Getting Better All the Time:
Oracle Reports Release 11g

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Oracle Reports 11g

Themes

• Tighter integration with Fusion Middleware Platform
• Simplify administration and management
• Address top supportability areas with architectural changes
• Key features in enterprise reporting capabilities
• Automated smooth upgrade
Tighter integration with Fusion Middleware Platform
Fusion Middleware Platform Integ’n:

- Integrated and runs on Oracle WebLogic J2EE Server
- Simplified administration of complex topologies and deployments
- Separation of Oracle Home and Instance Home, reports-only install
- Integration with Dynamic Monitoring Service
- JMX MBeans for configuration
- Process Control and Notification Service

Theme: Tighter integration with Fusion Middleware Platform
Service-Oriented Architecture (SOA) Integration

• Feature
  • Reports: BPEL Process Manager integration
  • Submit Reports jobs from the BPEL business process / get the execution status in the BPEL process
  • Invoke a BPEL business process from your reports

• Benefit
  • Easy to including reporting requirements in the business process, for example, submit a report request when an order gets approved

Theme: Tighter integration with Fusion Middleware Platform
Simplify Administration and Management
Comprehensive Monitoring and Management

- New Enterprise Manager: Rich and customizable user interface, Standard JMX based
- Configure, monitor, and manage complete reporting environment from Reports EM pages
- Comprehensive configuration, security, scheduling, metrics, tuning, and diagnostics
- Administration dashboard: Start, stop, restart, grouping, servlet, plug-in registration…
- Huge reduction of configuration parameters, and categorization
- Report server auditing
- Portal metadata repository discovery and association

Theme: Simplified Administration and Management
Comprehensive Management
Reports Server home page

- Extensive real-time and historical performance metrics
- Trend graphs, key statistics
- Event-based alerts
- Notification to administrators
- Anticipation of common problems with early symptoms
- Navigation to all Reports Server and associated pages
- Reports Jobs and Engine information

Theme: Simplified Administration and Management
Comprehensive Management
View all the Reports configuration using EM pages

Theme: Simplified Administration and Management
Job Administration

- Comprehensive job queue management
- Better job information
- Search and filters
- Resubmit the job
- View logs and traces

Theme: Simplified Administration and Management
Job Scheduling

- Eliminates need of Portal UI
- Provides a rich calendar-based scheduling interface
- Includes granular scheduling parameters
- Allows you to configure all the job options

Theme: Simplified Administration and Management
Focus on Diagnosability

• More comprehensive and intuitive choices for turning on tracing
• Switch trace options and levels without server restart
• Critical errors logged even when tracing is off
• Conformance to Oracle Diagnostic Logging (ODL)
• Control trace file size / better naming convention
• Improved actionable errors with cause and action
• Dump utility for debugging
• Online Links to contextual help, and error message registry
• Better health-check mechanisms

Theme: Simplified Administration and Management
Enhanced Trace Viewer and Search

Theme: Simplified Administration and Management
Address Top Supportability Areas with Architectural Changes
New J2EE-Based Security Architecture

- New J2EE role-based access control (RBAC) architecture
- Leverage Fusion Middleware’s Java platform security
- Flexibility of using LDAP or XML-based repository
- EM UI for creating and managing security policies
- Security auditing, access control for folders
- Fine-grained security settings for Web commands
- Backward compatibility to 10g (OID / Portal) security model, interoperability with different OID versions

<security id="rwJaznSec"
    class="oracle.reports.server.RWJAZNSecurity"/>

<job jobType="report" engineId="rwEng"
    securityId="rwJaznSec"/>

Theme: Address Top Supportability Areas with Architectural Changes
New J2EE-Based Security Architecture

Reports Server Security Policy Administration in EM

View / search

Configuration

Theme: Address Top Supportability Areas with Architectural Changes
New J2EE-Based Security Architecture

Benefits

• Easier creation and editing of Reports security policies
• Oracle Portal installation not required
• Faster implementation of security via folder access and roles
• Security enabled Web commands
• Audit any possible security attacks
Taking High Availability to the Next Level with Reports Groups

- **Features:**
  - Leverage J2EE container groups for Oracle Reports HA
  - Oracle Java Object Cache for shared cache across
  - Database as shared job repository, enhanced DAT file mechanism
  - Better handling of duplicate jobs
  - Enhanced job retry option

- **Benefits**
  - Higher availability of Reports Server
  - Access cached output even when the Reports Server that processed the master job is not available
  - View job queue for the complete group of Reports Servers
  - Scheduled jobs not lost even when a Reports Server goes down

Theme: Address Top Supportability Areas with Architectural Changes
Reports Server Groups Queue Management

Reports Server Group Queue Status

Nodes ha_server1, ha_server2

Security Mode Non-secure Queue on Group ha_cluster, on Wed Sep 10 15:04:35 IST 2008

To kill a current (enqueued or scheduled) job, click on the status icon for the specific job. Then click on Cancel Job button in next page. To get a cached output of Name hyperlink of that job (if available)

View

View Past Jobs Of Group : ha_cluster Do

Result

<table>
<thead>
<tr>
<th>Job ID</th>
<th>Master JobID</th>
<th>Job Type</th>
<th>Job Name</th>
<th>Job Status</th>
<th>Job Owner</th>
<th>Output Type</th>
<th>Output Name</th>
<th>Server Name</th>
<th>Queued At</th>
<th>State</th>
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<tr>
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<td>report</td>
<td>c:\reports\test.pdf</td>
<td>✔</td>
<td>RWUser</td>
<td>Cache</td>
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<td>ha_server1</td>
<td>Sep 10, 2008 07:41 PM</td>
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<td>ha_server1</td>
<td>Sep 10, 2008 02:41 PM</td>
<td>Sep</td>
</tr>
</tbody>
</table>

Theme: Address Top Supportability Areas with Architectural Changes
New Font Model: True Cross-Platform Deployment

- Simplified setup, configuration and discovery of fonts
- Support for TrueType Fonts (TTF) and TrueType Collections (TTC) on UNIX
- Unicode font subsetting in PDF on UNIX
- Auto-recognition of new fonts, simpler font look-up algorithm, enhanced formatter
- Support for all character sets in PDF
- Font diagnostics and tracing levels
- Backward compatibility - switch able to old toolkit font model

Theme: Address Top Supportability Areas with Architectural Changes
New Font Model: Font Setup and Configuration in EM

Theme: Address Top Supportability Areas with Architectural Changes
### New Font Model: Unicode Support on Unix

<table>
<thead>
<tr>
<th>Product Id</th>
<th>Translated Name</th>
<th>Translated Description</th>
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</thead>
<tbody>
<tr>
<td>1726</td>
<td>LCDモニター11/PM</td>
<td>液晶ディスプレイ11インチ・パッシブ・モニター。垂直フラット、高解像度画面により、グレアを低減して高品質画像を提供します。</td>
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<tr>
<td>2359</td>
<td>LCDモニター9/PM</td>
<td>液晶ディスプレイ9インチ・パッシブ・モニター。省スペースで高性能なレイアウトトアッパイラブルなデザイン。</td>
</tr>
<tr>
<td>3060</td>
<td>モニター17/HR</td>
<td>17インチ・パッシブ・モニター。高解像度、すぐれたオーディオおよびビデオ機能。</td>
</tr>
</tbody>
</table>

**Theme:** Address Top Supportability Areas with Architectural Changes
New Font Model: True Cross-Platform Deployment - Benefits

- Use same fonts as on Windows (TTF and TTC), which are commonly available
- No need to convert TTF to AFM or TFM files
- Get same output on UNIX as on Windows
- Easier font setup and configuration
- Easier diagnosis of font issues

Theme: Address Top Supportability Areas with Architectural Changes
Forms- Reports Integration Enhancements

• Intermediate-level security without OID
  • Support for intermediate-level security even when Forms and Reports are not secured
    • Provides security without the security infrastructure
    • Only authorized Forms users can view the Reports output

• JVM pooling
  • Forms uses the shared JVM controller for all Reports requests, reduced memory consumption

• DBProxy user authentication support for Forms requests

• Pluggable destination support
  • Support for all destinations, including pluggable destinations, in RUN_REPORT_OBJECT

Theme: Address Top Supportability Areas with Architectural Changes
Enhanced Printing Model

- CUPS (Common Unix Printing Support) based printing
- Leverage Unicode, color, subsetting, everything of PDF
- Adhere to the latest PostScript and PCL specifications
- Support for IPP printing
- Simplified and comprehensive printer configuration in EM

Theme: Address Top Supportability Areas with Architectural Changes
Key features in Enterprise Reporting Capabilities
More Bursting and Distribution Capabilities

• Features
  • Bursting and distribution now covers
    • ALL formats: data driven as well as layout based formats
    • ALL out-of-the-box and pluggable destinations
  • Granular security mechanism for distribution jobs
  • Tolerance support for burst jobs, honor system properties, better graph image resolution, improved diagnostics

• Benefits
  • Support for all output formats and destinations
  • Better security mechanism
  • Multiple run time improvements

Theme: Key Features in Enterprise Reporting Capabilities
Enhanced SPREADSHEET

- **Feature**
  - New paginated architecture to support large data set reports
  - Enhanced formatting

- **Benefits**
  - Get large data set reports’ output to Excel
  - True matrix-style reports in Excel

**Theme:** Key Features in Enterprise Reporting Capabilities
Secure PDF Output

- New password protected PDF
- Binary, encrypted format
- Granular permission for different allowed operations

Theme: Key Features in Enterprise Reporting Capabilities
New Graphing Features

• Features
  • New graph types: funnel, curved line, stacked combination, histogram, enhanced pie
  • Scalable Vector Graphics (SVG) image support in output
  • Support for plotting irregular time periods on time-axis
  • New chart style panel in graph wizard
  • Number formatting support in graph wizard

• Benefits
  • More graph types for varied usage
  • Graph image output scales up better without losing resolution
  • Plot time data without restrictions
  • Format the numbers in the graph independently of the data model

Theme: Key Features in Enterprise Reporting Capabilities
New Graphing Features (cont’d)

Funnel graph type

Style 1

Fit-to-curve Line graph

Style 2

Theme: Key Features in Enterprise Reporting Capabilities
Support for DB Proxy Authentication

- Feature
  - Support for database authentication using proxy users from Web clients
  - Forms can pass the DB Proxy information for every report request

- Benefits
  - Additional security: control the users and roles Reports can connect
  - Scalability: Re-use single database connection

Theme: Key Features in Enterprise Reporting Capabilities
New Pre-Distribution Processing

• Feature
  • Java API for plugging in your own pre-distribution processing mechanism
  • Ability to perform operations on the output file before it is sent to the destination

• Benefits (examples)
  • Securing / encrypting PDF output
  • Zipping the output file
  • PDF : postscript conversion
  • Merging multiple PDF output files
  • Format conversion

Theme: Key Features in Enterprise Reporting Capabilities
Design time – New Capabilities

• Support for ADF data controls in Reports data model
• Generate to / distribute to all supported output formats and destinations
• Improved Wizards

Theme: Key Features in Enterprise Reporting Capabilities
Automated Smooth Upgrade
Upgrade, Interoperability and Backward Compatibility

- **Upgrade**
  - Automated upgrade from 10g Release 2 (10.1.2.0.2)
  - Integrated with Fusion Middleware upgrade framework
  - Automated configuration reduction mapping
  - Extensive logging and diagnostics
  - No loss of functionality

- **Backward Compatibility and Interoperability**
  - 10g R2 server / client 11g server / client
  - Run 10g Release 2 reports without any changes or loss of functionality
  - 10g/11g Release 2 Forms, Portal and Oracle Internet Directory
  - 11g DB RSF support
  - IPV6 support

**Theme:** Automated Smooth Upgrade
Oracle Reports Roadmap

• Support
  • Large and very active install base - many on latest 10g R2.
  • Continue to invest on developing new features and enhancements to increase supportability, reliability, scalability, and performance of the product
  • Continue to make upgrade, backward compatibility and interoperability as smooth as possible
  • Take full advantage of Oracle Fusion Middleware and grid computing platform

• Recommendations to customers
  • Move from client-server to the Web
  • Upgrade to the latest version of Oracle Reports - leverage the new features for better support
  • Interoperate with Oracle SOA platform
Demonstration
Summary

• Tighter integration with Fusion Middleware Platform
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