

Evaluated Configuration Guide for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406



BUSINESS INTELLIGENCE



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Abbreviations

CC	Common Criteria
CEM	Common Evaluation Methodology
CI	Configuration Item
EAL	Evaluation Assurance Level
ECG	Evaluated Configuration Guide
ETR	Evaluation Technical Report
ISO	International Standards Organisation
IT	Information Technology
OR	Observation Report
OSP	Organisational Security Policy
PP	Protection Profile
SAR	Security Assurance Requirement
SFP	Security Function Policy
SFR	Security Functional Requirement
ST	Security Target
TOE	Target of Evaluation
TSF	TOE Security Functionality
TSFI	TSF Interface



1 Introduction

1.1 Purpose

This document is the Evaluated Configuration Guide (ECG) for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406.

Title: Evaluated Configuration Guide for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406

Target of Evaluation (TOE): Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406

Release: 10.1.3.3.2 with Quick Fix 090406

Operating System Platform: Oracle Enterprise Linux, Version 4 Update 5 operating system platform with the capp-eal4-config-oracle package

Database Platform: Oracle Database Server 10g Release 2 (10.2.0.3.0)

LDAP Directory Platform: Oracle Internet Directory 10g (10.1.4.0.1)

Web Server Platform: Oracle HTTP Server 10g Release 2 (10.1.2)

OC4J Platform: Oracle SOA Suite 10g Release 3 (10.1.3.1.0)

Keywords: Oracle Business Intelligence Enterprise Edition, EAL3.

1.2 TOE Overview

The TOE is hosted on Oracle Enterprise Linux Version 4 Update 5 operating system platform and uses Oracle Application Server 10g Release 3 (10.1.3.1.0) to serve content and Oracle Client 10g Release 2 (10.2.0.3.0) to connect to the database platform.

This document explains the manner in which the TOE must be configured along with the host operating system so as to provide the security functionality and assurance as required under the Common Criteria for Information Technology Security Evaluation [CC].

The assumptions and procedures stated in the document are intended to remove potential vulnerabilities or attack paths from the TOE in its environment. They do not have any impact on the correct implementation of the TOE's SFs.

The Evaluation Assurance Level for the TOE is EAL3. The Security Target used for the evaluation of the TOE is [ST].



1.3 Document Structure

This ECG is divided into 7 sections, as follows:

- Section 1 (this section) provides an introduction to the ECG.
- Section 2 provides the preparatory actions to be undertaken before installing the software for the evaluated configuration.
- Section 3 provides the installation of the software for the evaluated configuration.
- Section 4 provides the post-installation actions to complete the evaluated configuration.
- Section 5 provides the supporting procedures to ensure that the TOE is operated in a way that upholds the security objectives defined in [ST].

1.4 Format

Assertions for the physical, host, and Oracle configurations are given identifiers to the left of each evaluation configuration requirement in bold Arial font, e.g. **[A-1]**.

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.



2 Preparation

This part of the ECG provides the preparatory actions to be undertaken before installing the software for the evaluated configuration of Oracle Business Intelligence Enterprise Edition (Oracle BIEE).

2.1 Machine Configuration

In the configuration used for the evaluation testing of Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406, the TOE was installed on virtual machines hosted on two Dell Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) machines with 4GB of memory.

It is recommended that Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 be used on physically separate servers. Time synchronisation issues may occur on virtual machine setups and they should be checked for and resolved before the system is put into production. If problems are found the virtualisation vendor should be consulted to resolve the issue¹.

The virtual machines allocated for the installation of the TOE were:

Machines	vm1, vm2	
Specification	Dell Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) 1GB Memory Oracle Enterprise Linux 4 Update 5 x86_64	
Products to be installed	Oracle SOA Suite 10g Release 3 (10.1.3.1.0) Oracle Client 10g Release 2 (10.2.0.3.0) Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406	

Table 2.1:	Config	uration	of ma	achines	1	and	2
------------	--------	---------	-------	---------	---	-----	---

Machine	vm3
Specification	Dell Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) 1GB Memory

¹ The work around used on the test machines during the evaluation was to use cron jobs to have each virtual machine synchronise time every 10 minutes with the host physical machine. These in turn were synchronised with the UK pool of NTP servers using an NTP service.



	Oracle Enterprise Linux 4 Update 5 x86_64
Products to be installed	Oracle Database 10g Release 2 (10.2.0.3.0)

Table 2.2: Configuration of machine 3



Machine	vm4
Specification	Dell Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) 1GB Memory Oracle Enterprise Linux 4 Update 5 x86_64
Products to be installed	Oracle Internet Directory 10g Release 4 (10.1.4.0.1)

Machine	vm5
Specification	Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) 1GB Memory Oracle Enterprise Linux 4 Update 5 x86_64
Products to be installed	Oracle SOA Suite $10g$ Release 3 (10.1.3.1.0) Oracle HTTP Server $10g$ Release 2 (10.1.2) Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Presentation Services Plug-In

 Table 2.4: Configuration of machine 5

Machine	vm6	
Specification	Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) 1GB Memory Microsoft Windows XP SP2	
Products to be installed	JDK 5 Update 16 Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) Client Tools	

Table 2.5: Configuration of machine 6



Machine	vm7
Specification	Optiplex 745 MT – Core 2 Duo E6400 (2.13 GHz) 384MB Memory Oracle Enterprise Linux 4 Update 5 x86_64
Products to be installed	None

Table 2.6: Configuration of machine 7





2.2 System Architecture

The diagram below illustrates the physical and logical architecture of the TOE:



Figure 1: TOE Configuration



2.3 Physical Environmental Assumptions

This section describes physical requirements on the server machine so that the security of the TOE can be maintained.

- **[DI.A-1]** The processing resources of the TOE shall be located within controlled access facilities which will prevent unauthorized physical access to the TOE by unprivileged users. Only authorised administrators for the system hosting the TOE shall have physical access to that system. Such administrators include the Operating System Administrators, Database Administrators and OID Directory Administrators.
- **[DI.A-2]** The media on which the TOE audit data resides shall not be physically removable from the underlying operating system by unauthorised users.
- **[DI.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.
- **[DI.A-4]** A reliable time source such as an NTP server, radio clock or GPS unit shall be used to ensure clock coherence between all servers within the environment.

2.4 Electronic Delivery of the TOE

To receive electronic delivery of the TOE installation software, complete the following steps:

- 1. Access the Oracle Technology Network Website at <u>http://www.oracle.com/technology/index.html</u>.
- 2. Click on the 'Downloads' link.
- 3. Scroll down to the Middleware section and click 'Business Intelligence Suite EE'.
- 4. Click the checkbox if you agree to the Licence Terms and export restrictions.
- 5. Click the 'I Accept' button to agree to the OTN licence terms.
- You should now be looking at the 'Oracle Business Intelligence (10.1.3.x) Downloads' page: http://www.oracle.com/technology/software/products/ias/htdocs/101320
 bi.html.
- 7. The following product needs to be downloaded for the Microsoft Windows and Linux operating systems:



Oracle Business Intelligence Suite Enterprise Edition, v. 10.1.3.3.2

- 8. Hovering the mouse pointer over the link to the download will display the download's cksum number. This number should be recorded for later verification.
- 9. When the first download is requested, the OTN Sign-in page is presented.
- 10. Complete the form with your OTN login details, or create an account by clicking 'sign up now'.
- 11. The download will start. Ensure that you download all disks for the Microsoft Windows and Linux operating system.
- 12. Once the download is complete and the file has been transferred to the target environment, check the file with the cksum filename command to ensure that the download has not become corrupted. If the CKSUM numbers do not match, the file should be downloaded again.

For the Evaluated Configuration, the 64-bit Oracle Enterprise Linux 4 Update 5 operating system software was obtained via download from the Oracle E-Delivery Web site and made available to the host servers via an NFS mount.

Use the steps in section 2.6 to obtain Quick Fix 090406.

2.5 Physical Delivery of the TOE

To request the media pack:

- 1. Go to www.oracle.com and select Shop Online.
- 2. Choose the appropriate store and select Application Server.
- 3. Select Oracle Business Intelligence Suite Enterprise Edition Plus and choose your licensing terms.
- 4. Select 'Purchase Media Packs'.
- 5. Select Linux x86.
- 6. Select Oracle Business Intelligence (10.1.3) Media Pack for Linux x86 (32 bit).

When the media pack arrives the relevant CDs / DVDs are:

B45769-01 – Oracle® Business Intelligence Suite Enterprise Edition 10.1.3.3.2 for Linux x86.



B45770-01 – Oracle® Business Intelligence Suite Enterprise Edition 10.1.3.3.2 for Microsoft Windows.

Use the steps in section 2.6 to obtain Quick Fix 090406.

2.6 Delivery of Quick Fix 090406

Use the following procedure to obtain Quick Fix 090406:

- 1. Logon into metalink 3 Portal at: https://metalink3.oracle.com
- 2. Navigate to the Patches and Downloads tab
- 3. From the Patches and Downloads window, select the "Oracle, Siebel and Hyperion Products" hyperlink.
- 4. Click the "Simple Search" link
- 5. In the simple search window, populate the Patch Number field with the "Quick Fix 090406". Select "Oracle Enterprise Linux" from the Platform/Language field. and hit the Go bottom. Please note patches are platform specific, so ensure proper platform is selected.
- 6. From the returned record set, hover the mouse pointer over the link under the patch column to display the download's cksum number. This number should be recorded for later verification.
- 7. Click the hyperlink under the Patch column
- 8. In the resulting window, provide the password provided to you for the patch. Please note that passwords expire a week after they are generated.
- 9. A download button is displayed. Hover the mouse pointer over the download button to display the download's cksum number. This number should be recorded for later verification.
- 10. Click the download button.
- 11. All patch downloads are provided in zip format.
- 12. Once the download is complete and the file has been transferred to the target environment, check the file with the cksum filename command to ensure that the download has not become corrupted. If the CKSUM numbers do not match, the file should be downloaded again.
- 13. Repeat this process for the Windows platform by repeating this procedure and substituting "Windows XP" for "Oracle Enterprise Linux" at step 5.



14. Unzip the Quick Fix into a known directory on machines 1, 2 and 5 ready for install in accordance with instructions in Annex I.

2.7 Additional Software for the TOE

The following supplementary software is required for the installation of the TOE:

- Oracle Enterprise Linux 4 Update 5 x86_64
- Oracle SOA Suite 10g (10.1.3.1.0) for Linux x86 (32-bit), part number B34625-01
- Oracle Database 10g Release 2 (10.2.0.1.0) for Linux x86_64, part number B24792-01
- Oracle Database 10g Release 2 (10.2.0.3.0) for Linux x86_64, MetaLink patch 5337014
- OPatch 10.2.0.0.0 for Linux x86_64, MetaLink patch 6880880
- MetaLink patch 5240469 for Linux x86_64
- Critical Patch Update April 2007 for Linux x86_64, MetaLink patch 5901891
- Oracle Identity Management Infrastructure and Oracle Identity Federation (10.1.4.0.1) for Linux x86 (32-bit), part numbers B30971-01 and B30972-01
- Oracle Application Server Companion CD 10g (10.1.2.0.2) for Linux x86 (32-bit), part numbers B24492-01 and B24493-01
- J2SE Development Kit 5 Update 16
- Oracle Database 10g Client Release 2 (10.2.0.1.0) for Microsoft Windows (32-bit), part number B24559-01
- Oracle Database 10g Client Release 2 (10.2.0.3.0) for Microsoft Windows (32-bit), MetaLink patch 5337014
- OPatch 10.2.0.0.0 for Microsoft Windows (32-bit), MetaLink patch 6880880
- Critical Patch Update April 2007 for Microsoft Windows (32-bit), MetaLink patch 5948242



3 Installation

This chapter describes the installation of the software for the evaluated configuration.

3.1 Operating System Installation / Configuration

Oracle Enterprise Linux Version 4 Update 5 shall be installed as described in <u>Annex C</u> and [ECGOEL4].

3.2 Oracle SOA Suite 10g Release 3 (10.1.3.1.0) Installation

<u>Annex D</u> describes the steps needed to install Oracle SOA Suite 10g Release 3 (10.1.3.1.0) on Oracle Enterprise Linux 4 Update 5. This annex should be followed to install Oracle SOA Suite 10g Release 3 (10.1.3.1.0) on machines 1, 2 and 5.

3.3 Oracle Database 10g Client Release 2 (10.2.0.3.0) Installation

<u>Annex E</u> describes the steps needed to install Oracle Database 10g Client Release 2 (10.2.0.3.0). This annex should be followed to install Oracle Database 10g Client Release 2 (10.2.0.3.0) on machines 1 and 2.

3.4 Oracle Database 10g Release 2 (10.2.0.3.0) Installation

<u>Annex F</u> describes the steps needed to install Oracle Database 10g Release 2 (10.2.0.3.0). This annex should be followed to install Oracle Database 10g Release 2 (10.2.0.3.0) on machine 3.

3.5 Oracle Internet Directory 10g (10.1.4.0.1) Installation

<u>Annex G</u> describes the steps needed to install Oracle Internet Directory 10g (10.1.4.0.1). This annex should be followed to install Oracle Internet Directory 10g (10.1.4.0.1) on machine 4.

3.6 Oracle HTTP Server 10g Release 2 (10.1.2.0.2) Installation

<u>Annex H</u> describes the steps needed to install the Oracle HTTP Server 10g Release 2 (10.1.2.0.2). This annex should be followed to install Oracle HTTP Server 10g Release 2 (10.1.2.0.2) on machine 5.



3.7 Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Installation

<u>Annex I</u> describes the steps needed to install Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406. This annex should be followed to install Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 on machines 1 and 2.

3.8 Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Presentation Services Plug-In Installation

<u>Annex J</u> describes the steps needed to install Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Presentation Services Plug-In. This annex should be followed to install Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Presentation Services Plug-In on machine 5.

3.9 J2SE Development Kit 5.0 Update 16 Installation

<u>Annex K</u> describes the steps needed to install J2SE Development Kit 5.0 Update 16. This annex should be followed to install J2SE Development Kit 5.0 Update 16 on machine 6.

3.10 Oracle Database 10g Client Release 2 (10.2.0.3.0) Installation

<u>Annex L</u> describes the steps needed to install Oracle Database 10g Client Release 2 (10.2.0.3.0). This annex should be followed to install Oracle Database 10g Client Release 2 (10.2.0.3.0) on machine 6.

3.11 Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) Client Tools Installation

<u>Annex M</u> describes the steps needed to install Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) Client Tools. This annex should be followed to install Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Client Tools on machine 6.

3.12 IBM GSKit 7 Installation

<u>Annex N</u> describes the steps needed to install IBM GSKit 7. This annex should be followed to install IBM GSKit 7 on machines 1, 2 and 6.



4 Configuration

This part of the ECG describes the post-installation actions to complete the evaluated configuration.

4.1 Repository Configuration

The repository configuration will be performed using the client tools installed on the Windows XP Client machine (machine 6). The paint repository configuration below is provided as an example of how the repository setup should be done. The configuration is not intended to be used in a customer's environment.

4.1.1 Database Configuration for Paint Repository

To setup the paint repository create a schema, on the database server (machine 3), to hold the paint data:

```
sqlplus / as sysdba
create user paint identified by oracle10 quota unlimited on
users;
grant create session, create table to paint;
```

Connect as the PAINT user and run the following scripts:

```
@create_paint_tables.sql
@fact.sql
@forecast.sql
@market.sql
@period.sql
@product.sql
commit;
```

4.1.2 Database Configuration for Usage Tracking Repository

To setup the usage tracking repository create a schema, on the database server (machine 3), to hold the usage tracking data:

```
sqlplus / as sysdba
create user ut identified by oracle10 quota unlimited on users;
grant create session, create table, create view to ut;
```

Connect as the UT user and run the following scripts:



```
@SAACCT.Oracle.sql
@Oracle_create_nQ_Calendar.sql
@Oracle_create_nQ_Clock.sql
@Oracle_nQ_Calendar.sql
@Oracle_nQ_Clock.sql
commit;
```

Issue the following SQL:

```
create view NQ_LOGIN_GROUP as
select distinct USER_NAME as LOGIN, USER_NAME as RESP
from S_NQ_ACCT;
```

4.1.3 Database Configuration for Database Authorization

If database authorization is required a schema on the database server (machine 3) must be created:

```
sqlplus / as sysdba
create user sa identified by oracle10 quota unlimited on users;
grant create session, create table to sa;
```

Connect as the SA user and issue the following SQL:

```
CREATE TABLE SA_USER_GROUP (

GROUP_NAME varchar2(40) NOT NULL,

LOGON varchar2(40) NOT NULL);
```

4.1.4 Create Blank Repository

Open the BI Administration Tool (machine 6) by navigating to Start > Programs > Oracle Business Intelligence > Administration



Oracle BI Administration Tool	
File Tools Help	
For Help, press F1	

Click File > New

New Repository						? ×
Save jn:	C Repository		•	+ 🗈 💣	: ::::•	
My Recent Documents	opaint.rpd					
Desktop						
My Documents						
UK-L3RT254						
My Network Places	File <u>n</u> ame:	blank.rpd		•] [<u>S</u> ave
	Save as <u>t</u> ype:	Repository Files (*.rpd)		-		Cancel

Enter 'blank.rpd' in the 'File name' field and click Save.





🖸 Oracle BI Administration Tool - blank.rpd				
<u>File E</u> dit <u>V</u> iew <u>M</u> anage <u>T</u> ools <u>W</u> indow <u>H</u> elp				
📙 🗅 😅 📽 🖶 🖶 🖌 🛍 🛍 🔽 🛛 🦄				
Presentation	Business Model and Mapping	Physical		
For Help, press F1				

Click 'Manage' > 'Security'

Security Manager				
<u>A</u> ction <u>E</u> dit <u>L</u> DAP <u>H</u> elp				
E- 😥 Security	Name	Full name	Description	
Groups LDAP Servers Custom Authenticators 子 Hierarchy	R Administrator			

Select 'Users' from the left-hand pane and double-click the 'Administrator' user.



User - Administrator
User Logons
User name: Administrator Permissions
Eull name:
Description:
Password:
Confirm Password:
Logging level: 0
Password never <u>expires</u>
Password expires every 365 days
<u>G</u> roup membership:
Administrators
OK Cancel Help

Enter a password into the 'Password' and 'Confirm Password' fields and click OK.

Close the Security Manager and save the blank repository.

Oracle BI Administration Tool				×
Do you wish to check global consistency?				?
(<u>Y</u> e:	s)	No	Cancel	

Click 'Yes' to check global consistency.



Consistency Check Mana	iger		
Messages Options			
Display:	Warnings 🔽 Best	: Practices	B
Messages:			
Message Type	Ubject Type	Ubject	Error D
Show Qualified Name	Check <u>A</u> ll Objects	⊆opy Close	Help
A Global Consistency Check	was performed. 0 Error(s) (0 shown), 0 Warning(s) (0 sh	own), and 0 Besl

No errors should be shown. Click Close. Close the blank repository.

4.1.5 Merge Repositories

The paint and usage tracking repositories will be merged. Copy the repositories to the C:\oracle\product\OBIEE\server\Repository directory.

Use the BI Administration tool to open the 'paint_db' repository.

Open Offlin	e paint_db.rpd	×
<u>U</u> ser:	Administrator	OK
- Password:	******	Cancel
	J	<u>H</u> elp

The default password for the 'paint_db' repository is 'Administrator'.



Oracle BI Administration Tool - paint_db.rpd				
<u>File Edit View Manage Iools Window H</u> elp				
🛛 🗅 🚅 🗳 🖨 🖬 🐇 🖻 💼				
Presentation	Business Model and Mapping	Physical		
I⊞ Eaint I⊞ Eaint Exec		⊞ 🚺 Paint		
For Help, press F1				

Click File > Merge

Select Original F	tepository			? ×
Look <u>i</u> n	Pepository	(+ (È 💣 🎟 •	
My Recent Documents Desktop My Documents UK-L3RT254	 blank.rpd paint.rpd paint_db.rpd UsageTracking.rpd 			
My Network Places	File <u>n</u> ame: [*].rpd		•	<u>O</u> pen
	Files of type: Repository Files (*.rpd)		–	Cancel

Select the **'blank.rpd'** file and click Open.



Open Offline blank.rpd				
User: Administrator	ОК			
	Cancel			
	<u>H</u> elp			

Enter the 'Administrator' password for the 'blank' repository.

1erge repositories				<u>_ 0 ×</u>
Original repository	C:\oracle\pr	oduct\OBIEE\serve	r\Repositor	Select
Modified repository				Select
Save merged repository as	C:\oracle\pr	oduct\OBIEE\serve	r\Repositor	Select
Changes from blank.rpd to p	paint_db.rpd			
Show Qualified Names		Filter	<u>F</u> ind	Find <u>Ag</u> ain
Name		Change	Туре 🔺	<u>D</u> iff
🕵 Administrators		Deleted	Seci	
Mage Administrator		Deleted	User	<u> </u>
Administrators		Created	Secu	Stats
Ministrator		Created	User	C.F 4
[?] Current Month		Created	Varia	View 1
Paint		Created	Busir	E dit <u>2</u>
12, MarketDim		Created	Dime	
1∠, PeriodDim		Created	Dime	<u>U</u> DML 1
ProductDim		Lreated	Dime	UDML 2
Sales Facts		Lreated	Logic	
DradVau		Created	Logic	
		Created	Logic	
		Created		
		Ciealeu		
Me	rge	Cancel	Help	

Click the **'Select...'** button for the Modified repository.



Select Modified F	lepository					<u>? ×</u>
Look in:	C Repository		•	+ 🗈 💣 🛛	<u>.</u>	
My Recent Documents Oesktop	 blank.rpd paint.rpd sh.rpd UsageTracking. 	rpd				
My Documents						
UK-L3RT254						
My Network Places	File <u>n</u> ame: Files of <u>type</u> :	UsageTracking.rpd Repository Files (*.rpd)		• •		<u>O</u> pen Cancel

Select the 'UsageTracking.rpd' repository and click Open.

Open Offline UsageTracking.rp	d X
User: Administrator	ОК
Password: *********	Cancel
	Help

Enter the password for the 'Usage Tracking' repository and click OK.



Merge repositories				_ 🗆 🗙
Original repository	roduct\OBIE	roduct\OBIEE\server\Repository\blank.rpd		Select
Modified repository	C:\oracle\pr	oduct\OBIEE\serv	er\Repositor	Select
Save merged repository as	C:\oracle\pr	oduct\OBIEE\serv	er\Repositor	Select
How to merge UsageTrack	r ing.rpd chang	jes into paint_db.rp	d	
Show Qualified Names		Load	Eind	Find <u>Ag</u> ain
Name Description	n C	ecision		<u>D</u> iff
Paint Exec Added to Curre	nt Current			Save
	nt punent			State
•			▶	
Following objects were add	ed to Current i	repository:		
Original repository blank.rpd	Modified re	epository	Current repos	itory
	⊕ <mark>iai</mark> Pair ⊕ <mark>ia</mark> Pair	nt nt Exec		
M	erge	Cancel	Help	

Scroll across to the 'Decision' column and select '**Current**' from the dropdown list from both rows.

Click Merge.



Click Yes



C	onsistency Checl	k Manager			
ſ	Messages Option	s			
	Display:	🔽 Warning	gs 🔽 Best Pra	ctices	<u>6</u>
Γ	Messages:				
	Message Type	Object Type	Object	Error Description	
	Warning	Database	OBI Usage Tracking	[39028] The features in Databas Usage Tracking' do not match the defaults. This can cause query pi	e 'OBI e roblems.
ſ	Show Qualified (Name Che	ck <u>A</u> ll Objects	Copy Close	Help
A	Global Consistency	y Check was per	rformed. 0 Error(s) (0	shown), 1 Warning(s) (1 shown)	, and 0 Besl

Ignore the error shown and click Close.

The merged repository is now available in the Oracle BI Administration Tool and is saved as paint_db(1).rpd.

Oracle BI Administration Tool - paint_	db(1).rpd	
<u>File E</u> dit <u>V</u> iew <u>M</u> anage <u>T</u> ools <u>W</u> indow	Help	
🛛 🗅 🚅 🚔 🕒 🛛 🕹 🛍 🖉		
Presentation	Business Model and Mapping	Physical
Paint Exec ⊕ Usage Tracking	🗄 💼 Usage Tracking	🗄 🖞 Usage Tracking
For Help, press F1		

Click Manage > Security





Security Manager			
Action Edit LDAP Help			
E Security Users Groups LDAP Servers Custom Authenticators ∰ Hierarchy	Name Marinistrator	Full name Siebel Analytics Administrator	Description

Delete the 'Administrator#1' user by right-clicking the user and selecting 'Delete'.

Oracle BI Administration Tool 🛛 🔀						
2	Do you want l	to delete the obje	ct(s) ?			
[Yes	No				

Click Yes.

Select 'Groups' from the left-hand pane.



Delete the 'Administrators#1' group by right-clicking the group and selecting 'Delete'.



Click Yes.

Close Security Manager.

Click Manage > Variables

Click Repository > Variables > Static

Modify the value of the **'OLTP_USER'** variable to the name of the Usage Tracking schema (UT).

Modify the value of the 'OLTP_DSN' variable to 'ORCL'.

Modify the value of the 'DSN' variable to 'ORCL'.

Note: The values of the 'OLTP_DSN' and 'DSN' should be a valid TNS Names entry in the relevant tnsnames.ora file.

Click Action > Close.

In the Physical layer pane:

Expand the **'Paint'** folder and rename the connection pool named **'Connection Pool'** to **'Paint Connection Pool'**.

Rename the 'OBI Usage Tracking' folder to 'Usage Tracking'.

Expand the **Usage Tracking** > **Catalog** > **dbo** tree.

Rename the 'dbo' folder to 'UT'.

Drag and drop the 'UT' folder so that the 'Usage Tracking' folder is its parent.

Delete the 'Catalog' folder and the connection pool named 'Usage Tracking Writer Connection Pool'.

Rename the connection pool named 'Connection Pool' to 'Usage Tracking Connection Pool'.



Double-click the **'Usage Tracking'** folder.

Select 'Oracle 10g R2/11g' from the Database select list.

Click the **'Set...'** button.

Click OK.

Double-click the 'Usage Tracking Connection Pool' entry for 'Usage Tracking'

Update the password field with the password for the UT schema.

Click OK.

Click File > Save.

Oracle BI	Admini	stration Tool	X
?	Do you	wish to check g	lobal consistency?
(<u>Y</u> e	s)	No	Cancel

Click Yes.

Consistency Check Mana	ager		
Messages Options			
Display:	Warnings 🔽 Bes	t Practices	<u>6</u>
Messages:			
Message Type	Object Type	Object	Error D
Show Qualified Name	Check <u>A</u> ll Objects	⊆opy Close	
A Global Consistency Check	was performed. 0 Error(s) (0 shown), 0 Warning(s)) (0 shown), and 0 Besl

Click Close.



🖸 Oracle BI Administration Tool - paint_db(1).rpd					
<u>File Edit View Manage Iools Window H</u> elp					
j 🗅 🖨 🖨 🕒 📕 🐰 🖻 🛍 🛃 🚺					
Presentation	Business Model and Mapping	Physical			
⊕ Paint	⊕ ⊡ Paint	⊕ • I Paint			
Eor Help, press E1	1				

Save the repository twice, once as oid_obiee.rpd and once as db_obiee.rpd.

4.1.6 Configure LDAP Authentication and Authorization

Open the oid_obiee.rpd repository file.

Click Manage > Security.

Security Manager			
Action Edit LDAP Help			
Security Groups Caroups ELDAP Servers Custom Authenticators	Name	Full name	Description

Select 'LDAP Servers' from the left hand pane.





Security Manager			_ 🗆 🗙
Action Edit LDAP Help			
Action Edit LDAP Help	Name	Description	

Right-click in the right-hand pane and select 'New LDAP Server...'

LDAP Server - OI	D	_ 🗆 ×
General Advance	ced	
<u>N</u> ame: OID		
<u>H</u> ost name:	vm4.saglab.uk.oracle.com	
Port number:	389	3
<u>B</u> ase DN:	cn=Users,dc=saglab,dc=uk,dc=oracle,dc=com	
Bind <u>D</u> N:	cn=orcladmin	
Bind pa <u>s</u> sword:	*****	
<u>C</u> onfirm passwor	rd:	_
D <u>e</u> scription:		tion
		*
	OK Cancel H	ielp

Enter 'OID' in the Name field.

Enter the correct parameters for the 'Host name', 'Port number', 'Base DN', 'Bind DN', 'Bind password' and 'Confirm password' fields for the LDAP Server.

Click the **'Test connection'** button.





You should see the 'LDAP Server connected successfully'.

Click OK on the Oracle BI Administration Tool dialog box.

Click OK on the LDAP Server – OID dialog box.



Click Action > Close in the Security Manager window.

From the Administration Tool main menu select Manage > Variables.


Variable Manager			
<u>Action Edit H</u> elp			
Repository Initialization Blo. Initializa	Name [?] Current Month [?] PAINT_USER [?] OLTP_USER [?] OLTP_DSN	Description	Default Initializer CURRENT_DATE 'PAINT' 'ORCL' 'UT' 'ORCL'
Sec ∰1 Sec ∭1 Non-Syst			

Click the Session > Initialization Blocks link.

Right-click in the right hand pane and select 'New Initialization Block'.



Session ¥aria	able Initialization Block - Authentica	ntion _ 🗌 🗙
<u>N</u> ame:	Authentication	Disabled
_Data Sourc	e	
No data so	urce setting was made	Edit Data Source
 ⊢Variable Ta	raet	
No variable	target setting was made	
		Edit Data <u>T</u> arget
Execution F	Precedence	
No executio	on precedence setting was made	Edit Execution Precedence
Required	for authentication	
Description		
Te <u>s</u> t,	OK	Cancel Help

Enter 'Authentication' in the Name field.

In the 'Data Source' region press the 'Edit Data Source' button.



Session Variable Initia	ization Block Data Source - Authenticati	on _ 🔤 🗙
Data Source Type:	LDAP	
Name	Domain identifier	<u>N</u> ew
		<u>E</u> dit
		<u> </u>
		Down
		<u>R</u> emove
		Browse
<u>I</u> est	OK	Cancel Help

Select 'LDAP' from the 'Data Source Type' drop down list.

Click the Browse button

Browse	×
Select LDAP Server	
€ ∎oid	
⊻iew	OK Cancel

Select the LDAP Server that was setup previously. Click OK on the Browse dialog box.



Session Variable Init	tialization Block Data Source - Authentication	
Data Source Type:	LDAP	
Name	Domain identifier	<u>N</u> ew
		<u>E</u> dit
		Цр
		Down
		<u>R</u> emove
		Browse
,		
<u>T</u> est	OK Cancel	Help



Session Varia	ble Initialization Block - Authentication	
<u>N</u> ame:	Authentication	Disabled
-Data Source		
		Edit Data Source
Name	Domain identifier	
M OID		
Variable Tar No variable	iget target setting was made	
		Edit Data Target
-Execution P	recedence	
No executio	n precedence setting was made	
	Edit E <u>x</u>	ecution Precedence
	ror authentication	
Description		
Te <u>s</u> t	OK	Cancel Help

In the 'Variable Target' region press the 'Edit Data Target' button.



ssion Variable Initializatio	n Block Variable Target	Authentication	_ □ >
Variable	Default Initializer	LDAP variable	
I			
Up	Down	<u>E</u> dit	
<u>N</u> ew	Link	Remove	
-C Row-wise initialization —			
🔲 Use caching			
	ОК	Cancel I	Help

Click 'New...'

System Session Variable - USER 🛛 🗙
Name: USER
Enable any user to set the value
Security Sensitive
Initialization Block:
Authentication 💌 New
Default Initializer:
Description
OK Cancel <u>H</u> elp



Enter 'USER' in the Name field.

Click OK on the 'System Session Variable' dialog box.

Oracle BI	Administration Tool
♪	USER session variable has a special purpose. Are you sure you want to use this name?
	<u>Y</u> es <u>N</u> o

Click 'Yes'.

Vaviable	Default Initializer	LDAD upviabl	•
USER	Default Initializer	uid	e
•			
▲	Down		ļ
✓ 	<u>D</u> own Link	 <u>E</u> dit	<u>)</u>
↓ Up <u>N</u> ew	<u>D</u> own Link	<u>E</u> dit	<u>)</u>

Enter 'uid' in the LDAP variable field for the 'USER' variable.

Repeat the process for the following variables:

Variable I	Default Initializer	LDAP variable
LOGLEVEL	2	
DISPLAYNAME		cn
EMAIL		mail
GROUP		departmentnumber

Once all the variables have been created you should see the dialog below:



Click OK on the 'Session Variable Initialization Block Variable Target' dialog box.



Session Varia	able Initialization Block - A	Authentication	
<u>N</u> ame:	Authentication		Disabled
_Data Sourc	e		
			Edit Data Source
Name	Domain identifier		
M OID			
-Variable Ta	rget		
Name		Default Initializer	▲
	· ·		
			Edit Data <u>T</u> arget
- Execution F No executio	Precedence	de	
			Edit Execution Precedence
Required	for authentication		
Description			
Te <u>s</u> t		ОК	Cancel Help

Click the **'Required for Authentication'** tick box. This directly affects the behaviour of authentication and the check box *must* be ticked.

Click OK on the 'Session Variable Initialization Block' dialog box.





Click Action > Close in the 'Variable Manager' window.

Click File > Save.

Oracle BI Administration Tool						
Do you wish to check global consistency?						
Yes	No	Cancel				

Click 'Yes'.



Consistency Check Mana	ager		
Messages Options			
Display:	Warnings 🔽 Bes	: Practices	69
Messages:			
Message Type	Object Type	Object	Error D
			Þ
Show Qualified Name	Check <u>A</u> ll Objects	<u>C</u> opy Close	Help
A Global Consistency Check	was performed, 0 Error(s) (0 shown), 0 Warning(s) (0 sho	wn), and 0 Besl

Click Close.

Click File > Close.

4.1.7 Configure Database Authentication and Authorization

Open the db_obiee.rpd file.

Create a new static variable 'SA_USER' with its value set as the name of the SA System schema.

Add the SA System table sa_user_group to the repository by clicking File > Import > from Database...

Select 'OCI 10g/11g' from the 'Connection Type' select list.

Enter 'ORCL' in the 'TNS Name' field.

Enter 'SA' in the 'User Name' field and the password for the 'SA' schema in the 'Password' field.

Click OK.

Click the **'SA'** folder and click Import.

Make the following changes in the **'Connection Pool'** dialog box:



Change the value of the Name field to 'SA System Connection Pool'.

Change the value of the Data source name field to **'VALUEOF(OLTP_DSN)'**.

Change the value of the User name field to 'VALUEOF(SA_USER)'.

Click OK.

Click Close on the Import window once the import process has completed.

In the Physical layer rename 'ORCL' to 'SA System Database'.

In the Administration Tool right-click in the Physical layer and click 'New Database...'

Database - Database	_ 🗆 🗙
General Features Connection Pools Display Folders	
	[
Name: Database	
Data source definition	
Database Oracle 10g R2/11g	•
☐ <u>C</u> RM metadata tables ☐ <u>V</u> irtual Private Database	
Persist connection pool	
not assigned Set Clear	
Allow populate gueries by default	_
Allow direct database requests by default	
Description:	
OK Cancel	Help

In the Name field enter 'Database'

Select 'Oracle 10g R2/11g' from the Database select list.

Click the **'Connection Pools'** tab.



Database - Database				
General Features	Connectio	n Pools Displ	ay Folders	
Name				
	Down	- Xdd	Edit	Berrove
	Pown	<u></u>	<u>Eal</u>	Пешоле
		OK	Cancel	Help

Click the **'Add'** button.



Connection Pool - Database Connection Pool 📃 🔲 🗙
General Connection Scripts XML Write Back
<u>Name:</u> <u>Database Connection Pool</u> <u>Permissions</u>
Call interface: Default (OCI 10g/11g)
Maximum connections: 10 🛖
Require fully qualified table names
Data source name: VALUEOF(DSN)
Shared logon
User name: USER Password: *******
Enable connection pooling
Timeout: 5 (minutes)
Se multithreaded connections
Execute queries asynchronously
Parameters supported
Isolation level: Default
Description:
OK Cancel Help

Enter 'Database Connection Pool' in the 'Name' field.

Enter 'VALUEOF(DSN)' in the 'Data source name' field.

Enter ': USER' in the 'User name' field.

Enter **':PASSWORD'** in the **'Password'** field.

Click OK.

Confirm Password				
Password:	******			
	ОК	Cancel		

Re-enter ': PASSWORD' in the 'Password' field.



Database - Database			
General Features Co	nnection Pools Displa	ay Folders	1
Name			
■\$ Database Connec	tion Pool		
Цр До	wn	<u>E</u> dit	<u>R</u> emove
	ОК	Cancel	Help





Database - Databa	se 👘			_ 🗆 🗙
General Features	Connection F	ools Displa	y Folders	
Name				
Database Cor	nection Pool			
Ţ				
Цр	<u>D</u> own	<u>A</u> dd	<u>E</u> dit	<u>R</u> emove
		OK	Cancel	Help

Double-click the **'Database'** entry in the Physical layer.

Click the 'General' tab.



Database - Database 📃 🗆 🗙
General Features Connection Pools Display Folders
Name: Database
Data source definition
Dgtabase Oracle 10g R2/11g
<u>C</u> RM metadata tables <u>V</u> irtual Private Database
Persist connection pool
not assigned <u>S</u> et
Allow populate gueries by default
Allow direct database requests by default
Description:
×
OK Cancel Help

Click the **'Set...'** button.



Database - Database 📃 🗆 🗙					
General Features Connection Pools Display Folders					
Name: Database					
Data source definition					
Database Oracle 10g R2/11g					
CRM metadata tables 🔲 Virtual Private Database					
Persist connection pool					
Database Connection Pool					
Allow populate gueries by default					
Allow direct database requests by default					
Description:					
OK Cancel Help					

Click OK.



Setup Database Authentication



Click Manage > Variables

Variable Manager					
<u>Action Edit H</u> elp					
Repository Initialization Blocks Initialization Blocks Initialization Blocks Session Initialization Blocks Initializatio Blocks Initializatio Blocks Initializatio	Name C? Current Month C? PAINT_USER C? DSN C? OLTP_USER C? OLTP_DSN C? SA_USER	Description	Default Initializer Ir CURRENT_DATE 'PAINT' 'ORCL' 'UT' 'ORCL' 'SA'		

Click Session > Initialization Blocks



Right-click in the right-hand pane and select 'New Initialization Block...'



Session Varia	ble Initialization Block - Authenti	cation			
<u>N</u> ame:	Authentication				Disabled
_Data Sourc	e				
No data so	- urce setting was made			<u>E</u> dit Data	Source
-Variable Ta	rget				
No variable	target setting was made				Ì
				Edit Data	Target
-Execution F	Precedence				
No executio	on precedence setting was made				
			Edit E <u>×</u>	ecution Prece	edence
Required	for authentication				
Description					
Te <u>s</u> t		OK		Tancel	Help

Enter 'Authentication' in the 'Name' field.

Click the 'Edit Data Source' button.



Session Variable Initi	alization Block D)ata Sourc	e - Authen	tication		
<u>D</u> ata Source Type:	Database		•			
Use database spe	ecific SQL					
	De	efault Initiali	zation String			
SELECT USER FROM	1 DUAL					
I						
<u>Connection Pool:</u>	not assigned					Browse
<u>T</u> est			ОК		Cancel	Help

Select 'Database' from the 'Data Source Type' select list.

Enter the following SQL into the 'Default Initialization String' field:

SELECT USER FROM DUAL

Click the 'Browse...' button.

Select Connection Pool	×
 ∎ →	Name: * Query Iype: Connection Pool ▼ ✓ Query Only Selectable Objects ✓ Show Qualified Names ✓ View Select ✓ View Select
Physical /	Name Image: Second strength of the second strengt ot the second strenge strengt ot the second s

Click the 'Database Connection Pool' name.

Click the 'Select' button.



Session Variable Initia	lization Block Data Source - Auth	entication	_ 🗆 🗡
Data Source Type:	Database		
Use database spe	cific SQL		
	Default Initialization String	3	
SELECT USER FROM	DUAL		× V
Connection Pool:	"Database"."Database Connection R	Pool"	e
Ţest	ОК	Cancel H	lelp



Session Varia	ble Initializa	tion Block - Authen	tication			
<u>N</u> ame:	Authenticatio	n				Disabled
_Data Source	e					
Connection	Pool	"Database"."Database	e Connection F	Pool"	Edit Dat	a Source
Data base:	Oracle 10g R2	/11g (Initialization strin	g inherited fro	om Default))	
SELECT U	5ER FROM DU	AL				
Variable Tai	rget					
No variable	target setting	was made				
					Edit Dat	a <u>T</u> arget
- Execution F	kacadanca					
No executio	n precedence	setting was made				
		2				
				Edit E <u>s</u>	ecution Pre	cedence
🗖 Required	for authentica	tion				
Description						
Te <u>s</u> t			OK		Cancel	Help

Click the 'Edit Data Target' button.



• Variables	ion Block ¥ariable Target - (Authentication 📕 🔲
Variable	Default Initializer	
		4
ýp	Down	<u>E</u> dit,
ப்ச <u>N</u> ew	<u>D</u> own Link	<u>E</u> dit <u>R</u> emove
Up <u>N</u> ew © <u>R</u> ow-wise initialization © Use caching	<u>D</u> own Link	<u>E</u> dit <u>R</u> emove

Click the **'New...'** button.

System Session Variable - USER
Name: USER
Enable any user to set the value
Security Sensitive
Initialization Block:
Authentication
Default Initializer:
-
Description
V
OK Cancel <u>H</u> elp



Enter 'USER' in the 'Name' field.

Click OK.



Click Yes.

USER	Default Initializer		
		1	
	Down	<u>E</u> dit	
<u>Цр</u> [New	own	<u>E</u> dit <u>R</u> emov	/e



Session ¥ariable Initializ	ation Block - Auth	hentication					
Name: Authenticat	ion			Disabled			
Data Source							
\underline{C} onnection Pool	"Database"."Datal	base Connection F	Pool"	Edit Data Source			
Data base: Oracle 10g R2/11g (Initialization string inherited from Default)							
SELECT USER FROM DUAL							
Variable Target							
Name	D	efault Initializer					
S USER							
				Edit Data <u>T</u> arget			
Execution Precedence							
No execution precedence	e setting was made						
			Edit E <u>x</u> e	ecution Precedence			
Required for authentic	ation						
Description							
Te <u>s</u> t		ОК		ancel Help			

Tick the **'Required for authentication'** check box.

Variable Manager



<u>Action Edit H</u> elp				
🖃 🥸 Repository	Name	Initialization string	Data Source	D
Initialization Blocks Initialization Blocks Initialization Initialization Blocks Initialization Blocks Initia	Authentication	SELECT USER FROM DUAL	Database Connection Pool	



Setup Authorization

Right-click in the right-hand pane and select 'New Initialization Block...'

Session Varia	ble Initialization Block - Authoriz	ation			
<u>N</u> ame:	Authorization				<u>D</u> isabled
_Data Sourc	ə				
No data sou	irce setting was made]	<u>E</u> dit Data	Source
- ⊢Variable Tar	get				
No variable	target setting was made				
			[Edit Data	Target
-Execution F	recedence				
No executio	n precedence setting was made				
			Edit E <u>x</u> e	cution Prece	edence
Required	for authentication				
Description					
Te <u>s</u> t		OK		ancel	Help

Enter 'Authorization' in the 'Name' field.

Click the 'Edit Data Source' button in the 'Data Source' region.



Session Variable Initi	alization Block (Data Source - Au	thorization		<u>_ </u>
Data Source Type:	Database	•			
Use database sp	ecific SQL				
	De	efault Initialization 9	ōtring		
SELECT 'GROUP', G					
WHERE LOGON=up	per(':USER')				
					_
<u>C</u> onnection Pool:	not assigned				Browse
<u>T</u> est			эк	Cancel	Help

Select 'Database' from the 'Data Source Type' select list.

Enter the following SQL into the 'Default Initialization String' field:

```
SELECT 'GROUP', GROUP_NAME
FROM "SA_USER_GROUP"
WHERE LOGON=upper(':USER')
```

Click the **'Browse...'** button.

Select Connection Pool	×
Image: Provide state of the state of th	Name: * Query Iype: Connection Pool ✓ ✓ Query Only Selectable Objects ✓ Show Qualified Names ✓ Yiew Select Cancel Help
Physical /	Name Image: State Connection Pool Image: State Connection Pool Image: State Connection Pool Image: Connection Pool Image: Connection Pool Image: Connection Pool Image: Connection Pool

Click the 'SA System Connection Pool' name.

Click Select.



iession Variable Initialization Block Data Source - Authorization 📃 🗖 🗙				
<u>D</u> ata Source Type:	Database	•		
Use database sp	ecific SQL			
	Defa	ult Initialization String		
SELECT 'GROUP', G FROM "SA_USER_G WHERE LOGON=up	ROUP_NAME ROUP" per(':USER')			
•				
<u>C</u> onnection Pool:	SA System Dal	abase"."SA System Co	nnection Pool"	Browse
<u>T</u> est		ОК	Cancel	Help



Session Varia	ble Initializ	ation Block - Authorizatio	n			
<u>N</u> ame:	Authorizatio	n				Disabled
⊢Data Sourc	a					
	Pool	"SA System Database"."SA S	5ystem Co	nnect	<u>E</u> dit Dat	a Source
Data base:	Oracle 10g R	1 (Initialization string inherited	from Defa	ault)		
SELECT 'G FROM "SA	ROUP', GROL _USER_GROL	P_NAME IP"				
	rget					
No variable	target setting	j was made				
					Edit Dat	a <u>T</u> arget
-Execution F	recedence —					
No executio	n precedence	e setting was made				
		-				
			_	Edit E <u>x</u>	ecution Pred	tedence
Required	for authentica	ation				
Description						
Test	1		014		1	1
le <u>s</u> t			OK		Lancel	Help

Click the 'Edit Data Target' button in the 'Variable Target' region.



ssion Variable Initializati	on Block Variable Target - A	uthorization 📃 🗖 >
Variable	Default Initializer	
j Up	Down	<u>E</u> dit,
<u>N</u> ew	Link	<u>R</u> emove
 <u>R</u>ow-wise initialization Use caching 	JJ	
	ОК	Cancel Help

Select the **'Row-wise Initialization'** radio button and tick the **'Use caching'** check box.



Session Varia	able Initializa	ation Block - Authoriz	ation			_ 🗆 ×
<u>N</u> ame:	Authorization	1				<u>D</u> isabled
—Data Sourc	a					
	Pool	"SA System Database".	"SA System	Connect	<u>E</u> dit Data :	Source
Data base:	Oracle 10g R1	(Initialization string inhe	rited from De	efault)		
SELECT 'G FROM "SA	ROUP', GROU USER_GROU	P_NAME P"				
_ Variable Ta	rget					
Row-wise i	nitialization					
				[Edit Data	Target
-Execution F	Precedence					
No executio	on precedence	setting was made				
				Edit Exe	ecution Prece	dence
🔲 Required	for authentica	tion				
Description						
Te <u>s</u> t			ОК		ancel	Help

Click the **'Edit Execution Precedence...'** button in the **'Execution Precedence'** region.



S	Session Variable Initialization Block Execution Precedence - Authoriza 💻 🗖 🗙					
	The following initialization blocks will execute before this one:					
	Name	Description				
		<u>A</u> dd	Remove			
		OK Cancel	Help			

Select the 'Add...' button.

Browse		×
Select Object		
Authentication		
<u>⊻</u> iew	ОК	Cancel

Select 'Authentication' and click OK.



Session Variable Initialization Block Execution Precedence - Authoriza			
s berore this one.			
<u>A</u> dd	<u>R</u> emove		
OK Cancel	Help		
	OK Cancel		



Session Variable Initia	alization Block - Authorization	
Name: Authoriz	ation	Disabled
Data Source		
\underline{C} onnection Pool	"SA System Database"."SA System Connect	Edit Data Source
Data base: Oracle 10	g R1 (Initialization string inherited from Default)	
SELECT 'GROUP', GF FROM "SA_USER_G	ROUP_NAME ROUP"	
Variable Target		
Row-wise initialization	1	
		Edit Data Larget
Execution Precedence	9	
Name	Initialization string	Data Source
🗃 Authentication	SELECT USER FROM DUAL	Database Connection Po
•		
	Edit E	xecution Precedence
Required for auther	ntication	
Description		
Te <u>s</u> t	ОК	Cancel Help

Do <u>NOT</u> check the **'Required for authentication'** check box.


¥ariable Manager		
<u>Action Edit H</u> elp		
📮 🔇 Repository	Name	Initialization string
 repository Initialization Blocks ?1 Variables ?1 Static Session Initialization Blocks ?1 Variables ?1 Variables ?1 System ?1 Security ?1 Security ?1 Non-System 	Name Authentication	SELECT USER FROM DUAL SELECT 'GROUP', GROUP_NAME FROM ''SA_USER_GROUF
	•	

Close the Variable Manager and save the repository.

4.1.8 Disable LDAP Caching

Oracle BI Administration Tool - oid_obiee.rpd _ □ × File Edit View Manage Tools Window Help				
D 🖻 📽 🕼 🔚 X 🖻 🛍 🗷 I	S S I I			
Presentation	Business Model and Mapping	Physical		
I ⊕ Paint I ⊕ I Paint Exec	⊞	⊞10 Paint ⊕10 Usage Tracking		
For Help, press F1	<u> </u>			

Click Tools > Options and click on the **'Repository'** tab.



Options				×
Cache Manag	er	Multiuser	1	More
General	Repo	sitory	Sort	Objects
⊡ Show tables ar ⊡ Hide level base	nd dimension ed measure	s only under (display fo	Iders
Cache <u>r</u> efresh in	iterval:	1 (c	lays)	-
<u>N</u> umber of cach	e entries:	1000		
Key file name:				
Password:				
Confirm password:				
	OK	Can	cel	Help

Change the value in the 'Number of cache entries' field to '0'.

Click OK.



4.1.9 Disable Table Caching

File Edit View Manage Tools Window Help Presentation Paint Paint Paint Exec Paint Age Fact P
Presentation Pusical Paint Paint Paint Exec Paint Connection Pool Paint Connection Pool Paint Paint Connection Pool Paint Connection Pool
Presentation Business Model and Mapping Physical Paint Exec Paint Exec Paint Connection Pool Paint Usage Tracking Paint Connection Pool Paint Paint Exec Paint Connection Pool Paint Connection Pool
Image: Sector of the sector
Image: SA Image: SAUSER_GROUP Image: SUSER_GROUP Image: SUSER_GROUP <t< td=""></t<>

In the Physical layer pane expand the **'Paint'**, **'SA System Database'** and **'Usage Tracking'** databases so that they appear as shown above.

NOTE: 'SA System Database' will only appear in the db_obiee.rpd file.

Right-click the 'FACT' table and click 'Properties'.



Physical Table - FACT 📃 🗆 🗙
General Columns Keys Foreign Keys
Name: FACT
Iable Type: Physical Table
Use Dynamic Name
Browse
Cache never expires
C Cache persistence time
Hint:
Description:
OK Cancel Help

Uncheck the 'Cacheable' tick box.

Click OK.

Repeat the process for the following tables:

- FORECAST
- MARKET
- PERIOD
- PRODUCT
- SA_USER_GROUP
- NQ_LOGIN_GROUP
- S_ETL_DAY
- S_ETL_TIME_DAY
- S_NQ_ACCT

Save the repository and close it.



4.1.10 Repository Specification

The db_obiee.rpd and oid_obiee.rpd repository files should be copied from the C:\oracle\product\OBIEE\server\Repository directory on the Windows XP machine (machine 6) to the /space/oracle/product/OBIEE/server/Repository directory on machines 1 and 2.

The repository to be used is specified in the NQSConfig.INI file located in the /space/oracle/product/OBIEE/server/Config directory

Open the NQSCONFIG.INI file where the BI Server has been deployed (machines 1 and 2) and add the following entries to the [REPOSITORY] section:

```
#Star = oid_obiee.rpd, DEFAULT;
#Star = db_obiee.rpd, DEFAULT;
```

If OID authentication and authorization is to be used uncomment the first line.

If DB authentication and authorization is to be used uncomment the second line.

4.2 Usage Tracking Configuration

Usage Tracking is enabled by modifying parameters in the NQSConfig.INI file located in the following directory:

/space/oracle/product/OBIEE/server/Config

Open the NQSConfig.INI file and make the following changes on all machines in the cluster (machines 1 and 2):

In the [USAGE_TRACKING] section:

```
ENABLE = YES;
DIRECT_INSERT = YES;
PHYSICAL_TABLE_NAME = "Usage Tracking"."UT"."S_NQ_ACCT";
CONNECTION_POOL = "Usage Tracking"."Usage Tracking Connection
Pool";
```



4.3 Cluster Configuration

This section describes the actions required to setup Oracle Business Intelligence Enterprise Edition in a cluster configuration.

4.3.1 Network Share Configuration

In the evaluated configuration of the TOE, BI components deployed in a clustered environment must have access to shared resources for the Presentation Catalog and Repository. NFS will be used to provide this functionality. On the NFS server (machine 7), as the oracle user, create directories for the repository and presentation catalog:

```
cd /space/oracle/oradata/OBIEE
mkdir -p share/catalog
mkdir -p share/repository
mkdir -p share/logs
```

As the root user, add the following entries to the /etc/exports file:

```
/space/oracle/oradata/OBIEE/share/repository
vml(rw,no_root_squash) vm2(ro,no_root_squash)
/space/oracle/oradata/OBIEE/share/catalog
vm1(rw,no_root_squash) vm2(rw,no_root_squash)
/space/oracle/oradata/OBIEE/share/logs
vm1(rw,no_root_squash) vm2(rw,no_root_squash)
```

As the root user, add the following entries to the /etc/sysconfig/nfs file:

```
MOUNTD_PORT=2050
RQUOTAD_PORT=2051
LOCKD_UDPPORT=2052
LOCKD_TCPPORT=2052
```

Start the portmap and nfs services and enable them to start after a reboot:

```
/etc/init.d/portmap start
/etc/init.d/nfs start
/sbin/chkconfig --level 3 portmap on
/sbin/chkconfig --level 3 nfs on
```

As the root user, add the following lines to the /etc/fstab file on machines 1 and 2:



```
vm7:/space/oracle/oradata/OBIEE/share/catalog
/space/oracle/oradata/OBIEE/share/catalog nfs
proto=udp,hard,intr,nfsvers=3,actimeo=1 0 0
vm7:/space/oracle/oradata/OBIEE/share/repository nfs
proto=udp,hard,intr,nfsvers=3,actimeo=1 0 0
vm7:/space/oracle/oradata/OBIEE/share/logs
/space/oracle/oradata/OBIEE/share/logs nfs
proto=udp,hard,intr,nfsvers=3,actimeo=1 0 0
```

As the oracle user, create the corresponding directories on machines 1 and 2:

```
cd /space/oracle/oradata/OBIEE
mkdir -p share/catalog
mkdir -p share/repository
mkdir -p share/logs
```

As the root user, start the portmap and netfs services and enable them to start after a reboot:

```
/etc/init.d/portmap start
/etc/init.d/netfs start
/sbin/chkconfig --level 3 portmap on
/sbin/chkconfig --level 3 netfs on
```

4.3.2 Cluster Controller Configuration

Configuring the Oracle BI Cluster Controller to communicate in a clustered environment consists of modifying parameters in the NQClusterConfig.INI file located in the following directory:

```
/space/oracle/product/OBIEE/server/Config
```

Open the NQClusterConfig.INI file where the BI Cluster Controller has been deployed (machines 1 and 2) and make the following changes:

```
ENABLE_CONTROLLER = YES;
PRIMARY_CONTROLLER = vml.saglab.uk.oracle.com;
SECONDARY_CONTROLLER = vm2.saglab.uk.oracle.com;
SERVERS = "vml.saglab.uk.oracle.com", "vm2.saglab.uk.oracle.com";
MASTER_SERVER = "vml.saglab.uk.oracle.com";
```



4.3.3 Server Configuration

Configuring the Oracle BI Server to communicate in a clustered environment consists of modifying parameters in the NQSConfig.INI file located in the following directory:

/space/oracle/product/OBIEE/server/Config

Open the NQSCONFig.INI file where the BI Server has been deployed (machines 1 and 2) and make the following changes:

In the [Cache] section:

ENABLE = NO;

In the [Server] section:

```
#SERVER_HOSTNAME_OR_IP_ADDRESSES = "ALLNICS";
CLUSTER_PARTICIPANT = YES;
REPOSITORY_PUBLISHING_DIRECTORY
"/space/oracle/oradata/OBIEE/share/repository";
REQUIRE_PUBLISHING_DIRECTORY = YES;
```

4.3.4 Presentation Services Configuration

Configuring the Oracle BI Presentation Services to communicate in a clustered environment consists of modifying parameters in the instanceconfig.xml file located in the following directory:

/space/oracle/oradata/OBIEE/web/config

Open the instanceconfig.xml file where BI Presentation Services has been deployed (machines 1 and 2) and make the following changes:

Modify the <CatalogPath> element to point to the shared Presentation Catalog:

```
<CatalogPath>/space/oracle/oradata/OBIEE/share/catalog/paint</C atalogPath>
```

=



Copy the paint catalog from /space/oracle/oradata/OBIEE/web/catalog on machine 1 to /space/oracle/oradata/OBIEE/share/catalog on machine 7.

Add the following after the <CatalogPath> tag:

```
<Catalog>
        <AccountIndexRefreshSecs>120</AccountIndexRefreshSecs>
        <AccountCacheTimeoutSecs>180</AccountCacheTimeoutSecs>
        <CacheTimeoutSecs>1</CacheTimeoutSecs>
        <CacheCleanupSecs>600</CacheCleanupSecs>
        <PrivilegeCacheTimeoutSecs>180</PrivilegeCacheTimeoutSecs>
</Catalog>
```

4.3.5 Presentation Services Plug-In Configuration

The process of configuring the Oracle BI Presentation Services Plug-In to communicate in a clustered environment consists of modifying parameters in the web.xml file. This file is located in the following directory:

```
/space/oracle/product/10gAS/10g_J2EE/j2ee/home/applications/ana
lytics/analytics/WEB-INF
```

Open the web.xml file where BI Presentation Services Plug-In has been deployed (machine 5) and replace the existing entries:

With:

4.3.6 BI ODBC Data Source Configuration (Linux)

On a Linux environment the process of configuring the Oracle BI ODBC Data Source to communicate in a clustered environment consists of modifying parameters in the odbc.ini file. This file is located in the following directory:

/space/oracle/product/OBIEE/setup

Open the odbc.ini file where the BI ODBC Data Source has been deployed (machines 1 and 2) and make the following changes to the [Cluster] section:

```
IsClusteredDSN=Yes
PrimaryCCS=vml.saglab.uk.oracle.com
PrimaryCCSPort=9706
SecondaryCCS=vm2.saglab.uk.oracle.com
SecondaryCCSPort=9706
Regional=No
```

4.3.7 BI ODBC Data Source Configuration (Windows)

On a Windows environment the process of configuring the Oracle BI ODBC Data Source to communicate in a clustered environment consists of creating new ODBC Data Source.

Perform this configuration on all machines where the BI ODBC Data Source has been deployed on a Windows environment (machine 6). Navigate to Start > Settings > Control Panel > Administrative Tools > Data Sources (ODBC)



📢 ODBC Data Source Administrator	<u>? ×</u>
User DSN System DSN File DSN Drivers Tracing Connection Po	ooling About
<u>U</u> ser Data Sources:	
Name Driver	A <u>d</u> d
	Remove
	Coofigure
	goningure
An ODBC User data source stores information about how to c the indicated data provider. A User data source is only visibl and can only be used on the current machine.	connect to le to you,
OK Cancel Apply	Help

Click the 'System DSN' tab

💞 ODBC Data Source Adn	ninistrator		<u>? ×</u>
User DSN System DSN	File DSN Drivers 1	Tracing Connect	ion Pooling About
<u>S</u> ystem Data Sources:			
Name Driver AnalyticsWeb Oracle BI	Server		A <u>d</u> d <u>R</u> emove
			<u>C</u> onfigure
An ODBC Syst the indicated o on this machin	em data source store lata provider. A Syst e, including NT servic	s information abou em data source is ces.	t how to connect to visible to all users
	OK Ca	ncel App	Help

Click the 'Add...' button.



Create New Data Source		×
	Select a driver for which you want to set up a data source. Name V Microsoft ODBC for Oracle 2. Microsoft Paradox Driver (*.db.) 4. Microsoft Paradox-Treiber (*.db.) 4. Microsoft Text Driver (*.txt; *.csv) 4. Microsoft Text-Treiber (*.txt; *.csv) 4. Microsoft Visual FoxPro Driver 1. Microsoft Visual FoxPro Driver 1. Oracle BI Server 2. Image: Server 2.	
	< Back Finish Cancel	

Scroll to the bottom and select 'Oracle BI Server'.

Click Finish.

Oracle BI Server DSN C	onfiguration		<u>? ×</u>
	This wizard will help you create connect to Oracle BI Server. Na <u>m</u> e: vm1.saglab.	e an ODBC data source that you can us uk.oracle.com	e to
	Description:		
	☑ <u>C</u> lustered DSN	<u> </u>	
	Primary Controller:	vm1.saglab.uk.oracle.com]
ORACLE	Secondary Controller:	vm2.saglab.uk.oracle.com]
	Controller P <u>o</u> rt:	9706	
	<u>S</u> erver:	·]
	🗖 Use SSL	Configure SSL]
	< <u>B</u> ack <u>N</u> e	xxt > Cancel Help	

Enter a name for the data source.

Tick the 'Clustered DSN' check box



Enter the FQDN for the primary & secondary cluster controllers.

Accept the default entry for the 'Controller Port'.

Click Next.

Oracle BI Server DSN C	onfiguration	? ×
ORACLE	Please enter Oracle BI Server login ID and password (Leave both blank for OS authentication.) Login ID: Administrator Password: Save login ID Pgrt: 9703 Change the default repository to Change the default repository to Connect to Oracle BI Server to obtain default settings for the additional configuration options.	
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

Click Next.



Oracle BI Server DSN C	onfiguration	? ×
	Change the default catalog to Change your Oracle BI Server password: Password:	_
ORACLE	Use Regional Settings when outputting dates and times Database Login ID Image: Imag	
	Edit < <u>B</u> ack Finish Cancel H	lelp

Click Finish.

🚷 ODBC Data So	urce Administrator	<u>? ×</u>		
User DSN Syste	em DSN File DSN Drivers Tracing Connection	Pooling About		
<u>S</u> ystem Data So	ources:			
Name	Driver	A <u>d</u> d		
AnalyticsWeb vm1.saglab.uk	Oracle BI Server .oracle.com Oracle BI Server	<u>R</u> emove		
		<u>C</u> onfigure		
An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.				
	OK Cancel Apply	Help		

Click OK. The BI ODBC DSN has been created.



4.4 SSL Configuration

This section describes the steps required to configure SSL for Oracle Business Intelligence Enterprise Edition.

NOTE: The SSL configuration below describes how to create a Certificate Authority (CA) certificate used to sign certificates. This is included for the sake of completion and should not be used in a commercial environment. Certificates should be submitted for signing to Certificate Authorities such as VeriSign or Thawte.

NOTE: If a private CA is required, signing with the CA private key should always be performed in an offline environment to maintain the security of the key and thus the TOE.

4.4.1 Create Directory Structure

On the master server (machine 1) issue the following commands:

```
cd /space/oracle/product/OBIEE/server/Config
mkdir -p ssl/demoCA
mkdir -p ssl/private
mkdir -p ssl/newcerts
cp ../../web/bin/openssl* ssl/
touch ssl/demoCA/.oid
touch ssl/index.txt
touch ssl/serial
cd ssl/
```

Edit the serial file and input the number '01'.

4.4.2 Create Certificate Authority (CA) Certificate

Create a CA certificate by issuing the following command:

./openssl req -new -x509 -newkey rsa:2048 -keyout
private/cakey.pem -out cacert.pem -config openssl.cnf -days 365

The command will output the following:

```
Generating a 2048 bit RSA private key
..+++
writing new private key to 'private/cakey.pem'
Enter PEM pass phrase: *****
Verifying - Enter PEM pass phrase: *****
```



You are about to be asked to enter information that will be incorporated into your certificate request. What you are about to enter is what is called a Distinguished Name or a DN. There are quite a few fields but you can leave some blank For some fields there will be a default value, If you enter '.', the field will be left blank. -----Country Name (2 letter code) [AU]: GB State or Province Name (full name) [Some-State]: Berkshire Locality Name (eg, city) []: Reading Organization Name (eg, company) [Some-Organization Pty Ltd]: Oracle Organizational Unit Name (eg, section) []: BI Common Name (eg, YOUR name) []: CA Email Address []:

Make a note of the passphrase entered as it will be required when signing new requests.

The command generates a Certificate Authority (CA) certificate named cacert.pem. This certificate verifies the certificates signed by the private key. The validity period for the CA certificate generated is 365 days.

The cakey.pem file stores the private key and is generated in the ssl/private directory. This key is used to sign certificate requests.

4.4.3 Generate Server Certificate and Server Private Key

The following procedures generate the server certificate and server private key that BI components acting as servers must possess. The server certificate and private key will be used by the Oracle BI Cluster Controller, Oracle BI Server, and Oracle BI Presentation Services components.

Issue the following command:

./openssl req -new -newkey rsa:2048 -keyout server-key.pem -out server-req.pem -config openssl.cnf -days 365



You are about to be asked to enter information that will be incorporated into your certificate request. What you are about to enter is what is called a Distinguished Name or a DN. There are quite a few fields but you can leave some blank For some fields there will be a default value, If you enter '.', the field will be left blank. Country Name (2 letter code) [AU]: GB State or Province Name (full name) [Some-State]: Berkshire Locality Name (eg, city) []: Reading Organization Name (eg, company) [Some-Organization Pty Ltd]: Oracle Organizational Unit Name (eg, section) []: BI Common Name (eg, YOUR name) []: Server Email Address []: Please enter the following 'extra' attributes to be sent with your certificate request A challenge password []: An optional company name []:

Make a note of the passphrase entered as it will be needed to decrypt the private key.

The command generates the server private key file server-key.pem and the certificate request server-req.pem.

4.4.4 Create the Server Certificate

Issue the following command to sign the certificate request:

```
./openssl ca -policy policy_anything -out server-cert.pem - config openssl.cnf -infiles server-req.pem
```

```
Using configuration from openssl.cnf
Enter pass phrase for ./private/cakey.pem:
Check that the request matches the signature
Signature ok
The Subject's Distinguished Name is as follows
countryName :PRINTABLE:'GB'
stateOrProvinceName :PRINTABLE:'Berkshire'
localityName :PRINTABLE:'Reading'
organizationName :PRINTABLE:'Oracle'
organizationalUnitName :PRINTABLE:'Business Intelligence'
commonName :PRINTABLE:'Server Certificate'
Certificate is to be certified until Jul 1 08:24:33 2009 GMT
(365 days)
Sign the certificate? [y/n]:y
```



```
1 out of 1 certificate requests certified, commit? [y/n]y
Write out database with 1 new entries
Data Base Updated
```

When prompted, enter the passphrase for the private key of the CA. This is the passphrase that was supplied when creating the private key cakey.pem in section 4.4.2 "Create Certificate Authority (CA) Certificate".

4.4.5 Generate Client Certificate and Client Private Key

The following procedures generate the client certificate and client private key that BI components acting as clients must possess. The client certificate and private key will be used by the Oracle BI Administration Tool.

Issue the following command:

```
./openssl req -new -newkey rsa:2048 -keyout client-key.pem -out client-req.pem -config openssl.cnf -days 365
```

```
Generating a 2048 bit RSA private key
.....+++
writing new private key to 'client-key.pem'
Enter PEM pass phrase:
Verifying - Enter PEM pass phrase:
You are about to be asked to enter information that will be
incorporated into your certificate request.
What you are about to enter is what is called a Distinguished
Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]: GB
State or Province Name (full name) [Some-State]: Berkshire
Locality Name (eg, city) []: Reading
Organization Name (eg, company) [Some-Organization Pty Ltd]:
Oracle
Organizational Unit Name (eg, section) []: BI
Common Name (eg, YOUR name) []: Client
Email Address []:
Please enter the following 'extra' attributes to be sent with
your certificate request
A challenge password []:
```



An optional company name []:

Make a note of the passphrase entered as it will be needed to decrypt the private key.

The command generates the client private key file client-key.pem and the certificate request (unsigned client certificate) client-req.pem.

4.4.6 Create the Client Certificate

Issue the following command to sign the certificate request:

```
./openssl ca -policy policy_anything -out client-cert.pem - config openssl.cnf -infiles client-req.pem
```

The command generates the following dialog:

```
Using configuration from openssl.cnf
Enter pass phrase for ./private/cakey.pem:
Check that the request matches the signature
Signature ok
The Subject's Distinguished Name is as follows
countryName :PRINTABLE:'GB'
stateOrProvinceName :PRINTABLE:'Berkshire'
localityName :PRINTABLE:'Berkshire'
organizationName :PRINTABLE:'Cracle'
organizationalUnitName :PRINTABLE:'Oracle'
commonName :PRINTABLE:'Client Certificate'
Certificate is to be certified until Jul 1 08:33:03 2009 GMT
(365 days)
Sign the certificate? [y/n]:y
1 out of 1 certificate requests certified, commit? [y/n]y
Write out database with 1 new entries
Data Base Updated
```

This command generates the signed client certificate client-cert.pem.

4.4.7 Create Passphrase Files

Under the ssl directory, create a passphrase file called serverpwd.txt. In this file, input the passphrase used to encrypt the server private key.

Under the ssl directory, create a passphrase file called clientpwd.txt. In this file, input the passphrase used to encrypt the client private key.



Copy the files cacert.pem, server-cert.pem, server-key.pem and serverpwd.txt to the /space/oracle/product/OBIEE/server/Config directory on machines 1 and 2.

Copy the files cacert.pem, client-cert.pem, client-key.pem and clientpwd.txt to the C:\oracle\product\OBIEE\server\Config directory on machine 6.

4.4.8 Create Java Keystore and Generate Certificate

For BI components that are Java-based, a Java certificate store must be created that contains certificates and key files.

This procedure creates a Java Keystore that will store the certificate and private key used by the Oracle BI Presentation Services Plug-in (Java Servlet) and Oracle BI Javahost components.

The keystore is generated and managed using the keytool command-line executable that ships with JDK. The keytool command-line executable to be used is located in the Oracle Application Server home jdk/bin directory.

In the terminal being used issue the following commands:

```
export ORACLE_HOME=/space/oracle/product/10gAS/10g_J2EE
export PATH=$ORACLE_HOME/jdk/bin:$PATH
```

Generate Private Key

To generate the private key, use the genkey subcommand of the keytool command with inputs as shown:

```
keytool -genkey -v -alias javahostkey -keyalg rsa -keysize 2048
-validity 365 -keystore javahost.keystore -storepass oracle
```

```
What is your first and last name?
 [Unknown]: Javahost
What is the name of your organization unit?
 [Unknown]: BI
What is the name of your organization?
 [Unknown]: Oracle
What is the name of your City or Locality?
 [Unknown]: Reading
What is the name of your State or Province?
 [Unknown]: Berkshire
What is the two-letter country code for this unit?
```



```
[Unknown]: GB
Is CN=Server Certificate, OU=BI, O=Oracle, L=Reading,
ST=Berkshire, C=GB correct?
[no]: YES
Generating 2,048 bit rsa key pair and self-signed certificate
(MD5withRSA)
for: CN=Javahost, OU=BI, O=Oracle, L=Reading,
ST=Berkshire, C=GB
Enter key password for <javahostkey>
(RETURN if same as keystore password):
[Storing javahost.keystore]
```

In this example, the keystore called javahost.keystore stores the private key with an alias of javahostkey and with a password of analytics.

The alias and password values are referenced when setting SSL-related parameters for the Oracle BI Presentation Service Plug-in component.

Generate the Certificate Request

To generate the certificate, use the certreq subcommand of the keytool command with the inputs as shown:

```
keytool -certreq -v -alias javahostkey -file javahost-req.pem - keystore javahost.keystore -storepass oracle
```

The command generates the following output:

```
Certification request stored in file <javahost-req.pem>
Submit this to your CA
```

The certificate request must be signed by a CA, as shown in the following procedure.

Sign the Client Certificate

Issue the following command to sign the certificate request:

```
./openssl ca -policy policy_anything -out javahost-cert.pem - config openssl.cnf -infiles javahost-req.pem
```

```
Using configuration from openssl.cnf
```



```
Enter pass phrase for ./private/cakey.pem:
Check that the request matches the signature
Signature ok
The Subject's Distinguished Name is as follows
                :PRINTABLE: 'GB'
countryName
stateOrProvinceName :PRINTABLE:'Berkshire'
localityName :PRINTABLE:'Reading'
organizationName :PRINTABLE:'Oracle'
organizationalUnitName :PRINTABLE:'BI'
                            :PRINTABLE: 'Javahost'
commonName
Certificate is to be certified until Jul 1 09:05:57 2009 GMT
(365 days)
Sign the certificate? [y/n]:y
1 out of 1 certificate requests certified, commit? [y/n]y
Write out database with 1 new entries
Data Base Updated
```

This command will create a certificate called javahost-cert.pem.

Convert to X509 File

Copy the javahost-cert.pem file to javahost-cert-x509.pem. Open the javahost-cert-x509.pem file and remove all lines that appear before the text:

```
---BEGIN CERTIFICATE----
```

The certificate file should be similar to the following example:

```
--BEGIN CERTIFICATE----
MIICcjCCAdugAwIBAgIBEjANBgkqhkiG9w0BAQQFADBkMQswCQYDVQQGEwJVUzEL
MAkGA1UECBMCQ0ExEjAQBgNVBAcTCVNhbiBNYXR1bzEPMA0GA1UEChMGU211YmVs
MRIwEAYDVQQLEwlBbmFseXRpY3MxDzANBgNVBAMTBkNBQ2VydDAeFw0wNjAzMDYx
{\tt OTU2NTFaFw0wNzAzMDYxOTU2NTFaMGcxCzAJBgNVBAYTA1VTMQswCQYDVQQIEwJD}
{\tt QTESMBAGA1UEBxMJU2FuIE1hdGVvMQ8wDQYDVQQKEwZTaWViZWwxEjAQBgNVBAsT}
CUFuYWx5dGljczESMBAGA1UEAxMJSm9iTWFuZ2VyMIGfMA0GCSqGSIb3DQEBAQUA
A4GNADCBiQKBgQDBIR0ATYE6UtEL4W/bQ1xPIHsT7S5EcmfpezZQCeumBSg00/5U
nIYFfPHBjcjgJKChVG+DSZRxPJOAifLeKTb6pk3lHoJJ9Gr/HuryYOc46Efd/q0+
cXMQ+fPC+0M/0caohryfSAjcW+00IwycHjbmj4VXc4L4OTgRHIQv0oVRkQIDAQAB
oz \verb"EwLzAtBglghkgBhvhCAQ0EIBYeR2VuZXJhdGVkIHdpdGggUlNBIEJTQUZFIFNT"
TC1DMA0GCSqGSIb3DQEBBAUAA4GBAC81Hi77GChZYyiYXTNIN0oEVS4CiKpAMUg9
55QMaQU/RsdWYe8ne34EpXDWY6LVdBi8nxL411/VLckM2Gbn72LZx5KelzPuzgwy
qC8Z4HGOvjAzYHA8AQhRHaFSYWZoUkbay/6/8bYofJJarkjD68rdz1i0m9L3/sWM
MmEQmHNo
----END CERTIFICATE----
```

Import the Certificate Authority File to Java Keystore



The Certificate Authority (CA) certificate that was used to sign the certificate request as described in the topic "Generating the Certificate" on page 91 must be imported to a Java keystore. Use the keytool utility as shown in the following procedure.

Issue the following command to import the CA certificate to the Java keystore:

keytool -import -keystore javahost.keystore -storepass oracle alias cacertificates -file cacert.pem

The command generates the following dialog:

```
Owner: CN=CA, OU=BI, O=Oracle, L=Reading, ST=Berkshire, C=GB
Issuer: CN=CA, OU=BI, O=Oracle, L=Reading, ST=Berkshire, C=GB
Serial number: d72b86888f4f7028
Valid from: Tue Jul 01 09:08:26 BST 2008 until: Wed Jul 01 09:08:26 BST
2009
Certificate fingerprints:
    MD5: 35:75:43:5F:A5:00:3A:18:F8:AB:0D:2B:F2:0C:C0:22
    SHA1: 08:1C:6A:62:BD:A9:36:2E:B6:12:76:D3:FB:AE:71:9B:2B:83:6A:C2
Trust this certification? [no]: YES
Certificate was added to keystore
```

Import the Certificate to the Java Keystore

The certificate javahost-cert-x509.pem, created above, must be imported to the Java keystore.

Issue the following command to import the certificate:

```
keytool -import -keystore javahost.keystore -storepass oracle - alias javahostkey -file javahost-cert-x509.pem
```

The command generates the following output:

Certificate reply was installed in keystore

Copy the javahost.keystore file to the /space/oracle/product/OBIEE/server/Config directory on machine 5.



4.4.9 Oracle Wallets

The Oracle HTTP Server, Database Server, OID Server and Client use the certificate stored within a wallet to communicate over SSL. The orapki utility is used to create the wallet and is located in the <code>\$ORACLE_HOME/bin</code> directory.

On machine 1, open a new terminal window and issue the following commands to create the wallets:

```
export ORACLE_HOME=/space/oracle/product/10.2.0/client
export PATH=$ORACLE_HOME/bin:$PATH
```

Create the Oracle Wallet:

orapki wallet create -wallet vm1 -auto_login

Enter a password for the wallet when prompted.

Add a Certificate Request to the Wallet:

```
orapki wallet add -wallet vml -dn "CN=vml.saglab.uk.oracle.com, OU=BI, O=Oracle, L=Reading, ST=Berkshire, C=GB" -keysize 2048 - validity 365
```

Enter the wallet password when prompted.

Export the Certificate Request from the Oracle Wallet:

```
orapki wallet export -wallet vml -dn
"CN=vml.saglab.uk.oracle.com, OU=BI, O=Oracle, L=Reading,
ST=Berkshire, C=GB" -request vml-req.pem
```

Sign the Certificate Request:

```
./openssl ca -policy policy_anything -out vml-cert.pem -config openssl.cnf -infiles vml-req.pem
```

Add the CA Certificate to the Oracle Wallet:

orapki wallet add -wallet vm1 -trusted_cert -cert cacert.pem



Enter the wallet password when prompted.

Add the Signed Certificate Request to the Oracle Wallet:

orapki wallet add -wallet vml -user_cert -cert vml-cert.pem

Enter the wallet password when prompted.

View the Contents of the Oracle Wallet:

orapki wallet display -wallet vml

Repeat this process creating wallets for machines 2 to 6, adjusting the wallet name (specified after the -wallet option) and the CN and then copy the wallets to the respective machines. This process should be repeated for the components that require a wallet – the Oracle Database Server (machine 3), Oracle OID Server (machine 4), Oracle HTTP Server (machine 5), and Oracle Clients (machines 1, 2 and 6).

4.4.10 Create CMS Key Database File

On the Windows XP client machine (machine 6) open a command prompt and issue the following commands:

```
cd \
cd Program Files\IBM\gsk7\bin
```

Create the CMS Key Database File:

```
gsk7cmd -keydb -create -db key.kdb -pw oracle -type cms -expire 365
```

Add a Certificate Request to the CMS Key Database File:

gsk7cmd -certreq -create -db key.kdb -pw oracle -label "LDAP Client" -dn
"CN=vm6.saglab.uk.oracle.com,OU=BI,O=Oracle,L=Reading,ST=Berkshire,C=GB" size 1024 -file ldap-client-req.pem

The ldap-client-req.pem certificate request file should be copied to the /space/oracle/product/OBIEE/server/Config/ssl directory on machine



1 so that the request can be signed using the command below. The request must be signed from machine 1.

Sign the Certificate Request:

```
./openssl ca -policy policy_anything -out ldap-client-cert.pem
-config openssl.cnf -infiles ldap-client-req.pem
```

Once the certificate request has been signed copy the ldap-client-cert.pem and cacert.pem files to the C:\Progam Files\IBM\gsk7\bin directory on machine 6.

Add the CA Certificate to the CMS Key Database File:

```
gsk7cmd -cert -add -db key.kdb -pw oracle -label "CA
Certificate" -format binary -trust enable -file cacert.pem
```

Add the Signed Certificate Request to the CMS Key Database File:

gsk7cmd -cert -receive -file ldap-client-cert.pem -db key.kdb - pw oracle -format binary -default_cert yes

Note: The ldap-client-cert.pem must be in X509 format.

After creating the CMS key database file, store it in the BI Server configuration directory C:\oracle\product\OBIEE\server\Config.

Repeat the process above to create CMS Key Database Files for machines 1 and 2, storing the key.kdb in the BI Server configuration directory /space/oracle/product/OBIEE/server/Config.

4.4.11 Configure Oracle BI Cluster Controller

Configuring the Oracle BI Cluster Controller to communicate over SSL consists of modifying parameters in the NQClusterConfig.INI file located in the following directory:

/space/oracle/product/OBIEE/server/Config

Open the NQClusterConfig.INI file where the BI Cluster Controller has been deployed (machines 1 and 2) and make the following changes:



```
SSL=YES;
SSL_CERTIFICATE_FILE="server-cert.pem";
SSL_PRIVATE_KEY_FILE="server-key.pem";
SSL_PK_PASSPHRASE_FILE="serverpwd.txt";
SSL_VERIFY_PEER=YES;
SSL_CA_CERTIFICATE_FILE="cacert.pem";
SSL_TRUSTED_PEER_DNS="C=GB/ST=Berkshire/L=Reading/O=Oracle/OU=B
I";
SSL_CERT_VERIFICATION_DEPTH=1;
SSL_CIPHER_LIST="DES-CBC3-SHA";
```

4.4.12 Configure Oracle BI Server

Configuring the Oracle BI Server to communicate over SSL consists of modifying parameters in the NQSConfig.INI file located in the following directory:

/space/oracle/product/OBIEE/server/Config

Open the NQSConfig.INI file where the Oracle BI Server has been deployed (machines 1 and 2) and make the following changes:

```
SSL=YES;
SSL_CERTIFICATE_FILE="server-cert.pem";
SSL_PRIVATE_KEY_FILE="server-key.pem";
SSL_PK_PASSPHRASE_FILE="serverpwd.txt";
SSL_VERIFY_PEER=YES;
SSL_CA_CERTIFICATE_FILE="cacert.pem";
SSL_TRUSTED_PEER_DNS="C=GB/ST=Berkshire/L=Reading/O=Oracle/OU=B
I";
SSL_CERT_VERIFICATION_DEPTH=1;
SSL_CIPHER_LIST="DES-CBC3-SHA";
```

4.4.13 Configure Oracle ODBC Data Source (Linux)

On a Linux environment, the process of configuring Oracle ODBC Data Source to communicate over SSL consists of modifying parameters in the odbc.ini file. This file is located in the following directory:

/space/oracle/product/OBIEE/setup

Perform this configuration on all machines where the Oracle ODBC Data Source has been deployed (machines 1 and 2). Open the odbc.ini file and add the following to the [AnalyticsWeb] section of the file:



```
SSL=YES
SSLCertificateFile=/space/oracle/product/OBIEE/server/Config/se
rver-cert.pem
SSLPrivateKeyFile=/space/oracle/product/OBIEE/server/Config/ser
ver-key.pem
SSLPassphraseFile=/space/oracle/product/OBIEE/server/Config/ser
verpwd.txt
SSLCipherList=DES-CBC3-SHA
SSLVerifyPeer=Yes
SSLCACertificateFile=/space/oracle/product/OBIEE/server/Config/
cacert.pem
SSLTrustedPeerDNs=C=GB/ST=Berkshire/L=Reading/O=Oracle/OU=BI
SSLCertVerificationDepth=1
```

4.4.14 Configure Oracle ODBC Data Source (Windows)

On a Windows environment, the process of configuring the Oracle ODBC Data Source to communicate over SSL consists of modifying the ODBC Data Source created above.

Perform this configuration on all machines where the BI ODBC Data Source has been deployed on a Windows environment (machine 6). Navigate to Start > Settings > Control Panel > Administrative Tools > Data Sources (ODBC)

📢 ODBC Data Source Administrator	? ×
User DSN System DSN File DSN Drivers Tracing Connection	Pooling About
User Data Sources:	
Name Driver	A <u>d</u> d
	<u>R</u> emove
	Configure
An ODBC User data source stores information about how t the indicated data provider. A User data source is only vi- and can only be used on the current machine.	o connect to sible to you,
OK Cancel Apply	Help

Click the **'System DSN'** tab.



🕙 ODBC Data Sour	ce Administrator	? ×
User DSN System	DSN File DSN Drivers Tracing Connection	Pooling About
<u>S</u> ystem Data Sourc	ces:	
Name	Driver	A <u>d</u> d
AnalyticsWeb vm1.saglab.uk.or	Oracle BI Server acle.com Oracle BI Server	<u>R</u> emove
		Configure
An 00	PC Sustem data asuras stores information about he	
the ind	ficated data provider. A System data source is visi machine including NT services	ble to all users
	machine, mordaing fri solvices.	
	OK Cancel Apply	Help

Select the 'vm1.saglab.uk.oracle.com' entry and click the 'Configure' button.

Oracle BI Server DSN C	Dracle BI Server DSN Configuration			
	This wizard will help you cre connect to Oracle BI Serve Name: vm1.sagi	eate an ODBC data source that you can u r. lab.uk.oracle.com	ise to	
	Clustered DSN	Test Cluster Connect	1	
	Primary Controlle	er: vm1.saglab.uk.oracle.com	- -	
ORACLE	S <u>e</u> condary Controlle	er: vm2.saglab.uk.oracle.com	-	
	Controller P <u>o</u>	rt: 9706		
	<u>S</u> erve	er: Jocalhost	-	
	🔽 Use SSL	Configure SSL		
	< <u>B</u> ack	Next > Cancel Hel	p	

Tick the **'Use SSL'** check box.

Click the 'Configure SSL' button.



Secure Socket Layer	Configuratio	n	? ×
<u>C</u> ertificate File	racle\product	t\OBIEE\server\Config\client-cert.pem	Select
Certificate <u>P</u> rivate Key	File	server\Config\client-key.pem	Select
Eile Containing Passphi	rase	OBIEE\server\Config\clientpwd.txt	Select
🔽 <u>V</u> erify Peer			
CA Certificate <u>D</u> irector	У		Select
C <u>A</u> Certificate File	C:\oracle\pro	oduct\OBIEE\server\Config\cacert.pem	Select
Cipher <u>L</u> ist	DES-CBC3-SI	HA	
Certificate Verification	Depth	1 -	
Trusted Peer Distinguis	hed Names	C=GB/ST=Berkshire/L=Reading/O=Oracle	/OU=BI
		OK Cancel	

Enter the location of the Client Certificate file in the 'Certificate File' field.

Enter the location of the Client Private Key file in the 'Certificate Private Key File' field.

Enter the location of the passphrase file for the Client Key in the 'File Containing Passphrase' field

Tick the 'Verify Peer' check box.

Enter the location of the CA Certificate file in the 'CA Certificate File' field.

Enter 'DES-CBC3-SHA' in the 'Cipher List' field.

Enter a value of '1' in the 'Certificate Verification Depth' field.

Enter the DNs of servers that will be allowed to connect in the **'Trusted Peer Distinguished Names'** field.

Click OK.





0	racle BI Server DSN C	onfiguration				?	×
		This wizard will help connect to Oracle Bl Na <u>m</u> e: vn	vou create Server. n1.saglab.)	e an ODBC o uk.oracle.co	lata source that om	you can use t	0
			1		<u>T</u> est Cluster (Connect	
	ORACLE"	<u>P</u> rimary C	ontroller:	vm1.saglal	o.uk.oracle.com	•	
		S <u>e</u> condary C Contro	ontroller: oller P <u>o</u> rt:	9706	o.uk.oracie.com		
		🔽 Use SSL	<u>S</u> erver:	localhost	(Config	ure SSL	
		< <u>B</u> ack	<u>N</u> e	xt >	Cancel	Help	

Click Next.

Oracle BI Server DSN C	onfiguration	<u>? ×</u>
ORACLE	Please enter Oracle BI Server login ID and password (Leave both blank for OS authentication.) Login ID: Administrator Password: Save login ID Port: 9703 Change the default repository to Change the default repository to Connect to Oracle BI Server to obtain default settings for the additional configuration options.	
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

Click Next.



Oracle BI Server DSN C	onfiguration	? ×
	Change the default catalog to: Change your Oracle BI Server password: Password:	
ORACLE	 Use Regional Settings when outputting dates and times Database Login ID 	-
	Edit < Back Finish Cancel H	elp

Click Finish.

🕙 ODBC Da	ata Source Admi	inistrator			1	? ×
User DSN	System DSN F	ile DSN Drivers	Tracing	Connecti	on Pooling Abou	ε] _
<u>S</u> ystem D	ata Sources:					
Name		Driver			A <u>d</u> d	
Analytic vm1.sag	sWeb glab.uk.oracle.com	Oracle BI Servi Oracle BI Servi	er er		<u>R</u> emove	
					<u>C</u> onfigure	
		m data source st	oros inform	tion shout	have to connect to	
3	the indicated da on this machine	an data source st ata provider. A S , including NT se	ystem data rvices.	source is v	isible to all users	
		ОК	Cancel	Арр	y Help	





Copy the client certificate, client private key, passphrase file and CA certificate file to the directory specified in the parameters. In the examples specified, the directory is C:\oracle\product\OBIEE\server\Config.

4.4.15 Configure Oracle BI Presentation Services

The process of configuring Oracle BI Presentation Services to communicate over SSL consists of modifying parameters in the instanceconfig.xml configuration file. BI Presentation Services accesses certificates and key files from its credential store. The paths to certificates and keys that BI Presentation Services uses must be stored in its credential store credentialstore.xml.

Specifying Certificate and Key Paths in BI Presentation Services Credential Store

The credentialstore.xml and instanceconfig.xml files are located in the following directory:

/space/oracle/oradata/OBIEE/web/config

Perform this configuration on all machines where the Oracle BI Presentation Services has been deployed (machines 1 and 2).

To specify certificate and key paths in the BI Presentation Services Credential Store edit the credentialstore.xml file and add the following to specify the paths to the server certificate, private key and CA certificate files:

```
<sawcs:credential type="x509" alias="obips">
<sawcs:key
encoding="pem"
passphraseFile="/space/oracle/product/OBIEE/server/Config/serverpwd.txt"
path="/space/oracle/product/OBIEE/server/Config/server-key.pem"/>
<sawcs:certificate
encoding="pem"
path="/space/oracle/product/OBIEE/server/Config/server-cert.pem"/>
</sawcs:credential>
<sawcs:trustedCertificate
alias="cacert"
encoding="pem"
path="/space/oracle/product/OBIEE/server/Config/cacert.pem"/>
```

NOTE: In the above example, the certificate and key paths are stored under the alias "obips" and the trusted CA certificate file is stored under the alias "cacert".



To configure BI Presentation Services for SSL communication open the instanceconfig.xml file and add the following elements between the <ServerInstance></ServerInstance> node:

```
<Listener ssl="true" credentialAlias="obips"
certificateVerificationDepth="1" verifyPeers="true" cipherSuites="DES-CBC3-
SHA">
</Listener>
<CredentialStore>
<CredentialStorage
type="file"
path="/space/oracle/oradata/OBIEE/web/config/credentialstore.xml"/>
</CredentialStore>
```

In the preceding example configuration, BI Presentation Services is directed to obtain the certificate and key using the alias "obips". You must specify the alias under which the certificates and keys were stored in the credential store. In the example, the keystore that contains the certificate, private key, and CA is the XML file store called credentialstore.xml.

4.4.16 Configure Oracle BI Presentation Services Plug-In

The process of configuring the BI Presentation Services Plug-in (Java Servlet) deployed on a J2EE container consists of adding SSL-related entries in the web.xml file. This file is located in the following directory:

/space/oracle/product/10gAS/10g_J2EE/j2ee/home/applications/ana
lytics/analytics/WEB-INF

The BI Presentation Services Plug-In (Java Servlet) uses a Java keystore to store certificates and keys. The keystore created earlier will be used.

Open the web.xml file for the analytics application deployed on your J2EE server and insert the following elements and values inside the <servlet> tag:

```
<init-param>
    <param-name>oracle.bi.Secure</param-name>
        <param-value>Y</param-value>
</init-param>
        <param-name>oracle.bi.ssl.CertAlias</param-name>
        <param-value>javahostkey</param-value>
</init-param>
        <init-param>
        <param-name>oracle.bi.ssl.CertStoreFile</param-name>
</param-name>oracle.bi.ssl.CertStoreFile</param-name>
</param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name></param-name>
```



<pre><pre>>>></pre></pre>
value>/space/oracle/product/OBIEE/server/Config/javahost.keystore
value>
<init-param></init-param>
<param-name>oracle.bi.ssl.CertStorePwd</param-name>
<param-value>oracle</param-value>
<init-param></init-param>
<param-name>oracle.bi.ssl.TrustStoreFile</param-name>
<pre><param-< pre=""></param-<></pre>
value>/space/oracle/product/OBIEE/server/Config/javahost.keystore
value>
<init-param></init-param>
<param-name>oracle.bi.ssl.TrustStorePwd</param-name>
<param-value>oracle</param-value>
<init-param></init-param>
<param-name>oracle.bi.ssl.Protocol</param-name>
<param-value>TLS</param-value>
<init-param></init-param>
<param-name>oracle.bi.ssl.TrustAnyPeer</param-name>
<param-value>N</param-value>
<init-param></init-param>
<param-name>oracle.bi.ssl.TrustedPeerDNs</param-name>
<param-value>C=GB/ST=Berkshire/L=Reading/O=Oracle/OU=BI</param-value>
<init-param></init-param>
<param-name>oracle.bi.ssl.EnabledCipherSuites</param-name>
<param-value>SSL_RSA_WITH_3DES_EDE_CBC_SHA</param-value>

Copy this keystore (named javahost.keystore) to all machines where the BI Presentation Services Plug-in is deployed (machine 5).

4.4.17 Configure Oracle BI Java Host

The BI Java Host component is Java based and uses the Java Keystore to store certificates and keys that it uses.

The BI Java Host is configured by setting SSL-related entries in the config.xml and instanceconfig.xml files.

The config.xml file is located in the following directory:

```
/space/oracle/product/OBIEE/web/javahost/config/
```

The instanceconfig.xml file is located in the following directory:



/space/oracle/oradata/OBIEE/web/config/

Perform this configuration on all machines where the Oracle BI Java Host has been deployed (machines 1 and 2).

Open the config.xml file and add the following SSL-related elements and values under the <Listener> node:

```
<PermittedClientList><Host Name of Machine 1>, <Host Name of Machine
2></PermittedClientList>
<Secure>Yes</Secure>
<SSL>
   <CertAlias>javahostkey</CertAlias>
<CertStoreFile>/space/oracle/product/OBIEE/server/Config/javahost.keystore
</CertStoreFile>
   <CertStorePwd>oracle</CertStorePwd>
   <KeyPwd>oracle</KeyPwd>
   <CertStoreType>JKS</CertStoreType>
<TrustStoreFile>/space/oracle/product/OBIEE/server/Config/javahost.keystore
</TrustStoreFile>
   <TrustStorePwd>oracle</TrustStorePwd>
   <TrustStoreType>JKS</TrustStoreType>
   <TrustesPeersDns>
     OU=BI,O=Oracle,L=Reading,ST=Berkshire,C=GB
   </TrustesPeersDns>
   <TrustAnyPeer>N</TrustAnyPeer>
   <EnabledCipherSuites>SSL_RSA_WITH_3DES_EDE_CBC_SHA</EnabledCipherSuites>
</SSL>
```

NOTE: The config.xml file has the above-mentioned elements commented out. You may choose to uncomment the elements and add the corresponding values. Or, you may leave the elements commented out and create new ones as described above.

The javahost.keystore file should be copied to the /space/oracle/product/OBIEE/server/Config on all machines where the BI Java Host is deployed (machines 1 and 2).

Open the instanceconfig.xml file and add the following SSL-related elements and values under the <ServerInstance> node:


</Hosts> </JavaHostProxy>

4.4.18 Configure Oracle SOA Suite 10g

On the server where Oracle SOA Suite 10g has been deployed (machine 5), backup the opmn.xml file in the <code>\$ORACLE_HOME/opmn/conf</code> directory.

Make the following change to the opmn.xml file. Locate the <ias-component id="HTTP_Server"> tag and modify it to:

```
<ias-component id="HTTP_Server" status="disabled">
```

4.4.19 Configure Oracle HTTP Server

On the server where Oracle HTTP Server has been deployed (machine 5), backup the httpd.conf, ssl.conf and mod_oc4j.conf files in the \$ORACLE_HOME/ohs/conf directory.

Make the following changes to the ssl.conf file:

Change the SSLWallet directive to the location of the wallet.

Change the SSLCipherSuite directive to '3DES:-DH:-SSLv2'.

Comment out the Listen directive in the httpd.conf:

Listen 7778

Add the following to the mod_oc4j.conf file within the <IfModule mod_oc4j.c> tag:

```
Oc4jMount /analytics ajp13://localhost:8888
Oc4jMount /analytics/* ajp13://localhost:8888
```

Backup the opmn.xml file in the <code>\$ORACLE_HOME/opmn/conf directory</code>.

In the opmn.xml file, locate the <ias-component id="HTTP_Server"> tag and change value="ssl-disabled" to value="ssl-enabled":

<data id="start-mod" value="ssl-enabled"/>



4.4.20 Configure Oracle Internet Directory

To configure SSL on the OID server an SSL configuration set must be created using Oracle Directory Manager. Issue the following commands to configure OID on machine 4:

<pre>export ORACLE_HOME=/space/oracle/product/10gAS/10g_OIM</pre>	
export PATH=\$ORACLE_HOME/bin:\$PATH	
oidadmin &	



Click OK.

X Directory Server Nar	ne Manager		<u> </u>
Server Server	Port	Available	
	· ·		Add
			Edit
			Remove
Help			<u>Bevert</u>)

Click Add.



X Directory Serv	er Connection	
Server:	vm4.saglab.ul	<.oracle.com
Port:	389	×
Help		QK Cancel

Enter the server name in the **'Server'** field.

Click OK.

XDirectory Server Name Manager		
Server	Port	A\
🕵 vm4.saglab.uk.oracle.com	389	Y <u>A</u> dd
		Edit
		Remove
Help		Apply Revert

Click Apply and then click OK.

Oracle Directory Manager Connect			
	🕵 Credentials 📗	🤶 S2L	
	User: Password:	cn=orcladmin	**
Oracle	Server:	vm4.saglab.uk.oracle.com	·] 📲
Internet Directory	Port:	389 SSL Enabled]
	Help Copyright (C) 1998	Login C 3, 2006, Oracle. All rights reserved.	ancel

Enter 'cn=orcladmin' in the 'User' field.

Enter the password for the **'cn=orcladmin'** user in the **'Password'** field.

Click Login.





Expand the Server Management > Directory Server tree.

🙀 Oracle Directory Manager			
Eile Edit View Operation Help			
🙋 🧐 😂 🗞 🖉 🗛 🕄 👘) 8 V 🛛 🛇 12 (?	ORACLE
System Objects System Objects Con-orcladmin@vm4.saglab.uk.oracle Access Control Management Access Control Management Access Control Management Access Control Management Access Control Management Change Log Management Carbage Collection Management Password Verifier Management Password Verifier Management Password Verifier Management Schema Management Schema Management Configuration Set Configuration Set Replication Server Set Password Server Configuration Set Replication Server Configuration Set Replication Server	A second	erver/Default Configuration Set cn=configset0, cn=osdidapd, cn=subconfigsubent 2 1 DIGEST-MD5 EXTERNAL I 3des rc4 I 389 SSL_RSA, WITH, AES_128, CBC, SHA SSL_RSA, WITH, AES_256, CBC, SHA SSL_RSA, WITH, ACS_256, CBC, SHA	PRACLE
€ Server Chaining Management	Set:	0	
	Help	(Apply Revert

Right-click 'Default Configuration Set' and select 'Create Like'.





Ś	Configuration Sets: Configuration S	5et2		_O×
I	📑 🖁 General 📑 📲 🖓 SSL Settings			
I	Max. Number of DB Connections:	2		
I	SASL Authentication Mode:	1		
l	SASL Mechanism:	DIGEST-MD5 EXTERNAL		
I			Ð	
l	SASL Cipher Choice:	rc4-56 des 3des rc4		Browse
I	Number of Child Processes:	1	5	
I	Non SSL Port:			
l	SSL Cipher Suite:	SSL_RSA_WITH_AES_128_CBC_SHA SSL_RSA_WITH_AES_256_CBC_SHA SSL_RSA_WITH_3DES_EDE_CBC_SHA SSL_RSA_WITH_RC4_128_SHA		
	Set:	2		
	Help	Q	ĸ	Cancel
	rcinonssiport			

Remove '389' from the 'Non SSL Port' field.

Click the **'SSL'** tab.





Select 'SSL Client and Server Authentication' from the 'SSL Authentication' select list.

Select 'SSL only' from the 'SSL Enable' select list.

Append the location of the SSL Wallet in the 'SSL Wallet URL' field.

Enter '4082' in the 'SSL Port' field.

Click OK.

Oracle Directory Manager

- 🚛 Audit Log Management

🕁 🐖 Password Verifier Management 🕁 🏥 Plug-in Management Replication Management – 🔩 Schema Management Gerver Management 👾 🕸 Directory Server

Befault Configuration Set -EgConfiguration Set1 Configuration Set2 ⊕ ∰ Replication Server ⊕ ∰ Integration Server 🗄 🔷 Server Chaining Management

Entry Management



Close Oracle Directory Manager.

Start a new OID process by issuing the following command:

Help

oidctl connect=OID server=oidldapd instance=2 configset=2 start

Verify successful connection to OID using ldapbind:

ldapbind -D cn=orcladmin -w oracle1 -U 3 -h localhost -p 4082 -W file://space/oracle/product/10gAS/10g_OIM/wallet -P oracle

Where the arguments passed to ldapbind are:

- The OID user needed to bind to the directory. -D
- The OID user password needed to bind to the directory. -W
- -U The SSL authentication mode
- The host name or IP address of the OID server -h
- The port number used to connect to the OID server -p
- The location of the wallet file containing the server's SSL certificates -W
- -P The wallet password for the wallet specified in the -W argument

Apply Rever



4.4.21 Configure OBIEE Repository

Open the oid_obiee.rpd repository file using the Administration Tool (machine 6) to configure SSL communication between the BI Server and OID.



Click Tools > Options



Options		×
General Cache Manager	Repository Multiuser	Sort Objects More
Speed of scroll in the tre	e:	East
Default diagram <u>z</u> oom:		
Best Fit		•
	OK Cano	cel Help

Click the 'Repository' tab.

tions			
Cache Manag	er M	ultiuser	More
General	Repository	, j s	iort Objects
Show tables ar	nd dimensions on ed measure	ly under display	folders
L LDAP	terval: 1	(daus)	_
<u>N</u> umber of cach	e entries: 0	1(00)0)	
Key file name:	key.kdb		
Password:	******		
<u>C</u> onfirm passwor	d: ******		
	ОК	Cancel	Help

Enter the name of the key file in the **'Key file name'** field.



Enter the password to open the key file in the **'Password'** and the **'Confirm password'** fields.

Click OK.

Click Manage > Security



Click **'LDAP Servers'** in the left-hand pane.

Right-click 'OID' and select 'Properties'.

LDAP Server - OID			_ 🗆 🗙
General Advanced			
Name: OID			
Host name: vm4.saglab.ul	oracle.com		
Port number: 389			€ <u>3</u>
Base DN: cn=Users,dc=	saglab,,dc=uk,dc=o	racle,dc=com	
Bind <u>D</u> N: cn=orcladmin			
Bind pa <u>s</u> sword:	***		
Confirm password:	CK 24		
D <u>e</u> scription:		<u>Test c</u>	connection
			× •
	ОК	Cancel	Help

Enter '4082' in the 'Port number' field.



Click the **'Advanced'** tab.

LDAP Server - OID				_ 🗆 🗙
General Advanced				
Connection timeout:		(minut	es)	 •
Domain identifier:				
DSI				
SSL				
User name attribute type				
Automatically generated				
uid				
	ОК		Cance	Help

Tick the **'SSL'** check box.

Click OK. Close the Security Manager and save the repository.

4.4.22 Configure Oracle Database Server

To configure SSL on the database server the network configuration files, sqlnet.ora and listener.ora, must be edited. The files are located in the \$ORACLE_HOME/network/admin directory.

Add the following entry to the sqlnet.ora and listener.ora files:

```
WALLET_LOCATION =
  (SOURCE =
    (METHOD = FILE)
    (METHOD_DATA =
        (DIRECTORY = /space/oracle/product/10.2.0/db/wallet)
    )
  )
```

Add the following entries to the sqlnet.ora file:

ORACLE'

```
SSL_CIPHER_SUITES = (SSL_RSA_WITH_3DES_EDE_CBC_SHA)
SSL_VERSION = 3.0
```

Modify the LISTENER entry in the listener.ora file from:

```
(ADDRESS = (PROTOCOL = TCP)(HOST = vm3.saglab.uk.oracle.com)(PORT = 1521))
```

To:

```
(ADDRESS = (PROTOCOL = TCPS)(HOST = vm3.saglab.uk.oracle.com)(PORT = 2484))
```

Modify the SID_LIST_LISTENER entry in the listener.ora file to include:

```
(SID_DESC =
  (GLOBAL_DBNAME = orcl.saglab.uk.oracle.com)
  (ORACLE_HOME = /space/oracle/product/10.2.0/db)
  (SID_NAME = orcl)
)
```

Restart the listener so that the new settings are picked up.

4.4.23 Configure Oracle Client

To configure SSL on the client the network configuration files, sqlnet.ora and tnsnames.ora, must be edited. The files are located in the client \$ORACLE_HOME/network/admin directory on machines 1 and 2 and in the client %ORACLE_HOME%\network\admin directory on machine 6.

Perform the following configuration on machines 1, 2 and 6:

Add the following entry to the tnsnames.ora file. Create the file if it does not exist:

```
ORCL =
  (DESCRIPTION =
   (ADDRESS = (PROTOCOL = TCPS)(HOST = vm3.saglab.uk.oracle.com)(PORT =
2484))
   (CONNECT_DATA =
    (SERVER = DEDICATED)
    (SERVICE_NAME = orcl.saglab.uk.oracle.com)
   )
   (SECURITY=
```



```
(SSL_SERVER_CERT_DN="CN=vm3.saglab.uk.oracle.com, OU=BI, O=Oracle,
L=Reading, ST=Berkshire, C=GB")
)
)
```

Perform the following configuration on machines 1 and 2:

Add the following entries to the sqlnet.ora file:

```
SSL_VERSION = 3.0
SSL_CLIENT_AUTHENTICATION = TRUE
SSL_SERVER_DN_MATCH = Yes
SSL_CIPHER_SUITES = (SSL_RSA_WITH_3DES_EDE_CBC_SHA)
WALLET_LOCATION =
  (SOURCE =
   (METHOD = FILE)
   (METHOD = FILE)
   (DIRECTORY = /space/oracle/product/10.2.0/client/wallet)
  )
  )
```

Perform the following configuration on machine 6:

Add the following entries to the sqlnet.ora file:

```
SSL_VERSION = 3.0
SSL_CLIENT_AUTHENTICATION = TRUE
SSL_SERVER_DN_MATCH = Yes
SSL_CIPHER_SUITES = (SSL_RSA_WITH_3DES_EDE_CBC_SHA)
WALLET_LOCATION =
  (SOURCE =
   (METHOD = FILE)
   (METHOD_DATA =
    (DIRECTORY = C:\oracle\product\10.2.0\client\wallet)
   )
  )
```

4.5 Presentation Services Logging

Auditing for Presentation Services is configured in the logconfig.xml file located in the /space/oracle/oradata/OBIEE/web/config directory.

Create a new logconfig.xml file on machines 1 and 2 with the following contents:



```
<?xml version="1.0" encoding="utf-8"?>
<!-- Siebel Analytics Web log config file -->
<Config>
<Default>
   <Writers>
      <Writer implementation="CoutWriter" name="Global Output</pre>
                                                                    Logger"
writerClassId="1"/>
      <Writer implementation="FileLogWriter" name="Global File Logger"</pre>
writerClassId="2"
                                            dir="{%SADATADIR%}/share/logs"
filePrefix="<machine>_saw.log" maxFileSizeKb="10000" filesN="10" />
                implementation="EventLogWriter"
                                                   name="Event
      <Writer
                                                                   Logger"
writerClassId="3"/>
      <Writer implementation="FileLogWriter" name="Security File Logger"</pre>
writerClassId="5"
                                             dir="{%SADATADIR%}/share/logs"
filePrefix="<machine> sawsecurity.log" maxFileSizeKb="10000" filesN="10" />
      <Writer implementation="FileLogWriter" name="Catalog File Logger"</pre>
writerClassId="6"
                                             dir="{%SADATADIR%}/share/logs"
filePrefix="<machine>_sawcatalog.log" maxFileSizeKb="10000" filesN="10" />
      <Writer implementation="FileLogWriter" name="Catalog ACLs File</pre>
               writerClassId="7" dir="{%SADATADIR%}/share/logs"
Logger"
filePrefix="<machine>_sawcatalog.acls.log"
                                                      maxFileSizeKb="10000"
filesN="10" />
   </Writers>
   <WriterClassGroups>
      <WriterClassGroup name="All">1,2,3,4,5,6,7</WriterClassGroup>
      <WriterClassGroup name="File">1</WriterClassGroup>
      <WriterClassGroup name="Cout">2</WriterClassGroup>
      <WriterClassGroup name="EventLog">3</WriterClassGroup>
      <WriterClassGroup name="Crash">4</WriterClassGroup>
      <WriterClassGroup name="Security">5</WriterClassGroup>
      <WriterClassGroup name="Catalog">6</WriterClassGroup>
      <WriterClassGroup name="Catalog Security">7</WriterClassGroup>
   </WriterClassGroups>
   <Filters>
      <FilterRecord writerClassGroup="Cout" path = "saw" information="31"</pre>
warning="41" error="41" security="41"/>
      <FilterRecord writerClassGroup="File" path = "saw" information="31"
warning="100" error="100" security="41"/>
      <FilterRecord
                      writerClassGroup="File"
                                                             path
"saw.mktgsqlsubsystem.joblog" information="41" warning="100" error="100"
security="41"/>
      <FilterRecord writerClassGroup="EventLog" path="saw" information="31"</pre>
warning="41" security="100"/>
      <FilterRecord writerClassGroup="Security" path="saw" information="0"</pre>
warning="0" security="100"/>
      <FilterRecord writerClassGroup="Catalog" path="saw.catalog"</pre>
information="0" warning="100" security="100"/>
      <FilterRecord
                             writerClassGroup="Catalog
                                                                  Security"
path="saw.catalog.local.setItemACL" information="100" warning="100"
security="100"/>
   </Filters>
</Default>
</Config>
```



Replace the <machine> tag above with the hostname being configured (i.e. if configuring machine 1, vm1 would be entered).

Make the following changes to the run-saw.sh file located in the following directory:

/space/oracle/product/OBIEE/setup

Perform the following configuration on all machines where the Oracle BI Presentation Services has been deployed (machines 1 and 2).

Modify the line:

logfile="\${SADATADIR}/web/log/sawserver.out.log"

To:

logfile="\${SADATADIR}/share/logs/<machine>_sawserver.out.log"

Replace the <machine> tag above with the hostname being configured (i.e. if configuring machine 1, vm1 would be entered).

Modify the line:

```
echo "Please go to the '${SADATADIR}/web/log' directory for Oracle BI Presentation Services log files."
```

To:

```
echo "Please go to the '${SADATADIR}/share/logs' directory for Oracle BI Presentation Services log files."
```

Presentation Services log files will be created on machine 7.



4.6 Presentation Catalog Configuration

4.6.1 Configuration

Start the TOE according to annex B and then login to Oracle Business Intelligence Enterprise Edition using the following URL:

https://vm5.saglab.uk.oracle.com:4444/analytics



Enter User ID and Password. Click Log In.

aint Dashboard		Welcom	e, Administrator	Dashboards	- Answers - More Products V	- Settings	s ▼ - Log Out
Regional Analysis Brand Analysis Year over Year A	nalysis					Page	e Options 🔻
You have achieved \$1,154,530 in sales revenue YTD. This represents 83% of the forecasted sales revenue target of \$1,322,867 ne current actual to forecasted revenue variance	Current Multi-Targ	Period Set Drill	ales Analysis	*	EASTERN REGION has \$84, accounts for 7.3% of total Y	391 in sale TD Reven	es YTD, which ue.
is -\$228,337. KEEP WORKING!	Region	Sales	Forecasted Sales	% of Forecast	YTD Market Share Analysis	ATLANT	A, in the
MODITY	CENTRAL REGION	\$365,343	262,295	139% 🚹	accounts for 6.5% of total Y	4,545 In Si TD Reven	ales YTD, Which ue
	EASTERN REGION	\$436,913	543,169	80% 🛃			
*	SOUTHERN REGION	\$209,506	245,571	85% 🖶	YTD Market Share Analysis	DETROIT	, in the CENTRA
Standard Reports	Results N REGION	\$142,768	331,832	43% 😾	REGION has \$70,518 in sale	s YTD, wi	hich accounts for
Calendar Sales Summaries	Grand Total	\$1,154,530	1,382,867	83%			
Geographic Sales Summaries Product Sales Summaries Revenue Analysis Summaries	You are currently in penetration within Brand Analysis	below foreca customer ba	ast for the year. Resea se	arch brand	VTD Market Share Analysis	dify	2FI FC in the
Market Share Summary				*	Colors by Re	gion	
Dollars	Regiona Current vs	Al Revenu	e		Color Antique	Doll	
	150.000			200.000	District	Units	Price Per Unit
15.57% 7	130,000	p.			ATLANTA DISTRICT	7,037	\$3.55
r 27.35%	120,000			160,000	BOSTON DISTRICT	27,433	\$3.39
	€ 90.000 -			120.000	CHARLOTTE DISTRICT	327	\$4.00
	Dolla			- are	CHICAGO DISTRICT	93,560	\$2.84
	B 60,000 - 0		-	80,000	CINCINNATI DISTRICT	4,995	\$3.49
						the second se	

Click Settings > Administration



Oracle BI Presentation Services Administration			
Product Information Oracle Business Intelligence Product Version Physical Presentation Catalog Path Oracle BI Server Data Source	10.1.3.3.2 (Build 0712 /space/oracle/oradata AnalyticsWeb	217.1900) Ia/OBEE/share/catalog/paint/root	ndow
Activities			?
Manage Presentation Catalog Groups an	nd Users	Create, edit and delete Catalog Groups, as well as remove Catalog Users.	
Manage Presentation Catalog		Delete, rename, set permissions and view properties of items in the Presentation Catalog.	
Manage Interactive Dashboards		Create and delete Interactive Dashboards, and control which users can access them.	
Manage Sessions		View Oracle Business Intelligence session information including active users and queries.	
Manage iBot Sessions		View iBot session information including iBot state and recipients.	
Manage BI Publisher		Manage BI Publisher users, permissions, jobs, files and folders.	
Manage Privileges		Manage privileges and rights given to users and groups.	
Manage Device Types		Create, edit, view or delete Device Types.	
Issue SQL		Issue SQL directly to Oracle BI Server.	
Toggle Maintenance Mode		Maintenance Mode is currently off.	
Reload Files and Metadata		Reload XML message files, refresh server metadata, and clear caches.	
Marketing			
Manage Marketing Jobs		View background marketing jobs and database cache result sets.	
Manage Marketing Defaults		Manage the default settings such as Default Campaign Load Format and Default Global Audience for Marketing.	

Click the 'Manage Presentation Catalog Groups and Users' link.

Presentation Catalog Security: Groups and Users	?		
If you have proper authority, this screen allows you to create, edit and delete Catalog Groups, as well as remove Catalog Users. Creating a Catalog Group for the first time will automatically create a shared folder of the same name for the Group.	inished		
Existing Catalog Groups and Users			
NOTE: Authentication is performed by the Oracle BI Server so, if a user has a valid Oracle BI Server User ID, a Catalog User will automatically be created for him when he logs on.			
Create a new Catalog Group			
Catalog Groups and Users Edit Delete Show users and groups			
Presentation Server Administrators 🗠 💊			
1-1/1 First < Prev Next > Last			

Click the 'Create a new Catalog Group' link.

Create Cata	log Group
This screen allo Catalog Group.	ows you to enter a name, a password, and optionally create a Dashboard for the Finished Cancel
Group Prope	erties
Enter a name fo the Join Catalog	r the group, as well as a password. Users will be able to join the group by entering a matching password from g Group screen. A shared subdirectory will automatically be created for the group.
Group Name	Normal Users
	Each group must have a unique name, not case-sensitive.
Password	•••••
Verify Password	•••••
	Enter the password twice to verify.
Group Dash	board
You can automa will be able to vi	Itically create an Interactive Dashboard for this group by entering the information below. Everyone in this Group ew this Dashboard, but only the user or group specified below will be able to change it.
Dashboard Name	
	If specifed, an empty Dashboard will be created for this group.
Dashboard Builde	r
	Specify which user or group can make changes to this Dashboard.



Enter 'Normal Users' in the 'Group Name' field.

Enter a password for the group into the 'Password' field.

Click the 'Finished' button.

Presentation Catalog Security: Groups and Users	?
If you have proper authority, this screen allows you to create, edit and delete Catalog Groups, as well as remove Catalog Users. Creating a Catalog Group for the first time will automatically create a shared folder of the same name for the Group.	Finished
Existing Catalog Groups and Users	
NOTE: Authentication is performed by the Oracle BI Server so, if a user has a valid Oracle BI Server User ID, a Ca automatically be created for him when he logs on. Create a new Catalog Group	talog User will
Catalog Groups and Users Edit Delete Show users and groups	
Search	
🎡 Presentation Server Administrators 🗟 🚫	
1-2/2 First < Prev Next> Last	

Click the **'Finished'** button.

Click the 'Manage Privileges' button.

Privilege Administration	1		
This page allows you to view a Business Intelligence.	nd administer privileges associated with various c	omponents of Oracle	Fini
	Access to Dashboards	Everyone	1
	Access to Answers	Everyone	
	Access to Delivers	Everyone	1
	Access to Briefing Books	Everyone	1
	Access to Disconnected Analytics	Everyone	1
A	Access to Administration	Presentation Server Administrators	1
Access	Access to Segments	Everyone	1
	Access to Segment Trees	Everyone	1
	Access to List Formats	Everyone	1
	Access to Metadata Dictionary	Presentation Server Administrators	1
	Access to Oracle BI Publisher Enterprise	Everyone	1
	Access to Oracle BI for Microsoft Office	Everyone	1
Admine Catalog	Change Permissions	Everyone	1
Admin: Catalog	Toggle Maintenance Mode	Everyone	1
	Manage Sessions	Presentation Server Administrators	1
	Manage Dashboards	Presentation Server Administrators	
	See sessions IDs	Presentation Server Administrators	1
	Issue SQL Directly	Presentation Server Administrators	1
	View System Information	Presentation Server Administrators	1
Admin: General	Performance Monitor	Presentation Server Administrators	1
	Manage iBot Sessions	Presentation Server Administrators	1
	Manage Device Types	Presentation Server Administrators	1
	Manage Marketing Jobs	Everyone	1
	Manage Marketing Defaults	Presentation Server Administrators	1
	Manage BI Publisher	Presentation Server Administrators	1
	Manage Catalog Groups and Users	Presentation Server Administrators	1
Admin: Security	Manage Privileges	Presentation Server Administrators	1
	Set Ownership of Catalog Objects	Presentation Server Administrators	
Briefing Book	Add To or Edit a Briefing Book	Everyone	
Driening Dook	Download Briefing Book	Everyone	



4.6.2 Revoke Privileges

Revoke the 'Access to Dashboards' privilege by clicking the 'Everyone' hyperlink.

Change Privilege	Permissions			3
This screen allows you to change the permissions to this assign permissions by group rather than user when poss			Privilege. It is recommended that you sible.	Finished Cancel
Access to Delivers				
Show effective per Users and groups wi	missions. th explicit access to	o this Privilege	Show users and groups	
🔯 Everyone	Granted	×	Additional groups	Add Explicit Permissions
			Presentation Server Administrator	rs <u>Add</u>
Sec. 1997			2 Web Services	Add
			1-3/3 First < Prev Next > Last	:

Click the \boxtimes button to revoke the privilege.

Change Privilege Permissions		3
This screen allows you to change the permissions to this P assign permissions by group rather than user when possit	Finished Cancel	
Access to Delivers		
 Show effective permissions. Users and groups with explicit access to this Privilege 	Show users and groups Additional groups Presentation Server Administrators	Add Explicit Permissions
	Web Services Everyone	Add Add
	1-3/3 First < Prev Next > Last	

Click the **'Finished'** button.

Privilege Administration	n		?
This page allows you to view a Business Intelligence.	and administer privileges associated with various co	omponents of Oracle	Finished
	Access to Dashboards	Everyone	
	Access to Answers	Everyone	
	Access to Delivers	(not permitted)	
	Access to Briefing Books	Everyone	
	Access to Disconnected Analytics	Everyone	
Access	Access to Administration	Presentation Server Administrators	
ALLESS	Access to Segments	Everyone	
	Access to Segment Trees	Everyone	
	Access to List Formats	Everyone	
	Access to Metadata Dictionary	Presentation Server Administrators	
	Access to Oracle BI Publisher Enterprise	Everyone	
	Access to Oracle BI for Microsoft Office	Everyone	

Set privileges according to the following table:



Access	Access to Dashboards	(not permitted)
	Access to Answers	Presentation Server
		Administrators
	Access to Delivers	(not permitted)
	Access to Briefing Books	(not permitted)
	Access to Disconnected Analytics	(not permitted)
	Access to Administration	Presentation Server
		Administrators
	Access to Segments	(not permitted)
	Access to Segment Trees	(not permitted)
	Access to List Formats	(not permitted)
	Access to Metadata Dictionary	Presentation Server
		Administrators
	Access to Oracle BI Publisher Enterprise	(not permitted)
	Access to Oracle BI for Microsoft Office	(not permitted)
Admin: Catalog	Change Permissions	<u>Everyone</u>
	Toggle Maintenance Mode	<u>Everyone</u>
Admin: General	Manage Sessions	Presentation Server
		Administrators
	Manage Dashboards	Presentation Server
		Administrators
	See sessions IDs	Presentation Server
	lagua COL Directly	Administrators
	Issue SQL Directly	Administrators
	View System Information	Presentation Server
	New System mornation	Administrators
	Performance Monitor	Presentation Server
		Administrators
	Manage iBot Sessions	(not permitted)
	Manage Device Types	(not permitted)
	Manage Marketing Jobs	(not permitted)
	Manage Marketing Defaults	(not permitted)
	Manage BI Publisher	(not permitted)
Admin: Security	Manage Catalog Groups and Users	Presentation Server
		Administrators
	Manage Privileges	Presentation Server
		Administrators
	Set Ownership of Catalog Objects	Presentation Server
Driefing Deels	Add To on Edit o Driefing Deals	Administrators
Briefing Book	Add To or Edit a Briefing Book	(not permitted)
	Download Briefing Book	(not permitted)
Catalog	Personal Storage (My Folders and My Dashboard)	Everyone
	Reload Metadata	Presentation Server
	Saa Hiddon Itomo	Administrators
	Create Folders	
		<u>⊏veryone</u>
	Archive Catalog	Presentation Server
Dachboarda	Sava Salactions	<u>Auministrators</u>
Dashbuarus	Save Selections	
Formotting	Assign Derault Selections	
ronnating	Save System-wide Column Formats	Administrators
1		nummonators



My Account	Access to My Account	<u>Everyone</u>
	Change Preferences	Everyone
	Change Delivery Options	Everyone
Answers	Create Views	Everyone
	Create Prompts	Everyone
	Access Advanced Tab	Evervone
	Edit Column Formulas	Everyone
	Save Content with HTML Markup	Presentation Server
		Administrators
	Enter XML and Logical SQL	Everyone
	Edit Direct Database Requests	Presentation Server
	·	Administrators
	Create Advanced Filters and Set Operations	Everyone
	Save Filters	Everyone
	Execute Direct Database Requests	(not permitted)
Delivers	Retrieve Delivery Destinations for iBots (system	(not permitted)
	call)	×
	Create iBots	(not permitted)
	Publish iBots for Subscription	(not permitted)
	Deliver iBots to Specific or Dynamically	(not permitted)
	Determined Users	
	Chain iBots	(not permitted)
	Chain iBots to Custom Scripts	(not permitted)
	See iBot Instance Errors	(not permitted)
	Modify Current Subscriptions for iBots	(not permitted)
Proxy	Act As Proxy	(not permitted)
RSS Feeds	Access to RSS Feeds	<u>Everyone</u>
Oracle BI Publisher	Add BI Publisher Reports to Dashboard	(not permitted)
Enterprise	View BI Publisher Reports	(not permitted)
	Schedule BI Publisher Reports	(not permitted)
	Send BI Publisher Reports	(not permitted)
	Build BI Publisher Reports	(not permitted)
	Analyze BI Publisher Reports	(not permitted)
List Formats	Create List Formats	Everyone
	Create Headers and Footers	Everyone
	Access Options Tab	Everyone
	Add/Remove List Format Columns	Presentation Server
		Administrators
Segmentation	Create Segments	(not permitted)
	Create Segment Trees	(not permitted)
	Create/Purge Saved Result Sets	(not permitted)
	Access Segment Advanced Options Tab	(not permitted)
	Access Segment Tree Advanced Options Tab	(not permitted)
	Change Target Levels within Segment Designer	(not permitted)
SOAP	Access SOAP	Normal Users,
		Presentation Server
		Administrators
Subject Area: "Paint	Access within Oracle BI Answers	<u>Everyone</u>
Exec"		F
Subject Area: "Usage	Access within Oracle BI Answers	<u>Everyone</u>
Subject Area: Daint	Access within Oracle PL Answers	Evenuene
Subject Area. Pallit	AUGSS WITHIN OLACIE DI ANSWEIS	Everyone



View Column Filter	Add/Edit Column Filter Prompt View	Everyone
View Column Selector	Add/Edit Column Selector View	Everyone
View Compound	Add/Edit Compound View	Everyone
View Filters	Add/Edit Filters View	Everyone
View Funnel Chart	Add/Edit Funnel Chart View	Everyone
View Gauge	Add/Edit Gauge View	<u>Everyone</u>
View Dashboard Prompt	Add/Edit Dashboard Prompt View	Everyone
View Static Text	Add/Edit Static Text View	<u>Everyone</u>
View Image	Add/Edit Image View	<u>Everyone</u>
View Legend	Add/Edit Legend View	<u>Everyone</u>
View Narrative	Add/Edit Narrative View	<u>Everyone</u>
View Nested Request	Add/Edit Nested Request View	<u>Everyone</u>
View No Results	Add/Edit No Results View	<u>Everyone</u>
View Pivot Table	Add/Edit Pivot Table View	<u>Everyone</u>
View Create Segment	Add/Edit Create Segment View	<u>Everyone</u>
View Logical SQL	Add/Edit Logical SQL View	<u>Everyone</u>
View Chart	Add/Edit Chart View	<u>Everyone</u>
View Table	Add/Edit Table View	<u>Everyone</u>
View Create Target	Add/Edit Create Target List View	<u>Everyone</u>
List		
View Ticker	Add/Edit Ticker View	<u>Everyone</u>
View Title	Add/Edit Title View	<u>Everyone</u>
View View Selector	Add/Edit View Selector View	<u>Everyone</u>
Write Back	Write Back to Database	(not permitted)
	Manage Write Back	Presentation Server
		Administrators

Privilege Administration 3			
This page allows you to view and administer privileges associated with various components of Oracle Business Intelligence.			
	Access to Dashboards	(not permitted)	
	Access to Answers	Presentation Server Administrators	
	Access to Delivers	(not permitted)	
	Access to Briefing Books	(not permitted)	
	Access to Disconnected Analytics	(not permitted)	
	Access to Administration	Presentation Server Administrators	
Access	Access to Segments	(not permitted)	
	Access to Segment Trees	(not permitted)	
	Access to List Formats	(not permitted)	
	Access to Metadata Dictionary	Presentation Server Administrators	
	Access to Oracle BI Publisher Enterprise	(not permitted)	
	Access to Oracle BI for Microsoft Office	(not permitted)	
Admin: Catalog	Change Permissions	Everyone	
Aumin. Catalog	Toggle Maintenance Mode	Everyone	
	Manage Sessions	Presentation Server Administrators	
	Manage Dashboards	Presentation Server Administrators	
	See sessions IDs	Presentation Server Administrators	
	Issue SQL Directly	Presentation Server Administrators	
	View System Information	Presentation Server Administrators	
Admin: General	Performance Monitor	Presentation Server Administrators	
	Manage iBot Sessions	(not permitted)	
	Manage Device Types	(not permitted)	
	Manage Marketing Jobs	(not permitted)	
	Manage Marketing Defaults	(not permitted)	
	Manage BI Publisher	(not permitted)	

Click the 'Finished' button when done.

Oracle BI Presentation Service	3			
Product Information		Close Window		
Oracle Business Intelligence Product Version Physical Presentation Catalog Path Oracle BI Server Data Source	10.1.3.3.2 (Build 071217.1900) /space/oracle/oradata/OBIEE/share/catalog/paint/root AnalyticsWeb			
Activities				
Manage Presentation Catalog Groups and Users Create, edit and delete Catalog Groups, as well as remove Catalog Users.				
Manage Presentation Catalog	Delete, rename, set permissions and view	Delete, rename, set permissions and view properties of items in the Presentation Catalog.		
Manage Interactive Dashboards	Create and delete Interactive Dashboards	, and control which users can access them.		
Manage Sessions	View Oracle Business Intelligence sessio	n information including active users and queries.		
Manage Privileges	Manage privileges and rights given to use	rs and groups.		
Issue SQL	Issue SQL directly to Oracle BI Server.			
Toggle Maintenance Mode	Maintenance Mode is currently off.			
Reload Files and Metadata	Reload XML message files, refresh serve	r metadata, and clear caches.		

Click the **'Close Window'** button.

The changes will take effect immediately.

The following URL must be invoked to access BI Answers:

https://vm5.saglab.uk.oracle.com:4444/analytics/saw.dll?Answers





If the default URL is used when logging into Presentation Services, after successful authentication, BI Interactive Dashboards are displayed.

BI Interactive Dashboards are out of scope in the evaluated configuration and therefore access is prohibited, and the URL above must be used to access BI Answers.

4.7 TOE Start Procedure

Refer to <u>Annex B</u>.



4.8 Firewall Configuration

4.8.1 Machine 1

As the root user, issue the following command to create the iptables configuration file:

vi /etc/sysconfig/iptables

Insert the following entries in the iptables configuration file:

```
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
:RH-Firewall-1-INPUT - [0:0]
-A INPUT -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state ESTABLISHED, RELATED -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 9700 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 9701 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 9703 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 9706 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 9710 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 9810 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 5> -m state --state NEW -m tcp -p tcp
--dport 9710 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 6> -m state --state NEW -m tcp -p tcp
--dport 9703 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 6> -m state --state NEW -m tcp -p tcp
--dport 9706 -j ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

Start the firewall using the following command:



4.8.2 Machine 2

As the root user, issue the following command to create the iptables configuration file:

vi /etc/sysconfig/iptables

Insert the following entries in the iptables configuration file:

```
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
:RH-Firewall-1-INPUT - [0:0]
-A INPUT -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state ESTABLISHED, RELATED -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 9700 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 9701 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 9703 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 9706 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 9710 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 9810 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 5> -m state --state NEW -m tcp -p tcp
--dport 9710 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 6> -m state --state NEW -m tcp -p tcp
--dport 9703 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 6> -m state --state NEW -m tcp -p tcp
--dport 9706 -j ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

Start the firewall using the following command:



4.8.3 Machine 3

As the root user, issue the following command to create the iptables configuration file:

```
vi /etc/sysconfig/iptables
```

Insert the following entries in the iptables configuration file:

```
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
:RH-Firewall-1-INPUT - [0:0]
-A INPUT -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state ESTABLISHED, RELATED -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 2484 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 2484 -j ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

Start the firewall using the following command:



4.8.4 Machine 4

As the root user, issue the following command to create the iptables configuration file:

vi /etc/sysconfig/iptables

Insert the following entries in the iptables configuration file:

```
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
:RH-Firewall-1-INPUT - [0:0]
-A INPUT -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 1> -m state --state NEW -m tcp -p tcp
--dport 4082 -j ACCEPT
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp
--dport 4082 -j ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

Restart the firewall using the following command:



4.8.5 Machine 5

As the root user, issue the following command to create the iptables configuration file:

vi /etc/sysconfig/iptables

Insert the following entries in the iptables configuration file:

```
*filter
:INPUT ACCEPT [0:0]
:FORWARD ACCEPT [0:0]
:OUTPUT ACCEPT [0:0]
:RH-Firewall-1-INPUT - [0:0]
-A INPUT -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A FORWARD -j RH-Firewall-1-INPUT
-A RH-Firewall-1-INPUT -i lo -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -p icmp --icmp-type any -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state ESTABLISHED,RELATED -j ACCEPT
-A RH-Firewall-1-INPUT -m state --state NEW -m tcp -p tcp --dport 4444 -j
ACCEPT
-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited
COMMIT
```

Start the firewall using the following command:



4.8.6 Machine 6

Navigate to Start > Settings > Control Panel and double-click on the Windows Firewall link.

👺 Windows Firewall	×	
General Exceptions Advanced		
Van DC is and exclusion to de lum an Mindows Firewall		
Y our PC is not protected, turn on windows Filewair		
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.		
🤡 • On		
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.		
Don't allow exceptions		
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.		
No o 🕅		
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.		
For information, see the <u>Microsoft Web site</u> .		
OK Cancel		

Click the **'On'** radio button.

Click the Exceptions tab.

🔋 Windows Firewall 🛛 🛛 🗙
General Exceptions Advanced
Windows Firewall is turned off. Your computer is at risk of attacks and intrusions from outside sources such as the Internet. We recommend that you click the General tab and select On.
Programs and Services:
Name
File and Printer Sharing Remote Assistance
Remote Desktop
UPnP Framework
Add Program Add Port Edit Delete
Display a notification when Windows Firewall blocks a program
What are the risks of allowing exceptions?
OK Cancel

Clear the tick in the 'File and Printer Sharing', 'Remote Assistance' and 'Remote Desktop' Programs and Services.

Click OK.

ORACLE



4.8.7 Machine 7

As the root user, issue the following command to create the iptables configuration file:

vi /etc/sysconfig/iptables

Insert the following entries in the iptables configuration file:

<pre>*filter :INPUT ACCEPT [0:0] :FORWARD ACCEPT [0:0] :OUTPUT ACCEPT [0:0]</pre>	
RH-Firewall-1-INPUT - [0:0]	
-A INPUT -J RH-FITEWAIL-I-INPUT	
-A FORWARD - J RH-FIFEWAII-I-INPUI	
-A RH-Firewall-1-INDUT -n icmnicmn-type any -i ACCEPT	
-A RH-Firewall-1-INPUT -m statestate ESTABLISHED RELATED -i ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	,
dport 111 -i ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m udp -p udp</ip>	,
dport 111 -i ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	,
dport 2049 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m udp -p udp</ip>	,
dport 2049 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	,
dport 2050 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m udp -p udp</ip>	,
dport 2050 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	,
dport 2051 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m udp -p udp</ip>	,
dport 2051 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m tcp -p tcp</ip>)
dport 2052 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 1="" machine=""> -m statestate NEW -m udp -p udp</ip>	1
dport 2052 -j ACCEPT	
-A RH-Firewall-I-INPUT -S <ip 2="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	1
aport III -] ACCEPT	
-A RH-FITEWAII-I-INPUT -S <ip 2="" machine=""> -m statestate NEW -m uap -p uap</ip>	ł
apoil III - J ACCEPI A BU Firewall 1 INDUT a CID maghine 25 m atate atate NEW m tap n tap	
-A RH-FITEWAII-I-INPUT -S <ip 2="" machine=""> -M StateState NEW -M tcp -p tcp</ip>	
- A RH-Firewall-1-INDUT - a <id -="" 25="" m="" machine="" n="" new="" state="" td="" udn="" udn<=""><td></td></id>	
dport 2049 - j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 2="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	,
dport 2050 -i ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 2="" machine=""> -m statestate NEW -m udp -p udp</ip>	,
dport 2050 -j ACCEPT	
-A RH-Firewall-1-INPUT -s <ip 2="" machine=""> -m statestate NEW -m tcp -p tcp</ip>	,
dport 2051 -i ACCEPT	



```
-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m udp -p udp

--dport 2051 -j ACCEPT

-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m tcp -p tcp

--dport 2052 -j ACCEPT

-A RH-Firewall-1-INPUT -s <IP machine 2> -m state --state NEW -m udp -p udp

--dport 2052 -j ACCEPT

-A RH-Firewall-1-INPUT -j REJECT --reject-with icmp-host-prohibited

COMMIT
```

Start the firewall using the following command:



4.9 User Administration

Users are administered within the TOE via either Oracle Internet Directory or Oracle Database Server depending on how the Oracle BI Server Repository has been configured (refer to section 4.1.10 for details).

4.9.1 Oracle Internet Directory

Users can be created using the following LDIF file:

```
dn: cn=<Username>,cn=Users,dc=saglab,dc=uk,dc=oracle,dc=com
cn: <Username>
sn: <Username>
objectclass: top
objectclass: person
objectclass: inetorgperson
objectclass: organizationalPerson
objectclass: orcluser
objectclass: orcluserv2
userpassword: <Password>
departmentnumber: <Group 1>, <Group 2>
```

The parameters in chevrons should be replaced with the following values:

- <Username> The desired username
- <Password> The password associated with <Username>
- <Group n> The Presentation Catalog Group, defined in section 4.6.1, that the user should have access to – if the user requires access to multiple groups they should be entered comma-delimited

4.9.2 Oracle Database Server

Users can be created using the following SQL:

```
sqlplus / as sysdba
create <Username> identified by <Password>;
grant create session to <Username>;
insert into sa.sa_user_group values ('<Group 1>,
upper('<Username>'));
insert into sa.sa_user_group values ('<Group 2>,
upper('<Username>'));
commit;
```



The parameters in chevrons should be replaced with the following values:

- *<*Username*>* The desired username
- <Password> The password associated with <Username>
- <Group n> The Presentation Catalog Group, defined in section 4.6.1, that the user should have access to – if the user requires access to multiple groups, multiple insert statements should be used - one per group access required



Annex A TOE Components

A.1 Oracle Application Server 10g Release 3 (10.1.3.1.0) Components

Agent Required Support Files 10.1.0.2.0 Agent Required Support Files Patch 10.1.0.5.0 Apache Module for Oracle Distributed Authoring and Versioning 10.1.2.1.0 Assistant Common Files 10.1.0.2.0 Assistant Common Files Patch 10.1.0.5.0 Bali Share 1.1.18.0.0 DataDirect Connect JDBC Drivers 10.1.2.0.1 DBJAVA Required Support Files 10.1.0.2.0 DBJAVA Required Support Files Patch 10.1.0.5.0 Documentation Required Support Files 10.1.0.3.0 Enterprise Manager Minimal Integration 10.1.0.2.0 Beta Enterprise Manager plugin Common Files 10.1.0.2.0 Beta Enterprise Manager plugin Common Files 10.1.0.5.0 Extended Windowing Toolkit 3.3.18.0.0 Beta HTTP Server Files 1.3.31.0.0 Identity Management Required Support Files 10.1.4.0.1 Installation Common Files 10.1.0.3.0 Installation Common Files Patch 10.1.0.5.0 Installer SDK Component 10.1.0.5.0 Java Runtime Environment 1.4.2.0.4 JDBC Common Files 10.1.0.2.0 JDBC Common Files Patch 10.1.0.5.0 JDBC/OCI Common Files 10.1.0.2.0 JDBC/OCI Common Files for Instant Client 10.1.0.2.0 JDBC/OCI Common Files for Instant Client Patch 10.1.0.5.0 JDBC/OCI Common Files Patch 10.1.0.5.0 LDAP Required Support Files 10.1.4.0.1 Netca Patch 10.1.0.5.0 Oracle ADF 10.1.3.1.0 Oracle Apache Modules 10.1.3.0.0 Oracle Application Server Guard 10.1.3.1.0 Oracle Application Server Guard Client 10.1.3.1.0 Oracle Application Server Guard Common 10.1.3.1.0 Oracle Application Server Guard Server 10.1.3.1.0 Oracle Application Server High availability components (BR, AFC, DR) 10.1.3.0.0 Oracle Application Server SOA Suite 10.1.3.1.0 Oracle ASkernel Common 10.1.3.0.0 Oracle Business Rules 10.1.3.0.0 Development Oracle Client Required Support Files 10.1.0.2.0 Oracle Client Required Support Files Patch 10.1.0.5.0 Oracle Code Editor 1.2.1.0.0I


Oracle Core Required Support Files 10.1.0.2.0 Oracle Core Required Support Files 10.1.0.5.0 Oracle Display Fonts 10.1.2.0.0 Oracle Dynamic Monitoring Service 10.1.3.1.0 Oracle Enterprise Manager Application Server Control 10.1.3.0.0 Oracle Enterprise Manager Change IP 10.1.3.0.0 Oracle Extended Windowing Toolkit 3.4.43.0.0 Oracle Globalization Support 10.1.0.2.0 Oracle Globalization Support Patch 10.1.0.5.0 Oracle Help For Java 4.2.9.0.0 Oracle HTTP Server 10.1.3.0.0 Oracle iappcore 10.1.3.0.0 Oracle Ice Browser 5.2.3.6.0 Oracle interMedia Java Client 10.1.0.2.0 Oracle interMedia Java Client Patch 10.1.0.5.0 Oracle Java Object Cache 10.1.3.0.0 Oracle JDBC Development Drivers 10.1.0.2.0 Oracle JDBC Development Drivers for Instant Client 10.1.0.2.0 Oracle JDBC Development Drivers for Instant Client Patch 10.1.0.5.0 Oracle JDBC Development Drivers Patch 10.1.0.5.0 Oracle JDBC Thin Driver for JDK 1.4 10.1.0.2.0 Oracle JDBC Thin Driver for JDK 1.4 10.1.0.5.0 Oracle JDBC Thin Driver for JDK 1.4 for Instant Client 10.1.0.2.0 Oracle JDBC Thin Driver for JDK 1.4 for Instant Client Patch 10.1.0.5.0 Oracle JFC Extended Windowing Toolkit 4.2.36.0.0 Oracle Locale Builder 10.1.0.2.0 Oracle Locale Builder Patch 10.1.0.5.0 Oracle Mod PL/SQL Gateway 10.1.3.0.0 Oracle Net 10.1.0.2.0 Oracle Net Configuration Assistant 10.1.0.2.0 Oracle Net Manager 10.1.0.2.0 Oracle Net Manager Patch 10.1.0.5.0 Oracle Net Patch 10.1.0.5.0 Oracle Net Required Support Files 10.1.0.2.0 Oracle Net Required Support Files Patch 10.1.0.5.0 Oracle Notification Service 10.1.3.1.0 Oracle OC4J Module 10.1.3.0.0 Oracle One-Off Patch Installer 10.1.0.5.0 Oracle Process Management Notification 10.1.3.1.0 Oracle Security Developer Tools 10.1.4.0.1 Oracle TopLink Runtime 10.1.3.1.0 Oracle UIX 2.2.20.0.0 Oracle Universal Installer 10.1.0.5.0 Oracle Wallet Manager 10.1.0.2.0 Oracle Wallet Manager Patch 10.1.0.5.0 Oracle XML Query Service 10.1.3.0.0 Oracle XML SQL Utility 10.1.3.1.0 Oracle10g Real Application Clusters Common Files 10.1.0.2.0



Oracle10g Real Application Clusters Common Files Patch 10.1.0.5.0 OracleAS J2EE 10.1.3.0.0 OracleAS Port Tunnel 10.1.3.0.0 OracleAS Welcome Pages 10.1.3.1.0 Parser Generator Required Support Files 10.1.0.2.0 Parser Generator Required Support Files Patch 10.1.0.5.0 Perl Interpreter 5.8.3.0.5 PL/SQL Required Support Files 10.1.0.2.0 PL/SQL Required Support Files 10.1.0.5.0 Platform Required Support Files 10.1.0.2.0 Platform Required Support Files Patch 10.1.0.5.0 Precompiler Required Support Files 10.1.0.2.0 Precompiler Required Support Files Patch 10.1.0.5.0 **RDBMS Required Support Files 10.1.0.2.0 RDBMS Required Support Files Patch 10.1.0.5.0** regexp 2.1.9.0.0 Required Support Files 10.1.0.2.0 Secure Socket Layer 10.1.0.2.0 Secure Socket Layer 10.1.0.2.0 Secure Socket Layer Patch 10.1.0.5.0 SQL*Plus 10.1.0.2.0 SQL*Plus 10.1.0.5.0 SQL*Plus Required Support Files 10.1.0.2.0 SQL*Plus Required Support Files Patch 10.1.0.5.0 SSL Required Support Files 10.1.0.2.0 SSL Required Support Files for InstantClient 10.1.0.2.0 SSL Required Support Files for InstantClient Patch 10.1.0.5.0 SSL Required Support Files Patch 10.1.0.5.0 Sun JDK 1.5.0.0.6 XDK Required Support Files 10.1.3.1.0 XML Parser for Java 10.1.3.1.0

A.2 Oracle Client 10g Release 2 (10.2.0.3.0) Components

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Precompiler Common Files 10.2.0.1.0 Precompiler Common Files Patch 10.2.0.3.0 Precompiler Required Support Files 10.2.0.1.0 Precompiler Required Support Files Patch 10.2.0.3.0 **RDBMS Required Support Files 10.2.0.1.0 RDBMS** Required Support Files for Instant Client 10.2.0.1.0 **RDBMS** Required Support Files for Instant Client Patch 10.2.0.3.0 **RDBMS Required Support Files Patch 10.2.0.3.0** regexp 2.1.9.0.0 Required Support Files 10.2.0.1.0 Secure Socket Layer 10.2.0.1.0 Secure Socket Layer Patch 10.2.0.3.0 SQL*Plus Required Support Files 10.2.0.1.0 SQL*Plus Required Support Files Patch 10.2.0.3.0 SSL Required Support Files for InstantClient 10.2.0.1.0 SSL Required Support Files for InstantClient Patch 10.2.0.3.0 Sun JDK extensions 10.1.2.0.0 XDK Required Support Files 10.2.0.1.0 XDK Required Support Files Patch 10.2.0.3.0

A.3 Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) Components

Oracle Business Intelligence Systems Management Oracle Business Intelligence Server Oracle Business Intelligence Cluster Controller Oracle Business Intelligence Client Oracle Business Intelligence Presentation Services

Annex B Start / Restart Procedure

B.1 Update user.sh

Add the following entries to the user.sh script located in the /space/oracle/product/OBIEE/setup directory (machines 1 and 2):

```
export ORACLE_HOME=/space/oracle/product/10.2.0/client
export TNS_ADMIN=$ORACLE_HOME/network/admin
export PATH=$ORACLE_HOME/bin:/opt/bin:$PATH
export LD_LIBRARY_PATH=$ORACLE_HOME/lib32:$LD_LIBRARY_PATH
```

B.2 Start Order

The environment must be started in the following order:

- Machine 7
- Machines 1 and 2
- Machines 3, 4, 5 and 6

B.3 Start / Restart Procedure

Machines 1 and 2:

```
/space/oracle/product/OBIEE/setup/run-ccs.sh start
/space/oracle/product/OBIEE/setup/run-sa.sh start
/space/oracle/product/OBIEE/setup/run-saw.sh start
```

Machine 3:

```
export ORACLE_HOME=/space/oracle/product/10.2.0/db
export PATH=%ORACLE_HOME%/bin:$PATH
export ORACLE_SID=orcl
lsnrctl start
sqlplus / as sysdba
startup
exit
```

Machine 4:



```
export ORACLE_HOME=/space/oracle/product/10gAS/10g_OIM
export PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$PATH
export ORACLE_SID=oid
lsnrctl start
sqlplus / as sysdba
startup
exit
opmnctl startall
```

Machine 5:

```
export ORACLE_HOME=/space/oracle/product/10gAS/10g_J2EE
export PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$PATH
opmnctl startall
export ORACLE_HOME=/space/oracle/product/10gAS/10g_OHS
export PATH=$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin:$PATH
opmnctl startall
```

Machines 6 and 7 have no specific start procedure – they only requirement is that they are started.

B.4 User Tracking Data Structure change procedure

A correction is required in the Usage Tracking Data Structure to ensure that when a user impersonates another user within the Oracle Business Intelligence, the users are identified in terms of logged on username and impersonating user.

The following steps should be followed **once** after the install on Machine 6 followed by a stop and re-start of machines 1 - 5.

Open the BI Administration Tool by navigating to Start > Programs > Oracle Business Intelligence > Administration





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Enter Administrator password in the Password dialog.

Click Open



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In the Presentation window, click the + next to the "Usage Tracking" folder

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Click on the + next to "Users"



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Right click on "Impersonated User" and click on "Check Out"

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Right click on "Impersonated User" and click on "Rename"



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Type "Impersonating User" and press "Enter"

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Click on the "Check In Changes" button



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Click OK, stop machines 1 -5 and re-start machines 1 - 5.



Annex C Oracle Enterprise Linux 4 Update 5 x86_64

This annex describes the steps required to install the evaluated configuration of Oracle Enterprise Linux 4 Update 5 x86_64. [ECGOEL4] may be read for general guidance when installing Oracle Enterprise Linux.

The information that was supplied by the administrator for each step during the installation of the Oracle Enterprise Linux software for the evaluation of the TOE is indicated in the section below.

C.1 Prerequisites

C.1.1 Packages for the Evaluated Configuration

[ECGOEL4, 2] lists the additional packages required for the evaluated configuration. The kickstart file used for the installation was extracted from the capp-eal4-config-oracle.rpm package.

C.1.2 Common Customizations

Make the following changes to the $ks-x86_{64.cfg}$ kickstart file:

```
keyboard uk
timezone Europe/London
firewall --disabled
selinux -disabled
logvol / --fstype ext3 --name=LvRoot --vgname=$VGNAME --
size=2048 --grow
logvol swap --fstype swap --name=LvSwap --vgname=$VGNAME --
size=2048
```

C.1.3 Customizations for Machines One and Two

For machines one and two add the following packages to the kickstart file:

```
compat-db.i386
compat-libstdc++-33.i386
gnome-libs
libstdc++-devel.i386
sysstat
xscreensaver
```

```
compat-db.x86_64
control-center
libstdc++.i386
openmotif21.i386
xorg-x11-xauth
```

C.1.4 Customizations for Machine Three

For machine three, add the following packages to the kickstart file:



compat-dbcompat-libstdc++-33control-centergnome-libslibaiosysstatxorg-x11-deprecated-libs.i386xorg-x11-xauthxscreensaver

C.1.5 Customizations for Machine Four

For machine four, add the following packages to the kickstart file:

```
compat-db.i386compat-compat-libstdc++-296.i386controlgnome-libsgnome-llibstdc++.i386libstdclibstdc++-devel.x86_64openmotsysstatxorg-x1xscreensaver
```

```
compat-db.x86_64
control-center
gnome-libs-devel
libstdc++-devel.i386
openmotif21.i386
xorg-x11-xauth
```

C.1.6 Customizations for Machine Five

For machine five, add the following packages to the kickstart file:

```
compat-db.i386
compat-libstdc++-296.i386
gdbm-1.8.0-24.i386
libstdc++.i386
openmotif21.i386
xorg-x11-xauth
```

```
compat-db.x86_64
control-center
gnome-libs
libstdc++-devel.i386
sysstat
xscreensaver
```



C.2 Oracle Enterprise Linux 4 Update 5 Installation

The operating system for machines one to five and seven should be installed according to the method described below. Start the machine.

C.2.1 Boot Prompt



At the boot prompt enter 'linux ks=cdrom:/ks-x86_64.cfg method=nfs:172.20.16.1:/stage/oel4u5_x64'.

Click the 'Enter' button.



C.2.2 Configure TCP/IP

Welcome to Enterprise
Configure TCP/IP
Please enter the IP configuration for this machine. Each item should be entered as an IP address in dotted-decimal notation (for example, 1.2.3.4).
[] Use dynamic IP configuration (BOOTP/DHCP)
IP address:
Default gateway (IP):
OK Back
<tab>/<alt-tab> between elements <space> selects <f12> next screen</f12></space></alt-tab></tab>

Deselect 'Use dynamic IP configuration (BOOTP/DHCP)' and enter the required TCP/IP information.



C.2.3 Operating System Settings



Enter the required information or accept the default values.



C.2.4 Create Partitions



Initialize the drive by accepting to erase all data.



C.2.5 Installation

Pao Pao Name : tzdata-2007 Size : 7028k Summary: Timezone dat	e GPL ckage Installat d-1.el4-noarch ta	ion		
Total : Completed: Remaining:	64% Packages 441 11 430	Bytes 1166M 5M 1161M	Time 0:08:14 0:00:02 0:08:11	
	8%			

The operating system and required packages will now be installed.



C.2.6 Common Criteria CAPP Configuration (1)

*** Common Criteria CAPP configuration kickstart ***
Please enter the password for the root account.
Changing password for user root.
New UNIX password:
passwd(pam_unix)181631: password changed for root
passwd: all authentication tokens updated successfully.
Create an administrative user account.
Real name (First Last) [] ? Rizwan Arshad
Userid [rarshad] ?
Changing password for user rarshad.
New UNIX password:
Retype new UNIX password:
passwd(pam_unix)181711: password changed for rarshad
passwd: all authentication tokens updated successfully.
Add more administrative users (y/n) [n] ?

Once the operating system has been installed, the common criteria CAPP configuration script will be executed.

Set a password for the root user and create an administrative user.



C.2.7 Common Criteria CAPP Configuration (2)

Need to install the certification RPM packages: capp-eal4-config-oracle-1.0-1.EL4.noarch.rpm kernel-2.6.9-55.0.0.0.2.EL.x86_64.rpm kernel-smp-2.6.9-55.0.0.0.2.EL.x86_64.rpm kernel-smp-devel-2.6.9-55.0.0.0.2.EL.x86_64.rpm audit-libs-devel-1.0.15-3.EL4.i386.rpm audit-libs-devel-1.0.15-3.EL4.i386.rpm Supply a web URL or a local (absolute) directory name. If you need to mount a device containing the files, enter '!' and RETURN to get a shell prompt. Location [http://oss.oracle.com/el4/eal/] ? ! Starting interactive shell, type 'exit' when done sh-3.00# mkdir /mmt/capp-eal4 sh-3.00# mount /dev/cdrom1 /mmt/capp-eal4 mount: block device /dev/cdrom1 is write-protected, mounting read-only sh-3.00# exit exit Location [http://oss.oracle.com/el4/eal/] ? /mmt/capp-eal4

Enter the location of the certification RPM packages.



C.2.8 Common Criteria CAPP Configuration (3)

*** Update postfix configuration
Sending root mail to members of wheel group: oracle
Archiving /etc/aliases
moving /etc/aliases to /etc/aliases-20080923-1448
running: cp -p /etc/aliases.new /etc/aliases
Archiving /etc/postfix/main.cf
moving /etc/postfix/main.cf to /etc/postfix/main.cf-20080923-1448
runni Complete
<pre>*** C Congratulations, your Enterprise Linux installation is complete.</pre>
**** C Remove any installation media (diskettes or CD-ROMs) used during
Confi the installation process and press <enter> to reboot your system.</enter>
Archi
movin
runni
XXX U Avent
HPCn1
··· · · · · · · · · · · · · · · · · ·
Reconfiguration successful.
It is now necessary to reboot the system. After the reboot.
your sustem configuration will match the evaluated configuration
*** Reboot the sustem
rebooting the system now. Sleeping for 10 seconds
<pre></pre>

Once the operating system has been rebooted the system configuration will match the evaluated configuration.



C.3 Post Installation Steps

The actions **[OS.1]** to **[OS-9]** listed in this section are required for machines one to five before the installation of the TOE can be carried out.

[OS.1] The entry in the file /etc/redhat-release must be modified to:

Red Hat Enterprise Linux AS release 4 (October Update 5)

[OS.2] X11 forwarding is required to run the Oracle GUI programs. Modify the X11Forwarding parameter in the /etc/ssh/sshd_config file:

X11Forwarding yes

Restart sshd:

/etc/init.d/sshd stop
/etc/init.d/sshd start

[OS.3] Add the following lines to the /etc/security/limits.conf file to increase the shell limits:

oracle	soft	nproc	2047
oracle	hard	nproc	16384
oracle	soft	nofile	2048
oracle	hard	nofile	65536

[OS.4] The following line must be present in the file /etc/pam.d/login:

session required /lib64/security/pam_limits.so

[OS.5] An operating system group, which will be used by the Oracle software owner, must be created before installing the TOE. Any legal name can be used for this group, but the convention is to use oinstall. The oinstall group can be created using the command:

\$ /usr/sbin/groupadd oinstall



[OS.6] An operating system user that will be the Oracle software owner must be created before installing the TOE. The standard name used is oracle. When creating the user a primary group is required. The primary group should be oinstall. The oracle user can be created using the command:

\$ /usr/sbin/useradd -g oinstall oracle

Set the oracle users password with the following command:

\$ passwd oracle

[OS.7]

Add the following lines to the oracle users .bash_profile file:

```
if [ $USER = "oracle" ]; then
    if [ $SHELL = "/bin/ksh" ]; then
        ulimit -p 16384
        ulimit -n 65536
    else
        ulimit -u 16384 -n 65536
    fi
fi
```

[OS.8] Create the installation directories and set the appropriate owner and group permissions on the directories using the following commands:

```
mkdir -p /space/oracle (machines 1 to 5)
mkdir -p /space/oracle/product/OBIEE (machines 1, 2 and 5)
chown -R oracle:oinstall /space
```

[OS.9] In the evaluated configuration, the software to be installed is made available through NFS. Issue the following commands as the root user:

```
/sbin/chkconfig --level 3 portmap on
/sbin/chkconfig --level 3 netfs on
/etc/init.d/portmap start
/etc/init.d/netfs start
mkdir -p /mnt/software
mount sagfslt.saglab.uk.oracle.com:/vol/KITS \
/net/sagfslt/vol/KITS
```

To permanently enable the NFS share, add the following line to the /etc/fstab file:



sagfslt.saglab.uk.oracle.com:/vol/KITS /net/sagfslt/vol/KITS \backslash nfs defaults 0 0



Annex D Oracle SOA Suite 10g Release 3 (10.1.3.1.0) Installation

This annex provides a step by step guide to installing Oracle SOA Suite 10g (10.1.3.1.0) in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2), running on the Oracle Enterprise Linux Version 4 Update 5 operating system.

D.1 Prerequisites

As the root user add the following entries to the /etc/sysctl.conf file:

```
kernel.shmall = 2097152
kernel.shmmax = 2147483648
kernel.shmmni = 4096
# semaphores: semmsl, semmns, semopm, semmni
kernel.sem = 256 32000 100 142
fs.file-max = 131072
net.ipv4.ip_local_port_range = 1024 65000
kernel.msgmni = 2878
kernel.msgmax = 8192
kernel.msgmnb = 65535
net.core.rmem_default = 262144
net.core.rmem_max = 262144
net.core.wmem_default = 262144
```

Use the following command to change the current values of the kernel parameters:

/sbin/sysctl -p

D.2 Input Parameters

The software installer will require the following input parameters for successful completion of the software installation. The values for these parameters should be gathered prior to starting the installation.

The following table should be completed with the insertion of the values to be used for the current installation into the 'Installation Value' column. The 'Example Value' column shows the values used in the example screenshots demonstrating the install process.

Pre-installation table matrix



Parameter Name	Installation Value	Example Value
Path		/space/oracle/product/10gAS/10g J2EE
Inventory Path		/space/oracle/oraInventory
Tu at an an Mana		10-10
Instance Name		IUGAS_UZEE
oc4jadmin Password		oracle1

D.3 Installation of Oracle SOA Suite 10g Release 3 (10.1.3.1.0)

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed – in the Evaluated Configuration used to derive the screenshots given in this document, this was /net/sagfs1t/vol/KITS/Software/ApplicationServer/10.1.3.3-SOA/install

The following requirement must be performed prior to starting the Oracle Universal Installer. Enable 32-bit emulation mode by running the following command:

linux32 bash

As the oracle user set the ORACLE_BASE environment variable:

```
export ORACLE_BASE=/space/oracle
```

Start the Oracle Universal Installer as follows:

./runInstaller

The monitor pre-requisite check will fail as the /usr/X11R6/bin/xdpyinfo command is not available in the evaluated configuration of Oracle Enterprise Linux 4 Update 5. Ignore this error by entering **'Y'** when prompted to continue.

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle SOA Suite 10g (10.1.3.1.0).



D.3.1 Installation

Installation Directory : /s	pace/oracle/produc	t/10gAS/10g_J2EE	Browse)	
C Basic Install —				
nstalls J2EE server and the SO	A Suite of application	ns including BPEL, ESB	and OWSM.	
AS Instance Na <u>m</u> e :				
AS Administrator Username :	oc4jadmin			
AS Administrator Password :		Confirm Password	-	
Database Type :	Oracle Database			
Note: ORAWSM, ORABPEL and ORA	ESB schemas should	be created before insta	llation.	
Advanced Install				

Enter the 'Installation Value' for the parameter **'Path'** specified in the preinstallation table matrix into the **'Installation Directory'** field.

Click the 'Advanced Install' radio button.

Click Next.



Click Yes.



D.3.2 Inventory

specify inventory unectory	and credentials	
You are starting your first installation on this ho directory for installer files. This is called the "inv installer automatically sets up subdirectories for consume typically 150 Kilobytes per product.	st. As part of this install, you need to rentory directory". Within the invento r each product to contain inventory o	o specify a ry directory, the data and will
Enter the full path of the inventory girectory.		
/space/oracle/orainventory		Browse
population determined by		
You can specify an Operating System group that You can leave the field blank if you want to perf	t has write permission to the above i form the above operations as a Supe	inventory directory. eruser.
You can specify an Operating System group that You can leave the field blank if you want to perf Specify Operating System group name:	t has write permission to the above i form the above operations as a Supe	inventory directory. eruser.
You can specify an Operating System group that You can leave the field blank if you want to perf Specify Operating System group name: oinstall	t has write permission to the above form the above operations as a Supe	inventory directory. eruser.
You can specify an Operating System group that You can leave the field blank if you want to perf Specify Operating System group name: oinstall	t has write permission to the above i 'orm the above operations as a Supe	inventory directory. eruser.

Enter the 'Installation Value' for the parameter 'Inventory Path' specified in the pre-installation table matrix into the 'Inventory Directory' field.

Accept the default setting of **'oinstall'** for the Operating System group name.



D.3.3 Configuration Script (1)

Oracle Universal Installer (on vm6.saglab.uk.o X)
Certain actions need to be performed with root privileges before the install can continue. These actions are stored in a shell script named /space/oracle/oralnventory/orainstRoot. sh.
Please execute the /space/oracle/oralnventory/orainstRoot. sh script now from another window, then click "Continue" to continue the install.
Help Continue Cancel

As the root user execute the script mentioned in the dialog. The script will output the following:



When the script has completed return to the Oracle Universal Installer dialog window and click Continue.



D.3.4 Installation Type



Click the 'J2EE Server and Web Server (662MB)' radio button.



D.3.5 Prerequisite Checks

The installer will now verify that the system meets all the min configuring the chosen product. You are required to manual flagged as warnings or manual checks. For details on perforr	imum requirement y verify and confirn ning those checks,	s for n the click	r installing and e items that are < on the item and
Check	Туре		Status
Checking security kernel parameters	Automatic	R	Succeeded
Checking recommended operating system packages	Automatic		Succeeded
Checking glibc installed on the system	Automatic		Succeeded
Validating ORACLE_BASE location (if set)	Automatic		Succeeded
(4)	24. 		D
0 requirements to be verified.			Retry Stop
Check complete. The overall result of this check is: Passed			

Ensure that all the product-specific prerequisite checks have a status of 'Succeeded'.



D.3.6 Port Configuration

Oracle U	iversal Installer: Specify Port Configuration Options (on vm5.saglal 🗕 🛛
Specify	Port Configuration Options
Select the r you decide a text file a Configure F	nethod which you want to use to configure the ports for Oracle Application Server 10g. If to manually configure the ports, then you must specify the port numbers for each port in nd enter the filename below. orts
Automation	
C Manual:	
/space/or	cle/product/10gAS/10g_J2EE/staticports.ini Browse
Help	Installed Products Back Next Install Cancel
ORACI	.E'

Click the 'Automatic' radio button.



D.3.7 Administration Settings

dracle Universal Installer: Adr	ministration Settings (on vm6.saglab.uk.oracle. 💶 🗙
Administration Setting	gs
AS Administrator Settings	
Specify the administration settings for	r this Oracle Application Server instance.
AS Instance Name:	10gAS_J2EE
AS Administrator Username:	oc4jadmin
AS Administrator Password:	*****
Confirm AS Administrator Password:	******
Configure this as an Administration	0C4J instance
COC4J Instance Naming	
You can specify the name of the defa	ult OC4J instance that is created by the installer.
OC4J Instance Name: home	-
Help Installed Products	Back Next Install Cancel
ORACLE	

Enter the 'Installation Value' for the parameter **'Instance Name'** specified in the pre-installation table matrix into the **'AS Instance Name'** field.

Enter the 'Installation Value' for the parameter 'oc4jadmin Password' specified in the pre-installation table matrix into the 'AS Administrator Password' and 'Confirm AS Administrator Password' fields.

Tick the 'Configure this as an Administration OC4J instance' check box.

Accept the default setting for 'OC4J Instance Name'.



D.3.8 Cluster Topology

😿 Oracle Universal Installer: Cluster Topology Configuration (on vm6.saglab.uk 🗕 🗙
Cluster Topology Configuration
Configure this instance to be part of an Oracle Application Server cluster topology Specify the Oracle Application Server cluster discovery address IP Address Port Example 225.0.0.1:6789
Tip: This is the multicast address shared by all nodes within the cluster.
Tip: Cluster topology configuration does not have to be done during the installation. It can be done post-installation.
Help Installed Products Back Next Install Cancel
ORACLE

Accept the default settings.



D.3.9 Summary

C	Dracle Universal Installer: Summary (on vm5.saglab.uk.oracle.com)
Sum Oracl	mary e Application Server SOA Suite 10.1.3.1.0
⊖-Glo	bal Settings
1-5	Source: /net/sagfs1t/vol/KITS/Software/ApplicationServer/10.1.3.3-SOA/install/stage/product
	Oracle Home: /space/oracle/product/10gAS/10g_J2EE (oracleas1)
	installation Type: J2EE Server and Web Server
⊖ -Pro	duct Languages
Le	English
∲ -Spa	ice Requirements
L,	/ Required 713MB (includes 50MB temporary) : Available 13.50GB
-Nev	v Installations (120 products)
-	Agent Required Support Files 10.1.0.2.0
-/	Agent Required Support Files Patch 10.1.0.5.0
-/	Apache Module for Oracle Distributed Authoring and Versioning 10.1.2.1.0
-/	Assistant Common Files 10.1.0.2.0
L	Assistant Common Files Patch 10.1.0.5.0
on -	
Help	D Installed Products) Back Next (Install) Cancel
OR	ACLE

Click Install.


D.3.10 Install

Oracle Universal Installer: Install (on vm5.saglab.	uk.oracle.com) –
Install	
Installation in progress	
Link pending Setup pending Configuration pending	Oracle Application Server is: • Easy to install and configure • Easy to manage and secure • Simple, fast, and flexible
2%	
(Stop installation)	
You can find a log of this install session at: /space/oracle/oralnventory/logs/installActions2008-06-24_01-23-34PM.lo	9
Help Installed Broducts Back Next	(Install) (Cancel
ORACLE	



D.3.11 Configuration Script (2)



As the root user execute the script mentioned in the dialog. The script will output the following:

```
[root@vm3 ~]# /oracle/product/10gAS/10g_J2EE/root.sh
Running Oracle10 root.sh script...
\nThe following environment variables are set as:
   ORACLE_OWNER= oracle
   ORACLE_HOME= /oracle/product/10gAS/10g_J2EE
Enter the full pathname of the local bin directory:
[/usr/local/bin]:
  Copying dbhome to /usr/local/bin ...
  Copying oraenv to /usr/local/bin ...
  Copying coraenv to /usr/local/bin ...
\nCreating /etc/oratab file...
Adding entry to /etc/oratab file...
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
[root@vm3 ~]#
```

When the script has completed return to the 'Setup Privileges' dialog box and click OK.



D.3.12 Configuration Assistants

Configuration Assistants	start the compone	ents vou selected earlier.
Tool Name	Status	Туре
C Oracle Application Server Configuration Assistant	Succeeded	Optional
Oracle Process Management and Notification Configuration	guin progress	Recommended
🔽 Oracle Web Services Inspection Language Configura	ati Pending	Recommended
		Betry Stop
Details (see full log at /space/oracle/oralnventory/logs	/installActions2008	Betry Stop 3-06-24_01-23-34PM.log):
Details (see full log at /space/oracle/oralnventory/logs Launching /space/oracle/product/10gAS/10g_J2EE/op opmnctl: opmn is already running. start status 0 Launching /space/oracle/product/10gAS/10g_J2EE/op opmnctl: stopping opmn managed processes	/installActions2008 omn/bn/opmnctl st omn/bin/opmnctl s	Betry Stop 3-06-24_01-23-34PM.log): tart topproc
Details (see full log at /space/oracle/oralnventory/logs Launching /space/oracle/product/10gAS/10g_J2EE/op opmnctl: opmn is already running. start status 0 Launching /space/oracle/product/10gAS/10g_J2EE/op opmnctl: stopping opmn managed processes Help) Installed Products Back	/installActions2008 mm/bn/opmnctl st omn/bin/opmnctl s Next	Betry Stop 3-06-24_01-23-34PM.log): tart topproc Install Cancel

The Oracle Universal Installer will run some configuration assistants.



D.3.13 End of Installation



Oracle SOA Suite 10g Release 3 (10.1.3.1.0) is now installed.

Click Exit.



Annex E Oracle Database 10g Client Release 2 (10.2.0.3.0) Installation

This annex provides a step by step guide to installing Oracle Database 10g Client Release 2 (10.2.0.3.0) in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2), running on the Oracle Enterprise Linux Version 4 Update 5 operating system.

E.1 Prerequisites

Oracle SOA Suite 10g Release 3 (10.1.3.1.0) must be installed before proceeding with the Oracle Client installation. Annex D describes the steps needed to install Oracle SOA Suite.

E.2 Input Parameters

The Oracle Database 10g Client Release 2 (10.2.0.3.0) software installer will require the following input parameters for successful completion of the software installation. The values for these parameters should be gathered prior to starting the installation.

The following table should be completed with the insertion of the values to be used for the current installation into the 'Installation Value' column. The 'Example Value' column shows the values used in the example screenshots demonstrating the install process.

Parameter Name	Installation Value	Example Value
Home		10g_10_2_0_CLIENT
Path		/space/oracle/product/10.2.0/client

Pre-installation table matrix



E.3 Oracle Database 10g Client Release 2 (10.2.0.1.0) Installation

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was /net/sagfslt/vol/KITS/Software/Database/Linux/10.2.0.1/client).

Start the Oracle Universal Installer as follows:

./runInstaller

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle Database 10g Client Release 2 (10.2.0.1.0).



E.3.1 Installation Method

Select Installation Basic Installation Perform full Oracle Database input.This option uses file sys	Method 10g installation with standard configuration options requir tem for storage, and a single password for all database a	ring minimal ccounts.
Oracle Home Location:	/space/oracle/oracle/product/10.2.0/db_2	Browse)
Installation Type:	Enterprise Edition (1.3GB)	
UNIX DBA Group:	wheel	~
🖾 Create Starter Datab	ase (additional 720MB)	
Global Database Na	ume: orcl	
Database Password	Confirm Password:	
This pa:	ssword is used for the SYS, SYSTEM, SYSMAN, and DBSNMP acco	unts.
Advanced Installation Allows advanced selections si	uch as different passwords for the SYS, SYSTEM, SYSMAN, set, product languages, automated backups, custom inst	and DBSNMP allation, and

Click the 'Advanced Installation' radio button.



E.3.2 Installation Type

🛣 Oracle Universal Installer: Select Installation Type (on vm1.saglab.uk.oracle.c 🗕 🗙
Select Installation Type Oracle Client 10.2.0.1.0	
What type of installation do you want? C InstantClient (99MB) Installs Instant Client software.	
C Administrator (1.12GB) Installs the management console, management tools, networking servi	ces, util, basic client software.
C Runtime (771MB) Installs tools for developing applications, networking services and bas	ic client software.
Custom	
Enables you to choose individual components to install.	
	Product Languages)
Help Installed Products Back Nex	t (Install Cancel)
ORACLE	

Click the 'Custom' radio button.



E.3.3 Home Details

phee	cify Home Details			
esti	nation			
nter o	or select a name for the installation and the full path where you	want to install th	ne p	product.
ame:	10g_10_2_0_CLIENT		•	
ath:	/space/oracle/product/10.2.0/client		-	Browse

Enter the 'Installation Value' for the parameter 'Name' specified in the preinstallation table matrix into the 'Name' field.

Enter the 'Installation Value' for the parameter **'Path'** specified in the preinstallation table matrix into the **'Path'** field.



E.3.4 Product Components

Available Product Components Oracle Client The following are components that you can install as part of Oracle	Client. Which of these co	mponents
do you want to install?	Install Status	-
SQL*Plus 10.2.0.1.0	Not Installed	
Oracle JDBC/THIN Interfaces 10.2.0.1.0	Not Installed	
Oracle Internet Directory Client 10.2.0.1.0	Not Installed	
Oracle Call Interface (OCI) 10.2.0.1.0	NewInstall	
Oracle Programmer 10.2.0.1.0	Not Installed	
Oracle XML Development Kit 10.2.0.1.0	Not Installed	
😰 Oracle Advanced Security 10.2.0.1.0	New Install	
Enterprise Manager 10g Java Console 10.2.0.1.0	Not Installed	
OLAP Analytic Workspace Manager and Worksheet 10.2.0.1.0	Not Installed	
☑ Oracle Net 10.2.0.1.0	New Install	
Tomate Second de Class outra 10 201 0	A1.44 (11.44)) + 4	
Show all components, including required dependencies.		
Help Installed Products Back Next		Cancel

Select the 'Oracle Call Interface (OCI) 10.2.0.1.0' and 'Oracle Advanced Security 10.2.0.1.0' components. The 'Oracle Net 10.2.0.1.0' is a required component of Oracle Advanced Security and will also be selected.



E.3.5 Prerequisite Checks

Oracle Universal Installer: Product-Specific	Prerequisite Checl	ks (on vml.sag 🗕
Product-Specific Prerequisite C	hecks	
The Installer verifies that your environment meets all of configuring the products that you have chosen to install, items that are flagged with warnings and items that requ performing these checks, click the item and review the	the minimum requireme You must manually veri uire manual checks. For details in the box at the	nts for installing and fy and confirm the details about bottom of the window.
Check	Type	Status
Checking for Oracle Home incompatibilities	Automatic	☑ Succeeded
Checking Oracle Home path for spaces	Automatic	🖾 Succeeded 🚽
[4]	60083.	D
		Retry Stop
o requirements to be verified.		
Check complete. The overall result of this check is: Pas:	sed 	A
		¥
Help Installed Products Back	Next in	istall Cancel
ORACLE"		

Make sure that there are '0 requirements to be verified'.



E.3.6 Summary



Click the **'Install'** radio button.



E.3.7 Install

	.saglab.uk.oracle.com) _
Install	
Installing Oracle Client 10.2.0.1.0	
FI Installation in progress	Oracle Database 10g:
Link pending	Virtualization at every layer
Setup pending	Policy-based provisioning
Configuration pending	Resource pooling
Extracting files to '/space/oracle/product/10.2.0/client'.	
Extracting files to '/space/oracle/product/10.2.0/client'. 3%	_
Extracting files to '/space/oracle/product/10.2.0/client'. 3% Stop installation	
Extracting files to '/space/oracle/product/10.2.0/client'. 3% Stop installation	1
Extracting files to '/space/oracle/product/10.2.0/client'. 3% Stop installation You can find a log of this install session at: /space/oracle/oralnventory/logs/installActions2008-06-25_01-5	55-21PM.log
Extracting files to '/space/oracle/product/10.2.0/client'. 3% Stop installation You can find a log of this install session at: /space/oracle/oralnventory/logs/installActions2008-06-25_01-5	55-21PM.log



E.3.8 Configuration Assistants

onfiguration Assistants		
configuration Assistants		
he following configuration assistants will configu	re and start the componen	ts you selected earlier.
Tool Name	Status	Type
Oracle Client		
Oracle Net Configuration Assistant	In progress	Recommended
		Betry Stop
etails (see full log at /space/oracle/oralnventor	y/logs/installActions2008-	Betry Stop 06-25_01-55-21PM.log):
etails (see full log at /space/oracle/oralnventor Parameter "nodeinfo" = NO_VALUE Parameter "responsefile" = /space/oracle/pro one parsing command line arguments. racle Net Services Configuration:	y/logs/installActions2008- oduct/10.2.0/client/networ	Betny Stop 06-25_01-55-21PM.log): rk/install/netca_clt.rsp
etails (see full log at /space/oracle/oralnventor Parameter "nodeinfo" = NO_VALUE Parameter "responsefile" = /space/oracle/pro one parsing command line arguments. racle Net Services Configuration:	y/logs/installActions2008- oduct/10.2.0/client/networ	Betry Stop 06-25_01-55-21PM.log): rk/install/netca_clt.rsp



E.3.9 Net Configuration Assistants



Tick the **'Perform typical configuration'** check box.

Click Next.

Welcome to the Oracle Net Configuration Assistant. To access a database service or other type of service, you use a connect identifier. The Assistant has determined that your client can use the easy connect naming method for identifying the database you want to access. With easy connect naming, you use the host, port(optional), and service name of the database as the connect identifier. Click Help for more information about connecting to a database using easy connect.



Oracle Net Configuration Assistant: Done (on vml.saglab.uk.oracle _ I X
Variable Var
Cancel Help

Click Finish.



E.3.10 Configuration Scripts

The OUI will request a configuration script to be executed as the root user:

Exe	cute Configuration scripts	(on vml.saglab.uk.oracle.com)	×
The follov Scripts to	ving configuration scripts need to b be executed:	e executed as the "root" user.	
Number	Script Location		
1	/space/oracle/product/10.2.0/cl	ient/root.sh	
<u>e</u>			F
To execut 1. Ope 2. Log 3. Run	te the configuration scripts: in a terminal window in as "root" the scripts		
H		OK	D

As the root user run the /space/oracle/product/10.2.0/client/root.sh script. Do NOT overwrite existing files. The script will output the following:

```
[root@vml oracle]# /space/oracle/product/10.2.0/client/root.sh
Running Oracle10 root.sh script...
The following environment variables are set as:
   ORACLE_OWNER= oracle
   ORACLE_HOME= /space/oracle/product/10.2.0/client
Enter the full pathname of the local bin directory:
[/usr/local/bin]:
The file "dbhome" already exists in /usr/local/bin. Overwrite
it? (y/n)
[n]:
The file "oraenv" already exists in /usr/local/bin. Overwrite
it? (y/n)
[n]:
The file "coraenv" already exists in /usr/local/bin. Overwrite
it? (y/n)
[n]:
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
[root@vm1 oracle]#
```



E.3.11 End of Installation

😿 Oracle Universal Installer: End of Installation (on vm1.saglab.uk.oracle.com) 🗕 🗙
End of Installation
The installation of Oracle Client was successful.
Help Installed Products Back Next Install Exit
ORACLE

The installation of Oracle Database 10g Client Release 2 (10.2.0.1.0) is now complete.



E.4 Oracle Database 10g Client Release 2 (10.2.0.3.0) Installation

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was /net/sagfslt/vol/KITS/Software/Database/Linux/10.2.0.3/Linux/Di sk1

Start the Oracle Universal Installer as follows:

./runInstaller

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle Database 10g Client Release 2 (10.2.0.3.0).

E.4.1 Welcome Screen

Oracle Universal Installer: Welcome (on vm6.saglab.uk.oracle.com)	- ×
Welcome	
The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.	
Click "Installed Products" to see all installed products.	
Deinstall Products	
About Qracle Universal Installer)
Help Installed Products Back Next Install Cancel	
ORACLE	



E.4.2 Home Details



Select the 'Name' entered during the previous installation from the select list.



E.4.3 Summary



Click the **'Install'** button.



E.4.4 Install

📓 🔹 Oracle Universal Installer: Install (on vm2.saglab.ul	k.oracle.com) 📃 🗙
Install Installing Oracle Database 10g Release 2 Patch Set 2 10.2.0.3.0 Deinstall successful Copying files for 'Java Runtime Environment 1.4.2.8.0 ' Link pending Setup pending Configuration pending	Oracle Database 10g: The Database for the Grid • Virtualization at every layer • Policy-based provisioning • Resource pooling
5%	
(Stop installation)	1
You can find a log of this install session at: /space/oracle/oralnventory/logs/installActions2008-06-25_02-12-13PM.log	
Help Installed Products Back Next ORACLE	Install Cancel



E.4.5 End of Installation

🥁 Oracle Uni	versal Installer: End of Installation (on vm2.saglab.uk.oracle.com) 🗕 🗙
End of I	nstallation
The install successful.	ation of Oracle Database 10g Release 2 Patch Set 2 was
	Installed Products) Back Next Install (Exit

The installation of Oracle Database 10g Client Release 2 (10.2.0.3.0) is now complete.



E.5 OPatch 10.2.0.4.3

OPatch is delivered through patch 6880880. Issue the following commands:

```
export ORACLE_HOME=/space/oracle/product/10.2.0/client
export PATH=$ORACLE_HOME/OPatch:$PATH
cd $ORACLE_HOME
mv OPatch OPatch.102030
```

Extract the patch p6880880_102000_Linux-x86-64.zip to the client ORACLE_HOME:

unzip <path-to>/p6880880_102000_Linux-x86-64.zip

Verify that OPatch has been updated by issuing the command:

opatch version

The result should be:

```
Invoking OPatch 10.2.0.4.3
OPatch Version: 10.2.0.4.3
OPatch succeeded.
```

E.6 Patch 5240469

Patch 5240469 is required to correct a problem that will occur during the application of CPU April 2007². It should be applied prior to the application of CPU April 2007. Change directory to the location of the extracted patch and apply it using OPatch by issuing the following command:

opatch apply

² Refer to MetaLink note 417319.1 for further information.



At the 'Is the local system ready for patching? [y/n]' prompt enter: 'Y'.

Oracle Configuration Manager (OCM) is bundled with OPatch and must be configured during the OPatch session:

At the 'stop displaying the license agreement' prompt enter: 'q'.

At the 'License Agreement' prompt enter: 'Y'.

At the 'Proxy specification' prompt enter: 'NONE'.

OCM will be installed and configured and patch 5240469 will be installed.

Successful patch application will be indicated by:

The local system has been patched and can be restarted.

OPatch succeeded.

E.7 Critical Patch Update April 2007

Change directory to the location of the extracted patch and issue:

opatch apply

At the 'Is the local system ready for patching? [y/n]' prompt enter: 'Y'.

Successful patch application will be indicated by:

```
Return Code = 0
The local system has been patched and can be restarted.
OPatch succeeded.
```



Annex F Oracle Database 10g Release 2 (10.2.0.3.0) Installation

[ECGDB] describes the steps required to install Oracle Database 10g Release 2 (10.2.0.3.0) in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2), running on Oracle Enterprise Linux 4 Update 5 operating system.

This annex and [ECGDB] should be followed to install Oracle Database 10g Release 2 (10.2.0.3.0) on machine 3 in the following manner:

The operating system shall be installed according to annex C and replaces **[OS.1]** in [ECGDB, 3] when installing the operating system for Oracle Database 10g Release 2 (10.2.0.3.0). Although Oracle Enterprise Linux 4 Update 5 is not listed in [ECGDB, 3] it has met Common Criteria security requirements for assurance level EAL 4.

Perform the additional tasks from [ECGDB, 5.2.1.1].

Install Oracle Database 10g Release 2 (10.2.0.1.0) Enterprise Edition according to [ECGGB, 5.2.3].

Install Oracle Database 10g Release 2 (10.2.0.3.0) Enterprise Edition according to [ECGGB, 5.3].

Install OPatch according to Annex F.5.

Install patch 5240469 according to Annex F.6.

Install Critical Patch Update April 2007 according to [ECGDB, 5.4].

Setup the evaluated configuration of Oracle Database 10g Release 2 (10.2.0.3.0) according to [ECGDB, 5.5].



Annex G Oracle Internet Directory 10g (10.1.4.0.1) Installation

[ECGOID] describes the steps required to install Oracle Internet Directory 10g (10.1.4.0.1) in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2), running on a Oracle Enterprise Linux 4 Update 5 operating system.

This annex and [ECGOID] should be followed to install Oracle Internet Directory 10g (10.1.4.0.1) on machine 4 with the following modifications:

The operating system shall be installed according to annex C and replaces **[DI.PRE-1]** in [ECGOID, 3] when installing the operating system for Oracle Internet Directory 10g (10.1.4.0.1).

[OS.2] – [OS.4] in annex C must be performed.

[DI.PRE-2] in [ECGOID, 3] must be performed. Use the following command to change the current values of the kernel parameters:

/sbin/sysctl -p

[OS.6] – **[OS.8]** in annex C replaces **[DI.PRE-3]** in [ECGOID, 3] when creating the operating system group and user required for the installation.

[**DI.PRE-4**] must be performed.

The following requirement replaces **[DI.PRE-5]** in [ECGOID, 3] when configuring the firewall on the server machine:

[DI.PRE-5x] As the root user, issue the following command to setup the firewall:

/usr/bin/system-config-securitylevel-tui

The command will open the Firewall Configuration application:





Enable the firewall by clicking the space bar. Tab to "Customize" and click Enter.



Tab to "Other ports" and enter "ldap:tcp". Tab to "OK" and click Enter.





Tab to "OK" and click Enter.

Restart the firewall using the following command:

/sbin/service iptables restart

The following requirement must be performed prior to starting the Oracle Universal Installer in [ECGOIDIG, 2]:

Enable 32-bit emulation mode by running the following command:

linux32 bash

Start the Universal Installer according to [ECGOIDIG, 2]. The monitor prerequisite check will fail as the /usr/X11R6/bin/xdpyinfo command is not available in the evaluated configuration of Oracle Enterprise Linux 4 Update 5. Ignore this error by entering **'Y'** when prompted to continue.

Setup the evaluated configuration of Oracle Internet Directory 10g (10.1.4.0.1) according to [ECGOID, 4].

The following requirement supplements **[DI.POST-4]** in [ECGOID, 3] when setting the password policy for OID:



[DI.POST-4x]The directory administrator must modify the password policy for each user that can access OID using the following LDIF file:

```
dn: cn=ECDPwdPolicy,cn=pwdPolicies,cn=Common,cn=Products,cn=OracleContext
changetype: modify
replace: pwdLockOut
pwdLockOut: 1
dn: cn=ECDPwdPolicy,cn=pwdPolicies,cn=Common,cn=Products,cn=OracleContext
changetype: modify
replace: pwdCheckSyntax
pwdCheckSyntax: 1
```



Annex H Oracle HTTP Server 10g Release 2 (10.1.2.0.2) Installation

[ECGHTTP] describes the steps required to install Oracle HTTP Server 10g Release 2 (10.1.2.0.2) in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2), running on a Oracle Enterprise Linux 4 Update 5 operating system.

This annex and [ECGHTTP] should be followed to install Oracle HTTP Server 10g Release 2 (10.1.2.0.2) on machine 5 with the following modifications:

The operating system shall be installed according to annex C and replaces **[HS.SS-1]** in [ECGHTTP, 3] when installing the operating system for Oracle HTTP Server 10g Release 2 (10.1.2.0.2).

The following requirement replaces **[HS.PRE-1]** in [ECGHTTP, 4]. As the root user modify the following entries in the /etc/sysctl.conf file:

```
kernel.shmmax = 4294967295
fs.file-max = 206173
```

Use the following command to change the current values of the kernel parameters:

/sbin/sysctl -p

The following requirement must be performed prior to starting the Oracle Universal Installer in [ECGHTTP, 5]:

Enable 32-bit emulation mode by running the following command:

linux32 bash

As the oracle user set the ORACLE_BASE environment variable to specify the Oracle base directory:

export ORACLE_BASE=/space/oracle

Start the Universal Installer according to [ECGHTTP, 5]. The monitor prerequisite check will fail as the /usr/X11R6/bin/xdpyinfo command is not available in the evaluated configuration of Oracle Enterprise Linux 4 Update 5. Ignore this error by entering **'Y'** when prompted to continue.



Setup the evaluated configuration of Oracle HTTP Server 10g Release 2 (10.1.2) according to [ECGHTTP, 4.2].

The following requirement replaces [HS.POST-3] in [ECGHTTP, 4.2]:

When setting the read access on web resources the following directive must be used:

```
<Directory />
<LimitExcept POST GET>
Deny from all
</LimitExcept>
</Directory>
```

In place of:

```
<Directory />
<LimitExcept GET>
Deny from all
</LimitExcept>
</Directory>
```



Annex I Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Installation

This chapter provides a step by step guide to installing Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406, running on an Oracle Enterprise Linux 4 Update 5 operating system.

I.1 Prerequisites

Oracle SOA Suite 10g Release 3 (10.1.3.1.0) installed according to Annex D.

Oracle Client 10g Release 2 (10.2.0.3.0) installed according to Annex F.

I.2 Input Parameters

The software installer will require the following input parameters for successful completion of the software installation. The values for these parameters should be gathered prior to starting the installation.

The following table should be completed with the insertion of the values to be used for the current installation into the 'Installation Value' column. The 'Example Value' column shows the values used in the example screenshots demonstrating the install process.

Parameter Name	Installation Value	Example Value
BI Home		/space/oracle/product/OBIEE
BI Data Home		/space/oracle/oradata/OBIEE
AS Home		/space/oracle/product/10gAS/10g_J2EE
oc4jadmin Password		oracle1

Pre-installation table matrix



I.3 Installation of Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was /net/sagfs1t/vol/KITS/Software/BusinessIntelligence/10.1.3.3.2/Linux/RH_Lin ux/Server/Oracle_Business_Intelligence

Issue the following command to verify the machine is configured correctly:

\$./UnixChk.sh /space/oracle/product/OBIEE

The script should return the following result:

```
SUCCESS!! - This machine is configured for Oracle BI EE 10.1.3.3.2
```

If the pre-installation step is successful start the Oracle Business Intelligence (10.1.3.3.2) with Quick Fix 090406 Installer as follows:

```
$ ./setup.sh
```

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406.



I.3.1 Information

MPORTANT!!! The compl space.	ete installed Oracle B	81 EE suite requires at	least 2.5 GB of free of	disk
At least 200 MB of free d Oracle BI EE.	isk space in the /tmp	and /var/tmp direct	ories is required for i	nstalling



I.3.2 Installation Location

rowse or Enter the Installation Location: space/oracle/product/OBIEE rowse or Enter the Data Location:	
space/oracle/product/OBIEE rowse or Enter the Data Location:	
rowse or Enter the Data Location:	1
rowse of Enter the Data Location.	Browse
space/pracle/pradata/OBIEE	
elect the Installation Type:	Browse
) Basic: Minimum security. Installs Oracle Containers for J2EE (OC4J).	
	Contraction of the second s

Enter the 'Installation Value' for the parameter **'BI Home'** specified in the preinstallation table matrix into the **'Installation Location'** field.

Enter the 'Installation Value' for the parameter **'BI Data Home'** specified in the pre-installation table matrix into the **'Data Location'** field.

Click the 'Advanced: Enhanced security. Requires Oracle Application Server 10.1.3.1.0 or greater' radio button.


I.3.3 Product Components

Only presentation services components will be installed. (Includes Oracle Intelligence Presentation Services, Presentation Services Plug-in, BI Office, Management.)) Oracle Business Intelligence Client Tools	Business Systems
) Oracle Business Intelligence Client Tools	
Contractions and a state will be installed. Restudes Oracle Designed Intelligence	-
Tools.)	ence Client
Oracle Business Intelligence Publisher Oracle Business Intelligence Publisher will be installed.	
Custom	

Scroll down the page on the menu to the bottom. Click the **'Custom'** radio button.



I.3.4 Product Features

Oracle B	usiness Intelligence		
- [] 0	acle Business Intelligence JDBC Driver		
- M 0	acle Business Intelligence Systems Managemer	it	
- 0	acle Business Intelligence Server		
- I O	racle Business Intelligence Cluster Controller		
- 0	acle Business Intelligence Scheduler		
- 🗹 0	acle Business Intelligence Client		
- 🗹 0	acle Business Intelligence Presentation Service	1	
- 🗆 0	acle Business Intelligence Presentation Service:	Plug-in and BI Office	
- 0	acle Business Intelligence Publisher		

Deselect the following features:

- Oracle Business Intelligence JDBC Driver
- Oracle Business Intelligence Scheduler
- Oracle Business Intelligence Presentation Services Plug-in and BI Office
- Oracle Business Intelligence Publisher



I.3.5 Application Server Location

Oracle Application Server	10.1.3.1.0 or greater is required.	
Browse or Enter the Oracl	e Application Server Location (ORACLE_HOME):	
/space/oracle/product/1	0gAS/10g_J2EE	
		Browse
Administrator username:	oc4jadmin	
Administrator password:	****	
	The second se	

Enter the 'Installation Value' for the parameter 'AS Home' specified in the pre-installation table matrix into the 'Oracle Application Server Location' field.

Accept the default 'Administrator username' of 'oc4jadmin'.

Enter the 'Installation Value' for the parameter 'oc4jadmin Password' specified in the pre-installation table matrix into the 'Administrator password' and 'Confirm password' fields.



I.3.6 Error Message Language Selection

chosen compor lease select one	ent requires t of the followin	he selection of a ng languages:	language for pres	entation of e	error messages.	
English			•	·		



I.3.7 Summary

Oracle Business Intelligence 10.1.3.	3.2 will be installed in the following location:
/space/oracle/product/OBIEE	
with the following features:	
Oracle Business Intelligence S Oracle Business Intelligence S Oracle Business Intelligence C Oracle Business Intelligence C Oracle Business Intelligence P	ystems Management erver luster Controller lient resentation Services
for a total size:	
1417.2 MB	



I.3.8 Installation

	(on vint.sagiab.uk.oracle.com)	
Installing Oracle Business Intelligence 1	0.1.3.3.2. Please wait	
	1%	
InstallShield		
	< Back Next > Cancel	1
Oracle Business Intelligence (10.)	L.3.3.2) (on vm1.saglab.uk.oracle.com)	_ ×
		County County
Please read the summary information below.		_
Please read the summary information below. The InstallShield Wizard has successfully inst	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	:
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	2
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard.	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard. InstallShield	alled Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information below. The InstallShield Wizard has successfully inst Next to continue the wizard. InstallShield	alled Oracle Business Intelligence 10.1.3.3.2. Choose	

Click Next.



The installation of Oscale D	
The installation of Oracle E	usiness intelligence Enterprise Edition 10g (10.1.3.3.2) was successful
Access the Welcome Page	at /space/oracle/product/OBIEE/index_bi_ee.html
Oracle Application Server i	s automatically started at the end of installation.

Click Finish.

The installation of Oracle Business Intelligence Enterprise Edition 10g (10.1.3.3.2) with Quick Fix 090406 is complete.



Annex J Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Presentation Services Plug-In Installation

This annex provides a step by step guide to installing the Presentation Services Plug-In in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406, running on the Oracle Enterprise Linux Version 4 Update 5 operating system.

J.1 Prerequisites

Oracle SOA Suite 10g Release 3 (10.1.3.1.0) installed according to Annex D.

J.2 Input Parameters

The Presentation Services Plug-In software installer will require the following input parameters for successful completion of the software installation. The values for these parameters should be gathered prior to starting the installation.

The following table should be completed with the insertion of the values to be used for the current installation into the 'Installation Value' column. The 'Example Value' column shows the values used in the example screenshots demonstrating the install process.

Parameter Name	Installation Value	Example Value
BI Home		/space/oracle/product/OBIEE
BI Data Home		/space/oracle/oradata/OBIEE
AS Home		/space/oracle/product/10gAS/10g_J2EE
Primary Host		obiee1.saglab.uk.oracle.com

Pre-installation table matrix



J.3 Installation of Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406 Presentation Services Plug-In

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was /net/sagfs1t/vol/KITS/Software/BusinessIntelligence/10.1.3.3.2/Linux/RH_Lin ux/Server/Oracle_Business_Intelligence

Issue the following command to verify the machine is configured correctly:

```
$ ./UnixChk.sh /space/oracle/product/OBIEE
```

The script should return the following result:

```
SUCCESS!! - This machine is configured for Oracle BI EE 10.1.3.3.2
```

If the pre-installation step is successful start the Oracle Business Intelligence (10.1.3.3.2) with Quick Fix 090406 Installer as follows:

```
$ ./setup.sh
```

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406.



J.3.1 Information

ease reau the information	Delow.			
MPORTANT!!! The compl space.	ete installed Oracle	BI EE suite require	es at least 2.5 C	B of free disk
At least 200 MB of free di Oracle BI EE.	isk space in the /tr	np and /var/tmp d	irectories is req	uired for installing
IIShiold				

Click Next.



J.3.2 Installation Location

elcome. Oracle Busines	s Intelligence will be installe	d.	
rowse or Enter the Insta	lation Location:		
space/oracle/product/O	BIEE		
			Browse
rowse or Enter the Data	Location:		L
space/oracle/oradata/O	BIEE		
			Browse
elect the Installation Typ) Basic: Minimum securi	e: ty. Installs Oracle Container:	s for J2EE (OC4J).	
Advanced: Enhanced	security Requires Oracle Ar	oplication Septer 10	1 3 1 0 or greater

Enter the 'Installation Value' for the parameter '**BI Home'** specified in the preinstallation table matrix into the '**Installation Location'** field.

Enter the 'Installation Value' for the parameter **'BI Data Home'** specified in the pre-installation table matrix into the **'Data Location'** field.

Click the 'Advanced: Enhanced security. Requires Oracle Application Server 10.1.3.1.0 or greater' radio button.



J.3.3 Product Components

		- 12
) Oracle Business Intelligence	Presentation Services	ľ
Only presentation serv Intelligence Presentatio Management.)	ices components will be installed. (Includes Oracle Business on Services, Presentation Services Plug-in, BI Office, Systems	
Oracle Business Intelligence	Client Tools	100
Only client component: Tools.)	s will be installed. (Includes Oracle Business Intelligence Client	
) Oracle Business Intelligence	Publisher	00000
Oracle Business Intellig	ence Publisher will be installed.	000000000000000000000000000000000000000
Custom		1000
The program will be in Recommended for ad	istalled with the features you choose. vanced users.	
		- 10

Scroll down the menu until you reach the bottom. Click the **'Custom'** radio button.



J.3.4 Product Features

φ Ora	cle Business Intelligence Oracle Business Intelligence IDBC Driver
-	Oracle Business Intelligence Systems Management
-1	Oracle Business Intelligence Server
-1	Oracle Business Intelligence Cluster Controller
-1	Oracle Business Intelligence Scheduler
-	Oracle Business Intelligence Client
-1	Oracle Business Intelligence Presentation Services
-1	Oracle Business Intelligence Presentation Services Plug-in and BI Office
4	Oracle Business Intelligence Publisher

Deselect the following features:

- Oracle Business Intelligence JDBC Driver
- Oracle Business Intelligence Server
- Oracle Business Intelligence Cluster Controller
- Oracle Business Intelligence Scheduler
- Oracle Business Intelligence Client
- Oracle Business Intelligence Presentation Services
- Oracle Business Intelligence Publisher



J.3.5 Oracle Application Server Location

Oracle Application Server	10.1.3.1.0 or greater is required.	
Browse or Enter the Oracl	e Application Server Location (ORACLE_HOME	E):
/space/oracle/product/1	0gAS/10g_J2EE	
		Browse
Enter the administrator u installing Oracle Business Services Plug-in, and BI P	ser information for the above Application Sen Intelligence Systems Management, Presentati Jublisher.	ver which will be used for ion Services, Presentation
Enter the administrator u. installing Oracle Business Services Plug-in, and Bl P Administrator username:	ser information for the above Application Sen Intelligence Systems Management, Presentati ublisher.	ver which will be used for ion Services, Presentation
Enter the administrator u installing Oracle Business Services Plug-in, and Bl P Administrator username: Administrator password:	ser information for the above Application Sen Intelligence Systems Management, Presentati ublisher. oc4jadmin	ver which will be used for ion Services, Presentation
Enter the administrator u installing Oracle Business Services Plug-in, and Bl P Administrator username: Administrator password: Confirm password:	ser information for the above Application Sen Intelligence Systems Management, Presentati ublisher. oc4jadmin *******	ver which will be used for ion Services, Presentation

Enter the 'Installation Value' for the parameter 'AS Home' specified in the pre-installation table matrix into the 'Oracle Application Server Location' field.

Accept the default 'Administrator username' of 'oc4jadmin'.

Enter the 'Installation Value' for the parameter 'oc4jadmin Password' specified in the pre-installation table matrix into the 'Administrator password' and 'Confirm password' fields.



J.3.6 Presentation Services Connection Details

Oracle BI Presentation Services port to connect to.	Plug-in requires Orac	le BI Presentation Se	ervices hostname and	
Enter the Oracle BI Presentation	Services hostname:			
vm1.saglab.uk.oracle.com				
Enter the Oracle BI Presentation	Services port numbe	r.		
9710		5700		

Enter the 'Installation Value' for the parameter **'Primary Host'** specified in the pre-installation table matrix into the **'Hostname'** field.

Accept the default Oracle BI Presentation Services port number.



J.3.7 Summary

	rmation below.	
Oracle Business Intelligence 1	.0.1.3.3.2 will be installed in the following location:	
/space/oracle/product	/OBIEE	
with the following features:		
Oracle Business Intellig Oracle Business Intellig	ence Systems Management ence Presentation Services Plug-in and BI Office	
'or a total size:		
430.9 MB		

Click Next.



J.3.8 Installation

Installing Oracle Business Intellige	nce 10.1.3.3.2. Please wait	
	4%	
nstallShield		
	< Back. Next > Cancel	
Oracle Business Intelligence		_
or dele busiliess meengenee	(10.1.3.3.2) (on vm1.saglab.uk.oracle.com)	
Please read the summary information by	(10.1.3.3.2) (on vm1.saglab.uk.oracle.com)	
Please read the summary information by The InstallShield Wizard has successful	(10.1.3.3.2) (on vml.saglab.uk.oracle.com) elow. ly installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information be The InstallShield Wizard has successful Next to continue the wizard.	(10.1.3.3.2) (on vm1.saglab.uk.oracle.com) elow. Iy installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information be The InstallShield Wizard has successful Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. Iy installed Oracle Business Intelligence 10.1,3,3,2. Choose	
Please read the summary information by The InstallShield Wizard has successful Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. ly installed Oracle Business Intelligence 10,1,3,3,2. Choose	
Please read the summary information by The InstallShield Wizard has successful Next to continue the wizard.	(10.1.3.3.2) (on vm1.saglab.uk.oracle.com) elow. ly installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information be The InstallShield Wizard has successfull Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. Iy installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information by The InstallShield Wizard has successfull Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. Iy installed Oracle Business Intelligence 10.1,3,3,2. Choose	
Please read the summary information by The InstallShield Wizard has successfull Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. Iy installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information be The InstallShield Wizard has successfull Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. Iy installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information be The InstallShield Wizard has successfull Next to continue the wizard.	(10,1,3,3,2) (on vm1.saglab.uk.oracle.com) elow. ly installed Oracle Business Intelligence 10.1.3.3.2. Choose	
Please read the summary information by The InstallShield Wizard has successful Next to continue the wizard.	(10.1.3.3.2) (on vm1.sagiab.uk.oracle.com) elow. ly installed Oracle Business Intelligence 10.1.3.3.2. Choose	



Oracle Business Intelligence Install	ation Summary	9m) <u>–</u>
The installation of Oracle Busines	s Intelligence Enterprise Edition 10g (10.1.3.3.2) was su	uccessful.
Access the Welcome Page at /sp	ace/oracle/product/OBIEE/index_bi_ee.html	
Oracle Application Server is auto	matically started at the end of installation.	
stallShield		
ORACLE'	< Back Next >	Finish

Click Finish.

The installation of Oracle Business Intelligence Presentation Services Plug-In 10g (10.1.3.3.2) with Quick Fix 090406 is complete.



Annex K J2SE Development Kit 5.0 Update 16

K.1 Prerequisites

None.

K.2 Installation of JDK 5 Update 16

Double-click on the jdk-1_5_0_16-windows-i586-p.exe file.

K.2.1 License Agreement

🚰 J25E Development Kit 5.0 Update 16 - License
License Agreement
Please read the following license agreement carefully.
Sun Microsystems, Inc. Binary Code License Agreement
for the JAVA 2 PLATFORM STANDARD EDITION DEVELOPMENT KIT 5.0
SUN MICROSYSTEMS, INC. ("SUN") IS WILLING TO LICENSE THE SOFTWARE IDENTIFIED BELOW TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS BINARY CODE LICENSE AGREEMENT AND SUPPLEMENTAL LICENSE TERMS (COLLECTIVELY "AGREEMENT"). PLEASE READ THE AGREEMENT CAREFULLY. BY DOWNLOADING OR INSTALLING THIS SOFTWARE, YOU ACCEPT THE TERMS OF THE AGREEMENT. INDICATE ACCEPTANCE BY SELECTING THE "ACCEPT" BUTTON AT THE BOTTOM OF THE AGREEMENT. IF YOU ARE NOT WILLING TO BE BOUND BY ALL THE TERMS, SELECT THE "DECLINE" BUTTON AT THE BOTTOM OF THE AGREEMENT AND THE
I accept the terms in the license agreement
\bigcirc I do not accept the terms in the license agreement
InstallShield
Next > Cancel

Click the **'I accept the terms in the license agreement'** radio button.



K.2.2 Custom Setup

🔂 J2SE Development Kit 5.0 Update 16 - Custom Setup	×
Custom Setup Select the program features you want installed.	SULL.
Select optional features to install from the list below. You can installation by using the Add/Remove Programs utility in the Co	change your choice of features after ntrol Panel
Development Tools Demos Source Code Public JRE	Feature Description J2SE Development Kit 5.0, including private JRE 5.0. This will require 264 MB on your hard drive.
Install to:	
C:\Program Files\Java\jdk1.5.0_16\	<u>C</u> hange
InstallShield	
< <u>B</u> ack	<u>N</u> ext > Cancel

Make sure only 'Development Tools' are installed.



K.2.3 Progress

👹 J2SE Dev	elopment Kit 5.0 Update 16 - Progress
Installing The prog	ram features you selected are being installed.
12	Please wait while the Install Wizard installs J2SE Development Kit 5.0 Update 16. This may take several minutes.
	Status:
InstallShield –	
	< <u>B</u> ack <u>N</u> ext >



K.2.4 Installation Complete



Click Finish.

The installation of J2SE Development Kit 5.0 Update 16 is now complete.



Annex L Oracle Database 10g Client Release 2 (10.2.0.3.0) Installation

This annex provides a step by step guide to installing Oracle Database 10g Client Release 2 (10.2.0.3.0), running on a Microsoft Windows XP operating system.

L.1 Prerequisites

None.

L.2 Input Parameters

The software installer will require the following input parameters for successful completion of the software installation. The values for these parameters should be gathered prior to starting the installation.

The following table should be completed with the insertion of the values to be used for the current installation into the 'Installation Value' column. The 'Example Value' column shows the values used in the example screenshots demonstrating the install process.

Pre-installation table matrix

Parameter Name	Installation Value	Example Value
Home		10g_10_2_0_CLIENT
Path		C:\oracle\product\10.2.0\client



L.3 Oracle Database 10g Client Release 2 (10.2.0.1.0) Installation

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was C:\stage\client.

Start the Oracle Universal Installer by double-clicking setup.exe.

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle Database 10g Client Release 2 (10.2.0.1.0).

L.3.1 Welcome Screen

🗽 Oracle Universal Installer: Welcome	- 🗆 🗵
Welcome	8
The Oracle Universal Installer guides you through the installation and configuration of your Oracle products.	
Click "Installed Products" to see all installed products.	
Deinstall Products	
About <u>O</u> racle Universal Installe	ər)
Help Installed Products Back Next Install Can	icel
ORACLE	



L.3.2 Installation Type

🙀 Oracle Universal Installer: Select Installation Type	_ 🗆 🗙
Select Installation Type	
Oracle Client 10.2.0.1.0	
What type of installation do you want?	
C InstantClient (498KB)	
Installs Instant Client software.	
C Administrator (551MB)	
Installs the management console, management tools, networking services, util, basic client software.	
C Runtime (231MB)	
Installs tools for developing applications, networking services and basic client software.	
Custom	
Enables you to choose individual components to install.	
	\leq
Product Languag	es
Help Installed Products Back Next Install Ca	ncel

Click the **'Custom'** radio button.



L.3.3 Home Details

🗽 Oracle U	niversal Installer: Specify Home Details	
		$\cap g$
Spec	ify Home Details	
Destin	ation	
Enter or	select a name for the installation and the full path where you want to install the pro	oduct.
Na <u>m</u> e:	10g_10_2_0_CLIENT	
P <u>a</u> th:	C:\oracle\product\10.2.0\client	Browse
>		
Halp	Installed Products Pack Next Inst	tall Canaal
Eelb		

Enter the 'Installation Value' for the parameter 'Name' specified in the preinstallation table matrix into the 'Name' field.

Enter the 'Installation Value' for the parameter **'Path'** specified in the preinstallation table matrix into the **'Path'** field.



L.3.4 Product Components

Dracle Client		
The following are components that you can install as part vant to install?	of Oracle Client. Which of these compone	nts do you
Components	Install Status	
🗹 Oracle Call Interface (OCI) 10.2.0.1.0	New Install	
□ Oracle Programmer 10.2.0.1.0	Not Installed	- 1
□ Oracle XML Development Kit 10.2.0.1.0	Not Installed	- 1
🗹 Oracle Advanced Security 10.2.0.1.0	New Install	- 1
Enterprise Manager 10g Java Console 10.2.0.1.0	Not Installed	- 1
□ OLAP Analytic Workspace Manager and Worksheet 10	0.2.0.1.0 Not Installed	
ll Oracle Net 10.2.0.1.0	New Install	
□ Oracle interMedia Client Option 10.2.0.1.0	Not Installed	
Oreale Natification Service 10.1.0.2.0	Not Installed	_
Coracle Notification Service 10.1.0.3.0		

Select the 'Oracle Call Interface (OCI) 10.2.0.1.0' and 'Oracle Advanced Security 10.2.0.1.0' components. The 'Oracle Net 10.2.0.1.0' is a required component of Oracle Advanced Security and will also be selected.



L.3.5 Product Components

racle Universal Installer: Product-Specific Prerequisite Checks				
Product-Specific Prerequisite Checks				
The Installer verifies that your environment meets all of the minimum configuring the products that you have chosen to install. You must m are flagged with warnings and items that require manual checks. Fo checks, click the item and review the details in the box at the bottom	requirements f anually verify an r details about p of the window.	or in: d coi ierfoi	stalling and nfirm the item rming these	s that
Check	Туре		Status	
Checking Oracle Home path for spaces	Automatic		Succeeded	
Checking for Oracle Home incompatibilities	Automatic	4	Succeeded	
•				D
			Retry	Stop
0 requirements to be verified.				
Actual Result: NEW_HOME Check.complete. The overall result of this check is: Passed				
Liele Deskute Deskute	Nave C	lun er		ancol

Make sure that there are '0 requirements to be verified'.



L.3.6 Product Components

Oracle Universal Installer: Summary	
Summary Oracle Client 10.2.0.1.0	
- Global Settings	
Source: C:\stage\client\stage\products.xml	
Oracle Home: C:\oracle\product\10.2.0\client (10g_10_2_0_CLIENT)	
Installation Type: Custom	
- Product Languages	
-English	
English (United Kingdom)	
C:\ Required 265MB (includes 19MB temporary) : Available 9.76GB	
⇔New Installations (48 products)	
-Agent Required Support Files 10.2.0.1.0	
—Assistant Common Files 10.2.0.1.0	
—Bali Share 1.1.18.0.0	_
Duildtoolo Common Filos 10 0 0 1 0	
Help Installed Products Back Next	Install Cancel
ORACLE	

Click the **'Install'** radio button.



L.3.7 Install

oracle Universal Installer: Install	108
Installing Oracle Client 10.2.0.1.0 Installation in progress Setup pending Configuration pending Extraction files to 10 based based with 0.2.0 bilingti	Oracle Database 10g: The Database for the Grid • Virtualization at every layer • Policy-based provisioning • Resource pooling
Extracting files to 'C: Voracle/product/10.2.0/client'.	1
You can find a log of this install session at: C:\Program Files\Oracle\Inventory\logs\installActions2008-11-29_10-32-29PM.log	
Help Installed Products Back Next ORACLE) (Install) (Cancel)



L.3.8 Configuration Assistants

	5	
Configuration Assistants		
Configuration Assistants		
The following configuration assistants will configure	e and start the components yo	ou selected earlier.
Tool Name	Status	Туре
Oracle Client		
Oracle Net Configuration Assistant	In progress	Recommended
		Retry Ston
Details (see full log at C:\Program Files\Oracle\Inve	ntoryllogs\installActions2008	Retry Stop
Details (see full log at C:\Program Files\Oracle\Inve Parameter "nodeinfo" = NO_VALUE Parameter "responsefile" = C:\oracle\product\10. Done parsing command line arguments. Oracle Net Services Configuration:	ntoryllogs\installActions2008 2.0\client\network\install\netc	Eetry Stop
Details (see full log at C:\Program Files\Oracle\Inve Parameter "nodeinfo" = NO_VALUE Parameter "responsefile" = C:\oracle\product\10. Done parsing command line arguments. Oracle Net Services Configuration: Help Installed Broducts	ntoryllogs\installActions2008 2.0\client\network\install\netc Back Next	Eetry Stop -11-29_10-32-29PM.log): a_cit.rsp



L.3.9 Net Configuration Assistants

Oracle Net Configuration Assistant: Welcome	<u>×</u>
Welcome to the this tool will the ised below. Naming M Or, you can che complete a typinformation. Perform type	ne Oracle Net Configuration Assistant. ake you through the common configuration steps, ethods configuration noose to have the Oracle Net Configuration Assistant pical configuration for you. Click Help for more
Cancel Help	< Back Next >>

Tick the **'Perform typical configuration'** check box.

Click Next.

Oracle Net Configuration A	ssistant: Welcome
	Welcome to the Oracle Net Configuration Assistant. To access a database service or other type of service, you use a connect identifier. The Assistant has determined that your client can use the easy connect naming method for identifying the database you want to access. With easy connect naming, you use the host, port(optional), and service name of the database as the connect identifier. Click Help for more information about connecting to a database using easy connect.
Cancel Help) <u>Back</u> <u>Next</u>



Oracle Net Configuration Assistant: Done	×
Oracle Net Configuration Complete.	
Cancel Help & Back Next > Einist	

Click Finish.



L.3.10 End of Installation

oracle Universal Installer: End of Installation	IX
	7
End of Installation	
The installation of Oracle Client was successful.	
Help Installed Products Back Next Install Exit	
ORACLE	

The installation of Oracle Database 10g Client Release 2 (10.2.0.1.0) is now complete.



L.4 Oracle Database 10g Client Release 2 (10.2.0.3.0) Installation

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was C:\stage\database_10203\Disk1.

Start the Oracle Universal Installer by double-clicking setup.exe.

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of Oracle Database 10g Client Release 2 (10.2.0.3.0).

L.4.1 Welcome Screen

🗽 Oracle Universal Installer: Welcome	_ 🗆 🗙
Welcome	8
The Oracle Universal Installer guides you through the installation and configuration of you Oracle products.	ır
Click "Installed Products" to see all installed products.	
Deinstall Products	
About <u>O</u> racle Universal Insta	aller)
Help Installed Products Back Next Install C	ancel
ORACLE'	



L.4.2 Home Details

🗽 Oracle U	niversal Installer: Specify Home Details	
Spec	ify Home Details	18
Destin	ation	
Enter or	select a name for the installation and the full path where you want to install the pro	oduct.
Na <u>m</u> e:	10g_10_2_0_CLIENT	
P <u>a</u> th:	C:\oracle\product\10.2.0\client	Bro <u>w</u> se)
Help	Installed Products Back Next Inst	all) (Cancel)
OR/	ACLE.	

Select the 'Name' entered during the previous installation from the select list.


L.4.3 Summary

👷 Oracle Universal Installer: Summary	
Summary Oracle Database 10g Release 2 Patch Set 2 10.2.0.3.0	
- Global Settings	
Source: C:\stage\database_10203\Disk1\stage\products.xml	
Oracle Home: C:\oracle\product\10.2.0\client (10g_10_2_0_CLIENT)	
-English	_
English (United Kingdom)	_
Space Requirements	
C:\ Required 212MB (includes 23MB temporary) : Available 8.07GB	_
Dpgrades (3 products)	_
-New Installations (28 products)	
-Agent Required Support Files Patch 10.2.0.3.0	
Assistant Common Files Patch 10.2.0.3.0	
DBJAVA Required Support Files Patch 10.2.0.3.0	
Help Installed Products Back Next Install	Cancel
ORACLE	

Click the **'Install'** button.



L.4.4 Install

🐜 Oracle Universal Installer: Install	
Install	
Installing Oracle Database 10g Release 2 Patch Set 2 10.2.0.3.0	
✓ Deinstall successful	Oracle Database 10g:
Copying files for 'Java Runtime Environment 1.4.2.8.0 '	The Database for the Grid
Setup pending	Virtualization at every layer Policy-based provisioning
Configuration pending	Resource pooling
copying 'jre/1.4.2/lib/tt.jar'	
8%	
(Stop installation)	1
You can find a log of this install session at: C:\Program Files\Oracle\Inventory\logs\installActions2008-11-29_10-49-01PM.log	
Help Installed Products Back Next	Install Cancel
ORACLE	



L.4.5 End of Installation

💥 Oracle Universal Installer: End of Installation		
End of Installation		5
The installation of Oracle Database 10g Re	elease 2 Patch Set 2 was successful.	
		>
Help Installed Products	Back Next Install	t)
ORACLE		

The installation of Oracle Database 10g Client Release 2 (10.2.0.3.0) is now complete.



L.5 OPatch 10.2.0.4.3

OPatch is delivered through patch 6880880. Issue the following commands:

```
set ORACLE_HOME=C:\oracle\product\10.2.0\client
set PATH=%ORACLE_HOME%\OPatch;%PATH%
cd %ORACLE_HOME%
move OPatch OPatch.102030
```

Extract the patch p6880880_102000_WINNT.zip to the client ORACLE_HOME:

```
unzip <path-to>/p6880880_102000_WINNT.zip
```

Verify that OPatch has been updated by issuing the command:

opatch version

The result should be:

Invoking OPatch 10.2.0.4.3 OPatch Version: 10.2.0.4.3 OPatch succeeded.

L.6 Critical Patch Update April 2007

Change directory to the location of the extracted patch and issue:

opatch apply

At the 'Is the local system ready for patching? [y/n]' prompt enter: 'Y'.

Oracle Configuration Manager (OCM) is bundled with OPatch and must be configured during the OPatch session:

At the 'stop displaying the license agreement' prompt enter: 'q'.

At the 'License Agreement' prompt enter: 'Y'.



At the 'Proxy specification' prompt enter: 'NONE'.

OCM will be installed and configured and then the critical patch for April 2007 will be installed.

Successful patch application will be indicated by:

```
Return Code = 0
The local system has been patched and can be restarted.
OPatch succeeded.
```



Annex M Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) Client Tools Installation

This annex provides a step by step guide to installing Oracle Business Intelligence Enterprise Edition 10g (10.1.3.3.2) Client Tools, running on a Microsoft Windows XP operating system.

M.1 Prerequisites

J2SE Development Kit 5.0 Update 16 installed according to Annex K.

Oracle Database 10g Client Release 2 (10.2.0.3.0) according to Annex L.

M.2 Input Parameters

The software installer will require the following input parameters for successful completion of the software installation. The values for these parameters should be gathered prior to starting the installation.

The following table should be completed with the insertion of the values to be used for the current installation into the 'Installation Value' column. The 'Example Value' column shows the values used in the example screenshots demonstrating the install process.

Parameter Name	Installation Value	Example Value
BI Home		C:\oracle\product\OBIEE
BI Data Home		C:\oracle\oradata\OBIEE
JDK Home		C:\Program Files\Java\jdk1.5.0_16

Pre-installation table matrix



M.3 Installation of Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) Client Tools

Login to the server machine as the oracle user and navigate to the directory where the issue media has been installed (in the Evaluated Configuration used to derive the screenshots given in this document, this was <CD Drive>\Server\Oracle_Business_Intelligence

Navigate to the directory above and double-click on setup.exe. This will start the Oracle Business Intelligence (10.1.3.3.2) Installer.

The information to be supplied by the administrator for each step is indicated on the pages below underneath the relevant screenshot. These screenshots illustrate the screens that were displayed during the installation of the Client Tools.

M.3.1 Information

Dracle Business Intelligence (10.1.3.3.2)				
Please read the information below.				
IMPORTANT!!! The complete installed Orac	le BI EE suite re	equires at least 2 GB	of free disk space.	
At least 200 MB of free disk space in the %1	FEMP% director	y is required for insta	lling Oracle BI EE.	
stallShield				
ORACLE'	< Back	Novts	Cancel	Holn



M.3.2 Installation Location

Oracle Business Intelligence (10.1.3.3.2)				_ 🗆 X
Oracle Business Intelligence Installation				
Welcome. Oracle Business Intelligence will	be installed.			
Browse or Enter the Installation Location:				
C:\oracle\product\OBIEE				
			Browse	
Browse or Enter the Data Location:				
C:\oracle\oradata\OBIEE				
			Browse	
Select the Installation Type:				
💿 Basic: Minimum security. Installs Oracle	e Containers for J:	2EE (OC4J).		
O Advanced: Enhanced security. Requires	Oracle Applicatio	n Server 10.1.3.1.	0 or greater.	
1				
nstallShield				
	< <u>B</u> ack	<u>N</u> ext ≻	<u>C</u> ancel	Help

Enter the 'Installation Value' for the parameter **'BI Home'** specified in the preinstallation table matrix into the **'Installation Location'** field.

Enter the 'Installation Value' for the parameter '**BI Data Home**' specified in the pre-installation table matrix into the '**Data Location**' field.

Click the 'Basic: Minimum security. Installs Oracle Containers for J2EE (OC4J)' radio button.



M.3.3 Product Components

0	Oracle Business Intelligence (10.1.3.3.2)	<u> </u>
	Choose the setup type that best suits your needs.	
	C Complete	
	O Oracle Business Intelligence Server	
	Only server components will be installed. (Includes Oracle Business Intelligence Server, Administration Tool, Cluster Controller, Scheduler, Job Manager, Systems Management.)	
	O Oracle Business Intelligence Presentation Services	
	Only presentation services components will be installed. (Includes Oracle Business Intelligence Presentation Services, Presentation Services Plug-in, BI Office, Catalog Manager, Systems Management.)	
	Oracle Business Intelligence Client Tools	
	Only client components will be installed. (Includes Oracle Business Intelligence Client Tool Administration Tool, Job Manager, Catalog Manager.)	s,
B	ORACLE USINESS INTELLIGENCE < Back	Help

Click the 'Oracle Business Intelligence Client Tools' radio button.



M.3.4 Java Development Kit (JDK) Location

Oracle Business Intelligence (10.1.3.3.2)			
Java Development Kit (JDK) Location			
Java Development Kit 1.5.0 or greater is req	uired.		
Browse or Enter the JDK Location (JAVA_H	OME):		
C:\Program Files\Java\jdk1.5.0_16			
			Browse
1			
InstallShield			
BUSINESS INTELLIGENCE	< <u>B</u> ack	<u>N</u> ext >	<u>C</u> ancel Help

Enter the 'Installation Value' for the parameter **'JDK Home'** specified in the pre-installation table matrix into the **'JDK Location'** field.



M.3.5 Error Message Language Selection

Oracle Business Intelligence (10.1.3.3.2)				
Error Message Language Selection				
A chosen component requires the selection select one of the following languages:	n of a language	for presentation of er	ror messages. Ple	ease
English		v		
InstallShield				
ORACLE' BUSINESS INTELLIGENCE	< <u>B</u> ack	Next >	<u>C</u> ancel	Help



M.3.6 Summary

Oracle Business Intelligence (10.1.3.3.2)	
Please read the summary information below.	
Oracle Business Intelligence 10.1.3.3.2 will be installe	ed in the following location:
C:\oracle\product\OBIEE	
with the following features:	
Oracle Business Intelligence ODBC Driver Oracle Business Intelligence JDBC Driver Oracle Business Intelligence Administration Too Oracle Business Intelligence Client Oracle Business Intelligence Catalog Manager Oracle Business Intelligence Job Manager	ol
for a total size:	
144.9 MB	
InstallShield	< <u>B</u> ack <u>Next > C</u> ancel

Click Next.





M.3.7 Microsoft .NET Framework and Visual C++ Redistributable

🛱 Microsoft .NET Framework 2.0 Setup	
Welcome to Microsoft .NET Framework 2.0 Setup	
This wizard will guide you through the installation process.	
	Next > Cancel

Click Next.

Microsoft .NET Framework 2.0 Setup	_ 🗆 X
nd-User License Agreement	
End-User License Agreement	<u> </u>
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS MICROSOFT .NET FRAMEWORK 2.0	
Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. If you are licensed to use Microsoft Windows operating system software (the "software"), you may use this supplement. You may not use it if you not have a license for the software. You may use a copy of this supplement with eac validly licensed copy of the software.	o h
Print	t
y clicking "I accept the terms of the License Agreement" and proceeding to use the roduct, I indicate that I have read, understood, and agreed to the terms of the End- icense Agreement.	-User
☑ <u>i accept the terms of the License Agreement</u>	
< <u>B</u> ack Install >	ncel

Tick the 'I accept the terms of the License Agreement' check box.

Click Install.



Microsoft .NLT Framework 2.0 Setup		ổ Microsoft .NLT Framework 2,0 Setup	
Installing components		Setup Complete	
The items you selected are being installed.		Microsoft .NET Framework 2.0 has been successfully installed.	
······		To briefship processes and all that your dependenced and install this latent environments and	
Technical Deserver		security updates for this product.	
anseasoun progress:		For more information, visit the following Web site:	
		Product Support Center	
Generating script operations for action:			
CA_InstalAssemblyR8.3643236F_FC70_11D3_A536_0090270A1880			
	⊆ancel	End	sh

Click Finish.

After the Microsoft .NET Framework 2.0 Installer completes, the Microsoft Visual C++ 2005 Redistributable will be installed.



The Client Tools installation will begin once the Microsoft Visual C++ 2005 Redistributable Installer is complete.



M.3.8 Installation

Installing Oracle Business Intelligence	e 10.1.3.3.2. Please wait	
-	6%	
stallShield		
ORACLE' JSINESS INTELLIGENCE	< <u>B</u> ack <u>N</u> ext >	<u>C</u> ancel
Oracle Business Intelligence (10.1.3.3.2))	
Please read the summary information be	elow.	
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard.	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next
Please read the summary information be The InstallShield Wizard has successfu to continue the wizard. InstallShield Content of the summary of the successful of the summary of the summ	elow. Illy installed Oracle Business Intelligence 10.1.3.	3.2. Choose Next



0	Oracle Business Intelligence (10.1.3.3.2)							
Γ	Oracle Business Intelligence Installation Summary							
	The installation of Oracle Business Intelligence Enterprise Edition 10g (10.1.3.3.2) was successful. Access the Welcome Page at C:\oracle\product\OBIEE\index_bi_ee.html							
	nstallShield							
B	ORACLE business intelligence < Back	ncel						

Click Next.

Oracle Business Intelligence (10.1.3.3.2)				
I ne wizard requires that you restart your com	iputer.			
$C \ \underline{N}$ o, I will restart my computer at a later	time.			
J InstallShield				
ORACLE'	- Deals	Naveta	[]	Linin
BUSINESS INTELLIGENCE	< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	Неір

Click the 'Yes, restart my computer' radio button.

Click Finish.

The installation of Oracle Business Intelligence Enterprise Edition 10g (10.1.3.3.2) Client Tools will be complete once the computer has restarted.



Annex N IBM GSKit 7 Installation

This annex provides a step by step guide to installing IBM GSKit 7 in the evaluated configuration for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2).

N.1 IBM GSKit 7 Windows Installation

Copy the gskit7-windows.zip file from the Server_Ancillary\IBM_GSK directory on the Windows Oracle Business Intelligence Installation CD and extract the contents to a directory on the file system.

Open a command prompt, navigate to the location of the extracted installation files and issue the following command:

setup LDAP -s -f1 setup.iss

IBM GSKit 7 will be installed in the C:\Program Files\IBM\GSK7 directory.

Add a SYSTEM variable called JAVA_HOME and set its value to C:\Program Files\Java\jdk1.5.0_16.

CopythefollowingjarfilesfromtheC:\ProgramFiles\IBM\GSK7\classes\jre\lib\extdirectorytothe%JAVA_HOME%\jre\lib\extdirectory:tothe

- ibmjceprovider.jar
- ibmpkcs.jar
- ibmjcefw.jar
- local_policy.jar
- US_export_policy.jar
- ibmjlog.jar
- ibmjsse.jar

Register the IBM JCE and IBM CMS service providers by updating the %JAVA_HOME%\jre\lib\security\java.security file to add the IBMJCE provider and IBMCMS provider after the list of providers.

```
security.provider.7=com.ibm.spi.IBMCMSProvider
security.provider.8=com.ibm.crypto.provider.IBMJCE
```



N.2 IBM GSKit 7 Linux Installation

Copythegskit7-linux.tarfilefromtheRH_Linux\Server_Ancillary\IBM_GSKdirectoryontheLinuxOracleBusinessIntelligenceInstallationCDand extract the contents to a directory onthe file system.

Change directory to the gskit directory and issue the following command as the root user:

rpm -ihv gsk7bas-7.0-3.3.i386.rpm



Annex O References

- [CC] Common Criteria for Information Technology Security Evaluation (Comprising Parts 1-3: [CC1], [CC2], and [CC3]).
- [CC1] Common Criteria for Information Technology Security Evaluation Part 1: Introduction and General Model CCMB-2006-09-001, Version 3.1 Release 1, September 2006
- [CC2] Common Criteria for Information Technology Security Evaluation Part 2: Security Functional Requirements CCMB-2007-09-002, Version 3.1 Release 2, September 2007
- [CC3] Common Criteria for Information Technology Security Evaluation Part 3: Security Assurance Requirements CCMB-2007-09-003, Version 3.1 Release 2, September 2007
- [CEM] Common Methodology for Information Technology Security Evaluation Part 2: Evaluation Methodology CCMB-2007-09-004, Version 3.1 Release 2, September 2007
- **[ECGDB]** *Evaluated Configuration for Oracle Database 10g Release 2 (10.2.0)*, Issue 0.6, November 2007, Oracle Corporation.
- **[ECGOID]** *Evaluated Configuration for Oracle Internet Directory 10g (10.1.4.0.1)*, Issue 0.3, March 2008, Oracle Corporation
- [ECGOIDIG] Evaluated Configuration for Oracle Identity and Access Management 10g (10.1.4.0.1): Oracle Internet Directory Installation, Oracle Corporation.
- **[ECGHTTP]** Evaluated Configuration for Oracle HTTP Server 10g Release 2 (10.1.2), Issue 0.9, January 2007, Oracle Corporation.
- **[ECGOEL4]** *CC EAL4+ Evaluated Configuration Guide for Oracle Enterprise Linux 4 U4 and U5*, Version 1.3, 23rd August 2007, Oracle Corporation.
- **[ST]** Security Target for Oracle Business Intelligence Enterprise Edition (10.1.3.3.2) with Quick Fix 090406, Oracle Corporation, version 1.6, June 2009.