

ORACLE 10g

Evaluated Configuration for Oracle Application Server 10*g* (9.0.4)

May 2006

Security Evaluations
Oracle Corporation
500 Oracle Parkway
Redwood Shores, CA 94065

Evaluated Configuration for Oracle Application Server 10g (9.0.4)

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Authors: Saad Syed and Julian Skinner.
Contributors: Peter Goatly and Shaun Lee.

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Issue 0.3

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Introduction

 $\bf T$ he Target of Evaluation (TOE) is Oracle Application Server 10g (9.0.4). For this evaluation of Oracle Application Server the products which constitute the TOE are Oracle Application Server Containers for J2EE 10g (9.0.4.1.0) and Oracle Internet Directory 10g (9.0.4.0.0), where Oracle Application Server Containers for J2EE 10g (9.0.4.1.0) is obtained by applying Oracle Application Server 10g Patch Set 1 - July 2004 to Application Server Containers for J2EE 10g (9.0.4.0.0).

Oracle Application Server Containers for J2EE (OC4J) relies on the Java Naming and Directory Interface 1.2.1 for communication with Oracle Internet Directory (OID) in the evaluated configuration. The Java Naming and Directory Interface (JNDI) is part of the Java platform provided by Sun Microsystems, Inc. which is installed and configured with every Oracle Application Server installation type. Oracle Process Manager and Notification Server (OPMN) is also part of the Oracle Application Server installation and is used to start, monitor and stop OC4J's processes in the TOE's evaluated configuration. The JNDI and OPMN are part of the TOE for this evaluation.

The TOE products are hosted on the Sun Solaris 8 operating system platform and OID uses the Oracle9*i* Release 2 (9.2.0.1.0) Object-Relational Database Management System to hold its directory data.

This Evaluated Configuration for Oracle Application Server 10g (9.0.4) document explains the manner in which the TOE must be configured along with the host operating system, Oracle9i database, and network services so as to provide the security functionality and assurance as required under the Common Criteria for Information Technology Security Evaluation [CC].

The Evaluation Assurance Level for the TOE is EAL4 augmented with ALC_FLR.3. The Security Target used for the evaluation of the TOE is [ST].

1.1 Intended Audience

The intended audience for this document includes evaluators of the TOE, system integrators who will be integrating the TOE into systems, and accreditors of the systems into which the TOE has been integrated.

1.2 Organization

This document is composed of the following chapters:

Chapter 1	contains the introduction to the document;
Chapter 2	describes the physical environment of the TOE and the network services required to support the TOE;
Chapter 3	describes the host operating system, database server, network services, and client application configurations required to support the TOE;
Chapter 4	describes the configuration of the TOE, and all TOE-related network services and applications;
Chapter 5	contains a step by step guide to installation of the TOE in its evaluated configuration;
Annex A	lists the software components installed as per Section 5.2; and

lists the references that are used in this document.

Change bars indicate changes since the previous issue of this document.

1.3 Format

Annex B

Assertions about the configuration actions that are required to be performed are given identifiers to their left in bold Helvetica font, e.g. **[A-1]**. References to sections of documents listed in Annex B are in the format [document, section].

Mandatory evaluation configuration requirements use the words "must" and/or "shall" in each assertion.

Strongly recommended evaluation configuration requirements use the words "should" in each assertion.

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Physical Configuration

The physical and procedural requirements for maintaining the security of the database system underlying OID are given in [DBECD, 2]. This chapter describes additional physical and procedural requirements for maintaining the security of the TOE.

2.1 Machine Configuration

In the evaluated configuration, the OID software, as per [OIDECD, A.1], is to be installed on one server machine; OC4J, the JNDI and OPMN as per section A.1, are to be installed on another server machine; and the client software as per section A.3 is to be installed on the client machines.

2.2 Physical Environmental Assumptions

[AS.A-1]

The server machines hosting the TOE shall be located within controlled access facilities which will prevent unauthorized physical access to the TOE by unprivileged users. Only authorised administrators of the systems hosting the TOE shall have physical access to those systems. Such administrators include the Operating System Administrators, Database Administrators, Application Server Administrators and OID Directory Administrators.

[AS.A-2]

The media on which the TOE audit data resides shall not be physically removable from the underlying operating system by unauthorised users.

[AS.A-3]

Any on-line and/or off-line storage media on which security relevant data resides shall be located within controlled access facilities which will prevent unauthorised physical access.

2.3 Supporting Procedures

Procedures for the administration of TOE security shall be established based on the contents of this document, the Security Target [ST], [OIDST], any site security policy that may be in force, [OIDECD] and [SRN]. Procedures for the TOE shall include the following:

- Administrators shall ensure that any application hosted by Oracle Application
 Server Containers for J2EE must log the identity of the user accessing the application so that the user can be held accountable for their use of the application.
- Procedures and/or mechanisms shall assure that, after system failure or other discontinuity, recovery without a protection (i.e. security) compromise is obtained.

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Host Configuration

 ${f T}$ his chapter describes the configuration requirements for the systems which underly the TOE.

[DBECD, 3] describes the configuration requirements for the Solaris server platforms and the network services. These requirements apply to both the server machine hosting OID and the server machine hosting OC4J. [DBECD, 3] also covers requirements for client platforms that are to be used in the same secure network as the Oracle9*i* database, and covers the use of operating system facilities to protect the database.

[DBECD, 4] covers the configuration requirements for the Oracle 9i database that OID uses to hold its directory data.

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TOE Configuration

The TOE consists of software only. The TOE contains no hardware or firmware components and there are no hardware or firmware dependencies which affect the evaluation.

This chapter describes how the TOE must be configured in its evaluated configuration.

4.1 Pre-Installation Requirements

The installation of Oracle Internet Directory 10g (9.0.4) must be carried out as described in [OIDECD] and on a separate server from the server machine to be used for Oracle Application Server Containers for J2EE (9.0.4) (on which the JNDI and OPMN are also installed).

[DI.POST-4x]

The following requirement replaces the values to be used for attributes pwdMaxFailure and pwdLockoutDuration in [**DI.POST-4**] in [OIDECD, 4] when performing the post-installation requirements for Oracle Internet Directory 10*g* (9.0.4).

- pwdMaxFailure set to 10000
- pwdLockoutDuration set to 0.

Actions [AS.PRE-1] to [AS.PRE-4] listed in this section are required before the installation of OC4J can be carried out as described in Chapter 5.

[AS.PRE-1]

In order for the Oracle Application Server 10g (9.0.4) installation process to install OC4J successfully, the following lines must be present in the file /etc/system:

```
set semsys:seminfo_semmni=100
set semsys:seminfo_semmns=256
set semsys:seminfo_semmsl=256
set shmsys:shminfo_shmmax=4294967295
set shmsys:shminfo_shmmin=1
set shmsys:shminfo_shmmni=100
set shmsys:shminfo_shmseg=10
```

[AS.PRE-2]

A Unix group, which will be used by the Oracle software owner and database administrators, must be created before installing OC4J. Any legal name can be used for this group, but the convention is to use "dba". The dba group can be created via the admintool GUI or via the command-line e.g.:

groupadd -g 300 dba

[AS.PRE-3]

A Unix group, which will be used by the Oracle software owner, must be created before installing OC4J. Any legal name can be used for this group, but the convention is to use "oinstall". The oinstall group can be created via the admintool GUI or via the command-line e.g.:

groupadd -g 301 oinstall

[AS.PRE-4]

A Unix user that will be the Oracle software owner must be created before installing OC4J. The standard name used is "oracle". When creating the user a primary and a secondary group are required. The primary group should be oinstall and the secondary group should be dba. The oracle user can be created via the admintool GUI or with the Unix command:

useradd -c "Oracle Software Owner" -d /home/oracle -g oinstall -G dba -m -u 300 -s /bin/ksh oracle passwd oracle

4.2 Post-Installation Requirements

Actions [AS.POST-1] to [AS.POST-4] listed in this section are required to be performed to increase the security of the evaluated configuration after OC4J installation has been carried out as described in Chapter 5.

[AS.POST-1]

The administrator must set default application and directory permissions to the most restrictive possible whilst still allowing operation.

File permissions of 700 must be set for all directories and 500 for all files in \$ORACLE_HOME/bin. Permissions for all other files must be set to 600.

Subdirectories under \$ORACLE_HOME/j2ee are set by default to 750. These must all be set to 700 with the exception of

\$ORACLE_HOME/j2ee/home/jsp/bin/ojspc which must be set to 750.

[AS.POST-2]

Only the system administrator shall be granted access to the \$J2EE HOME/config directory and in particular, to the server.xml file.

[AS.POST-3]

When deploying each application to an OC4J instance the administrator must check the deployment descriptors to ensure that the correct users are authorized to access the application.

If a user is to be authorized to access some or all of the web modules of an application, then the OID directory must hold a group entry that the user is a member of, for which the security role linked to the group has been granted access to the application. An example of this is given in [OC4JSG, 6: J2EE and JAAS Provider Role Mapping], which shows how the group is mapped to the security role and the security role is given access permissions for the application. [OC4JSG, 3: J2EE Deployment Descriptors], [OC4JSG, 3: OC4J Deployment Descriptors] and [OC4JSG, 3: JAAS Provider Configuration Files] describe how deployment descriptors must be set up to grant users access to web applications. All aspects of deployment descriptor files are summarised in

[OC4JUG, 3: Overview of OC4J and J2EE XML Files] and their full details are given in [OC4JUG, A].

[AS.POST-4]

To increase the security of the OC4J system, user access to certain administrative web pages must be removed. To do this the system administrator should edit the following file:

\$ORACLE_HOME/Apache/Apache/config/httpd.conf

In the section <Location /server-status> the line beginning "Allow from ..." should be commented out.

In addition, the system administrator should add the following to this file:

<Location ~ "/(dms0/DMS/Spy/AggreSpy)">
Order deny, allow
Deny from all
</Location>

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Step by Step Guide

his chapter contains a step by step guide to installing OC4J in its evaluated configuration. It can be read in conjunction with [QUICK9.0.4, 3], which provides background information on the pre-installation requirements.

5.1 Operating System Installation / Configuration

Ensure that the intended physical environment is in accordance with the assumptions [A-1] to [A-6] listed in [DBECD, 2.1].

5.1.1 Installation of Sun Solaris 8

Install Sun Solaris 8 in accordance with [DBECD, 3] and [SRN]. Also ensure the patches specified in [QUICK9.0.4, 2.2.1] are installed and are at a version number at least as high as is specified in that document. In the evaluated configuration the version numbers of the required patches are at the level specified in [QUICK10.1.2, 4.2].

5.2 Oracle Application Server 10g (9.0.4) Configuration

5.2.1 Step by Step Installation of Oracle Application Server 10g (9.0.4)

This section outlines steps needed to set up OC4J's evaluated configuration on Sun Solaris 8. Those steps which are essential towards achieving OC4J's Evaluated Configuration are highlighted in **bold**.

The information to be supplied by the administrator for each step is indicated on the Universal Installer screen. The items in quotes below are examples of what was supplied for a particular installation of OC4J.

This section should be used in conjunction with the relevant installation manuals and assumes any prior installations of Oracle Application Server have been removed before the new installation starts.

Step No.	Action	Result
1	Insert Oracle Application Server 10 <i>g</i> (9.0.4.0.0) CD-ROM 1. Follow the instructions given in [QUICK, 2.11] to start Oracle Universal Installer.	Oracle Universal Installer: Welcome window appears.
2	Click Next.	Specify Inventory Directory screen opens.
3	Ensure the Inventory path is suitable for the installation.	This is the default path sup-
	<pre>example: "export/home/oracle/ oraInventory"</pre>	plied on screen.
	Click Ok.	Unix Group Name screen opens.
4	Enter Unix Group Name: example: "oinstall"	Execute orainstRoot.sh screen opens
5	Execute oraInstRoot.sh script as root user from the following directory: export/home/oracle/ oraInventory	This script is run only if this is the first installation on this computer.
	The command to run theoraInstRoot.sh script is:	
	sh oraInstRoot.sh	
	Click Continue	Specify File Locations screen opens.
6	Ensure the Oracle Home and full path are suitable for the installation.	This is the default option provided by the Universal
	<pre>example: "export/home/oracle/ OraHome1"</pre>	Installer.
	Click Continue.	Select a Product to Install screen opens
7	Select:	
	Oracle Application Server 10g	
	Click Next	Select Installation Type screen opens
8	Select:	
	J2EE & Web Cache.	
	Click Next.	Confirm Pre-Installation Requirements screen opens

Step No.	Action	Result
9	Click in the 'Root Privileges' tick box.	
	Click Next	Select Configuration Options screen opens.
10	Select:	
	HTTP Server	
	OracleAS Containers for J2EE	
	OracleAS Web Cache	
	Identity Manager Access	
	Click Next.	Register with Oracle Internet Directory screen opens
11	Enter Host: (enter the server name on which OID is installed)	
	Enter Port: (typically 3060)	
	Click Next	Specify Login for OID screen opens.
12	Username:	
	Password:	
	Click Next	Specify Instance Name and ias_password screen opens
13	Instance Name:	
	ias_admin Password:	
	Click Next	Summary screen opens
14	Click Install	

5.2.2 Installation of Patch Set 1 (9.0.4.1.0)

To complete the set up of OC4J for its evaluated configuration, Oracle Application Server Patch Set 1 (9.0.4.1.0) for Solaris Operating System (SPARC) - July 2004 must be applied to OC4J. The patch number for this patch set is 3784229, which can be downloaded from Oracle's Metalink suport site via the Patches & Updates tab. [PS July2004] is the README for the patch and describes how it should be installed.

5.2.3 Exclusions

Section A.1 lists the software components that are installed on the server by the Oracle Universal Installer during the installation of Oracle Application Server 10g (9.0.4.0.0) as per section 5.2.1. Because this is an Application Server installation process, many of these components are not part of the TOE for this evaluation. Section A.2 lists the components that actually constitute the TOE. The other components are not for use with the TOE in its evaluated configuration.

I

5.3 Client Installation

The TOE scope does not include any client software. During the evaluation of the TOE, client software and a web browser can be used outside of the TOE to send messages to the TOE in order to test its security features.

[AS.CA-1]

Administrators shall ensure that no applications are installed that can be run on any client or server host machines which access the network, unless they have been shown not to compromise the TOE's security objectives as stated in [ST] (the equivalent restriction for the database underlying the TOE is [OS.CA-1] in [DBECD]).

ANNEX



TOE Components

A.1 Server components

The following is a summary of all the components that are installed on the server by the Oracle Universal Installer during the installation of Oracle Application Server10*g* (9.0.4) as per section 5.2.1:

- Advanced Queueing (AQ) API 9.0.1.5.0
- Agent Required Support Files 9.0.4.0.0
- Apache Configuration for EJB 9.0.1.0.1
- Apache Configuration for Oracle Java Server Pages 9.0.4.0.0
- Apache Configuration for Oracle XML Developer's Kit 9.0.4.0.0
- Apache JServ 1.1.2.0.2a
- Apache Module for Oracle Distributed Authoring and Versioning 9.0.4.1.0
- Assistant Common Files 9.0.4.0.0
- BC4J Config Assistant 9.0.4.1304.0
- BC4J Config Assistant for agent 9.0.4.1304.0
- BC4J Runtime Library 9.0.4.1.0
- BC4J Runtime for OracleAS 9.0.4.1304.0
- Bali Share 1.1.18.0.0
- Enterprise Manager Agent 4.0.1.1.0
- Enterprise Manager Common Files 4.0.1.1.0
- Enterprise Manager Minimal Support Files 9.0.2.0.0
- Enterprise Manager Process Utility 9.0.4.1.0
- Extended Windowing Toolkit 3.3.18.0.0a

- HTTP Server Files 1.3.28.0.0a
- Installation Common Files 9.0.4.0.0
- Installer SDK Component 2.3.0.10.0
- JDBC Common Files 9.0.1.5.0
- JDBC/OCI Common Files 9.0.1.5.0
- JSDK 2.0.0.0.0d
- Java Naming and Directory Interface Libraries 1.2.1.0.0
- Java Runtime Environment 1.1.8.16.0c
- Java Security Configuration Assistant 9.0.4.0.0
- LDAP Required Support Files 9.0.4.1.0
- OC4J for Oracle Enterprise Manager 9.0.4.0.0
- Oracle Application Server 10g 9.0.4.1.0
- Oracle Application Server Core Products 9.0.4.0.0
- Oracle Application Server Instance 9.0.4.0.0
- Oracle Application Server Middle Tier Products 9.0.4.0.0
- Oracle Application Server Object in OID 9.0.4.0.0
- Oracle Application Server UIX Configuration 2.1.21.0.0a
- Oracle Client Required Support Files 9.0.1.5.0
- Oracle Code Editor 1.2.1.0.01
- Oracle Core Required Support Files 9.0.1.5.0
- Oracle Delegated Administration Service 9.0.4.1.0
- Oracle Display Fonts 9.0.2.0.0
- Oracle Distributed Configuration Management 9.0.4.1.0
- Oracle Dynamic Monitoring Service 9.0.4.1.0
- Oracle Dynamic Services Core 9.0.4.0.0
- Oracle Dynamic Services Midtier 9.0.4.1.0
- Oracle Dynamic Services Midtier Common 9.0.4.0.0
- Oracle Dynamic Services Server 9.0.4.0.0
- Oracle EM agent 9.0.4.1.0
- Oracle Enterprise Java Beans and CORBA Tools 9.0.1.1.1
- Oracle Enterprise Manager Application Server Control 9.0.4.1.0
- Oracle Extended Windowing Toolkit 3.4.28.0.0
- Oracle HTTP Server 9.0.4.0.0
- Oracle Help For Java 4.2.5.0.0a
- Oracle Help for the Web 1.1.7.0.0a

- Oracle Ice Browser 5.2.3.3.0
- Oracle Internet Directory Tools 9.0.4.0.0
- Oracle JDBC Thin Driver for JDK 1.1.9.0.1.5.0
- Oracle JDBC Thin Driver for JDK 1.2.9.0.1.5.0
- Oracle JDBC/OCI Driver for JDK 1.1.9.0.1.5.0
- Oracle JDBC/OCI Driver for JDK 1.2.9.0.1.5.0
- Oracle JFC Extended Windowing Toolkit 4.2.18.0.0
- Oracle Java Object Cache 9.0.4.1.0
- Oracle Java Server Pages 9.0.4.1.0
- Oracle Java Tools Common Files 9.0.1.5.0
- Oracle Logloader 9.0.4.1.0
- Oracle Mod PL/SQL Gateway 9.0.4.1.0
- Oracle Net Configuration Assistant 9.0.4.0.0
- Oracle Net Required Support Files 9.0.1.5.0
- Oracle Notification Service 9.0.4.1.0
- Oracle OC4J Module 9.0.4.0.0
- Oracle One-Off Patch Installer 2.3.0.10.0
- Oracle Portal Monitoring 9.0.4.1.0
- Oracle Process Management Notification 9.0.4.1.0
- Oracle Property Inspector 4.1.15.0.0
- Oracle SOAP Client files 2.2.0.0.2a
- Oracle SOAP Server 2.2.0.0.2a
- Oracle Syndication Services Core 9.0.4.0.0
- Oracle Trace Required Support Files 9.0.1.0.1
- Oracle UIX 2.1.21.0.0a
- Oracle Universal Installer 2.3.0.10.0
- Oracle Wallet Manager 9.0.1.5.0
- Oracle XML Runtime Components 9.0.4.0.0
- Oracle XML SQL Utility 9.0.1.5.0
- Oracle interMedia Java Client 9.0.4.0.0
- Oracle interMedia Java Media Framework Client 9.0.4.0.0
- Oracle9i Globalization Support 9.0.1.5.0
- Oracle9i Real Application Clusters Common Files 9.0.1.5.0
- OracleAS Configuration for OC4J 9.0.4.0.0
- OracleAS Containers for J2EE 9.0.4.1.0

- OracleAS Containers for J2EE Common Files 9.0.4.1.0
- OracleAS Instance Dialog 9.0.4.0.0
- OracleAS JAAS Support 9.0.4.0.0
- OracleAS JAAS Support Common Files 9.0.4.1.0
- OracleAS Port Tunnel 9.0.4.0.0
- OracleAS Repository API 9.0.4.0.0
- OracleAS Single Sign On Registration 9.0.4.0.0
- OracleAS Upgrade Assistant 9.0.4.0.0
- OracleAS Web Cache 9.0.4.1.0
- OracleAS Web Services 9.0.4.0.0
- OracleAS Web Services Common Files 9.0.4.0.0
- PL/SQL Required Support Files 9.0.1.5.0
- Parser Generator Required Support Files 9.0.1.0.1
- Perl Interpreter 5.6.1.0.2p
- Platform Required Support Files 9.0.1.5.0
- Precompiler Required Support Files 9.0.1.5.0
- RDBMS Required Support Files 9.0.1.5.0
- Required Support Files 9.0.1.5.0
- SQL*Plus 9.0.1.5.0
- SQLJ Runtme 9.0.4.0.0
- SSL Required Support Files 9.0.1.5.0
- Secure Socket Layer 9.0.1.5.0
- Secure Socket Layer Files 9.0.1.5.0
- Sun JDK 1.4.1.0.3
- Sun JDK Extensions 9.0.4.0.0
- Visigenics ORB 3.4.0.0.0
- XDK Required Support Files 9.0.4.0.0
- XML Class Generator for C++ 9.0.4.0.0
- XML Class Generator for Java 9.0.4.0.0
- XML Parser for C 9.0.4.0.0
- XML Parser for C++ 9.0.4.0.0
- XML Parser for Java 9.0.4.0.0
- XML Parser for PL/SQL 9.0.4.0.0
- XML Transviewer Beans 9.0.4.0.0
- XSQL Servlet 9.0.4.0.0

• regexp 2.1.9.0.0

A.2 Evaluated Configuration Boundaries

The evaluated configuration of the TOE shall comprise exactly the following software components:

- Oracle Internet Directory 9.0.4.0.0
- OracleAS Containers for J2EE 9.0.4.1.0
- Oracle Internet Directory Server 9.0.4.0.0
- Oracle Internet Directory Tools 9.0.4.0.0
- Oracle Process Management Notification 9.0.4.1.0
- Java Naming and Directory Interface Libraries 1.2.1.0.0

A.3 Client components

There are no client components in the TOE.

The following is a list of all the components that were installed on the two client machines during the installation of client software for use in testing the TOE in its evaluated configuration.

- Netscape 7.2 (on one machine)
- Internet Explorer 6 (on the other machine).

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ANNEX

B

References

[CC] Common Criteria for Information Technology Security Evaluation,

Version 2.2, ISO/IEC 15408, CCIMB-2004-01, 001, January 2004.

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