

Teleran Complements Oracle Enterprise Manager

Challenges of Managing Data Warehouses and other Dynamic, User-Driven Applications

Business intelligence, data warehousing, and other user-driven analytical applications are dynamic, resource intensive and unpredictable. They allow each business user the freedom to create their own “application” or analyses on-the-fly responding to changing business demands, new reporting requirements, and updated data. System use in these dynamic environments is subject to unpredictable user behavior, rogue applications, and malformed queries that generate database errors or incorrect results. These conditions can reduce business performance and productivity while increasing application and end-user support costs.

Oracle Enterprise Manager (OEM) is an effective tool to manage database processes and to tune recurring long running queries. However, OEM was not designed to address dynamic, user-driven application challenges where new queries are generated every day. A complementary but different approach is required.

teleran DYNAMIC APPLICATION management

User and Application Management For Data Warehouse and Application Managers

Teleran’s iSight™ product is designed for application and data warehouse managers to gain visibility on how all users and applications are interacting with the database at the database object level. This information is used to identify unused data, adjust the application model, identify inappropriate or wasteful user activity and understand how the business actually uses the applications and data.

Continuous Capture of User, Application, Query and Database Object Activity on the Network

iSight intercepts and correlates all end user identities (LDAP ID, application ID, IP, OS ID and DB ID), application level activity (report name, semantic layer), all SQL queries, and database objects accessed. iSight resides on the network and tracks usage information continuously, adding no overhead to the database. Because in dynamic applications each transaction is different, iSight captures each and every transaction across the four dimensions of the application environment. This enables iSight to provide a comprehensive and detailed picture of overall usage that is required to understand and manage dynamic users and applications.

Teleran’s solution also includes iGuard™, a query and user policy management system that prevents users from launching resource wasting or inappropriate queries that slow overall performance and waste system resources. iGuard also includes a real-time user messaging system that guides the business user to interact with the system more efficiently and effectively.

oracle ENTERPRISE MANAGER

Database Administration and SQL Tuning for DBAs

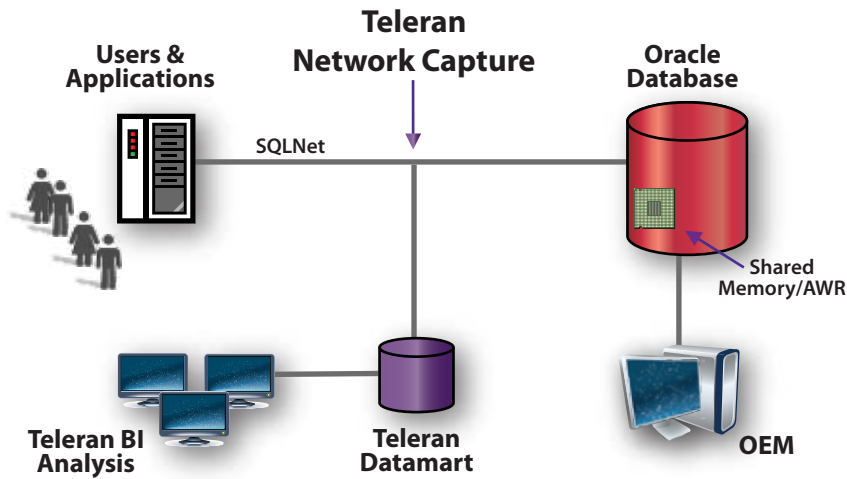
Oracle Enterprise Manager (OEM) when used with the Diagnostics Pack is designed specifically for DBAs to diagnose database level issues, such as CPU/IO bottlenecks, poor connection management, undersized memory, and lock contention. OEM in conjunction with the Tuning Pack is designed for DBAs to tune resource intensive SQL. This is an effective way to tune SQL that is run over and over again.

Snapshot Collection of Long Running SQL in the Oracle Database

Both the Diagnostics and Tuning Packs use information stored in the Oracle Automatic Workload Repository (AWR). The AWR is populated by the database, which at regular intervals (once an hour by default), uses a snapshot capture process to collect information from the database shared memory pool. For the purposes of SQL tuning, the database captures and stores only those queries running over a specified threshold which are then accessed by the Tuning Pack.



OEM and Teleran Architectures



OEM/Teleran Points of Comparison

Targeted Role	OEM	DBA
	Teleran	Application Managers, Data Warehouse Managers, Information Management, Architects, Business Analysts
Product Purpose	OEM	SQL performance tuning. System level database administration
	Teleran	Identify unused data, adjust application model based on actual use patterns, identify inappropriate, wasteful user/application activity, model business use of applications and data
Capture Mechanism	OEM	Shared memory pool inside the Oracle database
	Teleran	On the network at the SQLNet layer outside the Oracle database
Metrics Captured	OEM	Database system (CPU, IO, Wait Stats, Long Running SQL)
	Teleran	User identities (LDAP, Application, OS and DB user IDs), Application level activities (report name, semantic layer), parsed queries, database objects accessed
Capture Period	OEM	Periodic snapshot
	Teleran	Continuous real-time capture
Query Detail	OEM	Long running queries above a threshold, aggregated by snapshot time period
	Teleran	Every query 24x7
Reporting Mechanism	OEM	Script-based reports from AWR snapshots
	Teleran	BI reporting and ad hoc analysis from persistent historical datamart