



Retek[®]

Customer Order Management 10.0



Installation Guide



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- 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 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 own the oracle rdbms.

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_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 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

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 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 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 10.0 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 RCOM 10.0 will be installed. Check to make sure there is enough disk space available

Note: The RCOM 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 three directories on the RCOM 10.0 CD: appserverunix, dbserverunix, and designer6i. The dbserverunix directory contains the files for the database server install.

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

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 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 RCOM 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.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_10.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 10.0 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.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 10.0. 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.
- 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 10.0 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 10.0 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 configuring Net Services.

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

Chapter 3 – Application server software 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 Log into the application server as oracle. The install 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 Click **Next** at the Welcome page.
- 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 Choose 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>/rcom/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 RCOM 10.0 oracle schema owner.)
`export LD_LIBRARY_PATH=9IAS_ORACLE_HOME/6iserver/lib:
9IAS_ORACLE_HOME/6iserver/network/jre11/lib/<MACHINE_TYPE>/native_threads`

NOTE: For HP use SHLIB_PATH

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

Compile RCOM Oracle Forms and Reports

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

- 1 Build the file structure.
 - a Insert the RCOM 10.0 CD-ROM.
 - b Log in as user retek.
 - c Change directories to the appserverunix directory on the CD.
 - d 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.

- e Run the script buildapp_10.run. This prompts you for the path where RCOM 10.0 is to be installed. This is referred to as <INSTALL_DIR> in the remainder of the documentation.

```
cd appserverunix
./buildapp_10.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: The db_user should be the Retek RCOM 10.0 Oracle schema owner.

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.

The installapp.com script walks you through most of the manual install processes described in Appendix B. The installapp.com script compiles libraries, forms and menus.

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.rcom script does the following:

- compiles plls
- compiles reference forms
- compiles forms
- compiles menus
- compiles report library
- compiles reports

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.
 - rcom_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 **RCOM_INSTALL_DIR** with the directory where RCOM 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. rcom_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/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 After replacing all occurrences of 9IAS_ORACLE_HOME and **RCOM_INSTALL_DIR** in rcomunix.conf with your environment's information, append the contents of rcomunix.conf to the end of httpd.conf.
- 5 Rename httpd.conf to rcom.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 email account>
ServerName SERVER_NAME
DocumentRoot <INSTALL_DIR>/web_html
<Directory <INSTALL_DIR>/web_html> (must be the same value as
DocumentRoot)
```
- 7 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
 - 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, HTTP_PORT(from rcom.conf) and REPORT_SERVER_NAME (the name chosen in #6)
- 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
```

and

```
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=1950) ) .
```

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 the 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

- 1 Copy the file fmrweb.res, found in <INSTALL_DIR>/web_html/samplefiles, to 9IAS_ORACLE_HOME/6iserver/forms60/admin/resource/US/.
- 2 cp <INSTALL_DIR>/web_html/samplefiles/fmrweb.res
9IAS_ORACLE_HOME/6iserver/forms60/admin/resource/US/.

Create the Retek HTML start page

copy rcom.html from <INSTALL_DIR>/web_html/samplefiles to <INSTALL_DIR>/web_html. 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 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` 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 runs automatically.
 - 4 On the Welcome page, click **OK**.
 - 5 Select Enterprise Edition.
 - 6 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).
 - 7 Enter the ORACLE HOME NAME and ORACLE HOME LOCATION for the Oracle9IAS installation.
- Note:** 9IAS cannot share an ORACLE_HOME with other Oracle products.
- 8 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).
 - 9 Choose to install Forms and Reports Server and Oracle HTTP Server
 - 10 On the Database Access Descriptor [DAD] page for Oracle9IAS Portal, do not enter any information. Click **Next**.
 - 11 On the Database Access Descriptor [DAD] page for Login Server, do not enter any information. Click **Next**.

- 12 On the Wireless Edition repository information... page, do not enter any information. Click **Next**.
- 13 On the Wireless Edition schema information... page, do not enter any information. Click **Next**.
- 14 On the ...SYSTEM Password for Wireless Edition page, do not enter any information. Click **Next**.
- 15 On the summary page, check the product list again.
- 16 Click **Install** to begin installation.
- 17 Change CDs when necessary.
- 18 The installation is complete.

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

- 1 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 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
- 2 Copy <INSTALL_DIR>\web_html\samplefiles\rcomnt.conf to 9IAS_ORACLE_HOME\iSuites\Apache\Apache\conf

This file 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.
- 3 In rcomnt.conf, replace all occurrences of 9IAS_ORACLE_HOME and **RCOM_INSTALL_DIR** with your environment’s information.
- 4 Add the contents of rcomnt.conf to the end of httpd.conf.
- 5 Rename httpd.conf to rcom.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 email 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.dat 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 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.
- 9 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 listen at, if you wish, by modifying
rcom_form.bat– the default is 10002.

- 10 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
```

- 11 Copy rcom.html from <INSTALL_DIR>\web_html\samplefiles to
<INSTALL_DIR>\web_html. Modify the serverPort setting in the file to point at
the port where you are starting your forms server (refer to rcom_form.bat).

- 12 SQLPLUS into the RCOM schema as the schema owner and run the following
command:

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

commit;
```

Substitute your environment’s SERVER_NAME, HTTP_PORT(from rcom.conf)
and REPORT_SERVER_NAME (the name chosen in #6)

- 13 Edit the netscape_11814.html file located at <INSTALL_DIR>\web_html\jinitiator.
Replace SERVER_NAME and HTTP_PORT with the values for your environment.

- 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 and 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 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.
- 16 Test your environment: Start up your RCOM environment by running apache_start.bat and rcom_form.bat from the directory chosen in #3 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 dbserver.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>/dbserver.Z <INSTALL_DIR>
UNIX> cd <INSTALL_DIR>
UNIX> uncompress dbserver.Z
UNIX> tar xvf dbserver.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 Make ownership and group changes if necessary.
- 7 Log into Unix as Root.
- 8 Change directories to <INSTALL_DIR>.
- 9 Use the following UNIX commands to change the owner and group:


```
UNIX> chown -R <userid>
UNIX> chgrp -R <usergroup>
```

Where <userid> and <usergroup> are the id and group of the UNIX user that will “own” the install files.

Create Oracle roles

- 1 Change directories to the <INSTALL_DIR>/install/installer_scripts directory.
- 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>/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>/installer_scripts directory.
- 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>/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>/installer_scripts directory.
- 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>/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>/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>/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, exit out of SQLPlus and view the spool file
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>/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 Change directories to <INSTALL_DIR>/import.
- 6 Edit the rcom.prm import parameter file - Change the TOUSER value to your value for <COM schema owner>. Save the file.

- 7 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>/logfiles.

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


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

Insert RIB DDL

- 1 On the server, change directories to <INSTALL_DIR>/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 <staging area>/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>/ddl directory
- 6 Enter the following command and update views:
SQL> @rcom100.vw
- 7 On the server, change directories to <staging area>/db_objects
SQL> @db2pack.sql
- 8 When completed, exit out of SQLPlus and view the spool file db2pack.log to verify that no errors were found.
SQL> @package_grants.sql
SQL> @translation_views.sql
- 9 Change directories to <INSTALL_DIR>/install/utility.
- 10 SQLPlus into the database as the <COM Schema Owner>.
- 11 Run the following command until there are no invalids:
SQL>@inv_obj_comp.sql

Update control tables

- 1 On the server, change directories to <staging area>/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.
- 5 When the script is finished, 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
```


Appendix B – Manual application server installation instructions

UNIX

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>/rcom/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 RCOM 10.0 oracle schema owner.)
`export LD_LIBRARY_PATH=9IAS_ORACLE_HOME/6iserver/lib:
 9IAS_ORACLE_HOME/6iserver/network/jre11/lib/<MACHINE_TYPE>
 /native_threads`

NOTE: For HP use SHLIB_PATH

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

Compile RCOM Oracle Forms and Reports

Setup

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

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_10.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_10.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: The db_user should be the Retek RCOM 10.0 oracle schema owner.

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.

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 reference forms (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 retek_reports.pll
 - Choose File → Open.
 - Select <INSTALL_DIR>/rcom/reports/bin/retek_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 should now reside 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
```

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.
 - rcom_env – Contains environment variable information used by ias_web_start.
- 2 Edit these scripts:
 - a Replace 9IAS_ORACLE_HOME with the Oracle Home used during the installation of 9IAS.
 - b In these files, replace **RCOM_INSTALL_DIR** with the directory where RCOM 10 was installed.

- c Place the following scripts in a common directory:
 - `ias_web_start` – will be used to start the Web environment
 - `ias_web_stop` – will be used to shut down the middle tier
 - `rcom_env` – is used by both scripts to set environment variables necessary for execution.
- d Include the location of these files in user oracle'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. `httpd.conf` 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.
- 5 Append the contents of `rcomunix.conf` to the end of `httpd.conf`.
- 6 Rename `httpd.conf` to `rcom.conf`.
- 7 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 the same
value as DocumentRoot)
```
- 8 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`
 - `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, HTTP_PORT(from rcom.conf) and REPORT_SERVER_NAME (the name chosen in #6)

- 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
```

and

```
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_Na
me) (PORT=1950)) .
```

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

- 1 Copy the file fmrweb.res, found in <INSTALL_DIR>/web_html/samplefiles, to 9IAS_ORACLE_HOME/6iserver/forms60/admin/resource/US/.
- 2 Copy <INSTALL_DIR>/web_html/samplefiles/fmrweb.res 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 the file to point at the port where you are starting your forms server (refer to ias_web_start – the default 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 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..

Application Server Software Installation Instructions

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.
- 5 The Installer runs automatically.
- 6 On the Welcome page, click **OK**.
- 7 Select Enterprise Edition.
- 8 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).
- 9 Enter the ORACLE HOME NAME and ORACLE HOME LOCATION for the Oracle9IAS installation.

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

- 10 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 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).
- 11 Choose to install Forms and Reports Server and Oracle HTTP Server.
- 12 On the Database Access Descriptor [DAD] page for Oracle9IAS Portal, do not enter any information. Click **Next**.
- 13 On the Database Access Descriptor [DAD] page for Login Server, do not enter any information. Click **Next**.
- 14 On the Wireless Edition repository information... page, do not enter any information. Click **Next**.
- 15 On the Wireless Edition schema information... page, do not enter any information. Click **Next**.
- 16 On the ...SYSTEM Password for Wireless Edition page, do not enter any information. Click **Next**.
- 17 On the summary page, check the product list again.
- 18 Click **Install** to begin installation.

- 19 Change CDs when necessary.
- 20 The installation is complete.

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

- 1 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 will be installed under 9IAS_ORACLE_HOME/806. 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\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 and 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.
- 5 Add the contents of rcomnt.conf to the end of httpd.conf.
- 6 Rename httpd.conf to rcom.conf.
- 7 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 the same
value as DocumentRoot)
```
- 8 Modify


```
9IAS_ORACLE_HOME\806\forms60\java\oracle\forms\registry\Registry.dat
```

 file.

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` or **RCOM_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 `rcom_form.bat`— the default 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`:

<code>REPORTS60_PATH</code>	<code><INSTALL_DIR\rcom\reports\bin</code>
<code>REPORTS60_PHYSICAL_MAP</code>	<code><INSTALL_DIR>\web_html\temp</code>
<code>REPORTS60_SHARED_CACHE</code>	<code>YES</code>
<code>REPORTS60_VIRTUAL_MAP</code>	<code>/reptemp</code>
<code>REPORTS60_WEBLOC</code>	<code>/reptemp</code>
<code>REPORTS60_WEBLOC_TRANSLATED</code>	<code><INSTALL_DIR>\web_html\temp</code>
- 12 Copy `rcom.html` from `<INSTALL_DIR>\web_html\samplefiles` to `<INSTALL_DIR>\web_html`.
- 13 Modify the `serverPort` setting in the file to point at the port where you are starting your forms server (refer to `rcom_form.bat`).
- 14 **SQLPLUS** into the **RCOM** schema as the schema owner and run the following command:


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

commit;
```

Substitute your environment's `SERVER_NAME`, `HTTP_PORT` (from `rcom.conf`) and `REPORT_SERVER_NAME` (the name chosen in #6)
- 15 Edit the `netscape_11814.html` file located at `<INSTALL_DIR>\web_html\jinitiator`.
- 16 Replace `SERVER_NAME` and `HTTP_PORT` with the values for your environment.
- 17 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

and

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)) .
```

- 18 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.
- 19 Test your environment: Start up your RCOM environment by running apache_start.bat and rcom_form.bat from the directory chosen above. You can access the application by going to http://SERVER_NAME:HTTP_PORT/rcom.html

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. 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.

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/red02a.log') size
10M,
        group 3 ('/files0/oradata/RETEK/red03a.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 * Run scripts for RCOM database setup

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

REM * 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;

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;
```

Run initjvm.sql to install Java objects

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

Run initxml.sql to 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;
```

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
```