Oracle Real-Time Scheduler

Release Notes

Release 2.2.0.3

E60106-03

May 2015

updated August 2015

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Oracle Real-Time Scheduler, Release Notes, Release 2.2.0.3

Contents

Preface

These release notes provide an overview of the enhancements, known issues, and other changes in this release.

Audience

This guide is intended for anyone installing or using Oracle Real-Time Scheduler 2.2.0.3.

Related Documents

For more information, refer to these Oracle documents:

Installation, Configuration, and Release Notes

- *Oracle Real-Time Scheduler Release Notes*
- *Oracle Real-Time Scheduler Quick Install Guide*
- *Oracle Real-Time Scheduler Server Application Installation Guide*
- *Oracle Real-Time Scheduler Mobile Application Installation and Deployment Guide (HTML5-based)*
- *Oracle Real-Time Scheduler DBA Guide*
- *Oracle Real-Time Scheduler Configuration Guide*

User Guides

- *Oracle Real-Time Scheduler Server Application User's Guide*
- *Oracle Real-Time Scheduler Mobile Application User's Guide (Java-based)*
- *Oracle Real-Time Scheduler Mobile Application User's Guide (HTML5-based)*

Implementation and Development

- *Oracle Real-Time Scheduler Mobile Application Implementation and Development Guide (HTML5-based)*

Map Editor Installation and User Guides

- *Oracle Real-Time Scheduler Map Editor User's Guide*
- *Oracle Real-Time Scheduler Map Editor Installation Guide*

Framework Guides

- *Oracle Utilities Application Framework v4.2.0.2 Business Process Guide*
- *Oracle Utilities Application Framework v4.2.0.2 Administration Guide*
- *Oracle Utilities Application Framework v4.2.0.2 Release Notes*

Supplemental Documents

- *Oracle Real-Time Scheduler Server Administration Guide*

- *Oracle Real-Time Scheduler Batch Server Administration Guide*

- *Oracle Real-Time Scheduler Security Guide*

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Release Notes

This document provides general information about the Oracle Real-Time Scheduler 2.2.0.3 release including new functionality, known issues and other important information.

Prior to installing this release, it is important that you review all of the release notes and review your business processes as they relate to the new enhancements. There may be steps to complete or information to review before accepting the release. Refer to the quick install guide and installation guides delivered with the media pack for information regarding supported platforms and installation steps.

This guide includes the following:

- Release Overview
- Oracle Real-Time Scheduler Functionality
- Oracle Utilities Application Framework Enhancements
- Known Issues
- Demo Data Information

Release Overview

Features introduced in this release are highlighted in the Oracle Real-Time Scheduler Functionality section.

- Refer to the **Oracle Real-Time Scheduler Quick Install Guide** for a full list of the media pack components and application components included with this release.
- Visit My Oracle Support (http://support.oracle.com) for the most recent service packs and patches for this release to ensure you have the most current version of this product.

Relationship Between 2.2.0.3 and Prior Versions

This release supports update paths as indicated below. Please refer to the Oracle Real-Time Scheduler *Installation Guide* for release v2.2.0.3 included in this release for complete information.

- **Initial Install:** If you are installing Oracle Real-Time Scheduler for the first time, you can install v2.2.0.3 directly.
- **Upgrade Install:** Oracle Real-Time Scheduler v2.2.0.3 supports the following upgrade paths:
  - Upgrading from version 2.1.0.6 to version 2.2.0.3
  - Upgrading from version 2.2.0.1.5 to version 2.2.0.3
  - Upgrading from version 2.2.0.1.6 to version 2.2.0.3

Supported Platforms Notice

Please refer to the **Supported Platforms** section of the **Oracle Real-Time Scheduler Quick Install Guide** for this release.

Oracle Utilities Analytics

This release of Oracle Real-Time Scheduler is compatible with Oracle Utilities Analytics v2.5.1.0.

Oracle Utilities Analytics is a set of star schemas, graphic templates, and data processing programs allowing you to build a Business Intelligence (BI) solution to meet your organization's analytic requirements.

Database Changes

This release includes database enhancements. For more information about these changes refer to the **Oracle Real-Time Scheduler Database Administrator's Guide**.

Oracle Real-Time Scheduler Functionality

Oracle Real-Time Scheduler release 2.2.0.3 introduces a new mobile application platform which simplifies and optimizes the scheduling, dispatching, and tracking of mobile delivery crews and field activities. This mobile application uses HTML5 and JavaScript to implement business logic, render the user interface and interact with mobile device services. It is based on the new Oracle Utilities Mobile Library (OUML) which is optimized to work with Oracle Utilities Application Framework (OUAF) based services, configurations and metadata.

The following sections provide high level details on the features implemented in this release. Please refer to the configuration guide and the implementation guide for comprehensive guidelines on configuring and implementing the application. You can also reference the demo environment for examples.

Key Features and Functionality

The Oracle Real-Time Scheduler Mobile Application includes standard functionality for registering devices, logging on and off, previewing shifts, starting shifts, reviewing and completing tasks, and so on.

The following features are supported, however, please refer to the **Oracle Real-Time Scheduler Mobile Application User's Guide** for more information and details on using specific features:

Procedures

Completing procedural instructions or questionnaires that may need to be fulfilled by mobile workers prior to taking on a specific primary function when starting a shift or changing their function mid shift, using a vehicle or starting work on an activity.

Item Management

Loading, delivery and acceptance of goods such as groceries, consumer goods, appliances, furniture, or other items. The crew is presented with a list of items that they need to load. Lists may include barcodes, sort order, item identifiers, and so on. The crew can scan or manually check off items as they are loaded. As items are delivered, the crew can capture signatures, update delivery remarks, and scan or manually check off items as delivered.

Capture Content

Taking photos and capturing signatures. This uses native features on the device.

Attachments (upload and download)

Digital content such as documents, audio recordings, video, pictures, etc. can be used to support crews as they complete work. Attachments might be specifically associated with activities when they are dispatched to the crew or captured on the device and added to the activity by the crew and sent back to the server as supporting information.

Mobile Mapping and Driving Directions

Using native device maps or directions loaded from the server. The delivered mobile application is integrated with Mapviewer and eLocation, and can be extended to work with Google Maps.

GPS

The ability to show the crew's current location, route, and task locations using GPS information from the device. The crew's GPS information is also captured for use by dispatchers.

Emergency (Panic) Alerts

Sending an immediate alert to the dispatcher if the crew is in distress.

Mail and Device Messages

Providing messaging services via the mobile application Inbox for communication with dispatchers and other crews.

Metadata and Deployment Services

Deployments represent a snapshot of mobile application objects so that when any of these objects are modified the system can detect that they are out of date and need to be updated on the device.

Logging and Debugging

For diagnostic purposes, administrators can collect and access logs, set debugging and change the logging level for devices.

Oracle Utilities Application Framework Enhancements

This release includes Oracle Utilities Application Framework version 4.2.0 Service Pack 2, which includes enhancements. For information about these enhancements, refer to the following documents:

- The **Oracle Utilities Application Framework Service Pack 2 (V4.2.0.2.0) Release Notes**. This document provides information about specific framework modifications and is included in the documentation delivered with the Oracle Utilities Application Framework product.

- The **Oracle Utilities Application Framework Administration Guide** and business process guide. These documents are included with the documentation that is delivered with this media pack.

- The Known Issues in Oracle Utilities Application Framework section in this document provides a list of known Oracle Utilities Application Framework issues that impact this release of Oracle Real-Time Scheduler.

Known Issues

This section describes known issues at the time of release.

Known Issues in Oracle Real-Time Scheduler

This section describes known issues in Oracle Real-Time Scheduler. Single fixes for these issues may be released at a later date.

Bug #	Component	Description	Work Around
20262378	Assignment	Postpone data/time and estimated time remaining fields on the postpone assignment page need to be mandatory.	none
20262430	Assignment	Status reason field is not being displayed in the postpone assignment screen.	none
20353347	Attachments	Currently Attachment Storage Size attribute defined on MDT Type is used to check individual file size instead of cumulative attachment storage size. Documentation indicates that the Attachment Storage Size is the cumulative size of all the attachments supported and not per each attachment.	none
20360816	Customization	In order to make any look and feel changes to the mobile application implementers must add references to the predefined custom css files.	The following links to cm css files should be included in index.html after <link rel="stylesheet" href="ouml/themes/ouml.css" /> =========================== <link rel="stylesheet" href="cm/themes/cm.jquery.theme.min.css" /> <link rel="stylesheet" href="cm/themes/jquery.mobile.icons.min.css" /> <link rel="stylesheet" href="cm/themes/cm.styles.css" /> ===========================
20143759	Install	While building mobile runtimes for the web client the system triggers an error, but this does not impact the build.	Ignore the error
20291296	Item Management	Duplicate load assignments are generated when the drip mode and horizon are set.	Use shift without drip mode
20291333	Item Management	Load assignments are generated for a completed depot task if the drip mode and horizon are set.	Use shift without drip mode
20119314	Logging	Log files are not generated with size as per the property set on the MDT page.	none
20295659	Logging	An error message should be displayed to the user asking to ensure that the File Appender is on the MDT.	Open Settings mobile screen and make sure that the File Appender is set to "On"
20186439	Oracle Application Developer Framework (ADF)	Due to a certification issue from Microsoft Windows, the Oracle Application Developer Framework (ADF) 11g (11.1.1.6.0) is not certified on Windows Server 2012.	Use Oracle JDeveloper instead of Oracle Application Developer Framework (ADF). (Windows Server 2012 only).

Bug #	Component	Description	Work Around
20317769	Procedures	The procedure list is still shown after the crew changes to a primary function and vehicle that do not have procedure.	none
21126780	MapViewer	Throughout the mapviewer API your implementation can prefix an object with a desired data source such as "cisadm2201:object", however, this does not work in XML Requests sent to the omserver. Requests sent to the omserver must have the DB user name(owner) as the prefix. Example: cisadm:object. Only Windows Mobile uses an XML Request and is therefore the only device affected.	Your implementation must ensure that the data source is named the same as the user. In the example above, you would change the data source name to "cisadm" in the mapviewer configuration and the mapping feature configuration.

Known Issues in Oracle Utilities Application Framework

This section describes known issues in the Oracle Utilities Application Framework that impact Oracle Real-Time Scheduler. Single fixes for these issues may be released at a later date.

Bug #	Component	Description	Work Around
20321254	Remote Messaging	Some of remote messages received from the device are not processed on the server by the batch process if the schema validation property is set to On.	The issue is resolved in the Oracle Real-Time Scheduler application by adding these spl.properties: com.splwg.schema.newValidations.F1=false

Demo Data Information

The application delivers a demo database based on the application versions provided with the release, including Oracle Utilities Application Framework. Demo data provides sample configuration and data for key application features.

Demo data is posted separately and includes its own installation instructions.

Oracle recommends that you do not clone the demonstration environment as a basis for a new production environment. The demonstration environment typically includes transactional data that will be irrelevant to your production environment and can cause unexpected issues if it is not purged correctly. The recommended process is to start a new production environment from a new installation and migrate "clean" system data (such as business objects and algorithms) and administrative data (such as sample activity types or other administrative entities) from the demonstration and/or test or development environments as applicable.

Please refer to the **Oracle Real-Time Scheduler Configuration Guide** for more information or contact Oracle Support.