

Retek®

Customer Order Management 10.1



Installation Guide (full)



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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 Customer Order Management products. The following are suggested hardware and software requirements:

Supported Media – Retek Customer Order 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 operating system 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 (RCOM 10.0)	Batch Libraries DDL (Views, Triggers, Tables etc.) Database Objects (Procedures, Packages) Control Scripts Data Scripts	Forms Reports Toolset 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 Customer Order Management System

Database Server

General Requirements for a database server capable of running RCOM 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 Website 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 RCOM 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 RCOM 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 RCOM 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 server installation instructions

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

Getting started

Creating 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 RCOM app)

The retek user will install and compile the Retek Customer Order Management 10.0 Database Server and Application Server objects on UNIX systems. The Oracle account should create the Oracle 9i database.

Modify the init.ora file in the \$ORACLE_HOME/dbs directory

- 1 Install Oracle 9i as the Oracle account.
- 2 Place the following in the init.ora:
 - nls_date_format = "DD-MON-RR"
 - job_queue_processes = <number of CPUs + 1>
 - open_cursors=900
- 3 Create a 9i database (see Appendix D for sample database create scripts).

Verify the existence of Oracle packages

The DBMS_SESSION, DBMS_RANDOM, DBMS_ALERT, DBMS_RLS, DBMS_DEFER, DBMS_REPUTIL, DBMS_REPUTIL2, DBMS_PIPE, and DBMS_JOB packages must be created in each database that RCOM 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 as sys and query the USER_OBJECTS view to verify whether or not the packages have been created.

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 in as the Oracle user sys.

Create ORACLE tablespaces

RCOM 10.0 requires that sixteen tablespaces be created initially for the RCOM installation.

- 1 Create the tablespaces RETEK_DATA, INDEX_DATA, TOOLS, CADD, CADX, COED, COEX, COELD, COELX, CUSTD, CUSTX, DISTD, DISTX, CURD, CURX and LOB_DATA.

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

- 2 The sizes of all of these tablespaces vary from client to client, depending on how much data the client intends on having in their environment. The recommended minimums are:

CADD	- 300 MB
CADX	- 800 MB
COED	- 400 MB
COELD	- 200 MB
COELX	- 500 MB
COEX	- 500 MB
CURD	- 5 MB
CURX	- 5 MB
CUSTD	- 5 MB
CUSTX	- 15 MB
DISTD	- 5 MB
DISTX	- 10 MB
INDEX_DATA	- 100 MB
LOB_DATA	- 50 MB
RETEK_DATA	- 100 MB
TOOLS	- 10 MB
USERS	- 100 MB

The system tablespace should have at least 100MB free for each installation of the RCOM 10.1 schema.

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 RCOM 10.1 install scripts will be installed. There should be about 500 MB of disk space available.
- 2 Make sure your ORACLE_SID and ORACLE_HOME environment variables are set correctly before installation. Also, make sure that ORACLE_HOME/bin is in your PATH.
- 3 Mount the CD on the database server and log into UNIX as retek.

There are four directories on the RCOM 10.1 CD: appserverunix, dbserverunix, appservernt and Retek Workbench. The dbserverunix directory contains the files for the database server install.

- 4 Change directories to dbserverunix.

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

To complete the install using the automated install scripts:

- 5 As the retek user run builddb_com.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 RCOM 10.1 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_com.run script copies a tarred and compressed file containing the database files to the specified directory on your server.
 - The builddb_com.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_com.run script cleans up any extra files produced.
 - The builddb_com.run script calls another script (install.com) to finish the remainder of the Database Server installation. See the *Install RCOM* section for more information.

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

Install RCOM

The install.com script walks you through most of the manual install processes described in Appendix A. The install.com script creates the Oracle schema owner for RCOM 10.1 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.com script does the following:

- Ensures the database has been set up to prior specifications.
- Creates the Oracle RCOM user that serves as the schema owner. A name, password and a temporary tablespace for this user are required.
- Grants the necessary privileges to the RCOM schema owner.
- Generates ddl in the RCOM schema.
- Creates all other database objects for RCOM 10.1. This includes packages, procedures, and functions.
- Creates the views and triggers that rely on the database objects to compile successfully.
- Inserts required data from sql scripts.
- Drop unneeded objects for 10.1 patch.
- Updates ddl for 10.1 patch.
- Import data for 10.1 patch.
- Update control tables for 10.1 patch.
- Update packages, procedures and functions for 10.1 patch.
- Update RIB XML packages, procedures and functions for 10.1 patch.
- Validates invalid objects.

If at any point you choose to exit the install.com 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 where you last left off. Answering No causes the script to start at the beginning. The install.com script is located at <INSTALL_DIR>/install/install.com.

Note: The install.com script was written to install the RCOM 10.1 components in a particular order. Use the <S> Skip option with caution!

Verify that all database objects are valid

- 1 Change directories to <INSTALL_DIR>/install/utility.
- 2 Log into Oracle as the RCOM 10.1 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 configuring Net Services.

Note: See Appendix C for a 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 RCOM 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 you should check with Oracle support for the latest patch level.

- 1 Create a UNIX user to be used as the 9IAS Administrator account. The 9IAS administrator user must be in the dba group. Log into the application server as the 9IAS Administration user (example: oracle).
- 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 the 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 Select 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
- 18 Run `/9IAS_ORACLE_HOME/root.sh` as prompted.

Compile RCOM Oracle Forms and Reports

Setup

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

Set up your environment variables

- 1 Set and export your `DISPLAY` variable to the IP address of the machine you are using to do the installation.
Example: `export DISPLAY=10.1.2.153:0.0`
- 2 Set the following variables: `INSTALL_DIR` is the location where you are planning on installing RCOM 10.

```
export FORMS60_PATH=<INSTALL_DIR>/rcom/forms/bin
```

```
export REPORTS60_PATH=<INSTALL_DIR>/rcom/reports/bin
```

(fill in the appropriate value for `<INSTALL_DIR>`)

In the following, `db_user` will refer to the RCOM 10 schema owner while `oracle_db` is the Oracle SID where the RCOM 10 schema was created.

```
export UP=<db_user>/<db_user_password>@<Oracle_db>
```

Note: On HP-UX you may need to set the `UP` variable using the following command syntax:

```
export UP=<db_user>/<db_user_password>\@<Oracle_db>
```

Set the `ORACLE_HOME` variable to the Oracle Home used when installing Oracle 9IAS.

```
export ORACLE_HOME=9IAS_ORACLE_HOME/6iserver
```

```
export PATH=9IAS_ORACLE_HOME/6iserver/bin:$PATH
```

```
export LD_LIBRARY_PATH=
```

```
9IAS_ORACLE_HOME/6iserver/lib:9IAS_ORACLE_HOME/6iserver/networ  
k/jre11/lib/<platform>/native_threads
```

Replace `<platform>` with the correct value for your application server operating system.

OS	Value
Solaris	sparc
HP	PA_RISC
AIX	aix

Note: For HP use `SHLIB_PATH` instead of `LD_LIBRARY_PATH`

Create the file structure.

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

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

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

- `cd appserverunix`
- `./buildapp_com.run`

The resulting file structure, located at `<INSTALL_DIR>`, contains directories for one RCOM environment. The `/rcom` directory contains the RCOM 10.0 source code. Additional environments can be created as necessary.

Note: Your environment variables must be set correctly for the following automatic install to work correctly.

Once it has copied the RCOM 10 files to the proper location, the `buildapp_com.run` script will give you a prompt asking if you'd like to continue with the automatic installation of RCOM. If you choose 'Y', it will run `installapp.rcom` to automate the compilation of libraries and forms. If you choose 'N', refer to appendix B for manual compilation instructions.

The `installapp.rcom` script will prompt you for the number of threads to use in the compilation process. This will vary by machine. If in doubt, enter 1.

`Installapp.rcom` walks you through most of the manual install processes described in Appendix B. It compiles libraries, forms and menus.

The `installapp.rcom` script does the following:

- compiles plls
- compiles forms
- compiles menus

Refer to the manual instructions in Appendix B for additional information on each of these tasks.

RCOM has a reports library, `retek_report.pll`, which needs to be compiled manually. Refer to the instructions in appendix B under “Compile the Reports Library (*.pll)”.

Once `installapp.rcom` has completed and you have manually compiled the reports library and reports, view the log file at `<INSTALL_DIR>/install/logfiles` to check for errors. Errors that did not prevent the generation of an `fm` file for forms can be ignored.

Configuring 9IAS (UNIX)

Note: The 9IAS configuration steps should be done by the Oracle 9IAS administrator account.

- 1 Copy the following files at `<INSTALL_DIR>/web_html/samplefiles/` to a temporary directory in the Oracle 9IAS administrator’s home directory. The Oracle 9IAS administrator is the Unix user that installed 9IAS.
 - `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.
 - `rcom_env` – Contains environment variable information used by `ias_web_start`. It is used by both scripts to set environment variables necessary for execution. You will have to edit this file to make sure the correct `LD_LIBRARY_PATH` setting is uncommented depending on your server’s operating system. Solaris is the default. Oracle Reports also requires that you set the `DISPLAY` variable to the IP address of a valid Xwindows device. See Oracle documentation for more information.
 - 2 Edit the above scripts:
 - a Replace `9IAS_ORACLE_HOME` with the Oracle Home used during the installation of 9IAS.
 - b Replace **`RCOM_INSTALL_DIR`** with the directory where RCOM 10 was installed.
 - c Uncomment the `DISPLAY` variable and set it’s value to a valid Xwindows device.
 - d Include the location of these files in the 9IAS administrator’s `PATH` variable setting.
 - 3 Copy the file `<INSTALL_DIR>/web_html/samplefiles/rcomunix.conf` to `9IAS_ORACLE_HOME/Apache/Apache/conf`. `rcomunix.conf` contains the RCOM 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`.
 - 4 In `rcomunix.conf`, replace all occurrences of `9IAS_ORACLE_HOME` and **`RCOM_INSTALL_DIR`** with your environment’s information.
- Note:** It is good practice to backup original Oracle files, ie: `httpd.conf`
- 5 Append the contents of `rcomunix.conf` to the end of `httpd.conf`.
 Comment out the following lines in `httpd.conf` if they exist:
 include “`9IAS_ORACLE_HOME/Apache/Jserv/etc/jserv.conf`”

include "9IAS_ORACLE_HOME /Apache/Apache/conf/oracle_apache.conf"

- 6 Rename httpd.conf to rcom.conf.
- 7 Look through rcom.conf 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        <RCOM_INSTALL_DIR>/web_html
<Directory <RCOM_INSTALL_DIR>/web_html>    (must be the same
value as DocumentRoot)
```

- 8 Copy the file <INSTALL_DIR>/web_html/samplefiles/Tk2Motif.rgb (if case sensitivity was lost during the ftp, rename the file back to Tk2Motif.rgb during the copy) to 9IAS_ORACLE_HOME/6iServer/guicommon6/tk60/admin/. This file allows the forms server to run using the Oracle UTF8 font.

Check the Web environment directory structure

- 1 Go to the directory <INSTALL_DIR>/web_html.
- 2 Verify that the following directories exist:
 - temp
 - log
 - jinitiator
 - gif
 - reptemp
 - help
 - helpfiles

Miscellaneous configuration tasks

- 1 SQLPLUS into the RCOM schema as the schema owner and run the following commands:

```
update cad_languages set
WEBHELP_SERVER='http://SERVER_NAME:HTTP_PORT' where
DESCRIPTION='English';

commit;
```

Substitute your environment's SERVER_NAME and HTTP_PORT (from rcom.conf)

- 2 Add an entry for both the database and the reports server into the two tnsnames.ora files at

```
9IAS_ORACLE_HOME/network/admin/tnsnames.ora
```

```
9IAS_ORACLE_HOME/6iserver/network/admin/tnsnames.ora
```

Here are samples for both of the entries:

```
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) ) )
REPORTS_SERVER_NAME=(ADDRESS=(PROTOCOL=tcp) (HOST=SERVER_NAME) (
PORT=REPORTS_SERVER_PORT) ) .
```

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

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 forms60 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 rcom.html from <INSTALL_DIR>/web_html/samplefiles to <INSTALL_DIR>/web_html .
- 2 Modify the serverPort setting in this file to point to the port that the forms server is starting on (refer to ias_web_start – the default port is 10002).

Install the Oracle Jinitiator component on the server

Jinitiator 1.1.8.14 is included on the RCOM 10.0 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 RCOM 10.0.

Test the system

Run `ias_web_stop` and then run `ias_web_start` to bounce the Web processes. Connect the client to the server by issuing:

```
http://SERVER_NAME:HTTP_PORT/rcom.html
```

The first time that you connect to the server, *jinitiator* will download and install. The *jinitiator* download will occur the first time that each machine accesses RCOM. Restart the browser after *jinitiator* is installed.

Windows (NT, Windows 2000)

Install Oracle9i Application Server (9IAS) 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 you should 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 will run 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 installation.

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 page is displayed if this is the first Oracle product installation 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 installation.
- 18 Change CDs when necessary.
- 19 The installation is complete.

Configure Oracle9i Application Server (9IAS) 1.0.2.X – NT

Note: Oracle 9IAS on NT/2000 does not include the Oracle Developer tools suite. It only contains the runtime components of Developer 6i server. If you wish to compile/modify forms, you will need to install Developer 6i.

- 1 Copy the file appservernt.exe from the appservernt directory on your installation cd to the directory where you are planning on installing RCOM. Execute the file to build the RCOM directory structure. This will be referred to as <INSTALL_DIR> in the rest of this document.
 - 2 After the installation above, your 9IAS HTTP listener might have automatically been started. Follow these instructions to shut down the http listener.
 - a By default, the Oracle HTTP server will be installed under 9IAS_ORACLE_HOME\iSuites; and 6iserver, which is bundled with 9IAS, will be installed under 9IAS_ORACLE_HOME\806. Make sure the PATH system property contains the following entries:


```
9IAS_ORACLE_HOME\iSuites\ApacheApache
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
 - 3 Copy <INSTALL_DIR>\web_html\samplefiles\rcomnt.conf to 9IAS_ORACLE_HOME\iSuites\Apache\Apache\conf

rcomnt.conf contains the RCOM-specific settings that need to be added to the httpd.conf configuration file that was generated during the installation of 9IAS. httpd.conf is located at 9IAS_ORACLE_HOME\iSuites\Apache\Apache\conf.
 - 4 In rcomnt.conf, replace all occurrences of 9IAS_ORACLE_HOME and **RCOM_INSTALL_DIR** with your environment’s information.
- Note:** It is good practice to backup original Oracle files, ie: httpd.conf
- 5 Append the contents of rcomnt.conf to the end of httpd.conf.
 - 6 Rename httpd.conf to rcom.conf.

- 7 Look through rcom.conf 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 the same value as
DocumentRoot)
```

- 8 Modify the file
 9IAS_ORACLE_HOME\806\forms60\java\oracle\forms\registry\Registry.dat:
 Near the end of file, add “/web_gif/” so that the iconpath setting looks like
 “default.icons.iconpath=/web_gif/”
- 9 Copy apache_start, apache_stop, and rcom_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.
- 10 In these files, replace any references to 9IAS_ORACLE_HOME and
RCOM_INSTALL_DIR with your environment’s values. You can choose which
 port you’d like your forms server to run on, if you wish, by modifying
 rcom_form.bat – the default port is 10002.
- 11 Install a reports server as a service using the command “rwmts60 –install
 name=REPORTS_SERVER_NAME”. Make the following entries in the registry at
 HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE\HOME0:

```
REPORTS60_PATH <INSTALL_DIR>\rcom\reports\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
NLS_DATE_FORMAT=DD-MON-RR
FORMS60_OUTPUT=<INSTALL_DIR>\web_html\temp
```

- 12 Copy rcom.html from <INSTALL_DIR>\web_html\samplefiles to
 <INSTALL_DIR>\web_html. Modify the serverPort setting in this file to point to
 the port that the forms server is starting on (refer to rcom_form.bat).
- 13 SQLPLUS into the RCOM schema as the schema owner and run the following
 commands:

```
update cad_languages set
WEBHELP_SERVER='http://SERVER_NAME:HTTP_PORT' where
DESCRIPTION='English';

commit;
```

Substitute your environment’s SERVER_NAME and HTTP_PORT (from
 rcom.conf)

- 14 Add an entry for both the database and the reports server into the two tnsnames.ora files at

```
9IAS_ORACLE_HOME\iSuites\network\admin\tnsnames.ora
```

```
9IAS_ORACLE_HOME\806\net80\admin\tnsnames.ora
```

Here are samples for both of the entries – substitute your environment’s setting for DB_SID, SERVER_NAME, DB_LISTENER_PORT, REPORTS_SERVER_NAME and REPORTS_SERVER_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)))
```

```
REPORTS_SERVER_NAME=(ADDRESS=(PROTOCOL=tcp) (HOST=SERVER
NAME) (PORT=REPORTS_SERVER_PORT)) .
```

- 15 Edit the file netscape_11814.html located at <INSTALL_DIR>\web_html\jinitiator. Replace SERVER_NAME and HTTP_PORT with the values for your environment.
- 16 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 RCOM application.
- 17 Test your environment: Start up your RCOM environment by running apache_start.bat and rcom_form.bat from the directory chosen in #9 above. You can access the application by going to http://SERVER_NAME:HTTP_PORT/rcom.html

Appendix A – Manual database installation instructions

Overview

Complete either the steps in this appendix, or the steps in the sections *Install COM* through *Install interfaces*

Note: During the manual install you will have to start some SQL scripts as the Retek COM user, and others as the Oracle user sys as well as system. Please make sure you are logged into the database as the correct user BEFORE starting a script!

Copy and unpack install files from CDROM

- 1 Log into the UNIX system that will house the database.
- 2 Create a directory for the install files. This directory will be referred to as <INSTALL_DIR> for the remainder of this document.
- 3 Copy the dbserverunix.Z file from the CDROM mount point to the <INSTALL_DIR>.
- 4 Once the copy is complete, uncompress and untar the file to create the install directory structure:

```
UNIX> mkdir <INSTALL_DIR>
UNIX> cp <CDROM>/dbserverunix.Z <INSTALL_DIR>
UNIX> cd <INSTALL_DIR>
UNIX> uncompress dbserverunix.Z
UNIX> tar xvf dbserverunix.tar
```

The directory structure will look like this:

```
<INSTALL_DIR>/
    install/
        db_objects/
        ddl/
        import/
        installer_scripts/
        logfiles/
        pay_plus/
        sqlplus/
        upgrade/
        utility/
    sample_profiles/
```

- 5 The tarfile may 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.
- 6 Verify that all files are owned by retek and belong to the dba group. Make sure ownership and group changes if necessary.

Create Oracle roles

- 1 Change directories to the <INSTALL_DIR>/install/installer_scripts directory.
SQL> @create_roles.sql
The script will spool out a log file to <INSTALL_DIR>/install/logfiles.
- 2 SQLPLUS into the Retek COM 10 database as user sys as sysdba.
- 3 Run the create_roles.sql script:
SQL> @create_roles.sql
The script will spool out a log file to <INSTALL_DIR>/install/logfiles.
- 4 Scan the log file for errors before proceeding.

Create Oracle users

The script run in this step will prompt you to enter a database username and password – This is the Retek COM 10 schema owner, which will be referred to as <COM Schema Owner> in the remainder of the manual instructions.

- 1 Change directories to the <INSTALL_DIR>/install/installer_scripts directory.
SQL> @create_user.sql
The script will spool out a log file to <INSTALL_DIR>/install/logfiles. It is strongly suggested you scan the log file for errors before proceeding.
- 2 SQLPLUS into the Retek COM 10 database as user sys as sysdba.
- 3 Run the create_user.sql script:
SQL> @create_user.sql
The script will spool out a log file to <INSTALL_DIR>/install/logfiles. It is strongly suggested you scan the log file for errors before proceeding.

Grant roles to User

- 1 Change directories to the <INSTALL_DIR>/install/installer_scripts directory.
SQL> @grant_role_w_admin.sql
- 2 SQLPLUS into the Retek COM 10 database as user sys as sysdba.
- 3 Run the grant_role_w_admin.sql script:
SQL> @grant_role_w_admin.sql
- 4 Enter the <COM Schema Owner> user name when prompted.
The script will spool out a log file to <INSTALL_DIR>/install/logfiles. It is strongly suggested you scan the log file for errors before proceeding.

Create forms security view

- 1 Change directories to the <INSTALL_DIR>/install/installer_scripts directory.
- 2 SQLPLUS into the Retek COM 10 database as user SYSTEM.
- 3 Run the frm60sec.sql script:
SQL> @frm60sec.sql

Create Oracle user synonyms

- 1 Change directories to the <INSTALL_DIR>/install/ddl directory.
- 2 SQLPLUS into the Retek COM 10 database as <COM Schema Owner>.
- 3 Run the create_all_synonyms.sql script:
SQL> @create_all_synonyms.sql
- 4 When completed, view the spool file
<INSTALL_DIR>/install/logfiles/create_all_synonyms.log to verify that no errors were found.

Create DDL for COM

Create all database objects by running the following creation scripts/imports – remember to check the log file for each script after it completes.

- 1 Change directories to the <INSTALL_DIR>/install/ddl directory.
- 2 SQLPLUS into the Retek COM 10 database as <COM Schema Owner>.
- 3 Run the create_all_tables.sql script:
SQL> @create_all_tables.sql
- 4 Exit out of SQLPLUS.
- 5 When completed, view the spool file
<INSTALL_DIR>/install/logfiles/create_all_tables.log to verify that no errors were found.
- 6 Change directories to <INSTALL_DIR>/install/import.
- 7 Edit the rcom.prm import parameter file - Change the TOUSER value to your value for <COM schema owner>. Save the file.

- 8 Run the import command below:

```
UNIX> imp system/<password>@database parfile=rcom.prm
```

The import parameter file is supplied and contains the following options:

Note: You WILL HAVE TO CHANGE the TOUSER value to your value for <COM schema owner>.

- FILE=rcom.dmp
- LOG=../logfiles/rcom_import.log
- FROMUSER=COMSTS100
- TOUSER=<COM schema owner>
- GRANTS=N
- CONSTRAINTS=N
- INDEXES=N
- ROWS=Y
- FULL=N
- IGNORE=Y

The import will create a log file in <INSTALL_DIR>/install/logfiles.

- 9 Scan the log file for errors before proceeding.
- 10 Change directories to the <INSTALL_DIR>/install/ddl directory
- 11 SQLPLUS into the Retek COM 10 database as <COM Schema Owner>.
- 12 Run the rcom100.sqs script:


```
SQL> @rcom100.sqs
```
- 13 The script will spool out a log file to <INSTALL_DIR>/install/logfiles.
- 14 Scan the log file for errors before proceeding.

Insert RIB DDL

- 1 On the server, change directories to <INSTALL_DIR>/install/ddl
- 2 SQLPlus into the database as <COM 10 Schema Owner>
- 3 At the command prompt, enter:


```
SQL> @rcom100.rib_ddl
```

Update packages, stored procedures and functions

- 1 On the server, change directories to <INSTALL_DIR>/install/db_objects.
- 2 Log in to SQLPLUS as <COM 10 Schema Owner>
- 3 Enter the following command to update packages, procedures, and functions:
SQL> @dbstartall.sql
- 4 When completed, exit out of SQLPlus and view the spool file dbstartall.log to verify that no errors were found.
- 5 Change directories to the <INSTALL_DIR>/install/ddl directory
- 6 Log in to SQLPLUS as <COM 10 Schema Owner> and enter the following command and update views:
SQL> @rcom100.vw
- 7 When completed, exit out of SQLPlus and view the spool file rcom100vw.log to verify that no errors were found.
- 8 On the server, change directories to <INSTALL_DIR>/install/db_objects.
- 9 Log in to SQLPLUS as <COM 10 Schema Owner> and enter the following command:
SQL> @db2pack.sql
- 10 When completed, exit out of SQLPlus and view the spool file db2pack.log to verify that no errors were found.
- 11 Log in to SQLPLUS as <COM 10 Schema Owner> and enter the following command:
SQL> @package_grants.sql
SQL> @translation_views.sql
- 12 Change directories to <INSTALL_DIR>/install/utility.
- 13 SQLPlus into the database as the <COM Schema Owner>.
- 14 Run the following command until there are no invalids:
SQL>@inv_obj_comp.sql

Update control tables

- 1 On the server, change directories to <INSTALL_DIR>/install/sqlplus.
- 2 Log in to SQLPLUS as <COM Schema Owner>.
- 3 Enter the following command to update control tables.
SQL> @rcom10ctl.sql
- 4 View the spool file rcom10ctl.log when finished to verify that no errors were found.

Insert remaining DDL

- 1 On the server, change directories to <INSTALL_DIR>/install/ddl
- 2 SQLPLUS into the database as <COM Schema Owner>
- 3 At the command prompt, enter:

```
@create_ddl.sql
```

Compile any invalid objects

- 1 Change directories to <INSTALL_DIR>/install/utility.
- 2 SQLPLUS into the Retek COM 10 database as <COM Schema Owner>.
- 3 Run the inv_obj_comp.sql script:

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

Drop objects

- 1 Log in to SQLPLUS as rcomdev10.
- 2 Drop the following objects:
 - a COESFEDEX (package)
 - b START_PICK_RELEASE_JOB (procedure)
 - c RCOMSUB_CURRCRE (package)

Update DDL

- 1 Log in to UNIX as the retek user.
- 2 Change directories to <INSTALL_DIR>/install/update/rcom101/dbc.
- 3 Review and understand the new dbc scripts before running them.
- 4 If you have customized any objects, make modifications.
- 5 Log in to SQLPLUS as the rcomdev10 user.
- 6 Enter the following command:

```
SQL> @patch101dbc.sql
```
- 7 View the spool file patch101dbc.log when finished to verify that no errors were found.

Import data

- 1 On the server, change directories to
`<INSTALL_DIR>/install/update/rcom101/import.`
- 2 Log in to SQLPLUS as `rcomdev10`.
- 3 Enter the following command to truncate table:
`SQL> @com_truncate.sql`
- 4 Exit SQLPlus.
- 5 Edit the `com_import.par` file:
`set TOUSER=<schema owner>`
- 6 At the Unix prompt, enter the following:
`$ imp parfile=com_import.par`
 The user should be `sys as sysdba`.
- 7 Log in to SQLPLUS as `rcomdev10`.
- 8 Enter the following command to enable constraints:
`SQL> @com_enable.sql`

Update control tables

- 1 On the server, change directories to
`<INSTALL_DIR>/install/update/rcom101/sqlplus.`
- 2 Log in to SQLPLUS as `rcomdev10`.
- 3 Enter the following command to update control tables:
`SQL> @patch101ctl.sql`
- 4 View the spool file `patch101ctl.log` when finished to verify that no errors were found.

Update packages, stored procedures and functions

- 1 On the server, change directories to
`<INSTALL_DIR>/install/update/rcom101/db_objects.`
- 2 Log in to SQLPLUS as `rcomdev10`.
- 3 Enter the following command to update packages, procedures, and functions:
`SQL> @patch101rcom.sql`
- 4 Exit SQLPlus.
- 5 View the spool file `patch101rcom.log` when finished to verify that no errors were found.
- 6 After you have compiled all these objects, validate any objects that may have become invalid. You can do this by using the Oracle utility
`dbms_utility.compile_schema.`

Update RIB XML packages, stored procedures, and functions

- 1 On the server, change directories to
`<INSTALL_DIR>/install/update/rcom101/XML_Uutilities.`
- 2 Log in to SQLPLUS as `rcomdev10`.
- 3 Enter the following command to update packages, procedures, and functions:
`SQL> @patch101xml.sql`
- 4 Exit SQLPlus.
- 5 View the spool file `patch101xml.log` when finished to verify that no errors were found.
- 6 While in the `<INSTALL_DIR>/install/update/rcom101/XML_Uutilities` run the following command:
`$sqlldr rcomdev10/<password>
control=rib_doctypes_rcom.ctl`
- 7 After you have compiled all these objects, validate any objects that may have become invalid. You can do this by using the Oracle utility
`dbms_utility.compile_schema.`

Appendix B – Manual application server installation instructions

UNIX

Compile RCOM Oracle Forms and Reports

Setup

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

Set up your environment variables

- 1 Set and export your DISPLAY variable to the IP address of the machine you are using to do the installation.

Example: `export DISPLAY=10.1.2.153:0.0`

- 2 Set the following variables: INSTALL_DIR is the location where you are planning on installing RCOM 10.

`export FORMS60_PATH=<INSTALL_DIR>/rcom/forms/bin`

`export REPORTS60_PATH=<INSTALL_DIR>/rcom/reports/bin`

(fill in the appropriate value for <INSTALL_DIR>)

In the following, db_user will refer to your RCOM 10 schema owner while oracle_db is the Oracle SID where the RCOM 10 schema was created.

`export UP=<db_user>/<db_user_password>@<Oracle_db>`

Note: On HP-UX you may need to set the UP variable using the following command syntax:

`export UP=<db_user>/<db_user_password>\@<Oracle_db>`

Set the ORACLE_HOME variable to the Oracle Home used when installing Oracle 9IAS.

export ORACLE_HOME=9IAS_ORACLE_HOME/6iserver

Note: The ORACLE_HOME setting is different than the setting for the automatic install. ORACLE_HOME needs to be set to the location of Developer 6i – this is located at 9IAS_ORACLE_HOME/6iserver.

`export PATH=9IAS_ORACLE_HOME/6iserver/bin:$PATH`

`export LD_LIBRARY_PATH=`

`9IAS_ORACLE_HOME/6iserver/lib:9IAS_ORACLE_HOME/6iserver/net
work/jre11/lib/<platform>/native_threads`

Replace `<platform>` with the correct value for your application server operating system.

OS	Value
Solaris	sparc
HP	PA_RISC
AIX	aix

Note: For HP use `SHLIB_PATH` instead of `LD_LIBRARY_PATH`

Create the file structure

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

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

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

- `cd appserverunix`
- `./buildapp_com.run`

The resulting file structure located at `<INSTALL_DIR>` will contain directories for one RCOM environment. The `/rcom` directory contains the RCOM 10.0 source code. Additional environments can be created as necessary.

Note: Your environment variables must be set correctly for the following manual install to work correctly.

Once it has copied the RCOM 10 files to the proper location, the `buildapp_com.run` script will give you a prompt asking if you'd like to continue with the automatic installation of RCOM. Choose 'N' to do the manual installation of RCOM.

Compile RCOM Libraries (*.pll)

- 1 Change directories to `<INSTALL_DIR>/rcom/forms/src`.
- 2 Move all of the libraries (.pll files) in the `<INSTALL_DIR>/rcom/forms/src` directory to the `<INSTALL_DIR>/rcom/forms/bin` directory.
- 3 Change directories to the `<INSTALL_DIR>/rcom/forms/bin` directory.

- 4 Start the Form Builder tool to compile all libraries for the RCOM toolset
 - > 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:
 - com_version.pll
 - com_message.pll
 - com_prefs.pll
 - com_support.pll
 - com_cas2.pll
 - com_events.pll
 - coefivndl.pll
 - coefordel.pll
- 5 For each library file:
 - a Choose File > Open.
 - b Select <INSTALL_DIR>/rcom/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 successful compilation, click **OK**.
 - f Save and close the library.

Move RCOM Reference Form (com_ref.fmb)

- 1 Change directories to <INSTALL_DIR>/rcom/forms/src
- 2 Move the reference form (com_ref.fmb) from
 <INSTALL_DIR>/rcom/forms/src to <INSTALL_DIR>/rcom/forms/bin.
 > mv com_ref.fmb../bin

Compile RCOM Forms (*.fmb)

- 1 Change directories to <INSTALL_DIR>/rcom/forms/src.
- 2 Use the fmb2fmx script located in that directory to compile the forms.

```
> 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>/rcom/forms/bin directory. From the <INSTALL_DIR>/rcom/forms/src directory, issue the following command:

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

Compile RCOM Menus (*.mmb)

- 1 cd to <INSTALL_DIR>/rcom/forms/src
- 2 Use the mmb2mmx script in that directory to compile the menus.

```
> chmod 755 mmb2mmx (if necessary) .
```

```
> ./mmb2mmx
```
- 3 Check to make sure each .mmb has a corresponding .mmx file.
- 4 All resulting .mmx files need to be moved to the <INSTALL_DIR>/rcom/forms/bin directory. From the <INSTALL_DIR>/rcom/forms/src directory, issue the following command:

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

Compile the Reports Library (*.pll)

- 1 Change directories to <INSTALL_DIR>/rcom/reports/src.
- 2 Move the file retek_report.pll to the <INSTALL_DIR>/rcom/reports/bin directory:

```
> mv retek_report.pll ../bin
```
- 3 Change directories to <INSTALL_DIR>/rcom/reports/bin

- 4 Start the Reports Builder tool to compile the reports library for RCOM reports
 - > `rwblld60 &`
 - 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 `retex_reports.pll`
 - Choose File > Open.
 - Select `<INSTALL_DIR>/rcom/reports/bin/retex_reports.pll`.
 - Click **OK**.
 - Once the library is “loaded”, select the library name, select Program, and choose Compile > All.
 - After successful compilation, click **OK**.
- 5 Save and close the library.

The report library has been compiled and now resides in the `/bin` directory.

Compile reports (*.rdf)

- 1 Change directories to `<INSTALL_DIR>/rcom/reports/src`
- 2 Use the `rdf2rep` script located in that directory to compile the reports:
 - > `chmod 755 rdf2rep (if necessary).`
 - > `./rdf2rep`
- 3 Check to make sure each `.rdf` file has a corresponding `.rep` file.
- 4 All resulting `.rep` files need to be moved to the `<INSTALL_DIR>/rcom/reports/bin` directory.
- 5 From the `<INSTALL_DIR>/rcom/reports/src` directory, issue the following command:
 - > `mv *.rep ../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 RCOM 10.0. Some new 9i features are being used like the UNDO tablespace and specifying the TEMP file at creation time. If you don't chose to use this feature be sure to create a temp and rollback tablespace.

Please note that there are some outstanding Oracle bugs with the new 9i features. Please 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. Please 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.

Sample Database Create Script

As the Oracle owner run all the following as sys.

```
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/redola.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;
```

Install data dictionary views

```
@${ORACLE_HOME}/rdbms/admin/catalog.sql
@${ORACLE_HOME}/rdbms/admin/catproc.sql
@${ORACLE_HOME}/rdbms/admin/catblock.sql - optional but
useful
```

Run scripts for RCOM database setup

```
@$ORACLE_HOME/rdbms/admin/dbmsdefr.sql
@$ORACLE_HOME/rdbms/admin/dbmsgen.sql
@$ORACLE_HOME/rdbms/admin/catrep.sql
```

These privs needed to be granted 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;
```

The followong should be run as system:

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

Install XDK and XSU

```
ALTER SYSTEM SET "_system_trig_enabled"=FALSE
SCOPE=MEMORY;
```

Install Java objects

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

Install XML and XSU

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

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;
```

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
```