



Oracle Universal Content Management 11gR1 Differences between 11gR1 and 10gR3

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This document highlights some of the key differences between Oracle Universal Content Management (UCM) version 11gR1 and 10gR3. It also contains some general information about 11gR1 and links to relevant documentation.

Product Architecture

Oracle Universal Content Management 11gR1 has been re-architected to support deployment on Oracle WebLogic Application Server. This enhanced architecture offers more flexible deployment options, and additional clustering and management features which were absent in UCM 10gR3. Unlike prior versions, UCM 11gR1 does not require (and does not support) a standalone web server for deployment – Oracle WebLogic server provides the Java foundation and the web tier for UCM. Please refer to the Enterprise Deployment Guide for a complete discussion of deployment models and options (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e15483/toc.htm).

Installation

The installation process for UCM 11gR1 has been enhanced since version 10gR3 to make it consistent with other Oracle Fusion Middleware products. UCM now uses Oracle Universal Installer, and Oracle Repository Creation Utility as part of the installation process. Please see the Quick Installation Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e14538/toc.htm) and the complete Installation Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e14495/toc.htm) for details on installing UCM 11gR1.

Administration

Database Connectivity

As a result of being able to deploy on Oracle WebLogic Server, UCM is able to leverage many of its built-in capabilities. One such important capability is database connection pooling. With 11gR1, UCM uses a WebLogic datasource to communicate with the relational database where metadata and other UCM information is stored (i.e. Content Server's SystemDatabase). As a result, database connectivity information such as JDBC user and password are no longer stored in Content Server's configuration files (i.e. config.cfg). The information is managed in WebLogic and can be manipulated per datasource using WebLogic Administration Console for the domain where UCM is deployed. Since the database connectivity information is not present in Content Server's configuration files, by default, Administration applets (such as Configuration Manager and Repository Manager) are not able to startup and function in standalone mode (i.e. when launched from a command prompt on the server). In order to run the applets in standalone mode from the server, the database connectivity information needs to be added to Content Server's configuration files and can be done so via the System Properties applet. For details on how UCM 11gR1 communicates with the database and all associated configuration options, please refer to the System Administrators Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm).

Additional Database Providers in Content Server

In 11gR1, UCM administrators can still create additional database providers in Content Server. This can be done in one of two ways:

- a. Create a WebLogic Datasource on the domain where UCM is deployed, and then configure a Content Server database provider to use that Datasource. The WebLogic Datasource can be created using the WebLogic Administration Console for the domain where UCM is deployed.
- b. Create a Content Server database provider to connect directly to the database via JDBC without using WLS Datasource. This mode is provided primarily for existing customers who may have such secondary database providers.

Login Mechanism

By default, UCM 11gR1 provides a form-based login mechanism as opposed to Basic Authentication (which was the default in 10gR3). As a result, users will have a mechanism to log out from the Content Server instead of having to close their browser. Basic Authentication will still be supported and will be available for WebDAV login. WebDAV communication to the Content Server will be performed via a separate web application accessible via a separate context root (named “_dav”).

User Administration and Management

One of the key changes in UCM as a result of deploying in WebLogic Application Server, is in the area of user management. In 11gR1, UCM uses WebLogic’s built-in user store as its default location for managing user names and passwords. This means that user creation and mapping of Roles to users is done via WebLogic Administration Console and not via User Admin applet. Content Server installs a JPS provider by default to communicate with the WebLogic user store for user authorization purposes.

User authentication is completely handled by WebLogic Server. Content Server is not involved in the user authentication process at login time. WebLogic Server cannot authenticate users that are not present in its user store. As a result, any users created in Content Server as “Local” users cannot be authenticated by WebLogic (since they are only in Content Server’s database schema). While the Content Server’s User Admin applet allows creation of Local users, such users will not be able to login to the Content Server via the web interface unless that user has also been created in the WLS and assigned the password there. The recommended approach starting with UCM 11gR1 is to utilize one of the LDAP user stores that UCM is certified against (such as Oracle Internet Directory), and use that to perform all user management tasks. For customers who have UCM systems with Local users, it is recommended that those users be migrated to an external user directory system for use with UCM 11gR1.

At least one “Local” user is still required to run Content Server admin applets in standalone mode. Details about running applets in standalone mode are provide in the System Administrator’s Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm).

Assign User applet (for picking user ACLs on Check-in form) will only show External users after they’ve logged in at least once in to the Content Server. All users in the default WebLogic user store, or in other LDAP systems, are considered External users. This behavior is the same as it is in 10gR3. For customers who wish to use ACLs and have direct visibility of users in external systems which selecting users for ACLs, customizations would be required to make Content Server aware of users in the external systems. It is recommended that customers interested in this area please engage Oracle Consulting Services for guidance.

LDAP and JPS Providers

While users and role-to-user mapping is managed in an external user directory, creation and management of Roles, Security Groups and Accounts is still done via Content Server's User Admin utility as it was in 10gR3. Roles and Accounts can be mapped using LDAP providers (just as it was in 10gR3). In addition, a new mechanism via JPS providers allows Content Server to have direct visibility to external users via WebLogic Application Server's user management infrastructure, Oracle Platform Security Services (OPSS). Content Server installs a JPS provider by default which uses OPSS to send and receive information about users. For more information on JPS and LDAP providers, and for information on how to configure Content Server with external user directories using such providers, please refer to the System Administrator's Guide

http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm.

Content Server's Admin Server

With UCM 11gR1, each Content Server instance has its own Admin Server instance. This is not to be confused with the WebLogic Admin Server. Content Server's Admin Server is a web app that allows administrators to change configuration settings for content server. Content Server's Admin Server no longer allows administrators to start/stop/restart the Content Server. Content Server restarts are to be done via the command line, Enterprise Manager or WebLogic Administration Console. For complete information about starting and stopping Content Server, please refer to the System Administrator's Guide

http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm.

Proxy Content Server Instances

Starting with UCM 11gR1, Proxies Content Server instances are no longer supported. Content Server instances are "master" instances by nature and are to be deployed on WebLogic Domains. For details on enterprise deployment options and models, please refer to the Enterprise Deployment Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e15483/toc.htm).

Internationalization Enhancements

UCM 11gR1 includes several enhancements associated with Internationalization requirements. These include:

- User Profile page (My Profile) allows users specify their Time Zone.
- If locale is not set in a user's profile, Content Server can pick that up from a HTTP header variable.
- Time zone list is localized.
- Decimal fields and integer field formatting is localized on Content Information and Search Result pages (not in form entry fields where they will be displayed in EN format).

Please refer to the User's Guide

(http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10797/toc.htm) and System Administrator's Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm) for more information.

Logging and Tracing

Content Server logs files are still available in the same locations as in 10gR3, and are accessible via Content Server's Administration menu. In addition, logs are now written to the central WebLogic logging infrastructure and are accessible via the Enterprise Manager dashboard on the WebLogic domain where UCM is installed.

Tracing information is still accessible via "View Server Output" link System Audit Information page in Content Server. As with prior versions, the output is temporary and not saved to a file. Tracing flags can still be set from the System Audit Information page in Content Server. However, additional configuration changes are needed before appropriate tracing information is populated in the WebLogic logs (accessible via Enterprise Manager dashboard).

Please refer to the System Administrator's Guide for more information on this topic (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm).

WLST and Enterprise Manager Integrations

UCM 11gR1 provides JMX MBeans that accessible via WLST (WebLogic Scripting Tool) commands. These commands can be used to view and set certain configuration parameters, and view logging information. The same information can be accessed and edited via pages in Enterprise Manager 11g as well. For more information about UCM integrations with WLST and Enterprise Manager, please refer to the System Administrator's Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e10792/toc.htm).

UCM Directory Structure

Since UCM 11gR1 is deployed on WebLogic Application Server, the way files and executables are installed on the server have been updated to support the new deployment model. The main change is that "read only" runtime files such as the server's core binary, and out-of-the-box components are all in one location, while instance specific data files, configuration files, read-write information such as custom components, information in the "data" directory, are in a separate location. Similarly, vault and weblayout can be in their own separate locations (just as in 10gR3). For more information about this topic, and to understand the new deployment model, please refer to the Enterprise Deployment Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e15483/toc.htm), and Installation Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e14495/toc.htm).

Upgrades

UCM 11gR1 supports upgrades from UCM 10gR3. Details about upgrading from 10gR3 are available in the Upgrade Guide (http://download.oracle.com/docs/cd/E14571_01/doc.1111/e16451/toc.htm).

References

Documentation

For access to the complete UCM 11gR1 Documentation Library, please see http://download.oracle.com/docs/cd/E14571_01/ecm.htm.

Supported System Configurations

For the complete list of supported system configurations for UCM 11gR1, please see [http://www.oracle.com/technology/products/content-management/cert/oracle_ecm_11gr1_\(11.1.1.x\)_certification_matrix.xls](http://www.oracle.com/technology/products/content-management/cert/oracle_ecm_11gr1_(11.1.1.x)_certification_matrix.xls).



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