Oracle Data Integrator Release Notes

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What is Oracle Data Integrator?

Oracle Data Integrator is a unified, **comprehensive product line**, that enables enterprises to optimize the development and execution of all integration processes through a consistent approach, independently of latency and persistence requirements.

The Data Integrator package also includes the **Oracle Data Profiling** and **Oracle Data Quality for Data Integrator** optional components:

- **Oracle Data Profiling** is a data investigation and quality monitoring tool. It allows business users to assess the quality of their data through metrics, to discover or infer rules based on this data, and to monitor the evolution of data quality over time.

- **Oracle Data Quality for Data Integrator** is a comprehensive award-winning data quality platform that covers even the most complex data quality needs. Its powerful rule-based engine and its robust and scalable architecture places data quality and name & address cleansing at the heart of an enterprise data integration strategy.

What is New in Oracle Data Integrator?

Oracle Data Integrator 10.1.3.5 introduces many improvements and new features.

Oracle Data Profiling and Oracle Data Quality for Data Integrator

Oracle Data Profiling and **Oracle Data Quality for Data Integrator** have been first included in Oracle Data Integrator 10.1.3.4.0 release, and provide the following additional features in the 10.1.3.5.0 release: Support for EBCDIC Code Pages, additional country support (Russia, Norway, Greece, Poland, Czech Republic, Finland, Luxembourg, etc), Enhanced Schema Editor, New Expression builder operators (String Joining, Contains, etc.).

Features for Service Oriented Architecture

Oracle Data Integrator 10.1.3 provides three major features for easing integration in a Service-Oriented Architecture (SOA). With these features, Oracle Data Integrator is capable of invoking external web services for data integration as well as deploying data and transformation services.

Data Services

Data Services are specialized Web Services that provide access to application data, and to changes captured for these data using the CDC feature. These Web Services are automatically generated by Oracle Data Integrator and deployed to a Web Services container - typically a Java application server. Data Services generation can be customized using Service Knowledge Modules (SKM).

Public Web Service

This feature allows applications to trigger transformation developed with Oracle Data Integrator through a secured web service. This web service can be deployed in any Web Services container. This web service allows for starting scenarios, restarting sessions, listing contexts and scenarios.

Web Services Invocation

This version also introduces a new tool for calling third-party web services so that these calls can be used as part of a work flow.

Open Tools

Oracle Data Integrator Open Tools is an extensible platform for developing custom third-party tools that you can use in packages and procedures. Just like the standard tools that are provided with Oracle Data Integrator, Open Tools can interact with the operating system or manipulate data.

Concurrent Changes Control

Several users can work simultaneously on the same Oracle Data Integrator project or model. As they may be all connected to the same repository, the changes they perform can concur. To prevent discrepancies, Oracle Data Integrator provides an object locking feature that handles concurrent changes.

Fixed file format reverse engineering wizard

Oracle Data Integrator provides a wizard to graphically define the columns of a fixed file.

Exporting Multiple Objects

You can export one or more objects at once, using the **Export Multiple Objects** menu item. This lets you export them to a zip file or a directory, and lets you re-use an existing list of objects to export.

Lightweight Designer

This new module allows business users to modify, through a web browser, the mappings of an existing interface and to regenerate the corresponding scenarios.

Scheduler Enhancement

Scheduling management is considerably enhanced: the recovery after the agent restarts as well as the dynamic schedule update are improved. A new agent schedule window is implemented and scenarios can now be triggered at agent startup.

Security Enhancement

The **Security Cleanup Tool** wizard allows deleting the instance privileges defined on objects that no longer exist in the work repositories. This feature will help Administrators in their daily work as they had to track until now the deletions on each work repository. It is also possible to set advanced security policies for account or password expiration, and rules for password quality.

Version Comparison Tool

Oracle Data Integrator provides developers with a comprehensive **Version Comparison Tool**. This graphical tool is to view and compare two different versions of an object. When managing an integration project, this comparison tool can be used to locate the differences between two versions of an object, track all working implementations and the project progress, as well as rollback the changes from the current version of the object to a previous version.

File Transfer Tools

Oracle Data Integrator 10.1.3.5 introduces six new tools for securely transferring files using FTP, SFTP and SCP protocols.

New KMs and KM Updates

Oracle Data Integrator 10.1.3.5 introduces KMs for extracting and integrating data from Oracle OLAP, Oracle Siebel CRM, Oracle E-Business Suite, Oracle PeopleSoft, JD Edwards EnterpriseOne, and Oracle AS Legacy Adapters/Attunity Stream. KMs performing row by row processing are available for debugging purposes. Teradata KMs include new optimizations and improved support for Teradata Utilities.

The Hyperion KMs (Hyperion Essbase, Hyperion Financial Management, and Hyperion Planning) are certified for Hyperion 11.1.1.

Installation and Upgrade

Please refer to the Oracle Data Integrator Installation Guide for more information on installing and upgrading Oracle Data Integrator.

Issues and Workarounds

Installation

Installing Oracle Data Integrator on Platforms other than Windows and Linux

The Oracle Data Integrator CD and setup program (including Oracle Data Profiling and Oracle Data Quality for Data Integrator) are available for Windows, Linux, Solaris, AIX and HP-UX

platforms. Only when installing Oracle Data Integrator on other platforms, use the manual installation process:

1. Install a Java environment.*Java Configuration* topic in the Installation Guide.

2. Download the Oracle Data Integrator windows CD from the OTN site at http://www.oracle.com/technology/index.html, decompress it and copy the contents of the `/oracledi` directory of the CD into the installation directory. If you transfer the files with FTP, use the BINARY transfer mode.

3. Set the following environment variable:

   ▪ `ODI_JAVA_HOME`: This represents the installation directory of the Java Machine in use with Oracle Data Integrator. This directory should contain the `/bin` sub-directory. If this variable is not set, Oracle Data Integrator will use the default Java Machine.

> **Note:** If you use Microsoft Windows 95 or 98, then you must perform the operations described in the *Run Oracle Data Integrator with Windows 95/98* topic in the Installation Guide. To install Oracle Data Integrator on iSeries, refer to the *Installing the Java Agent on iSeries and AS/400* topic.

Upgrading Oracle Data Quality products

To upgrade Oracle Data Quality products, please refer to the upgrade instructions on OTN or contact Oracle support.

Master repository creation wizard fails on SUSE Linux

When running the master repository creation wizard in a SUSE Linux system, the following error can appear in the console and the repository creation fails:

```
sun.io.MalformedInputException
at sun.io.ByteToCharUTF8.convert(ByteToCharUTF8.java(Compiled Code))
...
```

This error is related to the character encoding settings.

There are two possible workarounds for this error:

- Run the master repository creation wizard from another platform.

- Edit the `repcreate.sh` file and add the following line:

  ```
  export LANG=en_US
  ```

  before the line:

  ```
  $ODI_JAVA_START oracle.odi.RepCreate
  ```

Lightweight Designer cannot connect the demonstration repository

When trying to connect the demonstration repository using Lightweight Designer, the following error occurs:

```
Cannot load JDBC driver class 'org.hsqldb.jdbcDriver'
```

This error is caused by the absence of the appropriate JDBC driver for the demonstration repository database in Lightweight Designer.

The driver can found in the hsqldb archive. Download the archive at the following location: http://sourceforge.net/project/downloading.php?group_id=23316&use_mirror=mesh&filename=hsqldb_1_8_0_7.zip&38009171
Retrieve the `hsqldb.jar` file located in the hsqldb/lib directory, and install it with other JDBC drivers in the application server.

Lightweight Designer installation on Tomcat fails to connect the repository

When trying to connect a repository using Lightweight Designer on a Tomcat Server, one of the following error occurs:

```
org.apache.tomcat.dbcp.dbcp.SQLNestedException: Cannot create
PoolableConnectionFactory
org.apache.tomcat.dbcp.dbcp.SQLNestedException: Cannot create JDBC
driver of class
```

This error appears when Lightweight Designer is installed on Tomcat by deploying the WAR file.

As a workaround, you should configure your JDBC datasources in the `<TOMCAT_HOME>/conf/Catalina/localhost/oracledilwd.xml` file instead of the `WEB-INF/context.xml` file when Lightweight Designer was installed using the War file.

Upgrade

Upgrading a Sybase repository from 10.1.3.4 to 10.1.3.5.0 fails

When upgrading a repository from 10.1.3.4 to 10.1.3.5.0 on Sybase 12.5, the process is interrupted due to an internal Sybase warning on the row size limit because the 10.1.3.5.0 version includes size extensions for the columns in the repository. As a workaround, increase the page size for Sybase at DB design to 4K. For details on increasing the page size, please refer to http://www.sybase.com/content/1021203/sybmigrate_wp.pdf.

Startup Scripts

Agent scheduler fails to start - `"syntax error near unexpected token `('"`

The agent scheduler (agentscheduler.sh) fails to start with the following error in the command line:

```
syntax error near unexpected token `('
```

This problem appears for example when an Oracle URL containing full TNS alias descriptions - such as RAC URLs - is specified in the `ODI_SECU_URL` parameter of the `odiparams.sh` file. Such an URL contains parenthesis, considered as special characters by UNIX shells. This problem was reported on SUSE Linux.

As a workaround, delimit the URL with quotes, as shown below:

```
export ODI_SECU_URL="jdbc:oracle:thin:@<full TNS alias description>"
```

Oracle Data Integrator starts in English in a Spanish environment

Oracle Data Integrator user interfaces started in a Spanish environment do not start in Spanish, but in English. This problem is caused by an incorrect localization code.

As a workaround, set the `user.language` java option to the value `sp` in the `odiparams.sh` or `odiparams.bat` file, as shown below:

```
set ODI_ADDITIONAL_JAVA_OPTIONS="-Duser.language=sp"
```

Demo Environment

The Demo Agent raises an error on startup

When starting the agent provided in the demonstration environment using the **Examples > Demo Agent** shortcut, the agent fails to start with the following message:

```
SnpAgent does not exist
```

This error appears because this agent tries to start in scheduler mode, and is not defined in the demonstration repository.

As a workaround, you should define a logical and a physical agent corresponding to the agent you are trying to start - using Topology Manager - with the following parameters:

Physical Agent

- Agent Name: `AGT_LOCALHOST_S`
- Host: `localhost`
- Port: `20910`

Logical Agent

- Name: `AGT_LOCALHOST_S`
- Mapped in all context on the physical agent `AGT_LOCALHOST_S`

Drivers

Unable to insert data in Oracle Internet Directory using the LDAP Driver

When performing an INSERT operation in Oracle Internet Directory using Oracle Data Integrator Driver for LDAP, the following error appears:

`S1000 General error java.lang.ClassCastException`

There is no workaround for this issue.

Designer

Unable to use more than 250 characters for text parameter in a schedule

When a variable of type Text is used in a scenario, it is not possible to schedule an execution of this scenario with a value for this variable longer than 250 character. The following error appears when saving the schedule:

`java.sql.SQLException: ORA-01401: inserted value too large for column`

As a workaround,

1. Create a package using the OdiStartScen tool to start the scenario you want to run. This call should include the parameter value. The values can be longer that 250 characters. This scenario does not need to have any variable defined.
2. Create a scenario schedule for this new package.
3. Apply the scheduling to this scenario.

Trying to run or generate code for a locked object gives a warning even for the lock owner

A warning message appears for all users when trying to execute or generate scenario for a locked object. This warning should not appear for the user owning the lock.

There is no workaround for this issue. Lock owners should ignore this warning.

Editing data is not possible on Microsoft SQL Server

When editing data through the **data** popup menu, the following error appears:

`com.microsoft.sqlserver.jdbc.SQLServerException: Invalid object name`

There is no workaround for this issue.

A text variable is not resolved when running a session

If a variable with type Text is used, for example in a procedure, and this procedure is executed, the variable value resolved at run-time, and the variable is replaced with an empty text.

This problem no longer appears with scenarios. As a workaround, generate scenarios for components using Text variables and run these scenarios instead.

Jython error when journalizing an Oracle datastore

When journalizing an Oracle model/datastore with the **JKM Oracle Simple** or **JKM Oracle Consistent** , the following error occurs.

```
org.apache.bsf.BSFException: exception from Jython: Traceback (innermost
last):
  File "<string>", line 36, in ?
java.lang.IllegalAccessException: Class
org.python.core.PyReflectedFunction
can not access a member of class
@ oracle.jdbc.driver.OraclePreparedStatementWrapper with modifiers
"public"
```

As a workaround:

1. Create a file named `registry` in the `/lib/scripting` directory.
2. In this file insert the following line: `python.security.respectJavaAccessibility = false`

The tree view in Designer takes a very long time to display

The tree view in Designer takes a very long time to display when complex privileges are defined for the current user. The more complex these privileges are, the slower the load and refresh time for the tree view in Designer.

Operator

Cannot stop a session running in an scheduler agent.

If you stop a session from operator, and this session runs on a scheduler agent, the session appears as stopped in the Operator log. Nevertheless, the scheduler goes on running the session.

As a workaround, you should consider stopping the agent process to end critical sessions.

Zoom in/out in the agent schedule information window do not work as expected

Zooming in and out in the Gantt diagram in the agent schedule information window do not work expected. Zoom buttons do not work.

As a workaround, use the time range to (*From* and *To* dates) to have an adequate display.

Web Services

OdiInvokeWebService tool is not working properly when using Designer with Java 1.6

It is not possible to invoke a Web Service with the **OdiInvokeWebService** tool when using Designer with Java 1.6.

Invoking an operation throws the following exception :

```
java.lang.AbstractMethodError:
org.apache.crimson.tree.XmlDocument.getXmlStandalone()Z
at
com.sun.org.apache.xalan.internal.xsltc.trax.DOM2TO.setDocumentInfo(DOM2
TO.jav a:373)
at
com.sun.org.apache.xalan.internal.xsltc.trax.DOM2TO.parse(DOM2TO.java:12
7)
at
com.sun.org.apache.xalan.internal.xsltc.trax.DOM2TO.parse(DOM2TO.java:94
)
```

```
at
com.sun.org.apache.xalan.internal.xsltc.trax.TransformerImpl.transformId
entity (TransformerImpl.java:663)
at
com.sun.org.apache.xalan.internal.xsltc.trax.TransformerImpl.transform(T
ransformerImpl.java:709)
...
```

Oracle Data Profiling and Oracle Data Quality for Data Integrator

Purchasing country-specific directories

Optional country-specific directories, used for Name and Address cleansing projects with Oracle Data Quality can be purchased separately from Trillium Software. To purchase these directories, please contact Trillium Software. You will be asked to provide the following OEM key: "*ODQ020207*".

More information

Please refer to the documentation installed with the product.

Technical Support

http://www.oracle.com