Agenda

• Application Testing Suite (ATS) & Oracle Test Manager Overview
• Starting with Oracle Test Manager
  ✓ Installation & Deployment
  ✓ Administration
  ✓ Test Plan
  ✓ Requirements
  ✓ Tests
  ✓ Test Execution
  ✓ Issues
  ✓ Reports & Dashboard
  ✓ Menu Options
• Product Demo
Oracle Application Testing Suite
A powerful, integrated testing solution for ensuring application quality, performance and reliability

Oracle Functional Testing (OpenScript)
Automated functional & regression testing
Also Generates Load Testing Scripts

Oracle Test Manager
Test process management, requirements and defect tracking

Oracle Load Testing
Automated load & performance testing
Oracle Test Manager

Enables consistent delivery of high-quality, high-performance applications by bringing structure, repeatability, and visibility to testing efforts.

Key Benefits
• 5 integrated modules provide complete test process management
  ✓ Test Plan
  ✓ Requirements
  ✓ Tests
  ✓ Test Execution
  ✓ Issues
• Facilitates team communication and efficiency
  ✓ Common repository for all test assets
  ✓ Web-based interface for easy access
• Easily customized to accommodate existing test practices
  ✓ Manual and automated tests
  ✓ User-defined roles and fields
• Increase visibility of app readiness
  ✓ Pre-packaged reports & dashboards
  ✓ Customized reports & dashboards
Oracle Test Manager Modules

• OTM provides 5 integrated modules for managing:
  • **Test Plans**: Define test scope for a feature or functionality
  • **Requirements**: Document and manage all of your test requirements
  • **Tests**: Manage all of your manual and automated test cases
  • **Test Execution**: Design test sets to reflect application modules, versions, or sprints to be tested
  • **Issues**: Generate defects for any issues identified during testing and track their resolution
• OTM allows you to then report on all test assets
  • **Reports**: Allows you to view default reports or create custom reports for project requirements, tests, issues
  • **Dashboards**: Allows you to create multi-report dashboard views
• Administrator allows you to specify users, permissions, projects and customize fields to fit your test process
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Oracle Test Manager System Requirements

• Oracle Test Manager has the following system requirements:

  • Memory: Minimum 2 GB
  • System: x86, 32-bit or 64-bit processor, 2.6 GHz or faster
  • Disk Space: 10 GB minimum free (at least 3 GB free on the system drive)
  • Browser: Internet Explorer 7.x, 8.x, 9.x, Firefox 3.5/3.6, 6.x
  • Database: Oracle EE 10g or 11g, XE 10g
  • Application Server: Oracle WebLogic 11g (10.3.5.0). Oracle Application Testing Suite requires the standard WebLogic Server installation (which includes jrocket jdk.). It does not support generic versions of WebLogic Server installation (such as those that use wls1035_generic.jar).
  • Oracle Test Manager and Oracle Load Testing utilize the same WebLogic Server architecture and can run on the same server for demo purposes. For production deployment we recommend separate servers for OTM and OLT.
Oracle Test Manager System Requirements (Cont.)

• These are minimum requirements only and actual requirements for Oracle Test Manager will vary depending on:
  • Quantity of test assets stored
  • Number of concurrent users accessing the application

• If you have a large quantity of test cases, requirements or issues stored and/or are deploying Oracle Test Manager for a team greater than 10 users, you should consider deploying Oracle Test Manager on a faster server class machine with additional RAM.

• Oracle 10g Express Edition (XE) database can be installed as part of ATS for use with Oracle Load Testing and Oracle Test Manager. This is useful for demos, for production usage switching to Oracle's 11g Enterprise Edition database is highly recommended. Oracle 11g Standard Edition and Oracle 10g EE or SE are also supported.

• Please see Release Notes for additional System Requirement considerations.
Oracle Test Manager Architecture

Oracle Test Manager Server (OATS Application Service)

Test Plan
Requirements
Tests
Test Execution
Issues
Reports/Dashboards

Test Manager Users
(IE or Firefox browser)

User 1
User 2
User 3
User n

WebLogic Server

OTM Database

Oracle DB
Oracle Test Manager Components

• OTM Server:
  • “OATS Application Service” is used to run the OTM Server
  • Typically one OTM Server per deployment
  • WebLogic 11gR1
  • Web-based user interface accessible through IE or Firefox

• OTM Database: OTM Database is used to store all assets managed by OTM
  • Oracle 11g and 10g are supported
  • 11g EE restricted use license included with OTM
  • Oracle XE is included with installer for out-of-the-box demo functionality
  • Production systems should use a full standalone Oracle database instance
Database Configuration

- OLT & OTM databases can be configured from the same DB Configuration utility
- Shows you all existing database connections
- Use DB Configuration utility to create new schema or connect to existing schemas
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**Administrator**

Welcome. Please log in.

- **Username:** Administrator
- **Password:** ********
- **Database:** OATS.otm_DS

---

### Users

<table>
<thead>
<tr>
<th>User</th>
<th>First Name</th>
<th>Last Name</th>
<th>E-Mail</th>
<th>E-Mail Notify</th>
<th>Administrator Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>demo</td>
<td>Default</td>
<td>User</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>admin</td>
<td>Administrator</td>
<td>User</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>qa</td>
<td>QA</td>
<td>Engineer</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

3 users

### Roles for default

<table>
<thead>
<tr>
<th>Project</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demo Project</td>
<td>Full Access</td>
</tr>
</tbody>
</table>
Administrator for Test Manager

• Allows you to manage users, permissions, projects, and fields
• Create new user accounts or update existing ones
• Setup role-based user permissions for each project
• Add, delete, and manage projects
• Add or modify fields, update option values for project specific and general system fields
Administrator – Access & Login

• Launch Administrator from the programs menu (Oracle Application Testing Suite→Administrator) or http://<servername>:8088/admin

• Select the Test Manager database you want to administer when logging in to Administrator
  • The “OATS_otm_DS” database is the default database configured for you on install for demo purposes
  • You can configure additional databases using Database Configuration utility
  • Need to restart OTM server to access newly created databases

• Login with username “administrator” and default password which you specified during install
  • Modify “administrator” password or grant user accounts Administrator access after logging in
Administrator – “Users” Tab

- Add new user accounts in the Users tab
  - Specify account username, password, email, etc.
  - Enable email notifications and Administrator access
- Assign users to projects based on roles
Administrator – “Roles” Tab

- Add new roles or edit existing roles
- Assign permissions to each role
- Users will be assigned a role for each project to control their permissions for that project
Administrator – “Projects” Tab

- Create new projects in the Projects tab
  - Projects are used to store common test assets that you want to keep together for a specific application, module, release, etc.
  - You can store multiple projects per database or a single project per database
    - A separate project per database gives you more control to customize the fields / permissions for that project since you administer each separately
- Can assign multiple users to a project through Projects tab
Administrator – “Fields” Tab

- Manage default and custom fields for Test Plan, Requirements, Tests, Test Sets, Issues and Test Runs in Fields tab
  - Enable, disable, or edit Default fields
  - Add or edit Custom fields
  - Change the order that fields or options are displayed
  - Specify which field changes trigger email notifications
Administrator – “Tools” Menu

• Setup Email Configuration
  • Allows you to configure SMTP server to send email alerts from OTM
  • Specify general email notification rules
• Manage Default Reports
  • Allows you to control which default reports are viewable
  • Specified for each user
• Purge Deleted Records
  • Purges all records marked for deletion from database
  • By default only “delete” flag is set when users delete from OTM UI
• Unlock Locked Records
  • Allows you to unlock all locked database records
  • Useful if you have a crash or related issues
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Test Plan – User Interface

- Test plans can be created in a multi-level hierarchy
- Users can specify detailed information for each test plan
  - Fields can be customized through the Administrator
  - Test plans are automatically numbered when you add them
Test Plan – Add / Edit

• Click “Add” or “Edit” buttons in toolbar to create / modify test plans
  • Use arrows to move up/down or indent/outdent test plans in the tree hierarchy
• Test plan fields are a combination of default and custom fields specified through the Administrator
  • Specify which fields are required and change field order as well
  • Add or modify option values for option list fields
Test Plan – Attachments & Associations

- Users can specify file attachments or links for each test plan.
- Test plans can be associated with the requirements that are being tested for traceability.
- Test sets associated to the test plan are also displayed.

![Test Plan - Attachments & Associations](image)
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Requirements – User Interface

• Requirements can be created in a multi-level hierarchy
  • Outline requirements and specify detailed sub-requirements
• Users can specify detailed information on each requirement
  • Fields can be customized through the Administrator
• Requirements are automatically numbered when you add them

![Diagram of Requirements Tree View and Requirement Details]
Requirements – Add / Edit

• Click “Add” or “Edit” buttons in toolbar to create / modify requirements
  • Use arrows to move up/down or indent/oudent requirements in the tree hierarchy
• Requirement fields are a combination of default and custom fields specified through the Administrator
  • Specify which fields are required and change field order as well
  • Add or modify option values for option list fields
Requirements – Attachments & Associations

- Users can specify file attachments or links for each requirement
- Requirements can be associated with the test plans that are used to validate them for traceability
- Test cases associated to the requirement are also displayed
Requirements – Grouping

- Requirements can be grouped by field values
- Group settings can be stored and accessed from toolbar
Requirements - Filtering

- Requirements can be filtered by field values
- Filter settings can be stored and accessed from toolbar
  - These named filters can also be used in Search and Reports
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Tests – User Interface

- Users can create a multi-level test hierarchy to organize all test cases
- Manual test cases can be documented and stored with detailed information on test steps and expected results
- Automated test scripts created in OpenScript can be documented and stored in Oracle Test Manager
- Users can execute both manual and automated test cases from right click > Quick Run
Tests – Add / Edit

- Click “Add” or “Edit” buttons in toolbar to create / modify Tests
  - Use arrows to move up/down or indent/outdent in Tests tree
- Test Steps are specified separately (click Add/Edit in Test Steps section)
  - Manual test case Test Steps are created by test case developer
  - Oracle OpenScript Test Steps are imported from OpenScript
Tests – Attachments & Associations

- Users can specify file attachments or links for each test case
- Test cases can be associated with the requirements that they are used to validate
- Test cases can be associated to test sets & issues
Tests – Manual Tests

• “Manual Test” is used to store test definitions and detailed tests steps for manual execution
  • Test developer must specify actions and expected results for each test step
• Highlight test case > right click > select “Quick Run” to execute manual tests through the Tests tab
  • Test Run fields allow users to store information pertaining to that test run
  • Users then enter pass/warning/fail result and comments for all test steps and test case
  • Results are archived in Run History
Tests – Oracle OpenScript Tests

• “Oracle OpenScript” test is used to store automated scripts from OpenScript
• Highlight test case > right click > select “Quick Run” to execute OpenScript scripts through the Tests tab
• Test Run dialog allows users to specify what system to run test on and information pertaining to that test run
  • Test Manager launches OpenScript, loads the script and runs it
  • Results are retrieved and archived in Run History
  • Test execution can also be scheduled through Test Manager Scheduler or executed as part of a Test Set
Tests – Oracle OpenScript Replay

• Before running OpenScript test from OTM, make sure the following requirements are met.
  • Both OpenScript and OATS agent need to be installed on the OTM agent box.
  • Both ‘Oracle ATS Agent’ and ‘Oracle ATS Helper’ services need to be running.

• If you are running script on same box as OTM server, then you should already have everything installed (OpenScript, OATS agent, OTM). Please check if required services are running.

• Make sure the script is accessible by the OTM agent box by doing one of the following:
  • Copy the script to the same location on the OTM agent box. For example, if script is located at C:\OracleATS\OFT on OTM server, it needs to be copied to the same location on the agent machines.
  • Create a repository that points to a shared network drive where the script resides (i.e. \<hostname>\OFT). For example, scripts are saved under C:\OracleATS\OFT on OTM server. This OFT folder needs to be shared on the OTM server and accessible by OTM agent machines.
The following types of OpenScript scripts require them to be run using an interactive desktop of a named Windows user account that is always logged in.

- Siebel Functional
- Oracle Forms Functional
- Web Functional scripts that rely on system input events, such as key press or mouse click
- Web Functional scripts that display modal dialog windows

For Siebel and Oracle Forms, the named user's account must have visited the Siebel or Oracle Forms site at least once to ensure that all necessary ActiveX controls and plug-ins are installed in the named user's browser.

On the Oracle Test Manager agent machine that will run the scripts, stop the ‘Oracle ATS Agent’ service and configure it to start manually (Start > Run > services.msc > highlight ‘Oracle ATS Agent’ > click ‘Stop Service’).

On the Oracle Test Manager agent machine, login as the named Windows user account that will run the scripts. From a command prompt, run the following all as one command where C:\OracleATS is the OATS installed folder:

C:\OracleATS\agentmanager\bin\AgentManagerService.exe -c C:\OracleATS\agentmanager\bin\AgentManagerService.conf
Tests – Oracle OpenScript Replay (Cont.)

• **Important:** Windows Vista, 2008 or Windows 7 users, select Run as Administrator from the right-click shortcut menu when launching the Command Prompt (Start > All Programs > Accessories > Highlight 'Command Prompt' > Right click and select 'Run as administrator').

• **Tips for a successful OpenScript replay from Oracle Test Manager:**
  • By default OTM does not display browser during script replay. To see the browser, stop OATS Agent Service and start it from the Command Prompt (Instructions provided on previous slide).
  • By default OTM does not replay script with think time. To do so you must enter '-delayPercentage mode' into the 'Command line run setting' field of the test case. *Mode* values are explained in OpenScript User’s Guide section A.2.1 General Settings.
  • If replay is failing, try starting the OATS Agent Service from the Command Prompt.
  • If replay fails and the script type you’re running does not require an interactive desktop, you can try running ‘Oracle ATS Agent’ service as a Windows named user account. No browser will be displayed during replay via this method.
    • Stop the ‘Oracle ATS Agent’ service.
    • Right click on the Service > Properties. Click on Log On tab and select ‘This account’ radio button.
    • Enter the username & password for a Windows named user account. Typically this is the same account used to log into the agent box. Click ok and start the service.
Tests – Other Test Type Options

• Test Folder
  • Creates a “folder” node to organize test cases in hierarchical view
  • Not useful if you will be Grouping by specific fields

• 3rd Party Test
  • Allows you to launch batch executables and retrieve results
  • Useful for integrating 3rd party test tools that provide Command Line Interface (CLI) or similar interface to launch execution

• JUnit Test
  • Execute JDeveloper Unit Tests from Test Manager
  • Flexible IDE supports full Software Development Life Cycle
  • Support for single unit tests or groups of unit tests
  • All testing centralized within a unified reporting instance
Tests – Grouping

• Test cases can be grouped by field values
• Group settings can be stored and accessed from toolbar
Tests - Filtering

• Tests can be filtered by field values
• Filter settings can be stored and accessed from toolbar
  • These named filters can also be used in Search and Reports
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Test Execution – User Interface

- Users can create a multi-level test folder and test set hierarchy
- Add both manual and automated test cases to a test set
Test Execution – Add / Edit

- Click “Add” or “Edit” buttons in toolbar to create / modify test sets or test folders
  - Use arrows to move up/down or indent/outdent in Test Execution tree
  - Test cases can be added to a test set by clicking Add/Edit link in Test List section
Test Execution – Attachments & Associations

• Users can specify file attachments or links for each test set or test folder
• Test sets / test folders can be associated with requirements, test plans, and issues
Test Execution - Filtering

- Test Sets can be filtered by field values
- Filter settings can be stored and accessed from toolbar
  - These named filters can also be used in Search and Reports
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Issues – User Interface

- Issues tab lets you document bugs or other issues identified during testing, assign to developers and track their resolution
- Issues can be associated with Tests and with other related issues
- When you add an issue, it is automatically assigned the next available number in the database and is added at the bottom of the list
  - This number cannot be changed
  - No tree hierarchy exists

Issues Tree View

Issue Details
Issues – Add / Edit

- Click “Add” or “Edit” buttons in toolbar to create / modify issues
- Issues fields are combination of default and custom fields specified through the Administrator
Issues – Attachments & Associations

• Users can specify file attachments or links for each issue
• Issues can be created during a manual test case run and associated to that test case automatically
• Issues can be associated to other issues
Issues – Grouping

- Issues can be grouped by field values
- Group settings can be stored and accessed from toolbar
Issues - Filtering

- Issues can be filtered by field values
- Filter settings can be stored and accessed from toolbar
  - These named filters can also be used in Search and Reports
Oracle Test Manager - 5 integrated Modules

**Test Plan**
- Define how you design test flow for a specific feature or functionality
- Single Test plan can have multiple test requirements
- Associate and track Test cases

**Requirements**
- Define, Manage, test requirements
- Associate and track Test cases

**Tests**
- Define, Manage Test cases
- Store Reproduction steps
- Store Test results
- Associate, track issues

**Test Execution**
- Define and manage test sets
- Add Tests to the Test Sets
- Execute Test sets
- Store & view execution results
- Associate, track Issues

**Issues**
- Manage Defects find during the tests
- Associate with test cases for the reproduction steps

**Reports**
- Pre-defined Graphical and HTML reports
- Create your own custom reports
- Reports can be saved, emailed, exported

**DashBoard**
- Overview of the selected Reports
- Provides At-a-glance view
- Fully Customizable to shows which report to display

**Administration**
- A separate tool manages user accounts, permission
- Manage & customize fields to fit the testing preference

Oracle Test manager allows you to define, manage these test modules and links together so that you can keep track on the testing status.
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Test Manager – Reports

- Reports allow you to view information on the entire test project
  - Leverage default summary reports / charts or create your own customized reports
  - Print reports or export to Excel/HTML (text reports) or JPEG (chart reports)
  - Save report as public or private (My Reports)
Reports - Create a Report

- Click “Add Report” to create a custom report
  - Define Report – Lets you select what to report on, report type and which fields to include
  - Define Filters – Lets you specify filters or select stored filters for data you want to report
Test Manager – Dashboard

- Dashboards allow you to combine multiple reports into a single view
  - Include default or custom reports in your dashboard
  - Store it as public or private (My Dashboards)
Dashboards - Create a Dashboard

• Click “New Dashboard” button, then select any number of default or custom reports to add to the dashboard
• Save Dashboard as public or private
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Test Manager – “Project” Menu

• Open
  • Allows user to select which project to open and work on
  • User can only open projects they have permission to view or edit

• Import Data
  • Data can be imported for requirements, issues, test folders, test cases, and test run results for manual tests
  • User importing must have write access
  • Supports CSV/XLS format
  • Import templates can be found at [Install Dir]\data\samples\otm\import

• Export Project
  • Allows user to export test plans, requirements, tests/test sets, issues, and attachments from the Web UI
  • Use the exported zip file to import data into another OTM project or server
Test Manager – “Tools” Menu

• Systems
  • Manage OTM agents to connect to when executing scripts remotely
  • Default system is “OTM Server” for localhost and comes pre-configured with installation

• Repositories
  • Manage script repositories for automated test cases
  • Default repository is “Default” for localhost ([Install Dir]\OFT) and comes pre-configured with installation

• Options
  • Configure user information, tree preferences, change password, and reset user state for logged in user
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