



ORACLE®

Oracle@Oracle: How Oracle IT Uses Oracle Enterprise Manager to Manage Mission Critical Business Applications

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Director, Oracle IT

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Director, Product Management

Superior Ownership Experience



Oracle Enterprise Manager

Business-Driven Application Management

- Map business metrics to IT events
- Manage IT from business perspective



Integrated Application-to-Disk Coverage

- Eliminate management silos
- Create agile IT for dynamic business



Integrated Systems Management and Support

- Proactively identify and fix problems
- Maximize business productivity

Application Management R&D Investments

Oracle releases Application Management Pack for PeopleSoft ...

Oracle releases Application Management Pack for Siebel ...

Oracle releases Application Management Pack for Oracle E-Business Suite

Oracle releases Application Management Pack for JD Edwards EnterpriseOne

Oracle releases Application Change Management Pack for Oracle E-Business Suite . . .

Oracle acquires Moniforce ...

Oracle acquires ActiveReasoning ...

Oracle acquires mValent ...

ORACLE®

APPLICATION MANAGEMENT SUITES

Oracle E-Business Suite • Siebel • PeopleSoft • JD Edwards EnterpriseOne

Application Management Suites



**User Experience
Management**



**System Monitoring
and Diagnostics**



**Configuration
Management**



**Lifecycle
Automation**

Path to Fusion Applications

Enterprise Manager Evolves With Your Oracle Application Environment

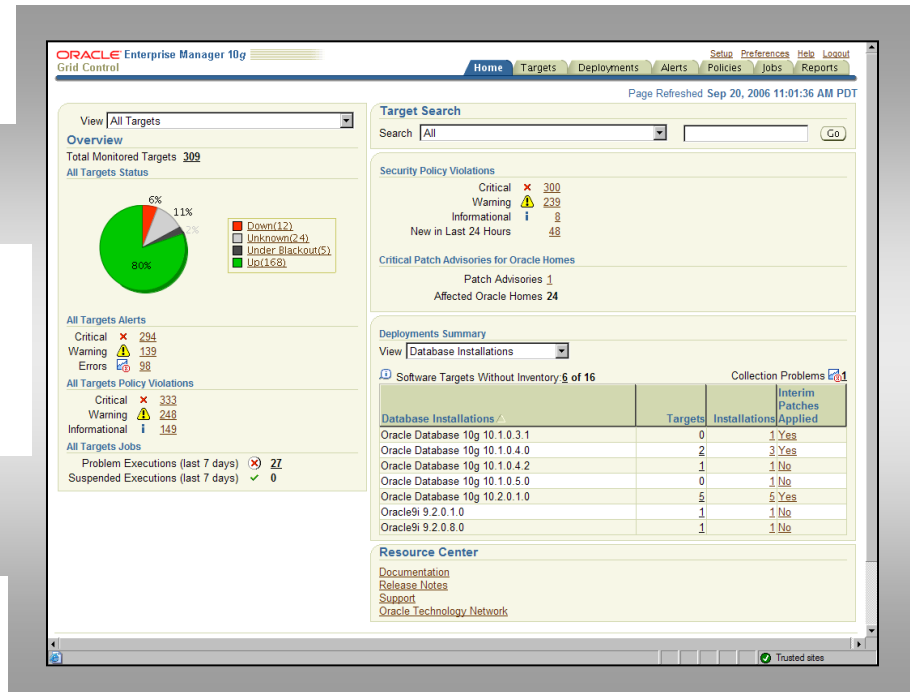
Siebel, EBS,
PeopleSoft,
JDE E1

OBI-EE

ORACLE®
ENTERPRISE MANAGER 11^g

Fusion
Middleware

Fusion
Application



A man in a dark suit, light blue shirt, and striped tie is sitting in a black leather office chair. He is gesturing with his right hand, palm facing up. Behind him is a large, silver Oracle server rack with perforated doors. The background is a bright, out-of-focus office window.

Oracle@Oracle

SOFTWARE.
HARDWARE.
COMPLETE.

ORACLE®

Oracle Production IT

Application Management Suite

ORACLE®

SIEBEL

ORACLE®

E-BUSINESS SUITE

ORACLE®

ENTERPRISE MANAGER

Real User Experience Insight

EM Infrastructure @ Oracle

- 8 EM Environments
- Over 150,000 Targets
- Largest Console: 45,824
- OMS/Agent Versions: 10g, 11g
- Disk Subsystems: NFS, SAN
- Load Balancers
- Single Sign-On
- External (DMZ) and Internal

Application Management Suite Benefits

- Eliminating proprietary tools/solutions
- Centralizing on a common toolset and reporting structure
- Standardized processes
- Expanding the use of Oracle Enterprise Manager
- 66% reduction in error resolution time
- Centralized reporting
- Standard monitoring specific to applications

Oracle Production IT

ORACLE®

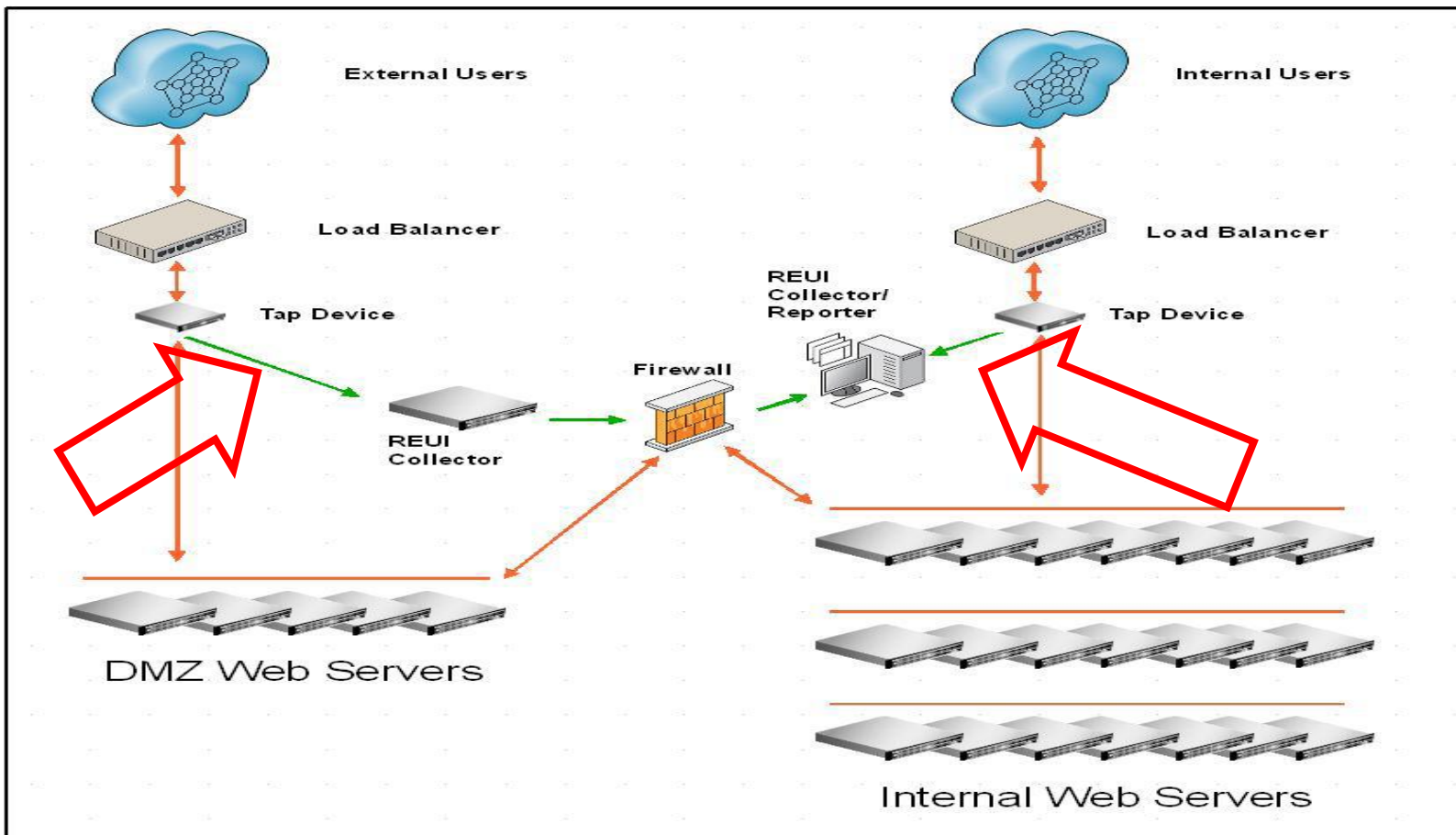
ENTERPRISE MANAGER

Real User Experience Insight

Real User Experience Insight

- Implementation
 - RUEI with the E-Business Suite accelerator collates JSPs, Forms and other network objects
 - Tap Device Network Connection Used – Placed behind load balancer
 - External & Internal Traffic Monitored
- System Details
 - RUEI Version: 6.0.1 with EBS Accelerator
 - DB: 11.1.0.7 (64 bit)
 - OS: Oracle Enterprise Linux 5 (64 bit)
- Benefits
 - Reduced End User errors by region and application
 - Provided comprehensive application overview

Real User Experience Insight Infrastructure



Oracle Production IT

ORACLE®

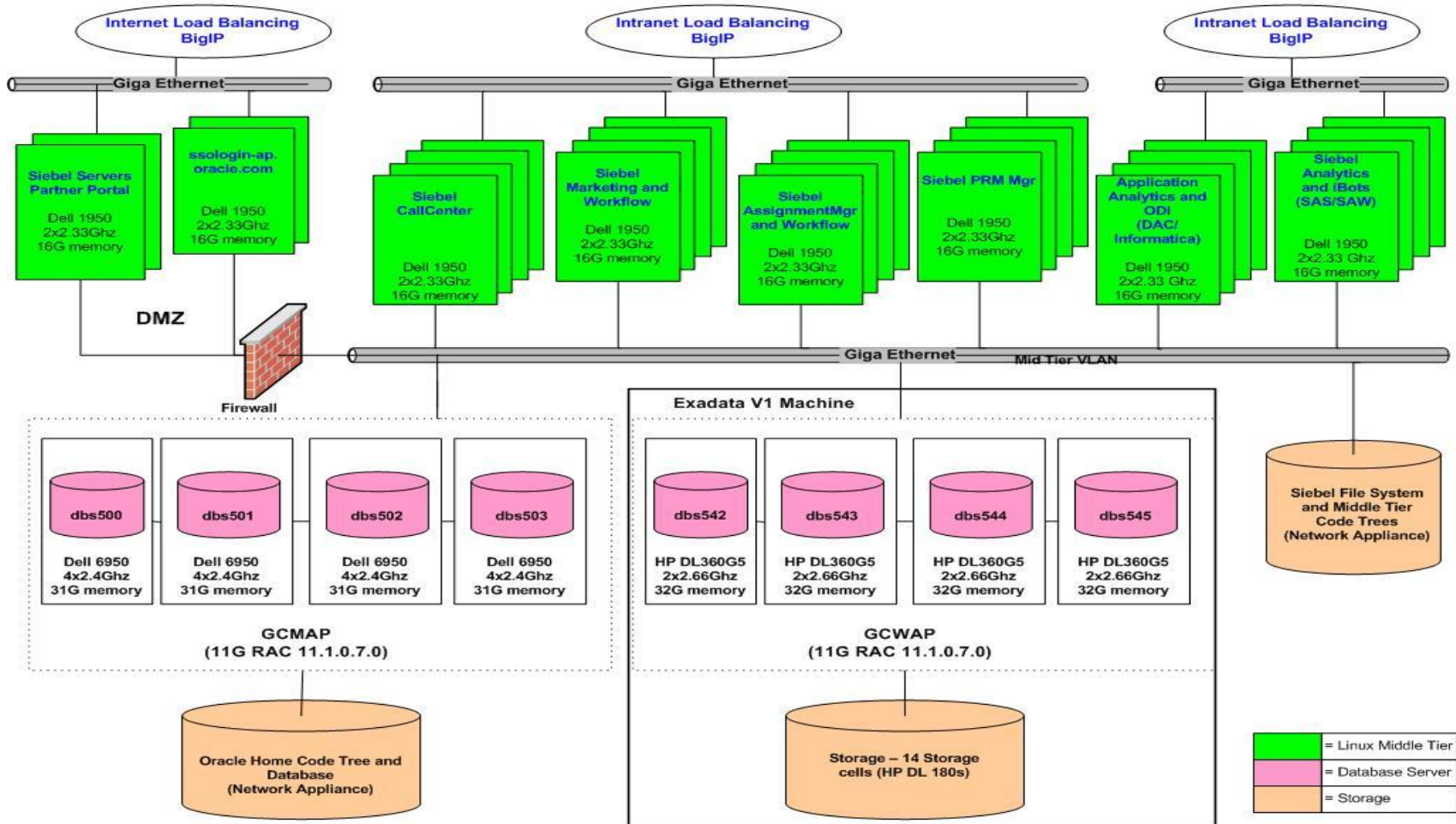
SIEBEL

Siebel Pack

- CRM applications for Sales, Marketing and Partners (Alliances & Channels)
- Services over 3 K Users per Instance
- 3.4 TB DB
- RDBMS 11.1.0.7.0 (4 Node RAC)
- Over 30 Midtiers
- Number of end-users: 12 K
- Version of Siebel: 8.0.0.5 (8.0.0.10 – Oct)
- Number of System Administrators and DB/Apps Administrators: 2/3

Siebel Infrastructure

GCM / GCW Production Architecture - Austin Data Center



Oracle Production IT

ORACLE®

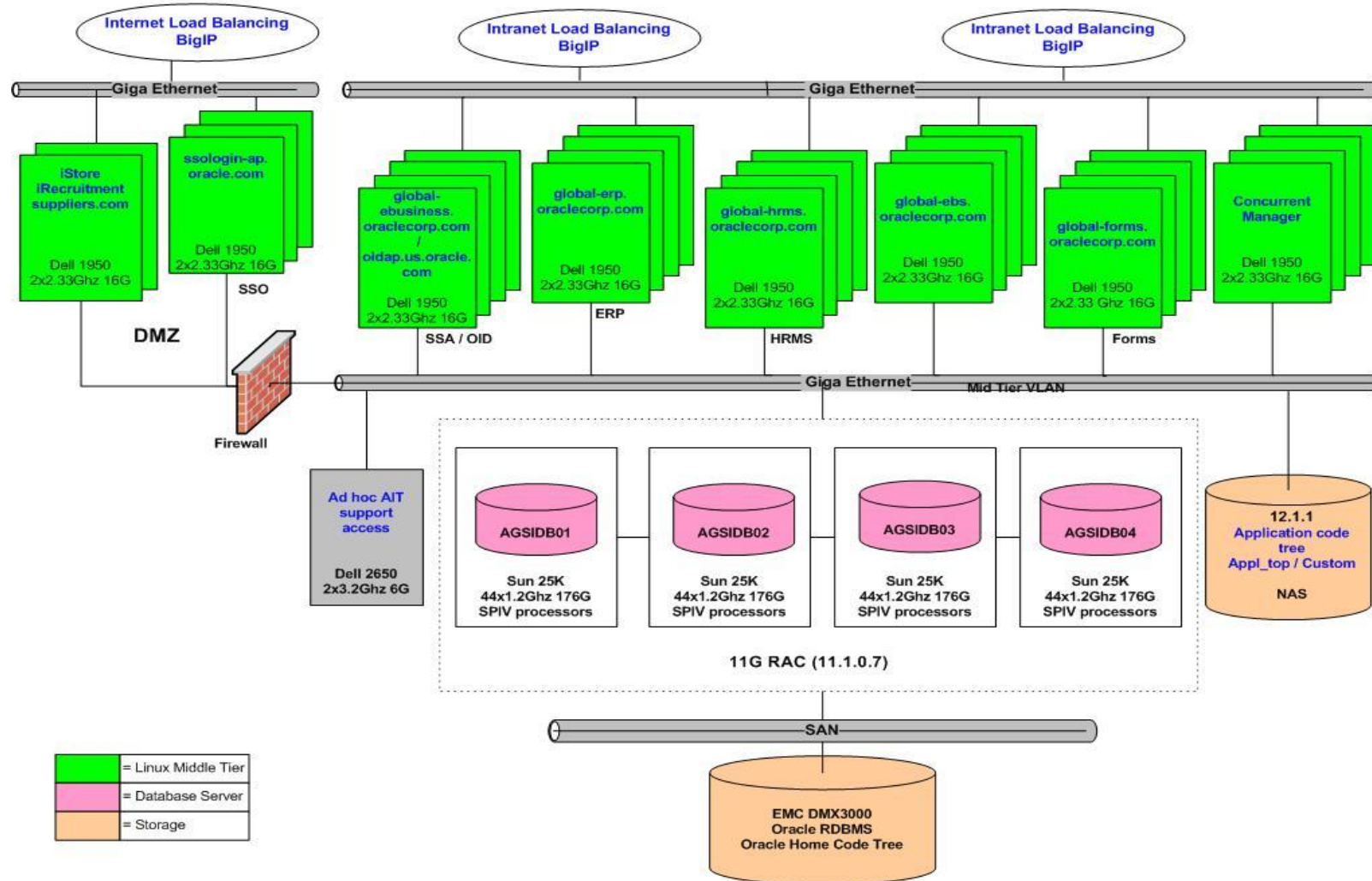
E-BUSINESS SUITE

E-Business Application Management

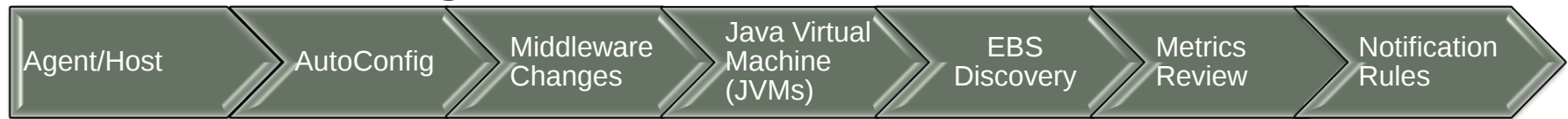
- Services over 12 K Users per month
- Over 433 K workflow transactions
- 16.1 TB DB
- RDBMS 11.1.0.7.0 (RAC)
- Over 50 Midtiers
- Number of end-users: 70,406
- Version of E-Business Suite: 12.1.1
- Number of System Administrators and DB/Apps Administrators: 3/6

E-Business Application Infrastructure

GSI Production Architecture - Austin Data Center



E-Business Application Management Discovery Process



- Install agents on all E-Business hosts (DB/Midtier)
- Execute AutoConfig to ensure all context files are clean
- Permissions Changes on Middleware
- Permissions Changes on JVM Tech Stack
- Execute Discovery of E-Business Application
- Review Standard Metrics
- Create Notification Rules

E-Business Application Management Implementation Review

Task	Overview
Standard Metrics	Concurrent Requests, Forms Sessions, Web User, Workflow Errors, Unsent Workflow Notifications
User Defined Metrics (UDMs)	Host – Data Guard (MRP) Database - Datafile Recovery
Metrics Threshold Trends	Review required metrics for 30 day period and set accordingly
Corrective Action	Restart Process in the event of failure, Clear Log Directories
Security Policies	Permissions Changes, Password Change, Open Ports
Monitoring Templates	Host, Database, Middleware, JVMs, E-Biz

E-Business Application Management

- Leveraging Groups
 - Manage Many as One
 - Notification Rules
 - Configuration Management
 - Dashboards

System: [gsiap.oracle.com](#)

[Home](#) [Charts](#) [Administration](#)

General

Owner: **PATRICK.COMBS**

Problem Jobs: **0**

Last 7 days.



Services

Name	Type
GSI - Emp Self Srv	Web Application
GSI - Expenses	Web Application
GSI - iProcurement	Web Application
GSI - iRecruitment	Web Application
GSI - Mgr Self Srv	Web Application
GSI - Notifications	Web Application
GSIAP-Exec-Dashboard	Aggregate Service

Policy Violations

Severity
(No violations found)

[Policy Trend Overview](#)

System: [gsiap.oracle.com](#)

Page Refreshed Aug 25, 2010 8:39:31 AM PDT [Refresh](#) [Launch Dashboard](#)

[Home](#) [Charts](#) [Administration](#) [Components](#) [Topology](#)

Job Activity

Create Job: [Block Agent](#) [Go](#)

Job executions scheduled to start no more than 7 days ago, directly on the target, or on any of it's members

Status	Submitted to the System	Submitted to any member
Problems	0	2075
Action Required	0	0
Suspended	0	0
Scheduled	0	52
Running	0	0

Deployments Summary

View: [Database Installations](#)

[Software Targets Without Inventory](#) 4 of 4 [Collection Problems](#)

	Targets	Interim Patches
Database Installations		Installations Applied
Oracle Database 10g 10.1.0.3.0	0	1 No
Oracle Database 11g 11.1.0.7.0	0	8 Yes

Compare Target and Template Settings

Select a template to compare with targets in the System

[9i Statspack UDMs \(apply on all 9i - user mon_perf\) - Database Instance](#) [Go](#)

Host Operations

[Execute Host Command](#)

Application Server Operations

[Top J2EE Applications](#)

Configuration Searches

[Application Server Installation Settings](#) [Go](#)

Database Operations

[Execute SQL](#) [View Backup Report](#)

[Alert Log Contents](#)

Listener Operations

[Start](#) [Stop](#)

[View Configuration](#)

[Home](#) [Charts](#) [Administration](#) [Components](#) [Topology](#)

E-Business Application Management Systems group Dashboard

- Infrastructure Overview
- Target Health
- Alert Acknowledgement

Target Status

System: gslap.oracle.com

Page Refreshed Aug 25, 2010 7:35:58 AM (UTC-08:00)

Refresh

Target Type

Automatic Storage Management

Network Appliance Filer

Host

Agent

Cluster Database

Oracle Workflow Agent Listener

Database Instance

Oracle Workflow Background Engine

Listener

Oracle Application Server

Status

4

1

45

5

1

1

4

1

17

30

Alerts

8

6

4

4

1

0

0

0

0

0

Previous

1-10 of 20

Next 10

Alerts

0

23

25

Severity

Target

Date

Message

Acknowledged By

Current Value

Latest Comment

●

amts663.us.oracle.com

Aug 25, 2010 8:33:17 AM

CPU Utilization is 95.9%, crossed warning (90) or critical (95) threshold.

95.9

: The following notifications will be sent: 1 PL/SQL procedures Autoticketing : Created.SR. 18300717

●

gslap_aqsidbs001.us.oracle.com

Aug 24, 2010 10:38:37 AM

The value of User-Defined Numeric Metric for Session Highwater Mark is 84

84

●

aqsidbs003.us.oracle.com:1832

Aug 24, 2010 7:58:57 AM

Agent resident memory utilization in KB is 40145880

1132800

●

aqsidbs002.us.oracle.com:1832

Aug 24, 2010 5:20:26 AM

Agent resident memory utilization in KB is 426856

1136576

●

aqsidbs001.us.oracle.com:1832

Aug 24, 2010 2:33:51 AM

Agent resident memory utilization in KB is 615928

1186184

●

erpntap71

Aug 23, 2010 10:21:48 PM

Qtree dbs536_dbs537_dbs538_u04_oraout_srvap is 90.08% full, crossed warning (84%) or critical (90%) threshold.

91.8

●

erpntap71

Aug 22, 2010 7:06:48 PM

Qtree u01_app_system_prod_2 is 90.5% full, crossed warning (80%) or critical (90%) threshold.

90.5

●

aqsidbs004.us.oracle.com

Aug 20, 2010 10:36:07 PM

Process 14283 matched by the program name '%' and owner 'oracle' is utilizing 27129.89 (MB) of resident memory. It has crossed warning () or critical (26812) threshold.

39231.99

●

aqsidbs004.us.oracle.com

Aug 20, 2010 9:56:08 PM

Process 12508 matched by the program name '%' and owner '%' is utilizing 7621.90 (MB) of resident memory. It has crossed warning () or critical (5120) threshold.

39231.99

●

erpntap71

Aug 20, 2010 3:21:48 AM

Qtree amts655_home is 88.73% full, crossed warning (80%) or critical (90%) threshold.

88.97

Previous

1-10 of 48

Next 10

Legend

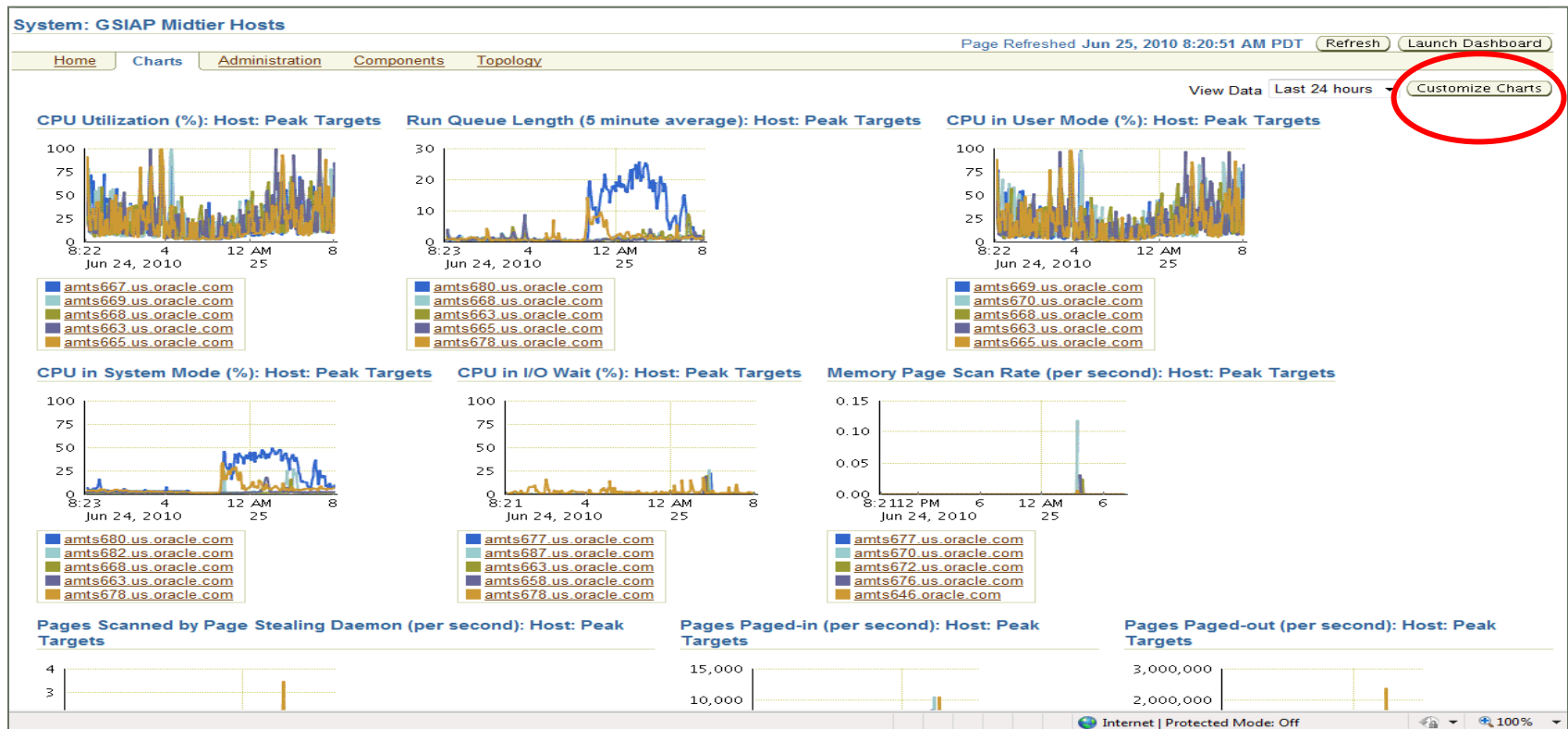
Target Status

Alert Status

Alert Status

E-Business Application Management Systems Group Chart

- Holistic Environment View
- Resource Usage Compare
- Highlight Hot Spots



E-Business Application Management Information Publishing (Reporting)

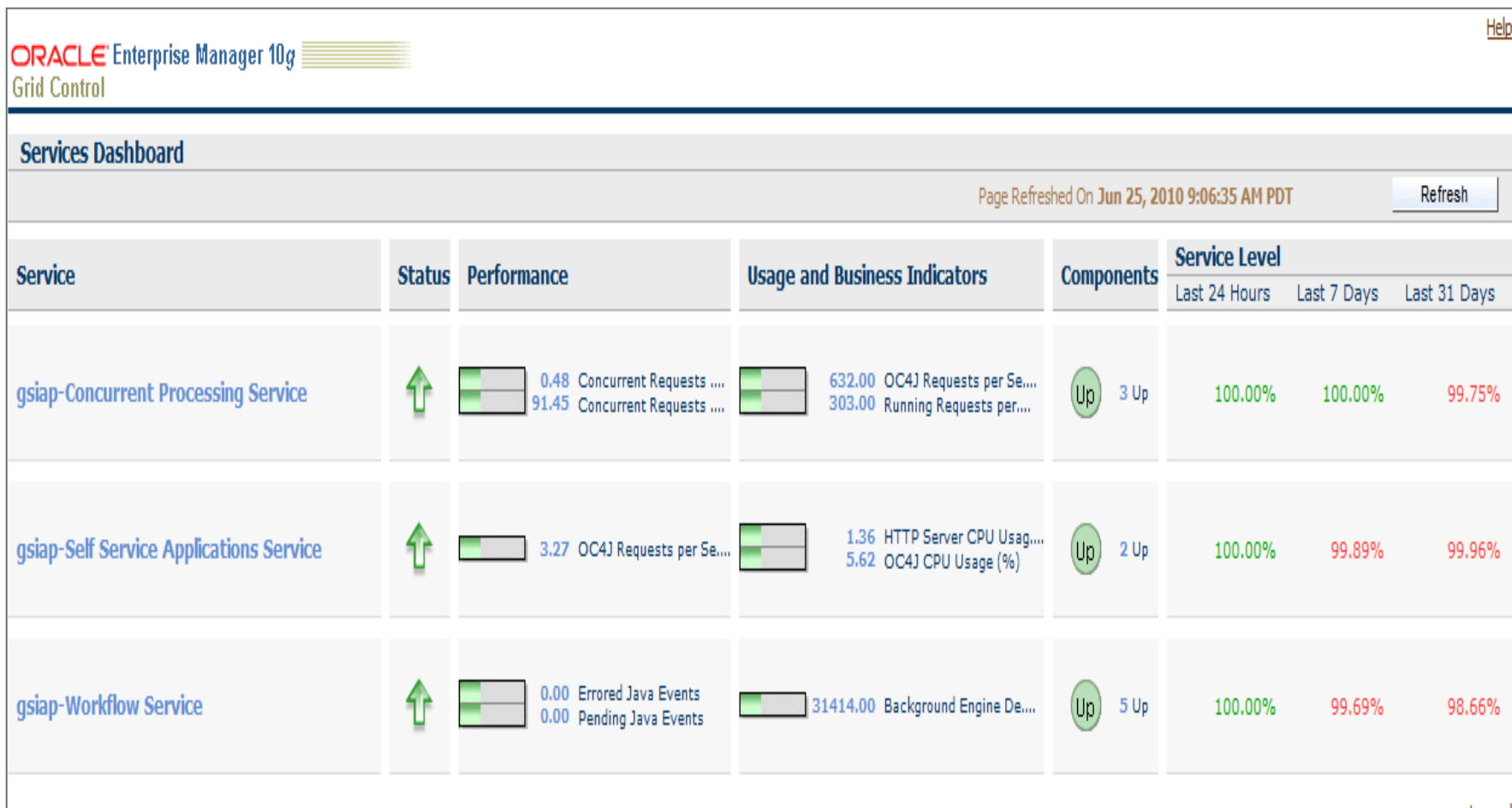
- Standard & Custom Dashboards
- Private or Public
- Application Availability Dashboard
- Infrastructure Services Dashboard
- Database Capacity
- Session Overview

E-Business Application Management Application Services Dashboard

- Application Status
- Module Usage
- Infrastructure Performance
- Service Level Status

PDIT Business Application Services Dashboard									
Page Refreshed On Jul 20, 2010 9:50:04 AM PDT								Refresh	
Service	Status	Performance	Usage and Business Indicators	Components	Service Level				
					Last 24 Hours	Last 7 Days	Last 31 Days		
GSI - iProcurement	↑	 6.33 CPU Utilization (%) 0.04 Swap Utilization (%) 1075.00 Connect Time (ms)	 3944.00 iProcurement Users	Up 1 Up	100.00%	99.69%	99.93%		
GSI - Emp Self Srv	↑	 126.00 Connect Time (ms) 4.70 CPU Utilization (%) 0.00 Swap Utilization (%)	 17719.00 Emp Self Srv Users	Up 1 Up	100.00%	99.78%	99.95%		
GSI - Mgr Self Serv	↑	 59.00 Connect Time (ms) 3.57 CPU Utilization (%) 0.00 Swap Utilization (%)	 3315.00 Mgmt Self Srv Users	Up 1 Up	100.00%	99.91%	99.98%		
GSI - Expenses	↑	 116.00 Connect Time (ms) 5.84 CPU Utilization (%) 0.02 Swap Utilization (%)	 8458.00 Expense Apps Users 5653.00 Expenses Submitted	Up 1 Up	100.00%	99.85%	99.96%		
GSI - Notifications	↑	 110.00 Connect Time (ms) 14.70 CPU Utilization (%) 0.01 Swap Utilization (%)	 0.63 Concurrent Requests ... 30.00 Concurrent Requests ... 215.00 Concurrent Requests ...	Up 1 Up	100.00%	100.00%	100.00%		
GSI - iRecruitment	↑	 118.00 Connect Time (ms) 14.82 CPU Utilization (%) 0.00 Swap Utilization (%)	 2880.00 iRecruitment Users	Up 1 Up	100.00%	100.00%	99.91%		

E-Business Application Management Infrastructure Services Dashboard



E-Business Application Management Database Capacity

Database Capacity Summary (GSIAP)

Cluster Database **gsiap.us.oracle.com**

Time Period **This Year PDT**

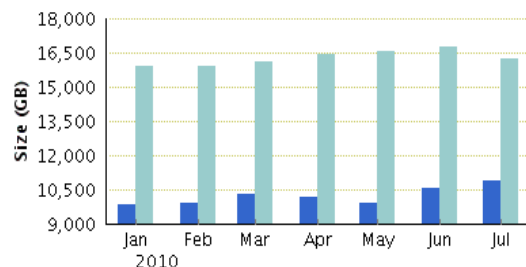
Report Generated Jul 20, 2010 9:49:18 AM PDT

This report displays the monthly cumulative allocated space usage for all tablespaces in the database. In addition, the detailed monthly allocated space usage of each tablespace is displayed for the selected time frame. Historic trend is based on available data for selected time frame. Space usage data is only available for databases managed by agent of version 10.2 and above.

Earliest Collection Time **Jan 1, 2010 12:00:00 AM**

Latest Collection Time **Jul 19, 2010 12:00:00 AM**

Monthly Cumulative Tablespace Allocated Space Usage



■ Average Used (GB) ■ Average Size (GB)

Calendar Month ▾	Average Allocated				Maximum Allocated				Minimum Allocated			
	Size (GB)	Used (GB)	Free (GB)	Used (%)	Size (GB)	Used (GB)	Free (GB)	Used (%)	Size (GB)	Used (GB)	Free (GB)	Used (%)
Jul 1, 2010 12:00:00 AM	16,226.78	10,902.52	5,324.25	67.21	16,795.85	10,990.55	5,935.33	68.09	16,081.47	10,777.6	5,132.34	64.66
Jun 1, 2010 12:00:00 AM	16,742.77	10,550.97	6,191.8	63.02	16,778.91	10,879.14	6,442.94	64.85	16,721.95	10,287.01	5,892.06	61.49
May 1, 2010 12:00:00 AM	16,540.84	9,900.14	6,640.7	59.85	16,675.12	10,040.85	6,752.28	60.21	16,458.61	9,736.65	6,554.66	59.07
Apr 1, 2010 12:00:00 AM	16,403.51	10,161.61	6,241.89	61.95	16,445.66	10,506.34	6,772.85	64.1	16,361.88	9,655.87	5,885.43	58.77
Mar 1, 2010 12:00:00 AM	16,125.52	10,295.88	5,829.65	63.85	16,361.88	10,405.29	6,062.79	64.92	15,999.23	10,132.52	5,621.94	62.92
Feb 1, 2010 12:00:00 AM	15,931.36	9,887.11	6,044.25	62.06	15,986.28	10,168.15	6,174.92	63.61	15,918.51	9,743.58	5,818.13	61.21
Jan 1, 2010 12:00:00 AM	15,886	9,819.78	6,066.22	61.81	15,918.51	9,976.58	6,401.29	62.79	15,850.73	9,449.44	5,912.04	59.62

E-Business Application Management Session Breakdown Report

Cluster Database **gsiap.us.oracle.com**

Report Generated Aug 26, 2010 7:30:25 AM PDT

This report identifies the number of connections to database by session type to illustrate the distribution across the different types of session.

Reported Instances

Database Targets

gsi1ap_agsidbs001.us.oracle.com
gsi2ap_agsidbs002.us.oracle.com
gsi3ap_agsidbs003.us.oracle.com
gsi4ap_agsidbs004.us.oracle.com

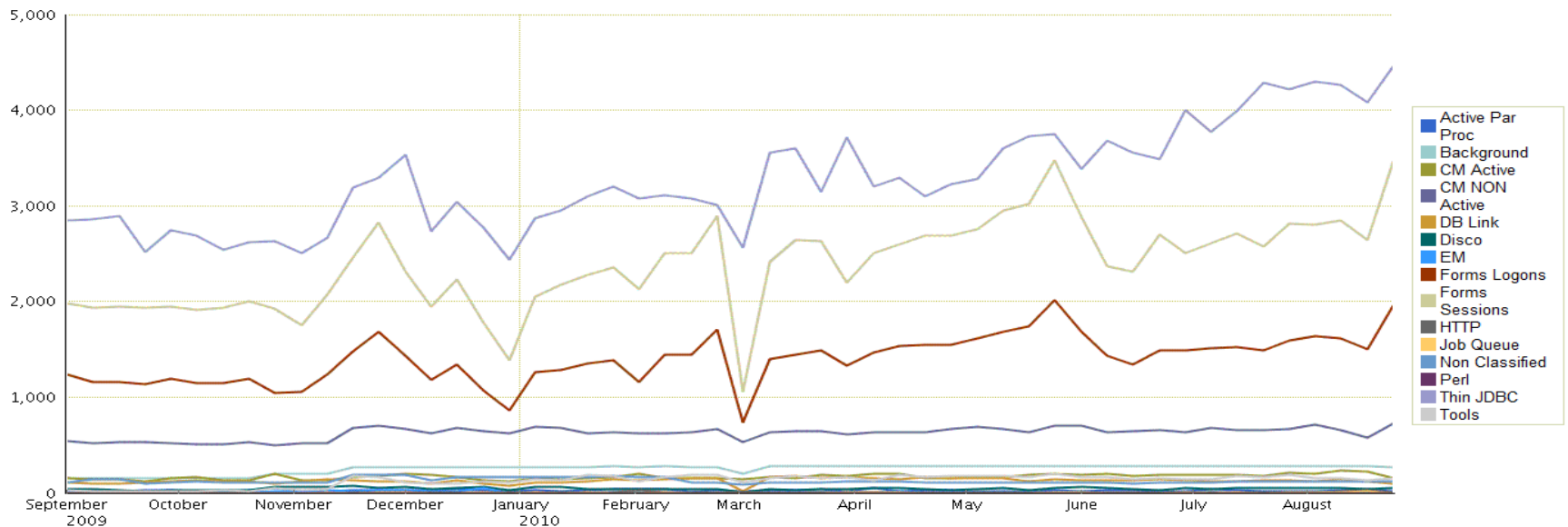
Reported Date/Times

[Return to Top](#)

Date/Time	Parameter
2009/08/26 07:30:25	Start Date
2010/08/26 07:30:25	End Date

Session Breakdown for All Instances

[Return to Top](#)



E-Business Application Management Performance – Java Virtual Machine (JVMs)

- Standard Metrics
- Real-time Data
- Alert Summary
- Memory Pools
- Garbage Collection

E-Business Application Management Performance - Java Virtual Machine (JVMs)

Application Server: amts671_hrms.amts671.us.oracle.com > OC4J: amts671_hrms.amts671.us.oracle.com_oacore > OC4J JVM: amts671_hrms.amts671.us.oracle.com_oacore_JVM_1

Home Performance

General

 Status **Up** (Black Out)
Up Since **Jun 23, 2010 11:37:14 AM**
Availability (%) **100**
(Last 24 Hours)
Oracle Home /u01/app/ebiz/gsiap/apps/tech_st/10.1.3
Oracle Instance </u01/app/ebiz/gsiap/inst/apps/ams671>
Version **1.5.0_05**
Host ams671.us.oracle.com

Alerts

Metric	Severity
No Alerts found.	

Host Alerts

Metric	Severity
No Alerts found.	

Related Links

[Monitoring Configuration](#)
[Alert History](#)
[Access](#)

Home Performance

Home | Targets | De

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[About Oracle Enterprise Manager](#)

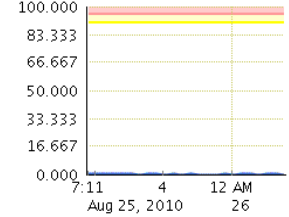
Application Server: amts671_hrms.amts671.us.oracle.com > OC4J: amts671_hrms.amts671.us.oracle.com_oacore > OC4J JVM: amts671_hrms.amts671.us.oracle.com_oacore_JVM_1

Page Refreshed Aug 26, 2010 7:09:38 AM PDT Refresh View Data Last 24 hours

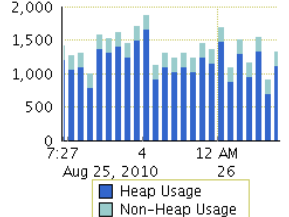
Home Performance

Resource Usage

CPU Usage (%)



Memory Usage (MB)

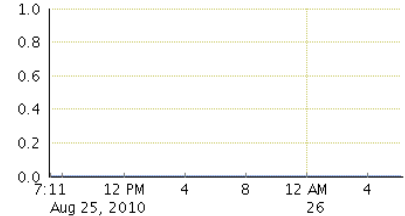


Active Threads

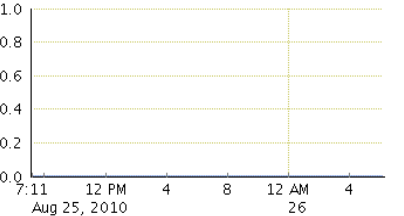


JDBC Usage

Open JDBC Connections



Active Transactions



Response

Servlets and JSPs (24 hour Averages)

Active Sessions	33.33
Active Requests	1.83
Request Processing Time (seconds)	0.63
Requests Per Second	0.66

EJBs (24 hour Averages)

Active EJB Methods	0.00
Method Execution Time (seconds)	0.00
Method Execution Rate (per second)	0.00

E-Business Application Management Concurrent Manager

- Overall Health
- Alert Summary
- Trend Analysis
- Highlight Problem Areas
- Throughput

E-Business Application Management Concurrent Manager

Oracle Applications: gsi

Overview Current A

General

↑ User Define

Hourly Completed Req

Components

Name

gsiap.us.oracle.com

gsiap-Core Managers for Co

gsiap-Apps Listener amts67

Alerts

Severity Metric

Oracle Applications: gsiap-Oracle E-Business Suite

Oracle Applications: gsiap-Oracle E-Business Suite: Concurrent Processing Dashboard

Overview Current Activity Usage User Defined Targets

Page Refreshed Aug 26, 2010 8:47:36 AM PDT

Concurrent Requests by Status

Pending Normal 10

Pending (Standby) 1

Scheduled 3840

Inactive (No Manager) 0

On Hold 439

Running 106

Hourly Completed Requests

Successful 3558

Warning 242

Error 13

Successful Requests Rate(%) 93.305329

Requests Warning Rate(%) 6.328782

Requests Error Rate(%) 0.341207

Concurrent Managers by Requests

View Running Previous 1-10 of 275 Next 10

Service Name	Service Short Name	Application Name	Status	Running Requests	Service Handle	Service Target Processes	Service Actual Processes
NODE4_Standard	NODE4_STANDARD	Application Object Library	UP	18.000000	FNDRPM	30.000000	30.000000
Standard_Manager	STANDARD	Application Object Library	UP	16.000000	FNDRPM	20.000000	20.000000
NODE2_Standard	NODE2_STANDARD	Application Object Library	UP	13.000000	FNDRPM	20.000000	20.000000
NODE3_Standard	NODE3_STANDARD	Application Object Library	UP	11.000000	FNDRPM	40.000000	40.000000
Priority	FNDLIBR30030	Application Object Library	UP	9.000000	FNDRPM	15.000000	15.000000
Payroll	PAYROLL	Application Object Library	UP	6.000000	FNDRPM	28.000000	28.000000
NODE4_Priority	NODE4_PRIORITY	Application Object Library	UP	5.000000	FNDRPM	15.000000	15.000000
Immediate	FNDLIBR30013	Application Object Library	UP	3.000000	FNDRPM	15.000000	15.000000
NODE1_Long_Running	FNDLIBR30029	Application Object Library	UP	3.000000	FNDRPM	3.000000	3.000000
NODE2_Long_Running	NODE2_OVERNIGHT	Application Object Library	UP	3.000000	FNDRPM	5.000000	5.000000

View Running Previous 1-10 of 275 Next 10

E-Business Application Management Workflow

- Configuration overview
- Change Management
- Save Configuration snapshot

Oracle E-Business Suite Workflow: qsiap-Workflow Infrastructure >

[Generic Service Components](#) [Custom Workflows](#)

View Configuration: Oracle E-Business Suite Workflow

Collected From Target: Aug 25, 2010 10:54:25 PM
Description: Latest Configuration

[Save](#) [Compare](#) [Compare to Multiple](#) [History](#) [Refresh](#)

Workflow Version

Version: 2.6 [History](#)

Generic Service Components

[Related Details](#) Previous 1-10 of 41

Select	Component Id	Component Name	Component Type	Component Type Display Name	Concurrent Queue Name	Concurrent Queue Display Name	Container Type	Container Type Display Name	Inbound Agent Name	Inbound Agent Display Name	Outbound Agent Name	Outbound Agent Display Name	Max Idle Time	Startup Mode
☒	28,023	wf_deferred_14_temp_wf	WF_AGENT_LISTENER	Workflow Agent Listener	WFALSNRVC	Workflow Agent Listener Service	GSM	Oracle Applications GSM	WF_DEFERRED	WF_DEFERRED				AUTOMA
☐	24,025	wf_java_deferred_c4_f	WF_JAVA_AGENT_LISTENER	Workflow Java Agent Listener	WFALSNRVC	Workflow Agent Listener Service	GSM	Oracle Applications GSM	WF_JAVA_DEFERRED	Workflow Java Deferred In Queue				AUTOMA
☐	24,024	wf_java_deferred_c3	WF_JAVA_AGENT_LISTENER	Workflow Java Agent Listener	WFALSNRVC	Workflow Agent Listener Service	GSM	Oracle Applications GSM	WF_JAVA_DEFERRED	Workflow Java Deferred In Queue				AUTOMA
☐	24,023	wf_java_deferred_c2	WF_JAVA_AGENT_LISTENER	Workflow Java Agent Listener	WFALSNRVC	Workflow Agent Listener Service	GSM	Oracle Applications GSM	WF_JAVA_DEFERRED	Workflow Java Deferred In Queue				AUTOMA
☐	24,022	wf_java_deferred_c1	WF_JAVA_AGENT_LISTENER	Workflow Java Agent Listener	WFALSNRVC	Workflow Agent Listener Service	GSM	Oracle Applications GSM	WF_JAVA_DEFERRED	Workflow Java Deferred In Queue				AUTOMA
☐	26,022	wf_deferred_13_temp_i	WF_AGENT_LISTENER	Workflow Agent Listener	WFALSNRVC	Workflow Agent Listener Service	GSM	Oracle Applications GSM	WF_DEFERRED	WF_DEFERRED				AUTOMA
☐	22,022	wf_deferred	WF_	Workflow	WFALSNRVC	Workflow	GSM	Oracle	WF_	WF_				AUTOMA

The Oracle Advantage



- ✓ **Business Driven**
- ✓ **Complete, Integrated**
- ✓ **Application-Specific**
- ✓ **Better Performance, Availability, Agility & Control for Applications**
- ✓ **Lower Application Management Costs**
- ✓ **Provide Path to Future**

Application Management Sessions at OpenWorld

Date & Time	Session	Location
Monday 12:30 p.m.	Automate Oracle E-Business Suite Testing With Oracle Application Testing Suite	Moscone W L2, Rm 2020
Monday 2 p.m.	How You Can Optimize Siebel Applications for Today and Prepare for the Future	Moscone W L2, Rm 2001
Monday 5 p.m.	Hands-on Lab: E-Business Suite Monitoring & Cloning	Marriott Marquis, Nob Hill
Tuesday 11 a.m.	Hands-on Lab: E-Business Suite Change Management	Marriott Marquis, Nob Hill
Tuesday 3:30 p.m.	Latest on Application Change Management for Oracle E-Business Suite	Moscone W L2, Rm 2024
Wednesday 4:45 p.m.	Hands-on Lab: E-Business Suite Monitoring & Cloning	Marriott Marquis, Nob Hill
Thursday 9 a.m.	Reduce TCO with Oracle Application Management Suite for Oracle E-Business Suite	Moscone W L2, Rm 2024
Thursday 10:30 a.m.	Best Practices for Managing Your PeopleSoft Applications	Marriott Hotel, Golden Gate A
Thursday 12 p.m.	Spot Problems Before Your Users Call: User Experience Monitoring for Oracle Apps	Marriott Hotel, Golden Gate A



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