ORACLE TUXEDO SYSTEM AND APPLICATION MONITOR PLUS

FEATURES

- One console for management and monitoring
- Manage all products in Tuxedo family
- Application topology discovery
- Application health status
- Application provisioning and deployment in private cloud
- Dynamic resource broker
- Routing topology monitoring
- Application services status and statistics
- Dynamic request broker
- System server status and statistics
- Transaction monitoring
- Monitoring for re-hosted mainframe applications
- Service level management
- Dynamic monitoring policy management
- Web-based reporting and management
- Dynamic configuration editing
- JMX Interface
- Jython based scripting tool
- Payload capture into Hadoop file system or Oracle Database
- Load generator using captured payloads
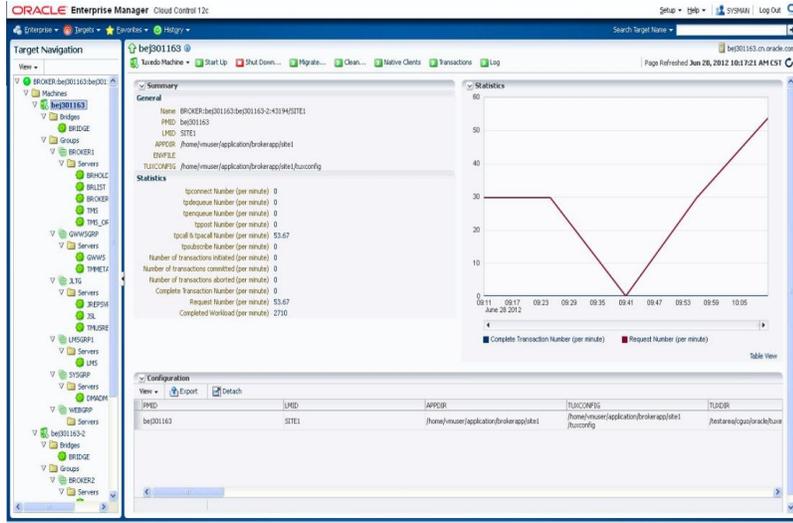- Support for private clouds

BENEFITS

- Improve the performance of Oracle Tuxedo applications
- Rapidly identify and resolve bottlenecks and system issues to minimize service downtime.
- Increase compliance with SLAs
- Automate manual and error-prone operations
- Integrate with existing system management applications to lower total cost of ownership.
- Track progress through real time and historical analysis to optimize IT investments.

Effective management of the application stack is critical to lower the total cost of ownership of enterprise mission-critical applications. Oracle Tuxedo System and Application Monitor Plus (TSAM Plus)'s capabilities of application performance management, service level management, and operations automation can be used to improve performance and availability of Tuxedo applications. Oracle TSAM Plus includes a Management Pack for Oracle Tuxedo, which integrates Tuxedo management and monitoring with Oracle Enterprise Manager, allowing Tuxedo infrastructure and applications to be monitored and managed from the same console as other Oracle products. It also include observers for the Tuxedo domain gateway and the WebLogic Tuxedo Connector for Oracle Business Transaction Management which allows the monitoring of composite applications spread across WebLogic Server and Tuxedo. With integrated management and monitoring, Tuxedo applications also benefit from many features of Oracle Enterprise Manager, such as automatic topology discovery, Tuxedo domain health and availability monitoring, comprehensive SLA management framework, and much more.

Application Performance Management

Oracle TSAM Plus greatly improves application performance by providing unique functionality to detect performance bottlenecks; quickly diagnose these performance problems, and identify their root cause. With the ability to capture service payloads and then replay those requests to load test applications, TSAM Plus provides the necessary tools to perform repeatable performance analysis of Tuxedo applications. No longer is it necessary to create application specific load tools and load scripts or generate test data. TSAM Plus can capture request payloads in real-time during production to create load testing data. Then using the built-in load testing tool, users can stress test their applications to find bottlenecks and determine application capacity.

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Figure 1: Oracle TSAM Plus facilitates the collection of performance data and system statistics to help lower downtime and maintenance costs.

Key application performance management features of Oracle TSAM Plus include the following:

Application Performance Management	
Centralized Management	Allows management and monitoring from the same console
Out-of-the-box Monitoring	Predefined metrics for performance and availability, real-time monitoring. Historical monitoring for trends and reports
Centralized Incident Management	View, manage, diagnose and resolve incidents from same console
Event Monitoring	Critical and Warning threshold levels; notification rules and schedule; various notification methods: e-mail/page, SNMP traps, OS commands for corrective actions
Customizable Performance Summaries	Flexibility to create custom reports and charts from historical and real time monitoring data
Database request tracing	Callpath monitoring provides the ability to trace Oracle SQL statements that are executed as part of a service
Application Diagnostics	Real-time and historical monitoring and diagnostics; no application instrumentation or restarts required
ULOG Queries	Access to ULOGs of multiple domains from the same console; query based on severity and ECID
Routing Topology Viewer	Analyze call paths and dependencies within and across Tuxedo domains via graphical views; includes transaction monitoring
Dynamic Request Broker	Workload management across Tuxedo application nodes and server based on real time service response time

Service Level Management

Oracle TSAM Plus helps IT organizations to achieve high availability, performance, and optimized service levels for their business services. Key service level management features of Oracle TSAM Plus include the following:

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Service Level Management	
Business Service Modeling	Model services and underlying systems; define SLA compliance as flexible set of objectives on top of variety of metric indicators
SLA Management	Assess the business impact of any service problem or failure and understand whether service level goals have been satisfied
System server and Application service statistics	Comprehensive statistics, such as response time, queue length, CPU usage for system and application services
Accounting and Chargeback	Get service access statistics at user level for chargeback

Operations Automation

Oracle TSAM Plus automates common manual and error prone operations allowing administrators to focus on more strategic initiatives. With Oracle TSAM Plus, Tuxedo applications can be packaged in a self contained application package along with required configuration artifacts and stored in a central repository, ready for deployment, to an existing domain, or to interactively create a new Tuxedo domain or to add additional nodes to an existing domain. Existing applications can be introspected to derive application packages to simplify the packaging of applications for deployment into new environments. Both physical and virtual environments are supported.

In addtion, with Oracle TSAM Plus, it is much easier to make changes in configuration of Tuxedo applications in production environment without having to restart the application, thus avoiding costly downtime. With Oracle TSAM Plus, a Tuxedo domain can be changed dynamically, in addition to creating a new Tuxedo domain from scratch. Oracle TSAM Plus also helps with automating day-to-day operational tasks, such as starting and stopping applications and starting new instances of an application server.

Key operations automation features of Oracle TSAM Plus include the following:

Operations Automation	
Scripting Tool	Provides Jython interface for writing scripts quickly for Tuxedo system and application management and monitoring. Scripts can be used to automate operations, collect runtime statistics, perform administrative tasks, etc.
Domains Configuration Wizard	Create a new Tuxedo domain from scratch
Dynamic configuration editing	Change Tuxedo configuration dynamically, without application restart
Provisioning Framework	Centrally deploy Tuxedo applications; user defined deployment procedures; create Tuxedo domains from scratch or add to an existing domain
Centralized Software Library	Single page for creating and accessing application packages
Deploy/Undeploy Tuxedo Applications	Procedures to automate deployment, un-deployment, re-deployment of applications to/from domain(s)
Auto Scale Up/Out Tuxedo Domains	Automatically add capacity to existing Tuxedo domains to accommodate increases in load
Automate Disaster Recovery Operations	Supports stopping and starting a node, switchover and failover/failback operations
Administrative Tasks	Perform day-to-day operational tasks such as start/stop applications

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Business Intelligence

Oracle TSAM Plus allows service request and response payloads to be captured automatically without any modification to application code or binaries. The payloads can be stored in the Hadoop file system or Oracle database for later retrieval and analysis by tools such as Oracle Business Intelligence. Which payloads and what content from the payloads is dynamically configurable to help tailor the collection of data to those services and elements that are of interest to the business analyst.

Business Intelligence	
Payload Capture	Tuxedo service requests and replies can be automatically captured without changing application code
Hadoop File System	Captured payloads can be stored in the Hadoop File System for later analysis
Oracle Database	Captured payloads can be stored in an Oracle Database for later analysis
Oracle BI	Oracle BI tools can be used to analyze the contents of the payloads
Configurable Captuure	Users can define policies governing which payloads are captured
Selective Payload Capture	Specific fields of the payloads can be included or excluded from the captured payloads

Private Cloud

Oracle TSAM Plus provides support for using private clouds to deploy and run Tuxedo applications. The Oracle Enterprise Manager plug-in provided by TSAM Plus allows the provisioning, administration, and management of private cloud resources to create Tuxedo Platform as a Service. Using the OEM Cloud Management, one can define service templates that control the provisioning of Tuxedo applications. These templates can be selected by users in a self service portal to create fully provisioned and configured Tuxedo instances. Service quotas allow the cloud provider to limit the resources available to users.

Private Cloud	
Self Service	Users can request Tuxedo PaaS services for automatic provisioning and deployment of a new instance
Service Templates	Preconfigured Tuxedo applications ready to be instantiated
Domain Introspection	Tooling to introspect and existing Tuxedo domain and create a domain package to be used in a service template
User Quotas	Administrators can define the amount of resources a user is allowed to allocate in their deployed applications
Resource Pools	Administrators can define pools of physical and virtual resources to be made available to users
Provisioning Profiles	Users can define profiles that define what Tuxedo products and applications need to be deployed and configured
Tuxedo Topologies	Both single machine and cluster configurations are supported

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RELATED PRODUCTS AND SERVICES

Oracle Tuxedo delivers a robust platform to run high-volume applications across distributed, heterogeneous computing environments, enabling transactions that stretch from customer-facing, business-critical applications to back-office processes, across any system, anywhere in the world.

RELATED PRODUCTS:

- Oracle Tuxedo
- Oracle Tuxedo Advanced Performance Pack
- Oracle Enterprise Manager
- Oracle Exalogic Elastic Cloud
- Oracle Service Architecture Leveraging Tuxedo (SALT)
- Oracle Tuxedo Mainframe Adapter
- Oracle Tuxedo Message Queue
- Oracle Tuxedo Application Runtime for CICS and Batch
- Oracle Tuxedo Application Runtime for IMS
- Oracle Tuxedo Application Runtime for Batch

Contact Us

For more information about Oracle TSAM Plus, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

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