

# Retek<sup>®</sup> Distribution Management 10.0



## Installation Guide



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- Product version and program/module name.
- Functional and technical description of the problem (include business impact).
- Detailed step by step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.



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# Chapter 1 – Hardware and software requirements

Before you install any Retek Retail Solutions product, you need to make sure that your information systems can adequately run the software that you are installing, as well as process the amount of data that you expect to manage. This section lists the suggested hardware and software requirements for Retek Distribution Management products. The following are suggested hardware and software requirements:

**Supported Media** – Retek Distribution Management is available on CD-ROM only. Tape is not available.

**Database Server** – database software requirements.

**Application Server** – including operating system software and development tools, and a list of hardware choices.

**Web Browser** – including the requirements that a Web browser must meet and a list of Web browsers and versions from which you can choose. It is important that you choose to install operating system and Web browser version combinations on your users' computers that can run Oracle's JInitiator. JInitiator is the Java runtime environment necessary for viewing and interacting with Retek's Web-enabled products. The following table lists acceptable software versions and Web browser versions.

	Database Server	Application Server	Client
Vendor	Oracle RDBMS 9I – Enterprise Edition	Oracle Application Server (Web Server) Oracle Developer	Web Browser (IE or Netscape) JInitiator
Retek (RDM 10.0.0.0)	DDL (Views, Triggers, Tables etc.) Database Objects (Procedures, Packages) Control Scripts Data Scripts	Forms Reports Help Files	

Because you need to choose hardware that has sufficient random access memory (RAM) and program and data storage capacity for the products you choose, each section lists criteria you can use to “size” your hardware selections. The totals you discover after factoring in sizing issues are approximate.

# Retek Distribution Management

## Database server

**General requirements** for a database server capable of running RDM include:

- Unix (or Unix variant) based OS certified with Oracle 9i
- ANSI compliant C compiler
- Perl Compiler 5.0 or later
- Oracle RDBMS 9i Enterprise Edition
- Oracle Partitioning
- Oracle Pro\*C Precompiler 9.x
- Oracle Net services

For development:

- OCI
- Oracle XML Developers Kit
- Oracle XML SQL Utility

**Hardware/OS options** as used for development (see Oracle's Web site for certified platforms):

- Sun/Solaris 2.8
- IBM/AIX 4.3.3.x
- Hewlett Packard/HP UX 11.1

**Note:** Oracle bug #2200335 regarding table inserts is resolved with patch #1970629, Sun Platform only.

## Application server

**General requirements** for an application server capable of running RDM include:

- UNIX (or UNIX variant) Or Windows NT or Windows 2000 server
- Oracle Application Server (9IAS) 1.0.2.2.x
- x-Windows interface (only if UNIX OS)

**Sizing factors and other suggestions** to factor into your selection of an application server include:

- CD-ROM drive
- 1 Gbit network adapter
- ~2 GB Free disk space for 9IAS
- ~1 GB Free disk space for RDM forms, reports, gif files and help files.



**Hardware/OS options** as used for development:

- Sun/Solaris 2.6, 2.7, 2.8
- IBM/AIX 4.3.3 or AIX 5.1
- Hewlett Packard/HP UX 11.0 or 11.11

## Web browser and client requirements

**General requirements** for client capable of running RDM include:

### **JRE plugin**

- Oracle JInitiator 1.1.8.xx

### **Client PCs**

- Pentium Processor
- Use Windows 98, 2000, XP or NT 4.0 with service pack 5 or higher
- Have the resolution set to 1024x768 pixels

**Sizing factors and other suggestions** to factor into your selection of a PC or network configuration include:

- Bandwidth/Speed
- PC Configuration (minimum 64 MB RAM, 200MHZ processor)

**Browser options** to factor into your selection include:

- Internet Explorer 5.0 or higher
- Netscape Navigator 4.7 or higher



## Chapter 2 – Database installation instructions

### Database server installation instructions

Follow these steps to install the database server component of the RDM 10.0 software.

#### Getting started

##### Create a UNIX user account

- 1 Create the following UNIX groups:
  - dba
  - rtk
- 2 Create the following UNIX user, using ksh as the default shell:
  - oracle - dba group (owns the oracle rdbms)
  - retek - dba and rtk group (owns the RDM app)

The retek user will install and compile the Retek Distribution Management 10.0.0.0 Database Server and Application Server objects on UNIX systems. The oracle account should own the oracle rdbms.

**Note:** A database create script can be found on your cd at /databasecreate. It will take care of creating your database with correct sizing options.

##### Modify the init.ora file in the \$ORACLE\_HOME/dbs directory

- 1 Install Oracle 9i as the Oracle account.
- 2 Create your database (see Appendix D for sample database create scripts).
- 3 Place the following in the init.ora:
  - nls\_date\_format = "DD-MON-RR"
  - job\_queue\_processes = <number of CPUs + 1>
  - open\_cursors=900

### Verify the existence of Oracle packages

The `DBMS_SESSION`, `DBMS_RANDOM`, `DBMS_LOCK`, `DBMS_AQ`, `DBMS_AQADM`, `DBMS_ALERT`, `DBMS_PIPE`, and `DBMS_JOB` packages must be created in each database that RDM 10.0 will be run against.

These Oracle packages are provided with the ORACLE software, and are normally created by the `catproc.sql` script as part of the Oracle installation process.

- 1 Log into the database and query the `USER_OBJECTS` view to verify whether or not the packages have been created, and that Oracle user `sys` owns these packages.

**Note:** The source for these packages are located in the `$ORACLE_HOME/rdbms/admin` directory.

- 2 If necessary, re-create the packages by running the `catproc.sql` script while logged into a server manager session as the Oracle user `sys`.

### Create ORACLE tablespaces

RDM 10.0 requires that eleven tablespaces be created initially for the RDM installation.

- 1 Create the following tablespaces: `DAT1`, `DAT2`, `DAT3`, `DAT4`, `DAT5`, `IND1`, `IND2`, `IND3`, `IND4`, `IND5`, and `AHL_DAT`.

**Note:** These tablespace names are referred to in the table and index creation scripts, so their existence is required.

- 2 Set up a separate tablespace for rollback segments or undo (replace rollback segments in Oracle 9i).

- 3 Set up another separate tablespace for a temporary tablespace.

The size of all of these tablespaces varies from client to client, depending on how much data the client intends on having in their environment. The test minimums are:

DAT1	- 175 MB
DAT2	- 160 MB
DAT3	- 240 MB
DAT4	- 115 MB
DAT5	- 45 MB
IND1	- 50 MB
IND2	- 75 MB
IND3	- 90 MB
IND4	- 75 MB
IND5	- 70 MB
AHL_DAT	- 20 MB

The system tablespace should have at least 100MB free for each installation of the RDM 10.0 schema.

See Appendix D for sample tablespace creation.

**Note:** Analysis of additional tablespaces and sizing parameters should be done prior to setting up the production environment.

### Create the file structure

- 1 Determine where RDM 10.0 will be installed. Check to make sure there is enough disk space available

**Note:** The RDM 10.0 Database Server file structure needs about 500 MB of space for install scripts, install modules, and batch modules.

- 2 Make sure your ORACLE\_SID and ORACLE\_HOME environment variables are set correctly before installation.
- 3 Mount the CD on the database server and log into UNIX as retek.

There are four directories on the RDM 10.0 CD:

- appserverunix
- dbserverunix
- dbcreate
- designer6i

The dbserverunix directory contains the files for the database server install.

- 4 Change directories to dbserverunix. Decide where you will be installing RDM database files.

**Note:** At this point, you may complete the install using the automated installation scripts, or by following the manual steps found in Appendix A.

#### To complete the install using the automated install scripts

- 5 Run `builddb_10.run` from the CD while in the `<cd mount point>/dbserverunix` directory. The installation script must be run on the database server.
  - This script prompts you for a path in which to install the RDM 10.0 database server files on the system. If the entire path does not currently exist, it creates it for you. **This is referred to as `<INSTALL_DIR>` in these installation instructions.**
  - The `builddb_10.run` script copies a tarred and compressed file containing the database files to the specified directory on your server.
  - The `builddb_10.run` script decompresses and untars the file to produce the directory structure and files required for the remainder of the installation process. The directory structure is described in Appendix A.
  - The `builddb_10.run` script cleans up any extra files produced.
  - The `builddb_10.run` script calls another script (`install.rdm`) to finish the remainder of the Database Server installation. See the “Install RDM” section for more information.

**Note:** `install.rdm` is called by the `builddb_10.run` script, but can also be called from the command line if the tar file was decompressed and untarred manually. To start `install.rdm`, CD to `<INSTALL_DIR>/install` and run `install.rdm`.

## Install RDM

The `install.rdm` script walks you through most of the manual install processes described in Appendix A. The `install.rdm` script creates the Oracle schema owner for RDM 10.0.0.0 and uses scripts from the `<INSTALL_DIR>/install` directory structure to build the database objects.

The basic prompt responses throughout this script are:

- `<Y>` for Yes
- `<N>` for No
- `<Q>` for Quit
- `<S>` for Skip
- `<Enter>` to accept the default

The actions that are allowed at each prompt are noted and all choices can be entered in upper or lower case. Each prompt has our suggested answer as default, where hitting `<Enter>` will accept the default and continue the process.

All of these actions are logged to

`<INSTALL_DIR>/install/logfiles/install.log`.

Each of the following bullets is a primary prompt in the script. Refer to the manual instructions in Appendix A for additional information. The `install.rdm` script does the following:

- Ensures the database has been set up to prior specifications.
- Creates the Oracle RDM user that serves as the schema owner. A name, password and a temporary tablespace for this user are required.
- Generates ddl in the RDM schema.
- Creates all other database objects for RDM 10.0. This includes packages, procedures, and functions.
- Creates the views and triggers that rely on the database objects to compile successfully.
- Runs required data from sql scripts.

If at any point you choose to exit the `install.rdm` script, the next time it is run, it will ask you if you wish to continue where you last left off. Answering Yes causes the script to pick up after the last successful section that was run. Answering No causes the script to start at the beginning. The `install.rdm` script is located at `<INSTALL_DIR>/install/install.rdm`.

**Note:** The `install.rdm` script was written to install the RDM 10.0.0.0 components in a particular order. Use the `<S>` Skip option with caution!

**Note:** A value must be changes in the table `scp` with the Facility ID of `DC_dest_ID`. The `spc_current_val` should be 1 instead of 100

### Additional step

Run RIB-specific data

These scripts run in specific data for your RDM system to work.

Run the following scripts from `<INSTALL_DIR>/install/sqlplus:`

- `Retek10addtype.sql`
- `Retek10countries.sql`
- `Retek10currencies.sql`
- `Retek10states.sql`
- `Retek10uom.sql`
- `retek10uomconv1.sql`
- `retek10uomconv2.sql`

### Verify that all database objects are valid

- 1 Change directories to <INSTALL\_DIR>/install/utility.
- 2 Log into Oracle as the RDM 10.0.0.0 schema owner.
- 3 Enter:  

```
SQL> @inv_obj_comp.sql
```

This script will recompile any invalid objects in the schema. You might want to run this script several times to validate all the objects.

### Oracle Net Services

Refer to Oracle's install guide for information on configuring Net Services.

**Note:** See Appendix B for sample listener.ora and tnsnames.ora files. Pay special attention to the expproc entry, which is required for the scaling functionality.



## Chapter 3 – Application server installation instructions

### UNIX (Sun Solaris/ HPUX/AIX)

**Note:** `INSTALL_DIR` is the directory where the RDM files will be extracted from its tar file. `9IAS_ORACLE_HOME` is the directory chosen as the `ORACLE_HOME` to be used for the 9IAS installation

### Install and Configure Oracle 9IAS

#### Oracle9i Application Server (9IAS) 1.0.2.X – UNIX

**Note:** The Oracle installation tools vary by platform. The essential information is given below, but additional questions/options may be presented during the installation. In these cases, use Oracle's default setting, or consult Oracle support. Oracle also recommends staying current on the patches for Developer 6i, so check with Oracle support for the latest patch level.

- 1 Log into the application server as `oracle`. The installation can also be done by a user other than `oracle`, but that user must be in the `dba` group.
- 2 Insert the Oracle9i Application Server CD into CD-ROM.
- 3 Read the `readme.txt` file and ensure that the server configuration meets Oracle's requirements. Make sure to complete all pre-installation requirements.
- 4 Start the Oracle Installer.

**Note:** Run Oracle Installer from a location other than `/cdrom`.

- 5 On the Welcome page, click **Next**.
- 6 Check that the source and destination settings are correct (your `ORACLE_HOME` for 9IAS).

**Note:** 9IAS cannot share an `ORACLE_HOME` with other Oracle products.

- 7 Select Enterprise Edition.
- 8 Choose the following the products to install:
  - Forms and Reports Server
  - Oracle HTTP Server
- 9 On the Database Access Descriptor (DAD) for Oracle9i as Portal page, do not enter any information. Click **Next**.
- 10 On the Database Access Descriptor (DAD) for the Login Server page, do not enter any information. Click **Next**.
- 11 On the Wireless Edition repository information page, do not enter any information. Click **Next**.

- 12 On the Wireless Edition schema information page, do not enter any information. Click **Next**.
- 13 On the System Password page, do not enter any information. Click **Next**.
- 14 On the summary page, check the product list again.
- 15 Click **Install** to begin installation.
- 16 Change CDs when prompted.
- 17 Log in as the `root` user, run `/9IAS_ORACLE_HOME/root.sh` as prompted.

### Environment variables

- 1 Set and export your `DISPLAY` variable.  
Example: `export DISPLAY=10.1.2.153:0.0`
- 2 Set the following variables:
  - `export FORMS60_PATH= <INSTALL_DIR>/rdm/forms/bin`  
(fill in the appropriate values for `<INSTALL_DIR>`)
  - `export UP=<db_user>/<db_user_password>@<oracle_db>`  
(the `db_user` should be the Retek RDM 10.0.0.0 oracle schema owner.)
  - `export LD_LIBRARY_PATH= 9IAS_ORACLE_HOME/6iserver/lib:  
9IAS_ORACLE_HOME/6iserver/network/jre11/lib/sparc/native_threads`
  - `export REPORTS60_PATH=<INSTALL_DIR>/rdm/reports/bin`

### Compile RDM Oracle forms and reports

To compile the RDM 10.0 Oracle Forms, do the following:

#### Build the file structure

- 1 Insert the RDM 10.0 CD-ROM, log in as user `retex`, and change directories to the `appserverunix` directory on the cd.
- 2 Determine where you want to install the RDM 10.0 application server files.  
**Note:** RDM 10.0 application files require 1 GB of disk space.
- 3 Run the script `buildapp_10.run`. This prompts you for the path where RDM 10.0 is to be installed. This will be referred to as `<INSTALL_DIR>` in the remainder of the documentation.  

```
cd appserverunix
./buildapp_10.run
```
- 4 The resulting file structure located at `<INSTALL_DIR>` will contain directories for one RDM environment. The `/rdm` directory contains the RDM 10.0 source code. Additional environments can be created as necessary.
- 5 The `installapp.rdm` script walks you through most of the manual install processes described in Appendix B. The `installapp.rdm` script compiles libraries, forms and menus.

- 6 Each of the following bullets is a primary prompt in the script. Refer to the manual instructions in Appendix B for additional information. The installapp.rdm script does the following:
  - compiles plls
  - compiles and insert forms into database
  - compiles reference forms
  - compiles forms
  - compiles menus
  - compile reports

**Note:** During the automated appserver compilation the reference forms (all 11) are compiled using command line calls to f60genm. In the case of the reference forms, the command line call will try to generate forms executables (FMXs) during the automated compilation. Six reference forms (fmmbk36.fmb, fmmult36.fmb, fmtmbk.fmb, ffmtmulti.fmb, fmtwork.fmb, fmwork36.fmb) are not supposed to compile. Of the remaining five forms, only two will compile successfully from the command line - fmdate36.fmb and fmdate.fmb. The other three (fm\_refer.fmb, fmrefe36.fmb, and fmrefer.fmb) will error out with an error such as:

FRM-30173: Module contains no canvases.

Form: FMTREFER

FRM-30085: Unable to adjust form for output.

Careful examination of the log files will show that the compile for fm\_refer.fmb, fmrefe36.fmb, and fmrefer.fmb is successful but that the generation of the form executable (FMX) for these three fails with the above error. This is because these three forms do not contain a canvas - hence the compiler cannot create a runtime fmx for the form.

## Configuring 9IAS (UNIX)

- 1 Copy the following files at <INSTALL\_DIR>/web\_html/samplefiles/ to a temporary directory in your home directory:
  - ias\_web\_start – used to start http server and Developer 6i server
  - ias\_web\_stop – used to stop the http server and Developer 6i server.
  - rdm\_env – Contains environment variable information used by ias\_web\_start.
- 2 Edit these scripts, replacing 9IAS\_ORACLE\_HOME with the Oracle Home used during the installation of 9IAS, and replacing <RDM\_INSTALL\_DIR> with the directory where RDM 10 was installed.
 

ias\_web\_start will be used to start the Web environment, while ias\_web\_stop will be used to shut down the middle tier. rdm\_env is used by both scripts to set environment variables necessary for execution. All three scripts should be placed in a common directory. The location of these files should be included in user oracle's PATH variable setting.

- 3 Copy the file <INSTALL\_DIR>/web\_html/samplefiles/rdmunix.conf to 9IAS\_ORACLE\_HOME/Apache/Apache/conf.

This file contains the RDM-specific settings that need to be added to the httpd.conf configuration file that was generated during the installation of 9IAS and is located at 9IAS\_ORACLE\_HOME/Apache/Apache/conf. After replacing all occurrences of 9IAS\_ORACLE\_HOME and <RDM\_INSTALL\_DIR> with your environment's information, append the contents of rdmunix.conf to the end of httpd.conf and then rename it to rdm.conf. You will also need to look through the file and make the following settings (or verify that they are set correctly).

```
Port          HTTP_PORT

ServerAdmin   <set to an admin email account>

ServerName    SERVER_NAME

DocumentRoot  <INSTALL_DIR>\web_html

<Directory <INSTALL_DIR>\web_html> (must be same as
DocumentRoot)
```

- 4 Copy the file <INSTALL\_DIR>/web\_html/samplefiles/T2kMotif.rgb to 9IAS\_ORACLE\_HOME/6iServer/guicommon6/tk60/admin/. This file allows the Forms server to run using the Oracle UTF8 toolset.

### Check Web environment directory structure

- 1 Go to directory <INSTALL\_DIR>/web\_html.
- 2 Verify that the following directories exist:
  - temp
  - log
  - jinitiator
  - gif
  - reptime
  - help
  - helpfiles

### Miscellaneous configuration tasks

- 1 Add an entry for the database tnsnames.ora file at:  
9IAS\_ORACLE\_HOME/network/admin/tnsnames.ora
- 2 Add an entry for the database tnsnames.ora file at:  
9IAS\_ORACLE\_HOME/6iserver/network/admin/tnsnames.ora

Here is a sample entry:

```
DB_SID=(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=tcp
) (host=DB_SERVER_NAME) (Port=DB_LISTENER_PORT))) (CONNECT_
DATA=(SID=DB_SID) (GLOBAL_NAME=SID.world)))
```

## Edit the netscape\_11814.html file

The file is located in <INSTALL\_DIR>/web\_html/jinitiator.

- 1 Fill in the correct values for SERVER\_NAME and PORT.
- 2 Save the file.

This file will allow jinitiator to be dynamically installed on clients when accessed for the first time.

## Modify the following file

Modify file

9IAS\_ORACLE\_HOME/6iserver/Forms60/java/oracle/Forms/registry/Registry.dat

- Set the default.icons.iconpath entry near the end of the file:  
default.icons.iconpath=/web\_gif/

## Copy the keyboard mapping configuration file to the Forms admin directory

- Copy the file fmrweb.res, found in  
<INSTALL\_DIR>/web\_html/samplefiles, to  
9IAS\_ORACLE\_HOME/6iserver/forms60/admin/resource/US/.

## Create the Retek HTML start page

- 1 Copy rdm.html from <INSTALL\_DIR>/web\_html/samplefiles to  
<INSTALL\_DIR>/web\_html.
- 2 Modify the serverPort setting in the file to point at the port where you are starting your Forms server (refer to ias\_web\_start – the default is 10001).

## Install the Oracle Jinitiator Component on the Server

Jinitiator 1.1.8.14 is included on the RDM10.0 file structure in the directory  
<INSTALL\_DIR>/web\_html/jinitiator.

- Check to make sure the file jinit11814.exe is there.

### Browser requirements:

You will need IE 5.0 Netscape 4.7 (or higher version) as your Web browser to use RDM 10.0.

## Test the system

- 1 Run ias\_web\_stop then run ias\_web\_start to bounce the Web processes.
- 2 Connect the client to the server by issuing:

http://SERVER\_NAME:HTTP\_PORT/rdm.html

The first time that you connect to the server, the *jinitiator* will download and install. The *jinitiator* download will occur the first time that each machine accesses RDM.

- 3 Restart the browser after jinitiator is installed.

## Application server software installation instructions

### Windows (NT, Windows 2000)

#### Install Oracle9i Application Server (iAS) 1.0.2.X– **NT-Windows 2000**

**Note:** The Oracle installation tools vary by platform. The essential information is given below, but sometimes, additional questions/options may be presented during the installation. In these cases, use Oracle's default setting or consult Oracle support. . Oracle also recommends staying current on the patches for Developer 6i, so check with Oracle support for the latest patch level.

- 1 Log in to the machine as the local administrator.
- 2 Insert the Oracle9i Application Server CD into CD-ROM.
- 3 Read the readme.txt file and ensure the server configuration meets Oracle's requirements. Make sure to complete all pre-install requirements.
- 4 The Installer runs automatically.
- 5 On the Welcome page, click **OK**.
- 6 Select Enterprise Edition.
- 7 Select the ORACLE HOME NAME and ORACLE HOME LOCATION for 8.1.7 RSF-based products (this page is displayed if this is the first Oracle product installed on the machine).
- 8 Enter the ORACLE HOME NAME and ORACLE HOME LOCATION for the Oracle9iAS install.

**Note:** 9IAS cannot share an ORACLE\_HOME with other Oracle products.

- 9 Select the ORACLE HOME NAME and ORACLE HOME LOCATION for 8.0.6 RSF-based products (this screen appears if this is the first Oracle product install on the machine this will be the directory... accept the default setting, which is different than that for 8.1.7 RSF-based products)
- 10 Choose to install Forms and Reports Server and Oracle HTTP Server .
- 11 On the Database Access Descriptor [DAD] page for Oracle9iAS Portal, do not enter any information. Click **Next**.
- 12 On the Database Access Descriptor [DAD] page for Login Server, do not enter any information. Click **Next**.
- 13 On the Wireless Edition repository information...page, do not enter any information. Click **Next**.
- 14 On the Wireless Edition schema information... page, do not enter any information. Click **Next**.
- 15 On the ...SYSTEM Password for Wireless Edition page, do not enter any information. Click **Next**.
- 16 On the summary page, check the product list again.
- 17 Click **Install** to begin the installation.

- 18 Change CDs when necessary.
- 19 The installation is now complete.

## Configure Oracle9i Application Server (iAS) 1.0.2.X – **NT**

- 1 After the installation above, your iAS HTTP listener might have automatically been started. Follow these instructions to shut down the http listener.  
  
By default, the Oracle HTTP server will be installed under 9IAS\_ORACLE\_HOME/iSuites; and 6iserver will be installed under 9IAS\_ORACLE\_HOME /806.  
  
  - a Make sure the PATH system property contains the following entries:  
 9IAS\_ORACLE\_HOME/iSuites/Apache/Apache  
 9IAS\_ORACLE\_HOME/iSuites/Apache/Apache/bin  
 9IAS\_ORACLE\_HOME /iSuites/BIN  
 9IAS\_ORACLE\_HOME /806/BIN
  - b At a DOS prompt, use the command “apache -k shutdown” to stop the http process.
- 2 Unzip the file appservernt.exe from your cd directory, /appservernt, to you <INSTALL\_DIR>
- 3 Copy <INSTALL\_DIR>\web\_html\samplefiles\rdmnt.conf to 9IAS\_ORACLE\_HOME\iSuites\Apache\Apache\conf  
  
This file contains the RDM-specific settings that need to be added to the httpd.conf configuration file that was generated during the installation of 9IAS. The file is located at 9IAS\_ORACLE\_HOME\iSuites\Apache\Apache\conf.
- 4 After replacing all occurrences of 9IAS\_ORACLE\_HOME and <RDM\_INSTALL\_DIR> with your environment’s information, add the contents of rdmt.conf to the end of httpd.conf.
- 5 Rename httpd.conf to rdm.conf.
- 6 Look through the file and make the following settings(or verify that they are set correctly):
  - Port HTTP\_PORT
  - ServerAdmin <set to an admin e-mail account>
  - ServerName SERVER\_NAME
  - DocumentRoot <INSTALL\_DIR>\web\_html
  - <Directory <INSTALL\_DIR>\web\_html> (must be the same value as DocumentRoot)
- 7 Modify  
9IAS\_ORACLE\_HOME\806\Forms60\java\oracle\Forms\registry\Registry.d  
at file:

Near the end of file, add “/web\_gif/”, so that the iconpath setting looks like “default.icons.iconpath=/web\_gif/”

- 8 Copy `apache_start`, `apache_stop`, and `rdm_form.bat` from `<INSTALL_DIR>\web_html\samplefiles` to the directory on your server that will be used to start and stop the Web processes.
- 9 Replace any references to `9IAS_ORACLE_HOME` or `<RDM_INSTALL_DIR>` with your environment’s values. You can choose which port you’d like your Forms server to listen at if you wish by modifying `run_form.bat`– the default is 10001.

- 10 Make the following entries in the registry at `HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\HOME0`:

```
REPORTS60_PATH
<INSTALL_DIR>\rdm\forms\bin

REPORTS60_PHYSICAL_MAP
    <INSTALL_DIR>\web_html\temp

REPORTS60_SHARED_CACHE          YES

REPORTS60_VIRTUAL_MAP           /reptemp

REPORTS60_WEBLOC                /reptemp

REPORTS60_WEBLOC_TRANSLATED
    <INSTALL_DIR>\web_html\temp

REPORTS60_TMP
    <INSTALL_DIR>\web_html\reptemp
```

- 11 Copy `rdm.html` from `<INSTALL_DIR>\web_html\samplefiles` to `<INSTALL_DIR>\web_html`.
- 12 Modify the `serverPort` setting in the file to point at the port where you are starting your Forms server (refer to `rdm_form.bat`).
- 13 Edit the `netscape_11814.html` file located at `<INSTALL_DIR>/jinitiator`. Replace `SERVER_NAME` and `HTTP_PORT` with the values for your environment.
- 14 Add an entry for the database into the `tnsnames.ora` files at `9IAS_ORACLE_HOME\iSuites\network\admin\tnsnames.ora` and `9IAS_ORACLE_HOME\806\net80\admin\tnsnames.ora`

Here is a sample entry. Substitute your environment’s setting for `DB_SID`, `SERVER_NAME`, and `DB_LISTENER_PORT`.

```
DB_SID=(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=tcp
) (host=DB_SERVER_NAME) (Port=DB_LISTENER_PORT))) (CONNECT_
DATA=(SID=DB_SID) (GLOBAL_NAME=DB_SID.world)))
```

- 15 Copy the file `fmrweb.res` from `<INSTALL_DIR>\web_html\samplefiles` to `9IAS_ORACLE_HOME\806\Forms60\admin\resource\US`. This is the file that controls keyboard mapping for the RDM application.



- 16 Test your environment: Start up your RDM environment by running `apache_start.bat` and `rdm_form.bat` from the directory chosen in #3 above. You can access the application by going to [http://SERVER\\_NAME:HTTP\\_PORT/rdm.html](http://SERVER_NAME:HTTP_PORT/rdm.html)



## Appendix A – Manual database installation instructions

Complete either the steps in this appendix or steps 5 and 6 from the primary installation process. Before beginning these steps, verify that steps 1 through 4 have been completed in the primary installation instructions for the database server.

**Note:** Beginning after mounting the CDROM in Getting started, Create the file structure, step 4 from the primary installation process.

- 1 Create a directory for the system. It will be referred to as <INSTALL\_DIR> for the remainder of this document.

- 2 Copy the dbserver.Z to the <INSTALL\_DIR>.

- 3 Uncompress the file:

```
uncompress dbserver.Z
```

- 4 Untar the file:

```
tar xvf dbserver
```

This creates the directory structure in which the RDM 10.0 files will reside. The tarfile will not retain the permissions settings they had when leaving Retek, so verify that the source code is protected by altering the permissions with the chmod command. Keep in mind there will be some directories that need to be written to during this install process.

- 5 The directory structure will look like this:

```
<INSTALL_DIR>/
```

```
install/
```

```
    db_objects/          -Packages, procedures, functions, shared
libraries.
```

```
    ddl/                  -DDL files.
```

```
    installer_scripts/    -Scripts used by the install utility.
```

```
    logfiles/             -Installation log directory.
```

```
    sqlplus/              -Scripts to populate required data.
```

```
    utility/              -Various useful scripts.
```

```
sample_profiles/         -A profile to aid environment setup
```

- 6 The files necessary for the server portion of the database installation reside in the directory structure above.
- 7 Verify that all files are owned by retek and belong to the dba group. Make ownership and group changes if necessary.
- 8 Log into Unix as Root.

- 9 Change directory to <INSTALL\_DIR> and use the following UNIX commands to change the owner and group:

- `chown -R retek *`
- `chgrp -R dba *`

- 10 Create RDM 10.0 Schema owner in Oracle Instance:

**Note:** The following commands can be issued by calling the `/<INSTALL_DIR>/install/installer_scripts/create_users.sql` script when logged onto the database as system.

Create the ORACLE user that will correspond to the *rdm1000* environment.

- a Log into SQLPLUS as the user `system`.
- b Enter the following commands, replacing the text in the brackets with the appropriate names:

```
SQL>CREATE USER <RDM 10 Schema Owner> IDENTIFIED BY
<Password>
```

```
DEFAULT TABLESPACE users
```

```
TEMPORARY TABLESPACE temp;
```

```
SQL>GRANT DBA TO <RDM 10 Schema Owner>;
```

```
SQL>GRANT EXECUTE ON DBMS_AQADM TO <RDM 10 Schema
Owner>;
```

```
SQL>GRANT EXECUTE ON DBMS_AQ TO <RDM 10 Schema Owner>;
```

```
SQL>GRANT AQ_ADMINISTRATOR_ROLE TO <RDM 10 Schema
Owner>;
```

```
SQL>GRANT AQ_USER_ROLE TO <RDM 10 Schema Owner>;
```

```
SQL>exec DBMS_AQADM.GRANT_TYPE_ACCESS('<RDM 10 Schema
Owner>');
```

```
SQL>CREATE ROLE wms_user;
```

```
SQL>GRANT connect,
        resource,
        delete any table,
        execute any procedure,
        insert any table,
        select any table,
        select any sequence,
        update any table
        TO wms_user;
```

```
SQL>CREATE USER rdmusr IDENTIFIED BY rdmusr
      DEFAULT TABLESPACE users
      TEMPORARY TABLESPACE temp;
```

```
SQL>GRANT wms_user TO rdmusr;
```

- c The ORACLE user <RDM 10 Schema Owner> will serve as the owner of the database objects and should be granted the following permissions. Login to SQLPLUS as the user sys and enter the following command:

```
SQL>GRANT EXECUTE ON DBMS_LOCK TO <RDM 10
Schema Owner>
```

```
SQL>GRANT EXECUTE ON DBMS_PIPE TO <RDM 10
Schema Owner>
```

# 11 Create DDL for RDM 10 owner.

- a Log into UNIX as the retek user.
- b Change directories to: <INSTALL\_DIR>/install/ddl. This directory contains the scripts required in order to create the tables, indexes and constraints within the RDM for a test, small, medium or large size database.
- c To start the scripts, log in to SQLPLUS as the ORACLE user (<RDM 10 Schema Owner>) and enter the following command:

*For a test database:*

```
SQL> @create_tables_test.sql
```

*For a small database:*

```
SQL> @create_tables_small.sql
```

*For a medium database:*

```
SQL> @create_tables_med.sql
```

*For a large database:*

```
SQL> @create_tables_large.sql
```

This runs all of the scripts needed to create tables, indexes, constraints, sequences, and views for the user. A spool file will be created named rdm10.log which is in <INSTALL\_DIR>/install/logfiles.

- d Check the log file upon completion to verify that no errors were received.

## 12 Install base data:

- a Log into UNIX as `rettek` and change directories to `<INSTALL_DIR>/install/sqlplus`.
- b Run the `create_base_data.sql` file to start all the scripts. To do this, log in to SQLPLUS as the user `<RDM 10 Schema Owner>` and enter the following:

```
SQL> @create_base_data.sql
```

A spool file named `create_base_data.log` will be created in `<INSTALL_DIR>/install/logfiles`.

- c Check the log file upon completion to verify that the file has no errors.

## 13 Create remainder of ddl:

- a Log into UNIX as the `rettek` user.
- b Change directories to: `<INSTALL_DIR>/install/ddl`. This directory contains scripts required in order to create the remainder of the ddl.
- c Run the `create_tables2.sql` file to start all the scripts. To do this, log in to SQLPLUS as the user `<RDM 10 Schema Owner>` and enter the following:

```
SQL> @create_tables2.sql
```

A spool file named `create_tables2.log` will be created in `<INSTALL_DIR>/install/logfiles`. Verify that this file has no errors upon completion.

## 14 Create the remainder of the data base objects:

- a Log into UNIX as the `rettek` user.
- b Change directories to: `<INSTALL_DIR>/install/db_objects`. This directory contains the scripts required in order to create the remainder of the database objects.
- c Run the `create_db_objects.sql` file to start all the scripts. To do this, log in to SQLPLUS as the user `<RDM 10 Schema Owner>` and enter the following:

```
SQL> @create_db_objects.sql
```

A spool file named `create_db_objects.log` will be created in `<INSTALL_DIR>/install/logfiles`. Verify that this file has no errors upon completion.

## 15 Rebuild public synonyms script:

This script will rebuild your public synonyms for you schema owner.

- a Log into UNIX as the `retex` user.
- b Change directories to: `<INSTALL_DIR>/install/utility`.
- c Run the `bld_syn_script` file to start all the scripts. To do this, log in to SQLPLUS as the user `<RDM 10 Schema Owner>` and enter the following:

```
SQL> @bld_syn_script.sql <RDM 10 Schema Owner>
```

**Note:** Make sure you enter the `<RDM 10 Schema Owner>` after the script so the script will know which user's synonyms to rebuild.

## 16 Create remaining views and triggers:

Now that all of the stored objects exist in the database, the rest of the views and triggers can be created. The `create_vwtr.sql` script (which runs `create_views.sql` and `create_triggers.sql`) will spool to the `create_vwtr.log` file in the `<INSTALL_DIR>/install/logfiles` directory.

- a To create the remaining views and triggers, change directories to `<INSTALL_DIR>/install/ddl`.
- b Log in to SQLPLUS as the ORACLE user `<RDM 10 Schema Owner>`.
- c From SQLPLUS, enter the following command:

```
SQL> @create_vwtr.sql
```

- d When completed, view the spool files to verify that no errors were found.

17 Run `inv_obj_comp.sql`

To validate all the objects, run the script `inv_obj_comp.sql`.

- a Change directories to `<INSTALL_DIR>/install/utility`.
- b Log in to SQLPLUS as the ORACLE user `<RDM 10 Schema Owner>`.
- c From SQLPLUS, enter the following commands:

```
SQL> @inv_obj_comp.sql
```

- d Continue until there are no invalid objects.

## 18 Run the patch updater script:

This is the sql script that inserts the patch version into the `Patches_Installed` table when a new patch is installed. To run this script:

- a Change directories to `<INSTALL_DIR>/install/ddl`.
- b Log in to SQLPLUS as the ORACLE user `<RDM 10 Schema Owner>`.
- c From SQLPLUS, enter the following command:

```
SQL> @update_patches.sql 10.0.0 <RDM 10 Schema Owner>  
ORACLE_SID
```

## 19 Apply referential integrity:

This script will apply all of your foreign keys. To run this script:

- a Change directories to <INSTALL\_DIR>/install/ddl.
- b Log in to SQLPLUS as the ORACLE user <RDM 10 Schema Owner>.
- c From SQLPLUS, enter the following commands:
 

```
SQL> @apply_ref_integ.ddl
```
- d When completed, view the spool files to verify that no errors were found.

## 20 Create Forms60 Tables:

This is the sql script that creates public synonyms. To run this script:

- a Change directories to <INSTALL\_DIR>/install/ddl.
- b Log in to SQLPLUS as the ORACLE user system.
- c From SQLPLUS, enter the following commands:
 

```
SQL> @create_forms60_tables.sql
```

**Note:** The first time you run this, it will not be able to drop some of the pieces that get created by this script. Also, you may not be able to drop the primary keys for ROSLFDESC or ROSTFDESC if they do not exist.

## 21 Load additional Data

This is the sqlldr script adds additional data. To run this script:

- a Change directories to <INSTALL\_DIR>/install/sqlplus.
- b At the UNIX prompt, enter the following command:
 

```
$sqlldr <RDM 10 Schema Owner>/<password>
control=rib_doctypes_rdm.ctl
```

## 22 Run Rib Specific Data:

These scripts run in specific data for your RDM system to work.

Run the following scripts from <INSTALL\_DIR>/install/sqlplus:

- Retek10addtype.sql
- Retek10countries.sql
- Retek10currencies.sql
- Retek10states.sql
- Retek10uom.sql
- retek10uomconv1.sql
- retek10uomconv2.sql

**Note:** A value must be changes in the table scp with the Faciltity ID of DC\_dest\_ID. The spc\_current\_val should be 1 instead of 100



## Appendix B – Manual application server installation instructions

### Compile RDM Oracle Forms and Reports

#### Setup

To compile the RDM 10.0 Oracle Forms, do the following:

##### Create the file structure

- 1 Insert the RDM 10.0 CD-ROM into the Application Server.
- 2 Log in as user `retex`.
- 3 Change directories to the `appserverunix` directory on the CD.
- 4 Determine where you want to install the RDM 10.0 application server files.

**Note:** RDM 10.0 application files require 1 GB of disk space.

- 5 Run the script `buildapp_10.run`. This will prompt you for the path where RDM 10.0 is to be installed. This will be referred to as `<INSTALL_DIR>` in the remainder of the documentation.

```
> cd appserverunix
> ./buildapp_10.run
```

The resulting file structure located at `<INSTALL_DIR>` will contain directories for one RDM environment. The `/rdm` directory contains the RDM 10.0.0.0 source code. Additional environments can be created as necessary.

**Note:** Be sure that `9IAS_ORACLE_HOME/6iserver/bin` is in your **PATH**. Consult the Oracle documentation for other environment settings that are necessary for your platform.

#### Environment variables

- 1 Set and export your `DISPLAY` variable.  
Example: `export DISPLAY=10.1.2.153:0.0`
- 2 Set the following variables.  
`export FORMS60_PATH= <INSTALL_DIR>/rdm/forms/bin`  
(fill in the appropriate values for `<INSTALL_DIR>`)  
`export UP=<db_user>/<db_user_password>@<oracle_db>`  
(the `db_user` should be the Retek RDM 10.0.0.0 oracle schema owner.)  
`export LD_LIBRARY_PATH=`  
`9IAS_ORACLE_HOME/6iserver/lib:9IAS_ORACLE_HOME/6iserver/`  
`network/jre11/lib/sparc/native_threads`  
`export REPORTS60_PATH=<INSTALL_DIR>/rdm/reports/bin`

## Compile RDM Libraries (\*.pll)

- 1 Change directories to <INSTALL\_DIR>/rdm/forms/src.
- 2 Move all of the libraries (.pll files) in the <INSTALL\_DIR>/rdm/forms/src directory to the <INSTALL\_DIR>/rdm/forms/bin directory.
- 3 cd to <INSTALL\_DIR>/rdm/forms/bin directory.
- 4 Start the Form Builder tool to compile all libraries for the RDM application

```
> f60desm &
```

- a A blue GUI interface will be displayed. Click Cancel at the welcome page.
- b Choose File → Connect. Log into the database as the Retek oracle schema owner.
- c Compile the libraries in the following order and generate plx:

```
messge36.pll
hint.pll
stand36.pll
calend36.pll
d2kcoord.pll
d2kwutil.pll
D2kwutil.pll
dc_view_lib.pll
drag.pll
facility_setup.pll
general.pll
naut_library.pll
og.pll
pcsddate.pll
report_setup.pll
windows.pll
naut_hh_library.pll
naut_gui_library.pll
lib_labor_prod.pll
init_naut.pll
naut_tm_library.pll
d2kcomn.pll
```

- 5 For each library file:
  - a Choose File > Open.
  - b Select <INSTALL\_DIR>/rdm/forms/bin/FILENAME.pll.
  - c Click **OK**.
  - d Once the library is loaded, select the library name, select Program, and choose Compile > All.
  - e After the compilation, select library name, and press Ctrl + T to generate plx file.
  - f After successful compilation and generating plx , save and close the library.

### Inserting RDM Libraries into Database

- 1 Change directories to <INSTALL\_DIR>/rdm/forms/src.
- 2 Set environment variable UP  
UP=Retek oracle schema owner/password@connect\_string
- 3 Use the compile\_lib.sh script located in that directory to insert libraries for the Database user.  

```
> chmod 755 compile_lib.sh (if necessary) .
> ./compile_lib.sh
```

### Compile Reference Forms (fm\*.fmb)

- 1 Change directories to <INSTALL\_DIR>/rdm/forms/src.
- 2 Move reference forms (fm\*.fmb) from <INSTALL\_DIR>/rdm/forms/src to <INSTALL\_DIR>/rdm/forms/bin.  

```
mv fm*.fmb ../bin
```
- 3 Compile the following reference forms:
 

```
fmdate36.fmb
fmtdate.fmb
fm_refer.fmb
fmrefe36.fmb
fmtrefer.fmb
```

**Note:** There are some reference forms that you move but do not compile.

- 4 Using your Form Builder session (f60desm&), navigate to <INSTALL\_DIR>/rdm/forms/bin/ and compile five reference form mention in step 3 in the <INSTALL\_DIR>/rdm/forms/bin/ directory:
  - a Choose File > Open.
  - b Select <INSTALL\_DIR>/rdm/forms/bin/\*.fmb.
  - c Click **OK**.
  - d Once the reference form is “loaded”, select the form name, select Program, and choose Compile > All.
  - e After successful compilation, click **OK**.
  - f Save and close the reference form.

The reference forms have been compiled and should now reside in the bin directory.

### Compile forms (\*.fmb)

- 1 Change directories to <INSTALL\_DIR>/rdm/forms/src.
- 2 Use the fmb2fmx script located in that directory to compile and generate the executable forms (fmx).
 

```
> chmod 755 fmb2fmx (if necessary).
> ./fmb2fmx
```
- 3 Check to make sure each .fmb file has a corresponding .fmx file. If a form fails to compile (there is no .fmx file), you may have to manually compile the form by launching the form builder tool.(f60desm&)
- 4 All resulting .fmx files need to be moved to the <INSTALL\_DIR>/rdm/forms/bin directory. From the <INSTALL\_DIR>/rdm/forms/src directory, issue the following command:
 

```
> mv *.fmx ../bin
```

### Compile menus (\*.mmb)

- 1 Change directories to <INSTALL\_DIR>/rdm/forms/src
- 2 Use the mmb2mmx script located in that directory to compile and generate the executable form menu \*.mmx.
 

```
> chmod 755 mmb2mmx (if necessary).
> ./mmb2mmx
```
- 3 The resulting \*.mmx files need to be moved to the <INSTALL\_DIR>/rdm/forms/bin directory. From the <INSTALL\_DIR>/rdm/forms/src directory, issue the following command:
 

```
> mv *.mmx ../bin
```

## Compile reports (\*.rdf)

- 1 Change directories to <INSTALL\_DIR>/rdm/reports/src
- 2 All \*.rdf files need to be moved to the <INSTALL\_DIR>/rdm/reports/bin directory. From the <INSTALL\_DIR>/rdm/reports/src directory, issue the following command:  

```
> mv *.rdf ../bin
```



## Appendix C – Sample NET 8 files for the server

### listener.ora

Below is a sample listener.ora file.

retek01 specifies the name of the server where the listener is located.

RETEK specifies the name of the Oracle instance that contains the Retek schema.

```
#####
# File: listener.ora
# Desc: Oracle Net8 listener file.
#####

CONNECT_TIMEOUT_LISTENER = 20
LOG_FILE_LISTENER = LISTENER.log
STARTUP_WAIT_TIME_LISTENER = 0

#-----#
# Valid trace levels are:  OFF | USER | ADMIN | SUPPORT  #
#-----#

TRACE_LEVEL_LISTENER = OFF
TRACE_FILE_LISTENER = LISTENER.trc
USER_PLUG_AND_PLAY_LISTENER = OFF
LISTENER =
  (DESCRIPTION_LIST =
    (DESCRIPTION =
      (PROTOCOL_STACK =
        (PRESENTATION = TTC) (SESSION = NS)
      )
      (ADDRESS =
        (PROTOCOL = tcp) (HOST = retek01) (PORT = 1521)
      )
      (ADDRESS =
        (PROTOCOL = IPC) (KEY = RETEK)
      )
    )
  )
#-----#
-----#
```

```

# The following SID_LIST_LISTENER entry is required only if you
are #
# connecting to an Oracle database version lower than 8.1.5.
#
#-----#
-----#

SID_LIST_LISTENER =
(
  (SID_LIST =
    (SID_DESC =
      (SID_NAME = RETEK)
      (<ORACLE_HOME >= /files0/oracle/product/8.0.5)
      (PRESPAWN_MAX = 99)
      (PRESPAWN_LIST =
        (PRESPAWN_DESC =
          (PROTOCOL = TCP)
          (POOL_SIZE = 0)
          (TIMEOUT = 1)
        )
      )
    )
  )
)

#####
#
# Seperate listener process used to handle external procedure
# calls. All of the following entries are required and may
# require
# some changes to match your system. Oracle suggests that the
# LISTENER_EXTPROC be started by a Unix account other than
# oracle.
#
#####

CONNECT_TIMEOUT_LISTENER_EXTPROC = 20
LOG_FILE_LISTENER_EXTPROC = LISTENER_EXTPROC.log
STARTUP_WAIT_TIME_LISTENER_EXTPROC = 0
#-----#

```



```

# Valid trace levels are:  OFF | USER | ADMIN | SUPPORT  #
#-----#

TRACE_LEVEL_LISTENER_EXTPROC = OFF
TRACE_FILE_LISTENER_EXTPROC = LISTENER_EXTPROC.trc
USER_PLUG_AND_PLAY_LISTENER_EXTPROC = OFF

LISTENER_EXTPROC =
  (DESCRIPTION_LIST =
    (DESCRIPTION =
      (PROTOCOL_STACK =
        (PRESENTATION = TTC)
        (SESSION = NS)
      )
      (ADDRESS =
        (PROTOCOL = tcp) (HOST = retek01) (PORT = 1522)
      )
    )
  )
  (ADDRESS =
    (PROTOCOL = IPC) (KEY = extproc_key)
  )
)

SID_LIST_LISTENER_EXTPROC =
  (SID_LIST =
    (SID_DESC =
      (PROGRAM = extproc)
      (GLOBAL_DBNAME = extproc_agent.world)
      (SID_NAME = extproc_agent)
      (<ORACLE_HOME >= /files0/oracle/product/8.1.5)
      (PRESPAWN_MAX = 99)
    )
  )
)

```

## tnsnames.ora

A tnsnames.ora file is required to connect to any Oracle database on your network. A sample tnsnames.ora is illustrated below. You will need to modify it appropriately to your environment. The extproc\_connection\_data entry is required along with the LISTENER\_EXTPROC entry in the listener.ora file to allow Oracle to access a Unix shell library that is required by one of the stored procedures in the database.

rettek01 specifies the name of the server where the listener is located.

RETEK specifies the name of the Oracle instance that contains the Retek schema.

```
#####
# File: tnsnames.ora
# Desc: Oracle Net8 TNS Names file.
#####

RETEK =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = rettek01) (PORT = 1521))
    (CONNECT_DATA = (SID = RETEK))
  )

RETEK.WORLD =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = rettek01) (PORT = 1521))
    (CONNECT_DATA = (SID = RETEK))
  )

EXTPROC_CONNECTION_DATA =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = IPC) (Key = extproc_key))
    (CONNECT_DATA = (SID = extproc_agent))
  )
```

## Appendix D – Database creation

The following is a sample script that creates the database necessary for the RDM 10.0. Some new 9i features are being used, like the UNDO tablespace, and specifying the TEMP file at creation time.

Note that there are some outstanding Oracle bugs with the new 9i features. Research new features with Oracle prior to implementing. You may decide not to implement these new features.

Note that a different character set may be required for your database. Check with Oracle regarding compatibility of the character set with Developer 6i, as not all character sets will work with Developer 6i. All scripts following the database creation must be run.

### Run as sys

Run all the following as sys, logged in as follows: sqlplus “sys as sysdba”

```
startup nomount pfile=${ORACLE_HOME}/dbs/initRETEK.ora
create database "RETEK"
    maxdatafiles 1000
    character set UTF8
    datafile
        '/files0/oradata/RETEK/system01.dbf' size 100M
    autoextend on next 100m maxsize 2000m
    logfile
        group 1 ('/files0/oradata/RETEK/red01a.log') size
10M,
        group 2 ('/files0/oradata/RETEK/redo2a.log') size
10M,
        group 3 ('/files0/oradata/RETEK/redo3a.log') size
10M
    default temporary tablespace temp tempfile
    '/files0/oradata/RETEK/temp01.dbf' size 300M
    undo tablespace undo_ts datafile
    '/files0/oradata/RETEK/undo_ts01.dbf' size 300M;
```

**REM \* Install data dictionary views**

```
PROMPT Running catalog.sql
@$ORACLE_HOME/rdbms/admin/catalog.sql
PROMPT Running catproc.sql
@$ORACLE_HOME/rdbms/admin/catproc.sql
PROMPT Running catblock.sql - optional but useful
@$ORACLE_HOME/rdbms/admin/catblock.sql
PROMPT Running catdbsyn.sql
@$ORACLE_HOME/rdbms/admin/catdbsyn.sql
```

**REM \* Grant these privs to all due to 9i security changes**

```
grant select_catalog_role to public;
grant execute_catalog_role to public;
grant execute on dbms_lock to public;
grant execute on dbms_ols to public;

PROMPT Running pupbld.sql
@$ORACLE_HOME/sqlplus/admin/pupbld.sql
```

**REM \* Install XDK and XSU**

```
PROMPT altering system to set _system_trig_enabled to
false
ALTER SYSTEM SET "_system_trig_enabled"=FALSE
SCOPE=MEMORY;
```

**PROMPT Run initjvm.sql to install Java objects**

```
@$ORACLE_HOME/javavm/install/initjvm.sql
```

**PROMPT Run initxml.sql to install XML and XSU**

```
@$ORACLE_HOME/rdbms/admin/initxml.sql
```

**PROMPT Create public synonyms and grants**

```
CREATE PUBLIC SYNONYM XMLDOM for SYS.XMLDOM;
CREATE PUBLIC SYNONYM XMLPARSER for SYS.XMLPARSER;
CREATE PUBLIC SYNONYM XSLPROCESSOR for SYS.XSLPROCESSOR;
CREATE PUBLIC SYNONYM XMLTYPE for SYS.XMLTYPE;
GRANT EXECUTE ON XMLDOM TO PUBLIC;
GRANT EXECUTE ON XMLPARSER TO PUBLIC;
GRANT EXECUTE ON XMLTYPE TO PUBLIC;
GRANT EXECUTE ON XSLPROCESSOR TO PUBLIC;
```

**REM \* Validate all invalid Java objects**

```
spool javascript.sql

select 'alter java class '||object_name||' compile;'
from dba_objects
where object_type = 'JAVA CLASS' and owner = 'SYS' and
status = 'INVALID';

spool off
@javascript.sql
```