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Oracle® Single Sign-On for JD Edwards® EnterpriseOne®: Part III Enabling Oracle Single Sign-On with JAS Server

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E1 Editor's Note: Charles Anderson has presented us with the key steps of Single Sign-On, including a standalone install of an OAS Infrastructure "Home", and the integration of Oracle Internet Directory with the Microsoft Active Directory. In this final article of the series, Charles takes us through the final steps to point a single JD Edwards EnterpriseOne JAS instance to the Oracle Single Sign-On server and validate successful logins using your Active Directory credentials.

This article is the final installment of a three-part series on Oracle Single Sign-On. In Part I of our series, we walked through the process of a basic, standalone server install of an Oracle Application Server Infrastructure "Home", which includes a dedicated Oracle 10g database and the Oracle Single Sign-application. In Part II, we successfully integrated Oracle Internet Directory (OID) with Microsoft Active Directory (AD). This integration included the synchronization of user accounts from AD into the OID using the Directory Integration and Provisioning (DIP) utility. We customized a DIP "map" to pull AD accounts into OID and into a more *user friendly* form. We also enabled the External Password Authentication Plug-in for AD so that users could authenticate directly against AD Domain Controllers using their Windows password.

In this article, I will conclude with the enablement of Oracle Single Sign-On with the JD Edwards EnterpriseOne JAS server. We will accomplish this with the Oracle Application Server 10g R3 platform, with EnterpriseOne Tools 8.97 and Server Manager.

When I originally began the outlining process for this article, which ultimately transformed into a somewhat lengthy "white paper", I was relying on my knowledge from having worked with Oracle Single Sign-On with both Oracle Portal and EnterpriseOne (running Tools Release 8.96.) My present employer had signed on to participate in the Tools 8.97 beta program, and at that time, documentation for Oracle Single Sign-On integration with 8.97 was still being prepared. Also, as Tools 8.97 was the first Tools release to support (and require) Oracle Application Server 10g R3 (10.1.3) for the Java Application Server, the steps needed to configure OAS for Oracle Single Sign-On support changed from the virtually streamlined process available with OAS 10.1.2, to a more manually intensive process with OAS 10.1.3.

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Oracle Single Sign-On for JD Edwards EnterpriseOne: Part III

So being the enterprising (part-time) systems administrator that I am, I created my own custom documentation and tagged it with a “For internal use only” label. Basically, I hacked it together by merging multiple sources including Oracle on-line documentation and, of all things, a Hyperion installation manual. Since that time, Oracle has released a supplement to their Security Administration documentation that details some of the steps you will see in this article series. Having stated that, I trust you will find added value in this guide in addition to the “stock” product documentation. For instance, at least one of the steps in the supplemental documentation is not valid for EnterpriseOne Tools 8.97, due to the advent of Server Manager. Also, in my opinion, the product documentation leaves a lot to be desired in terms of helping this previously uninitiated but budding LDAP administrator along during the process, whereas these articles provide additional screenshots, insights, etc.

Pre-Configuration Notes

Prior to beginning the steps outlined in this article, you should be familiar with, and have performed, the installation and configuration of the Oracle Application Server 10.1.2 Infrastructure “home”, which includes OID and Oracle SSO (for more info, see Part I.) As you have learned in Parts I and II, although it is not technically required for this portion of the exercise, you can configure OID to synchronize with third-party LDAP servers such as Microsoft Active Directory (see Part II.) You should also have a supported EnterpriseOne release with Tools 8.97 or greater and EnterpriseOne HTML client hosted on Oracle Application Server 10.1.3.1. Although the Oracle product documentation mentions limited “unidirectional” support for Websphere Application Server (WAS), I am focusing this guide strictly on “Red Stack” components. My demonstration, including screenshots, is from a JD Edwards EnterpriseOne 8.12 installation with Tools CPU 8.97.2.5. I will make some concessions to those of you running older releases, such as EnterpriseOne 8.10 and 8.11, and provide some additional hints in an effort to help you be successful if you attempt this possible career expanding maneuver. For those of you following along on Linux or UNIX instead of Windows, you’ll be fine provided that you make the necessary adjustments to the command strings.

Although you may have chosen to start with a more recent version of Oracle Identity Management—10g R3 (which includes Oracle Internet Directory and Single Sign-On components)—this three-part series focuses on the Application Server 10g R2 release. Most of what you will find in this series will still apply to the newer release, although there are a few appealing features in the latest release, such as Server Chaining support, which will not be covered.

Finally, before getting started, I’d like to update my recommendation of the LDAP Browser Editor tool, which was mentioned and used in Parts I and II. This was a recommendation based on convenience, not born of a technical requirement for entering into the world of integration between OID and Active Directory. It has come to my attention that since the Part II was published, the web hosting provider for the LDAP Browser/Editor has reworked their website and is no longer providing a copy of this fine utility. I’ve searched for other web hosts for the same utility, and for alternatives, and have come to the conclusion that Softerra LDAP Administrator is an excellent substitute (<http://www.ldapbrowser.com>), but it is commercial software. It is, however, available for download as a 30 day free trial. Also, note that you can simply use the tools provided with OID (Oracle Directory Manager) and Active Directory MMC snap-ins at no additional cost.

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