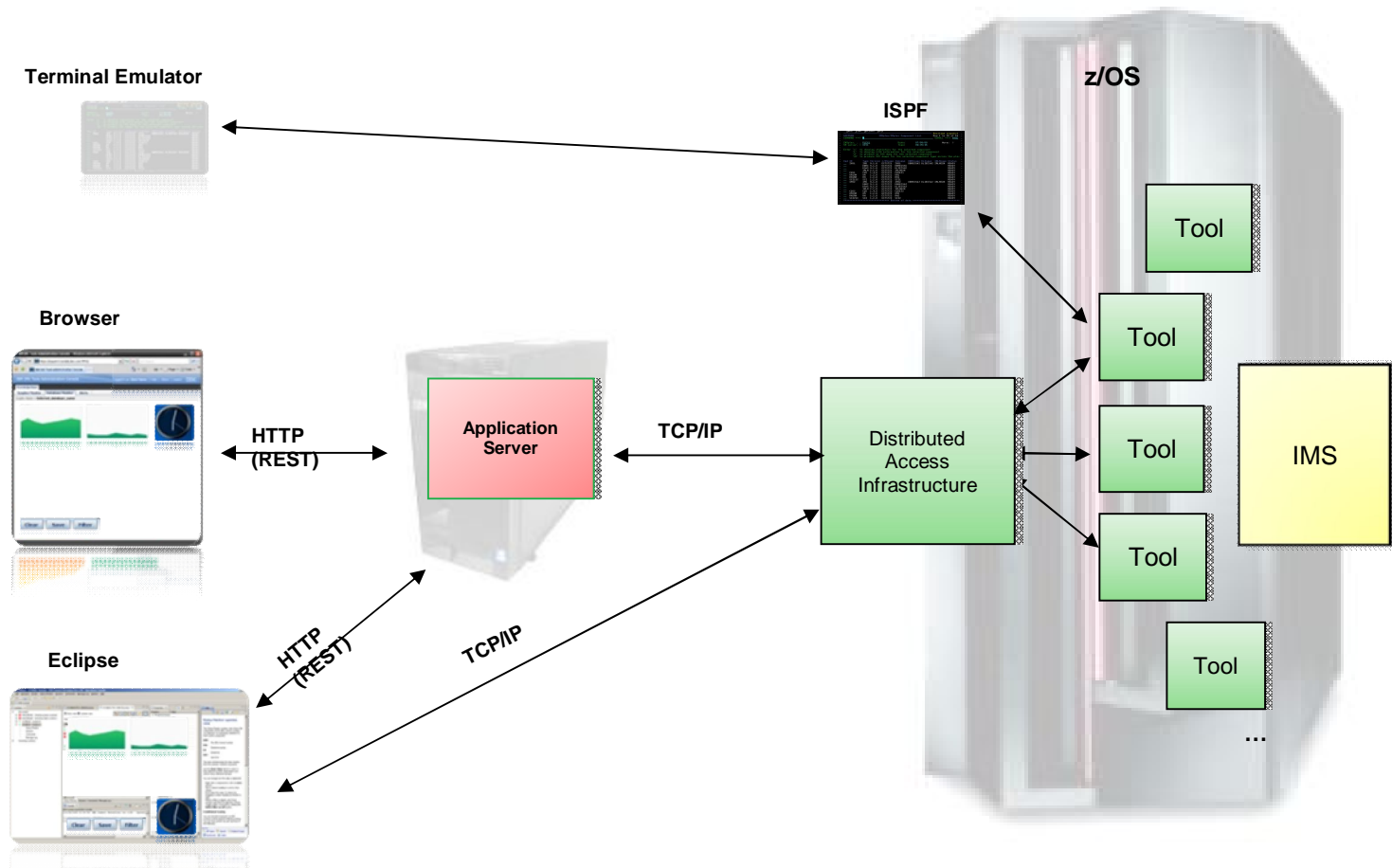
Administration Console Benefits

- Install once, access anywhere via the Internet
 - Single, server-based installation
 - Access through popular web browsers
- Safety and security features are built in
 - Uses SSL and RACF authentication
- Works “out of the box”
 - Immediately view your databases using your existing DBRC groups or Autonomics Director monitor list
- Easily customized
 - Define your own groups of databases to view
- Consolidated information at your fingertips
 - Summary pages provide total counts of warning, severe, and critical exceptions for a database group – drill down to the individual database level from there



Administration Console Installation and Configuration

- Standard SMP/E installation
- Light weight 'mid tier' application server installed using simple InstallAnywhere (.exe)



Firefox

http://bighouse:10080/mweb/common/login.html

Google

IBM Tools Base Administration Console for z/OS

Management ?

IBM.

Log in to Administration Console

Environment:

User ID:

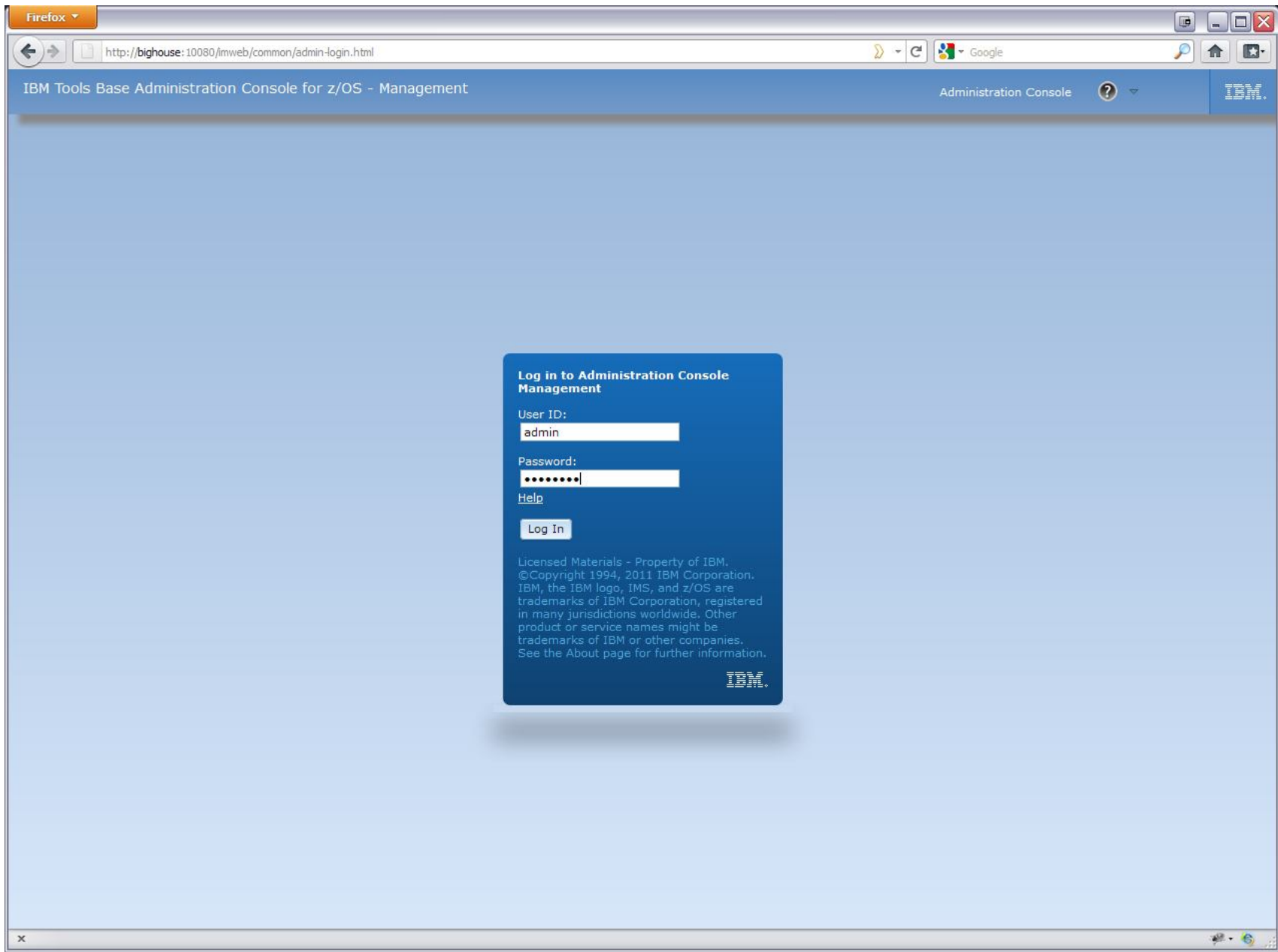
Password:

[Help](#)

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x



Firefox

http://bighouse:10080/imweb/common/admin-login.html

Administration Console



Log in to Administration Console Management

User ID:

Password:

[Help](#)

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http://bighouse:10080/imweb/admin/index.html

IBM Tools Base Administration Console for z/OS - Management Environments Welcome admin Log out ? IBM.

Add Administration Console environments below. An environment contains the resources that users of Administration Console can manage.

To add an environment, complete the following steps:

1. Click **Add** to define the environment.
2. Click **Discover** to populate Administration Console with the environment's resources.

To log in to Administration Console, enter the following URL in your web browser. Substitute http or https, the DNS name or IP address of the host server, and the port of the host server.

<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Buttons: Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS Tools KB Server	AD Server	Last Discovery Date
------------------	-------------	----------	---------------------	-----------	---------------------

Firefox

http://bighouse:10080/imweb/admin/index.html

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<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	Discovery Date
------------------	-------------	----------------

Add Environment

* Environment name:

Distributed Access Infrastructure Connection

* Address:

* DAI port:

IMS Tools Servers

* IMS Tools Knowledge Base server:

* Autonomics Director server:

* Required

Firefox

http://bighouse:10080/imweb/admin/index.html

IBM Tools Base Administration Console for z/OS - Management

Environments

Welcome admin Log out ? IBM

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<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS Tools KB Server	AD Server	Last Discovery Date
STLABE2	stlabe2.svl.ibm.com	5125	DAIFPQ2	IADVAD00	

Firefox

http://bighouse:10080/imweb/admin/index.html

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<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS Tools KB Server	AD Server	Last Discovery Date
STLABE2	stlabe2.svl.ibm.com	5125			

Host Security Authorization

User ID:

Password:

Save credentials during this session:

OK Cancel

Firefox

http://bighouse:10080/imweb/admin/index.html

IBM Tools Base Administration Console for z/OS - Management Environments Welcome admin Log out ? IBM

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<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS Tools KB Server	AD Server	Last Discovery Date
STLABE2	stlabe2.svl.ibm.com	5125			

Host Security Authorization

User ID:

Password:

Save credentials during this session:

OK Cancel

Firefox

http://bighouse:10080/imweb/admin/index.html

IBM Tools Base Administration Console for z/OS - Management

Environments

Welcome admin Log out ? IBM

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<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS Tools KB Server	AD Server	Last Discovery Date
STLABE2	stlab2.svl.ibm.com	5125	DAIFPQS2	IADVADM00	

0%

Firefox

http://bighouse:10080/imweb/admin/index.html

IBM Tools Base Administration Console for z/OS - Management

Environments

Welcome admin Log out ? IBM

Add Administration Console environments below. An environment contains the resources that users of Administration Console can manage.

To add an environment, complete the following steps:

1. Click **Add** to define the environment.
2. Click **Discover** to populate Administration Console with the environment's resources.

To log in to Administration Console, enter the following URL in your web browser. Substitute http or https, the DNS name or IP address of the host server, and the port of the host server.

<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS Tools KB Server	AD Server	Last Discovery Date
STLABE2	stlab2.svl.ibm.com	5125	DAIFPQS2	IADVADM00	Sep 27, 2011 09:39:52

90%

Firefox

http://bighouse:10080/imweb/admin/index.html

IBM Tools Base Administration Console for z/OS - Management

Environments

Welcome admin Log out ? IBM

Add Administration Console environments below. An environment contains the resources that users of Administration Console can manage.

To add an environment, complete the following steps:

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<http or https>://<DNS name or IP address>:<port>/imweb/common/login.html

Add... Remove Discover

Environment Name	DAI Address	DAI Port	IMS	Last Discovery Date
STLABE2	stlab2.svl.ibm.com	5125	DAIF	Sep 27, 2011 09:42:54

Discovery Results x

RECONs:
1 Added

Databases:
29 Added

Partitions:
33 Added

Areas:
50 Added

Datasets:
141 Added

OK

Firefox

http://localhost:10080/imweb/common/login.html

Google

IBM Tools Base Administration Console for z/OS

Management ?

IBM.

Log in to Administration Console

Environment:

User ID:

Password:

[Help](#)

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IBM.

x

Firefox

http://bighouse:10080/mweb/common/login.html

Google

IBM Tools Base Administration Console for z/OS

Management ?

IBM.

Log in to Administration Console

Environment:
STLABE2

User ID:
holtz

Password:
••••••••

[Help](#)

Log In

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IBM.

x

Firefox


http://bighouse:10080/mweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome holtz Log out ?

IBM




Getting Started

Click **Resources** in the menu to see information for your resources.

View [video demonstrations](#) that show how to set up and use Administration Console to find and resolve database problems.

See first steps in the [Getting Started with Administration Console \(PDF\)](#) quick reference.



Related Information


Documentation
[Administration Console User's Guide](#)
[Tools Base Information Center](#)

IMS Tools information
[IMS Tools products](#)
[Tools Base components](#)

Related products
[IMS Database Solution Pack for z/OS](#)

Learning
[z/OS Basic Skills Information Center](#)

Support
[IMS Tools Support](#)



Key Features

View aggregate statistics to quickly identify the resources that require action.

Identify database exceptions and view recommendations for resolving them.

Analyze database statistics in interactive, graphical charts to find opportunities for performance tuning.

Retrieve IMS Tools reports by using predefined or custom search criteria.

Read the robust help to understand and act on resource information.

Finished retrieving resources

Errors: 0

x

Firefox

http://bighouse:10080/mweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome **holtz** Log out ?

IBM

Search

- My View
- My View
- RECON Groups
- Monitor List
- Search Results

Finished retrieving resources

Errors: 0

Firefox

http://bighouse:10080/mweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome **holtz** Log out ?

IBM

Search

Monitor List

- + CUSTD1 (MODERN12)
- + PCUST24 (MODERN12)
- + PCUST23 (MODERN12)
- + PCUST22 (MODERN12)
- + PCUST21 (MODERN12)
- + CUSTD3 (MODERN12)
- + CUSTD6 (MODERN12)
- + D2V1P11 (MODERN12)
- + F1V3P1 (MODERN12)
- + F1V4P1 (MODERN12)
- + H1V3P13 (MODERN12)
- + H1V3P12 (MODERN12)
- + H1V3P11 (MODERN12)
- + H1V4P13 (MODERN12)
- + H1V4P12 (MODERN12)
- + H1V4P11 (MODERN12)

Finished query to derby database

Errors: 0

x

Firefox

http://bighouse:10080/mweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome **holtz** Log out ?

IBM

H1V

Search Results

- + H1V3P1 (MODERN10)
- + H1V3P1 (MODERN12)
- + H1V3P11 (MODERN10)
- + H1V3P11 (MODERN12)
- + H1V3P12 (MODERN10)
- + H1V3P12 (MODERN12)
- + H1V3P13 (MODERN10)
- + H1V3P13 (MODERN12)
- + H1V3S1 (MODERN10)
- + H1V3S1 (MODERN12)
- + H1V3S11 (MODERN10)
- + H1V3S11 (MODERN12)
- + H1V3S12 (MODERN10)
- + H1V3S12 (MODERN12)
- + H1V3S13 (MODERN10)
- + H1V3S13 (MODERN12)
- + H1V4P1 (MODERN10)
- + H1V4P1 (MODERN12)
- + H1V4P11 (MODERN10)
- + H1V4P11 (MODERN12)
- + H1V4P12 (MODERN10)
- + H1V4P12 (MODERN12)
- + H1V4P13 (MODERN10)
- + H1V4P13 (MODERN12)
- + H1V4S1 (MODERN10)
- + H1V4S1 (MODERN12)
- + H1V4S11 (MODERN10)
- + H1V4S11 (MODERN12)
- + H1V4S12 (MODERN10)
- + H1V4S12 (MODERN12)
- + H1V4S13 (MODERN10)
- + H1V4S13 (MODERN12)

Results 40 out of 40

Finished query to derby database

Errors: 0

x

Firefox

http://bighouse:10080/mweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome holtz Log out ? IBM

Search

My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Add Resources

My View

Up Down Sort

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

D

Search Results

- D2V1P1 (MODERN10)
- D2V1P1 (MODERN12)
- D2V1P11 (MODERN10)
- D2V1P11 (MODERN12)
- D2V2P1 (MODERN10)
- D2V2P1 (MODERN12)
- D2V2P11 (MODERN10)
- D2V2P11 (MODERN12)
- D2V2P12 (MODERN10)
- D2V2P12 (MODERN12)

Results 10 out of 10

OK

Finished query to derby database

Errors: 0

Firefox

http://bighouse:10080/mweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome **holtz** Log out ?

IBM

Search

My View

Critical Databases

- + CUSTD1 (MODERN12)
- + CUSTD2 (MODERN12)
- + CUSTD3 (MODERN12)
- + CUSTD4 (MODERN12)
- + CUSTD5 (MODERN12)
- + CUSTD6 (MODERN12)

Finished retrieving child resources

Errors: 0

Firefox

http://bighouse:10080/mmweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome holtz Log out

IBM

Search

My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Critical Databases

Summary

Resource	Type	Overall	Critical	Severe	Warning	Recommendations	Reports
Critical Databases	group		2	1	1	0	440
CUSTD1	database		0	0	0	0	53
CUSTD2	haldb		-	-	-	-	166
CUSTD3	database		2	1	1	0	52
CUSTD4	haldb		-	-	-	-	142
CUSTD5	database		-	-	-	-	14
CUSTD6	database		0	0	0	0	13

Finished retrieving child resources

Errors: 0

Firefox | http://bighouse:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Search | My View | Critical Databases

Critical Databases > CUSTD3

Properties

Database name: CUSTD3
 Database type: HDAM
 Segment levels: 2
 Segment types: 2
 External databases: 2
 Logical children: 2
 Data set groups: 1
 Access type: VSAM

Exceptions 4

Exceptions as of Tue Sep 13 18:00:38 PDT 2011

- Critical (2)**
 - [Excessive RAP synonyms](#)
 - [Excessive HDAM roots not home](#)
- Severe (1)**
- Warning (1)**

Reports 52

- [September 14, 2011 \(4\)](#)
- [September 13, 2011 \(3\)](#)
- [August 31, 2011 \(1\)](#)
- [August 30, 2011 \(23\)](#)
- [August 29, 2011 \(21\)](#)

Space Use

Number of Segments

Database	DB NUM SEG
CUSTD3	~20,000,000

Page 1 of 9

Optimization

Number of Database Records

Date	DB NUM ROOT
10/21/11	~0
11/22/11	~7,500,000

Page 1 of 6

Fragmentation

Variable-Length Segment Splits

Date	DB PCT NUM VLSEG SPLIT
10/21/11	~0
11/22/11	~4.5

Page 1 of 5

Finished: Fetching Children [object Object] | Errors: 0

Firefox | http://bighouse:10080/mmweb/itac/index.html

IBM Tools Base Administration Console for z/OS | Welcome | Resources | Reports | Welcome holtz | Log out

Search

My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)**
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Critical Databases > CUSTD3

Properties

Database name: CUSTD3
 Database type: HDAM
 Segment levels: 2
 Segment types: 2
 External databases: 2
 Logical children: 2
 Data set groups: 1
 Access type: VSAM

Exceptions 4

Exceptions as of Tue Sep 13 18:00:38 PDT 2011

- Critical (2)**
 - [Excessive RAP synonyms](#)
 - [Excessive HDAM roots not home](#)
- Severe (1)**
- Warning (1)**

Excessive RAP synonyms

Message:
The number of synonyms in randomizing has increased in CUSTD3

Class: EXCESSIVE_RAP_SYNONYMS
 Level: CRITICAL
 Rule: G:IBM.RAP_SYNONYMS.10
 Threshold: High

- [August 30, 2011 \(23\)](#)
- [August 29, 2011 \(21\)](#)

Space Use

Number of Segments

DB NUM SEG

Page 1 of 9

Optimization

Number of Database Records

DB NUM ROOT

Page 1 of 6

Fragmentation

Variable-Length Segment Splits

DB PCT NUM VLSEG SPLIT

Page 1 of 5

Finished: Fetching Children [object Object] | Errors: 0

Firefox | http://bighouse:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome | holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Search | My View | Critical Databases

Critical Databases > CUSTD3

Properties

Database name: CUSTD3
 Database type: HDAM
 Segment levels: 2
 Segment types: 2
 External databases: 2
 Logical children: 2
 Data set groups: 1
 Access type: VSAM

Exceptions 4

Exceptions as of Tue Sep 13 18:00:38 PDT :

▼ **Critical (2)**

- Excessive RAP synonyms
- Excessive HDAM roots not home

► **Severe (1)**

► **Warning (1)**

Reports 52

- September 14, 2011 (4)
- September 13, 2011 (3)
- August 31, 2011 (1)
- August 30, 2011 (23)
- August 29, 2011 (21)

Space Use

Number of Segments

DB NUM SEG

Page 1 of 9

Optimization

Number of Database Records

DB NUM ROOT

Page 1 of 6

Fragmentation

Variable-Length Segment Splits

DB PCT NUM VLSEG SPLIT

Page 1 of 5

Help

Excessive RAP synonyms exception

Rule condition and related data elements

At least one of the following data element values has reached or exceeded a threshold value:

- The number of synonyms (DB_NUM_SYNONYM)
- The percentage of synonyms compared to the total number of root segment occurrences (DB_PCT_NUM_SYNONYM)

A root segment occurrence of an HDAM or PHDAM database is a synonym if the occurrence is assigned by the randomizing routine to a root anchor point (RAP) that is already used by another root segment occurrence.

Related chart: Synonym Roots

Resolving this exception

This exception is an informational exception. If the database has additional exceptions, you can view them to determine any necessary actions.

Parent topic: [Exceptions overview](#)

Finished: Fetching Children [object Object] | Errors: 0

Firefox

http://bighouse:10080/mmweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome holtz Log out ? IBM

Search

My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD3**
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Critical Databases > CUSTD3 > MODERN1.ADC1.CUSTD3

Properties

Database name: CUSTD3

Data set ID: 1

DD name: CUSTD3

Data set name: MODERN1.ADC1.CUSTD3

Access type: VSAMESDS

Reports 21

- September 14, 2011 (1)
- August 30, 2011 (9)
- August 29, 2011 (11)

Space Use

Number of Segments

DB NUM SEG

Page 1 of 9

Fragmentation

Variable-Length Segment Splits

DB PCT NUM VLSEG SPLIT

Page 1 of 5

Finished retrieving child resources

Errors: 0

Firefox | http://bighouse:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Critical Databases > CUSTD3 > MODERN1.ADC1.CUSTD3 > Space Use

Search | My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD3**
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Number of Segments

9/27/10 - 9/27/11

DB NUM SEG

Total Segment Size

9/27/10 - 9/27/11

DB BYTES SEG

Remaining Extents

9/27/10 - 9/27/11

DB NUM AVAIL EXT

Data Set Extents

9/27/10 - 9/27/11

DB NUM EXT

DASD Volume Use

9/27/10 - 9/27/11

DB NUM UNUSED VOL SER

DB NUM UNUSED VOL CAND

Highest Used and Highest Allocated RBA

9/27/10 - 9/27/11

DB RBA HIGH ALLOC

DB RBA HIGH USED

Finished retrieving child resources | Errors: 0

Firefox

http://bighouse:10080/mmweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome holtz Log out ? IBM

Search

My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD3**
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Critical Databases > CUSTD3 > MODERN1.ADC1.CUSTD3 > Space Use > Highest Used and Highest Allocated RBA

Highest Used and Highest Allocated RBA

9/27/10 - 9/27/11

24m 21m 18m 15m 12m 9m 6m 3m today

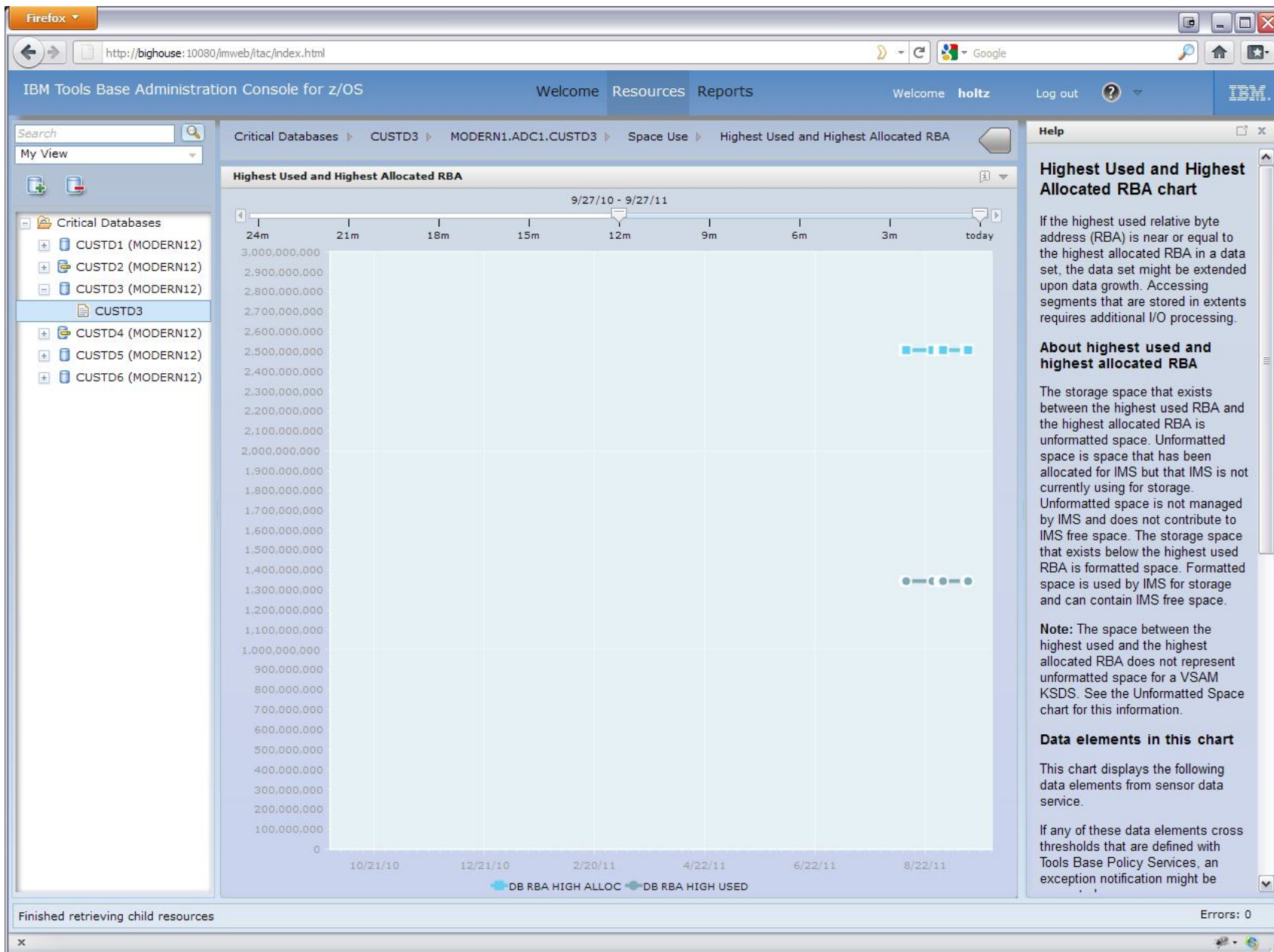
3,000,000,000
2,900,000,000
2,800,000,000
2,700,000,000
2,600,000,000
2,500,000,000
2,400,000,000
2,300,000,000
2,200,000,000
2,100,000,000
2,000,000,000
1,900,000,000
1,800,000,000
1,700,000,000
1,600,000,000
1,500,000,000
1,400,000,000
1,300,000,000
1,200,000,000
1,100,000,000
1,000,000,000
900,000,000
800,000,000
700,000,000
600,000,000
500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0

10/21/10 12/21/10 2/20/11 4/22/11 6/22/11 8/22/11

DB RBA HIGH ALLOC DB RBA HIGH USED

Finished retrieving child resources

Errors: 0



Firefox | http://bighouse:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Search | My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)**
- PCUST21 (MODERN12)
- PCUST22 (MODERN12)
- PCUST23 (MODERN12)
- PCUST24 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Critical Databases > CUSTD2

Summary

Resource	Type	Overall	Critical	Severe	Warning	Recommendations	Reports
CUSTD2	haldb		-	-	-	-	166
PCUST21	partition		-	-	-	-	44
PCUST22	partition		-	-	-	-	38
PCUST23	partition		-	-	-	-	38
PCUST24	partition		-	-	-	-	38

Properties

Database name: CUSTD2
 Database type: PHIDAM
 Segment levels: 2
 Segment types: 17
 External databases: 2
 Logical children: 2
 Data set groups: 4
 Partition selection exit:
 Access type: VSAM

Exceptions

No evaluations have been run on this resource

Reports 166

- September 14, 2011 (3)
- September 13, 2011 (3)
- August 31, 2011 (1)
- August 30, 2011 (80)
- August 29, 2011 (79)

Finished: Fetching Children null | Errors: 0

Firefox | http://bighouse:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Search | My View

Critical Databases

- CUSTD1 (MODERN12)
- CUSTD2 (MODERN12)
 - PCUST21 (MODERN12)
 - PCUST21A
 - PCUST21L
 - PCUST21X
 - PCUST22 (MODERN12)
 - PCUST23 (MODERN12)
 - PCUST24 (MODERN12)
- CUSTD3 (MODERN12)
- CUSTD4 (MODERN12)
- CUSTD5 (MODERN12)
- CUSTD6 (MODERN12)

Critical Databases > CUSTD2 > PCUST21

Properties

Partition name: PCUST21
 Data set name prefix: MODERN1.ADC1.CUSTD2
 Partition ID: 248
 Randomizer name:
 OSAM block size: 0
 Data sets: 3

Exceptions

No evaluations have been run on this resource

Reports 44

- September 14, 2011 (1)
- September 13, 2011 (1)
- August 31, 2011 (1)
- August 30, 2011 (21)
- August 29, 2011 (20)

Space Use | Number of Segments

Resource	Number of Segments
PCUST21A	~480,000

DB NUM SEG | Page 1 of 9

Optimization | Number of Database Records

Resource	Number of Database Records
PCUST21A	~70,000

DB NUM ROOT | Page 1 of 2

Fragmentation | Variable-Length Segment Splits

Resource	Variable-Length Segment Splits
PCUST21A	~4.8

DB PCT NUM VLSEG SPLIT | Page 1 of 5

Finished retrieving child resources | Errors: 0

Firefox | http://localhost:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Critical Databases > CUSTD2 > PCUST21 > Space Use

Search | My View

- Critical Databases
 - CUSTD1 (MODERN12)
 - CUSTD2 (MODERN12)
 - PCUST21 (MODERN12)
 - PCUST22 (MODERN12)
 - PCUST23 (MODERN12)
 - PCUST24 (MODERN12)
 - CUSTD3 (MODERN12)
 - CUSTD4 (MODERN12)
 - CUSTD5 (MODERN12)
 - CUSTD6 (MODERN12)

Number of Segments

DB	DB NUM SEG
A00001	~600,000,000
L00001	~2,600,000,000
X00001	~2,000,000,000

Total Segment Size

DB	DB BYTES SEG
A00001	~1,500,000,000
L00001	~700,000,000
X00001	~3,600,000,000

Remaining Extents

DB	DB NUM AVAIL EXT
A00001	~1,000
L00001	~44,000
X00001	~42,000

Data Set Extents

DB	DB NUM EXT
A00001	~34,000
L00001	~46,000
X00001	~8,000

DASD Volume Use

DB	DB NUM UNUSED VOL SER	DB NUM UNUSED VOL CAND	DB NUM VOL
A00001	~66,000	~63,000	~3,000
L00001	~40,000	~39,000	~35,000
X00001	~22,000	~16,000	~23,000

Highest Used and Highest Allocated RBA

DB	DB RBA HIGH ALLOC	DB RBA HIGH USED
A00001	~3,000,000,000	~3,000,000,000
L00001	~4,100,000,000	~2,000,000,000
X00001	~2,800,000,000	~1,800,000,000

Finished retrieving child resources | Errors: 0

Firefox

http://bighouse:10080/mmweb/itac/index.html

IBM Tools Base Administration Console for z/OS

Welcome Resources Reports

Welcome holtz Log out

IBM

Saved Searches

- All reports
- Today's reports
- Yesterday's reports
- Last 7 days' reports
- Reports with a non-zero completion code

Delete

Search Criteria

Add Criteria

Match: All criteria Any criteria

Clear All Save... Run

Search Results: All reports

Product Name	Report Name	DB Name	Area/Parti	DD Name	Recon ID	IMS ID	Group Type	Group Name	Report Start Date	Completion Code	Report Type	System I
DB Reorg Expert	RGE-Environment	CUSTD1			MODERN1				Wed Sep 14 15:14:47 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD1			MODERN1				Wed Sep 14 15:09:19 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD1			MODERN1				Tue Sep 13 15:10:28 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD1			MODERN1				Tue Sep 13 15:09:00 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:37:36 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:37:25 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:37:17 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:16:44 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:16:37 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:16:31 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Wed Sep 14 15:16:23 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Tue Sep 13 15:17:47 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Tue Sep 13 15:17:38 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Tue Sep 13 15:17:29 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Tue Sep 13 15:11:49 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Tue Sep 13 15:11:37 PDT 2011	0		STLAE
DB Reorg Expert	RGE-Environment	CUSTD2			MODERN1				Tue Sep 13 15:11:27 PDT 2011	0		STLAE

Preview

Found 7305 reports

Errors: 0

Firefox | http://bighouse:10080/mmweb/itac/index.html | Welcome | Resources | Reports | Welcome holtz | Log out | IBM

IBM Tools Base Administration Console for z/OS

Saved Searches

- All reports
- Today's reports
- Yesterday's reports
- Last 7 days' reports
- Reports with a non-zero completion code

Delete

Search Criteria

Add Criteria

Match: All criteria Any criteria

Clear All Save... Run

Search Results: All reports

Product Name	Report Name	DB Name	Area/Part	DD Name	Recon ID	IMS ID	Group Type	Group Name	Report Start Date	Completion Code	Report Type	System
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P11	H1V4P11X	MODERN1				PDT 2011			
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P11	H1V4P11X	MODERN1				Tue Aug 30 00:59:02 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P11	H1V4P11X	MODERN1				Mon Aug 29 17:45:08 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P11	H1V4P11X	MODERN1				Mon Aug 15 23:13:17 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12A	MODERN1				Tue Sep 13 15:24:25 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12A	MODERN1				Tue Aug 30 00:59:02 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12A	MODERN1				Mon Aug 29 17:45:08 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12A	MODERN1				Mon Aug 15 23:13:17 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12E	MODERN1				Tue Sep 13 15:24:25 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12E	MODERN1				Tue Aug 30 00:59:02 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12E	MODERN1				Mon Aug 29 17:45:08 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12X	MODERN1				Mon Aug 15 23:13:17 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12X	MODERN1				Tue Sep 13 15:24:25 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12X	MODERN1				Tue Aug 30 00:59:02 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12X	MODERN1				Mon Aug 29 17:45:08 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P12	H1V4P12X	MODERN1				Mon Aug 15 23:13:17 PDT 2011	0	DD	STLAE
HPPC	PC-RUN TIME OPTION	H1V4P1	H1V4P13	H1V4P13A	MODERN1				Tue Sep 13 15:24:25 PDT 2011	0	DD	STLAE

Preview

```

1IMS HIGH PERFORMANCE POINTER CHECKER FOR z/OS          "SEPARATOR PAGE FOR DB/DSC"
5655-U09                                               DATE: 08/29/2011  TIME: 17.45.28
FABPMA

ORUN TIME OPTION FOR DB/DSC

0 DBNAME: H1V4P1  DB#: 014  PARTNAME: H1V4P12  PART ID: 00002  REORG#: N / A
  DSG#:  B PRIM DD:  H1V4P12B  DSNAME: MODERN1.ADC1.H1V4P1.B00002
0 PROC STATEMENT          DATABASE STATEMENT          OPTION STATEMENT          REPORT STATEMENT
-----
0 TYPE = ALL              DB = H1V4P1              ERRLIMIT = YES            RUNTIM = YES
  DBORG = PHIDAM          DD = H1V4P12B           DIAGDUMP = ERROR         INTST = YES
  HASH = NO               OVERFLOW = N/A          DUMPFORM = FORMAT       BITMAP = YES
  IXKEYCHK = NO          DATASET = REAL           HISTORY = NO              FSEMAP = YES

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Found 7305 reports | Errors: 0

Firefox

http://bighouse:10080/mweb/tbb/GetReport?key=DPP1A1C7F0440000002

IBM Tools Base Administration Console fo... PC-RUN TIME OPTION

1IMS HIGH PERFORMANCE POINTER CHECKER FOR z/OS "SEPARATOR PAGE FOR DB/DSG" PAGE: 1
 5655-U09 DATE: 08/29/2011 TIME: 17.45.28 FABPMAIN - V3.R1

ORUN TIME OPTION FOR DB/DSG

0 DBNAME: H1V4P1 DB#: 014 PARTNAME: H1V4P12 PART ID: 00002 REORG#: N / A
 DSG#: B PRIM DD: H1V4P12B DSNAME: MODERN1.ADC1.H1V4P1.B00002

0 PROC STATEMENT	DATABASE STATEMENT	OPTION STATEMENT	REPORT STATEMENT
0 TYPE = ALL	DB = H1V4P1	ERRLIMIT = YES	RUNIM = YES
DBORG = PHIDAM	DD = H1V4P12B	DIAGDUMP = ERROR	INIST = YES
HASH = NO	OVERFLOW = N/A	DUMPFORM = FORMAT	BITMAP = YES
IXKEYCHK = NO	DATASET = REAL	HISTORY = NO	FSEMAP = YES
SEP = NO	SCANGROUP= 01	HOMECHK = N/A	MAXFSD = YES
VLSSUMM = NO		INTERVAL = DATASET	INTIFS = YES
CHECK = (CHK,111111)		INCORE = NO	DBDIST = N/A
EPSCHK = NO		KEYSIN = NO	CHAINDIST = N/A
CHECKREC = NO		T2CHK = (00,07)	DECODEDBD = NO
ICRG#CHK = N/A		ZEROCIR = NO	MAPDBD = NO
RETCDDSN = *NO		DIAG = NO	COMPFACT = NO
ITKBSRVR = DAIFPQ52		PRINTDATA = NO	SEGIO = NO
ITKBLOAD = 'DBGTOOL.TEST.HAHN130.SHKTLOAD'		PTRCHK = YES	
USER = *NO		NOCHKP =	
		VSAMBF = N/A	
		DSSIZE =	
		ICUNIT = N/A	
		IBUFF = 10TRK	
		SPMN = NO	

Summary

- We hear your concerns and understand your challenges
- IMS Tools Solution Packs provide everything you need to manage and maintain your IMS Full Function and Fast Path databases
 - The latest versions of the Database Solution Pack and Fast Path Solution Pack will be available this December
 - These Packs deliver on a vision of Autonomics and Modernization, taking the burden of IMS maintenance off of the user once and for all
- These solutions provide immediate benefits and position you for offerings still to come



Questions and Discussion

- Thank you for your time!
- Feel free to contact us
 - Chris Holtz holtz@us.ibm.com
 - Bob Magid magid@us.ibm.com



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