



Avaya IQ 4.2
Installation for CAT
CAT Version 04.02-3
June 24, 2008

Purpose

These notes are provided to document the Configuration Audit Tool in support of the Avaya IQ 4.2 software. These notes document installation procedures and known issues.

This release notes corresponds to the following product and version:

Product	Version
Avaya IQ 4.2 Software	4.2.0.0.603_SCM; Core Services 3.2.5-416.0

About Avaya IQ and the Configuration Audit Tool

Avaya IQ is a consolidated reporting system. It will provide integrated reporting for Avaya Communication Manager Call Center Software (CCS) and the Avaya Proactive Contact Dialer System. The Configuration Audit Tool is a utility that assess server software and hardware to ensure the application hosts meets certain minimum requirements so that the Avaya IQ software can be installed properly. It also contains several utilities that provide further system auditing to help troubleshoot issues. **Before beginning the installation of Avaya IQ, the Configuration Audit Tool must be executed and successfully pass installation tests.**

Avaya IQ Terminology

CAT Configuration Audit Tool.
RHEL Red Hat Enterprise Linux
SSH Secure Shell
PC Personal Computer

Installing the Configuration Audit Tool

The Configuration Audit Tool is distributed as a package of RPMs and must be installed manually on each application host. The tool is not installed on the database host. You must copy the package of RPMs from the Avaya IQ software installation disc or from the Avaya product download Web site. Avaya recommends that you check the version on the installation disc and the Web site and use the latest version available.

To download the Configuration Audit Tool package from the Avaya Support Web site:

1. From a PC that has SSH copy access to all of your application hosts, browse to the Avaya support Web site:

<http://support.avaya.com>

2. Select **Download Center**.
3. Log in to the support center. If you are not registered, register your installation using your Sold To number.
4. From the list of products, locate the **Avaya IQ or IQ** link and select it.
5. Download the Configuration Audit Tool package to your PC.
6. Unzip the package of files onto your PC.
7. Copy the files from your PC to the **/avaya or /tmp** directory on every application host in your deployment.

To copy the Configuration Audit Tool package from the IQ installation disc:

1. Insert the installation disc into your application host CD/DVD disc drive.
2. Enter the following commands:

```
mount /dev/cdrom /mnt
```

```
cd /mnt
```

```
cp <CAT_Package> /avaya or /tmp
```

The **<CAT_Package>** variable represents the name of the CAT package.

3. Repeat this procedure for each application host in your deployment. You will run the Configuration Audit Tool on each IQ host.

Obtain the OS RPMs for the Configuration Audit Tool:

The Configuration Audit Tool requires two RPMS to be installed prior to execution. Below are the required minimum RPMs. You are not required to install these RPMs if they already exist on each Avaya IQ host system.

You can either download the latest RPMs from Red Hat website or install from a RedHat CD:

To download Expect and TCL RPMs from the Red Hat Web site:

- <http://download.fedora.redhat.com/pub/fedora/linux/core/6/i386/os/Fedora/RPMS>
**Note: these rpm versions have been demonstrated to be compatible with RHEL 4, Update 4 or 5.*
Locate and download the **Expect** RPM (minimum version 5.43.0-5.1.i386)
Locate and download the **TCL** RPM (minimum version 8.4.13-3.fc6.i386)
- Copy the files to **/avaya** or **/tmp**

The Red Hat RHEL 4, Update 4 CD disk 3 contains the Expect and TCL RPMs. To download these RPMs from the Red Hat disc:

- mount /dev/cdrom /mnt
- cd /mnt
- Copy the RPMs to **/avaya** or **/tmp**

Install the Configuration Audit Tool:

On every Avaya IQ host, install the 3 RPMs by executing the commands shown below:

Note: Install the Expect and TCL RPMs only if they are not already installed. If they are already installed when you run the install command, you will get a message stating they are already installed.

Example of using the rpm installer to install the rpms:

1. rpm -Uvh tcl-*.i386.rpm
2. rpm -Uvh expect-*.i386.rpm
3. rpm -Uvh Avaya-CAT-*.i386.rpm

Executing the Configuration Audit Tool for Avaya IQ Installation:

To complete a successful install of Avaya IQ, the Configuration Audit Tool must be successfully executed and the installation audit tests must pass.

To run CAT:

1. Log in to the Linux OS.
2. cd /opt/Avaya/CCR/util/CAT
3. ./cat.sh

Follow the menu options for the installation audit, dba audit, app host audit, database audit or individual tests.

Examples of CAT execution commands and outputs

Executing CAT:

```
[root@feralas ~]# cd /opt/Avaya/CCR/util/CAT/
[root@feralas CAT]# ls
cat.jar  cat.sh  jrel.6.0_03./cat.  lib  README
[root@feralas CAT]# ./cat.sh
Avaya(TM) IQ Configuration Audit Tool Menu
version 04.02-3
```

Select command from the list below.

```
1)  Installation_Audit      Confirm minimum requirements before installation
2)  DBA_Audit               Confirm DBA level requirements for database
3)  App_Host_Audit         Confirm minimum requirements for application host
4)  Database_Audit         Confirm minimum requirements for database
5)  Individual_Audit       Run individual system audits
Choice 1, 2, 3, 4, 5, or q to quit: 1
```

Checking OS_Version...

```
OS version: PASS
(Required: RHEL 4 update 4/5)
(Actual: 2.6.9-55.ELsmp)
```

Checking RAM...

```
RAM: PASS
(Required: 7900000 Kb)
(Actual: 8310528 kB)
```

Checking CPU_Speed...

```
CPU speed: PASS
(Required: 2048 MHz)
(Actual: 2992 MHz)
```

Checking CPU_Architecture...

```
CPU architecture: PASS
(Required: Quad Core equivalent)
(Actual: Intel(R) Xeon(R) CPU 5160 @ 3.00GHz, 4 processors, 0
duplicities)
```

Checking Opt_Disk_Space...

```
Available disk space for partition containing /opt: PASS
(Required: 19000000 kB)
(Actual: 23204720 kB)
```

Checking Tmp_Disk_Space...

```
Available disk space for partition containing /tmp: PASS
(Required: 3000000 kB)
(Actual: 9448896 kB)
```

Checking Var_Disk_Space...

```
Available disk space for partition containing /var: PASS
(Required: 9000000 kB)
(Actual: 9382304 kB)
```

Checking Hist_DB_Connectivity...

```
-----
Enter Historical database user name: ccr4
Enter password:*****
* -----
-----
```

```

Choose server type for Historical database:
  1) single instance
  2) Oracle RAC
Choice 1 or 2: 1
Enter the host name or IP address: steamboat
Enter the port number: 1521
Enter database service name: ccr.steamboat.dr.avaya.com
-----
Historical database connection string:                                     PASS
(jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)

Checking RT_DB_Connectivity...
-----
Enter Real Time database user name: ccr_rt4
Enter password:*****
-----

Choose server type for Real Time database:
  1) single instance
  2) Oracle RAC
Choice 1 or 2: 1
Enter the host name or IP address: steamboat
Enter the port number: 1521
Enter database service name: ccr.steamboat.dr.avaya.com
-----
Real Time database connection string:                                     PASS
(jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)

Checking SDS_DB_Connectivity...
-----
Enter System Data Store database user name: ccr_sds4
Enter password:*****
-----

Choose server type for System Data Store database:
  1) single instance
  2) Oracle RAC
Choice 1 or 2: 1
Enter the host name or IP address: steamboat
Enter the port number: 1521
Enter database service name: ccr.steamboat.dr.avaya.com
-----
System Data Store database connection string:                             PASS
(jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)

Checking CSC_DB_Connectivity...
-----
Enter Content Store Connection database user name: ccr_rl4
Enter password:*****
-----

Choose server type for Content Store Connection database:
  1) single instance
  2) Oracle RAC
Choice 1 or 2: 1
Enter the host name or IP address: steamboat
Enter the port number: 1521
Enter database service name: ccr.steamboat.dr.avaya.com
-----
Content Store Connection database connection string:                       PASS
(jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)

```

```

Checking RUI_DB_Connectivity...
-----
Enter Reporting User Interface Connection database user name: ccrprt4
Enter password:*****
-----
Choose server type for Reporting User Interface Connection database:
  1) single instance
  2) Oracle RAC
Choice 1 or 2: 1
Enter the host name or IP address: steamboat
Enter the port number: 1521
Enter database service name: ccr.steamboat.dr.avaya.com
-----
Reporting User Interface Connection database connection string: PASS
(jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)

Checking RPMs...
RPM dependency: PASS
  (Details refer to rpmDependency.out)

Checking Hist_DB_Version...
  Enter host name of Historical database: steamboat
  Enter oracle user ID: oracle
  Enter password:*****
Historical database version: PASS
  (Required: oracle 10.2.0.1 patch 4612267 | 10.2.0.2 patch 5089444 | 10.2.0.3 patch
5089444)
  (Actual: oracle 10.2.0.3.0 patch 5557962)

Checking RT_DB_Version...
  Enter host name of Real Time database: steamboat
  Enter oracle user ID: oracle
  Enter password:*****
Real Time database version: PASS
  (Required: oracle 10.2.0.1 patch 4612267 | 10.2.0.2 patch 5089444 | 10.2.0.3 patch
5089444)
  (Actual: oracle 10.2.0.3.0 patch 5557962)

Checking Hist_DB_Char_Set...
Historical database character set: PASS
  (Required: UTF8|UTF16|AL32UTF8|AL16UTF16, AL32UTF8)
  (Actual: UTF8, AL32UTF8)

Checking RT_DB_Char_Set...
Real Time database character set: PASS
  (Required: UTF8|UTF16|AL32UTF8|AL16UTF16, AL32UTF8)
  (Actual: UTF8, AL32UTF8)

Checking ReportingConn...
  Enter oracle user ID: oracle
  Enter Content Store User ID: ccrprt4
  Enter password:*****
  Enter tnsname: ccr_steamboat
+Reporting TNS connectivity:
  (connection works)

Select command from the list below.
  1) Installation_Audit      Confirm minimum requirements before installation
  2) DBA_Audit               Confirm DBA level requirements for database
  3) App_Host_Audit         Confirm minimum requirements for application host
  4) Database_Audit         Confirm minimum requirements for database
  5) Individual_Audit       Run individual system audits
Choice 1, 2, 3, 4, 5, or q to quit: 2

```

Checking Hist_DB_User_Privs...

Enter system user name for Historical database: system
Enter password for system user:*****

Choose server type for Historical database:

- 1) single instance
- 2) Oracle RAC

Choice 1 or 2: 1

Enter the host name or IP address: steamboat
Enter the port number: : 1521
Enter database service name: ccr.steamboat.dr.avaya.com

Input Historical database user name to check: ccr4

Historical database user privileges: PASS
(Required: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CREATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY REWRITE)
(Actual: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CREATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY REWRITE, UNLIMITED TABLESPACE)

Checking Hist_DBRW_User_Privs...

Enter system user name for Historical database Read-Write (system):
Enter password for system user (*****):*

Choose server type for Historical database Read-Write:

- 1) single instance
- 2) Oracle RAC

Choice 1 or 2 (1):

Enter the host name or IP address (steamboat):
Enter the port number: (1521):
Enter database service name (ccr.steamboat.dr.avaya.com):

Input Historical database Read-Write user name to check: ccr4_rw_user

Historical database Read-Write user privileges: PASS
(Required: OPEN, CREATE SESSION, SELECT ANY DICTIONARY, UNLIMITED TABLESPACE)
(Actual: OPEN, CREATE SESSION, SELECT ANY DICTIONARY, UNLIMITED TABLESPACE)

Checking Hist_DBRO_User_Privs...

Enter system user name for Historical database Read-Only (system):
Enter password for system user (*****):*

Choose server type for Historical database Read-Only:

- 1) single instance
- 2) Oracle RAC

Choice 1 or 2 (1):

Enter the host name or IP address (steamboat):
Enter the port number: (1521):
Enter database service name (ccr.steamboat.dr.avaya.com):

Input Historical database Read-Only user name to check: ccr4_ro_user

Historical database Read-Only user privileges: PASS
(Required: OPEN, CREATE SESSION, SELECT ANY DICTIONARY)
(Actual: OPEN, CREATE SESSION, SELECT ANY DICTIONARY)

Checking RT_DB_User_Privs...

```
-----
Enter system user name for Real Time database (system):
Enter password for system user (*****):*
-----

Choose server type for Real Time database:
  1) single instance
  2) Oracle RAC
Choice 1 or 2 (1):
Enter the host name or IP address (steamboat):
Enter the port number: (1521):
Enter database service name (ccr.steamboat.dr.avaya.com):
-----

Input Real Time database user name to check: ccrtr4
Real Time database user privileges: PASS
(Required: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CREATE
SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY REWRITE)
(Actual: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CREATE
SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY REWRITE,
UNLIMITED TABLESPACE)
```

Checking RT_DBRW_User_Privs...

```
-----
Enter system user name for Real Time database Read-Write (system): ccrtr4_rw_user
Enter password for system user (*****):*
-----

Choose server type for Real Time database Read-Write:
  1) single instance
  2) Oracle RAC
Choice 1 or 2 (1):
Enter the host name or IP address (steamboat):
Enter the port number: (1521):
Enter database service name (ccr.steamboat.dr.avaya.com):
-----

Input Real Time database Read-Write user name to check: ccrtr4_rw_user
Real Time database Read-Write user privileges: PASS
(Required: OPEN, CREATE SESSION, SELECT ANY DICTIONARY, UNLIMITED TABLESPACE)
(Actual: OPEN, CREATE SESSION, SELECT ANY DICTIONARY, UNLIMITED TABLESPACE)
```

Checking RT_DBRO_User_Privs...

```
-----
Enter system user name for Real Time database Read-Only (ccrtr4_rw_user): system
Enter password for system user (*****):*
-----

Choose server type for Real Time database Read-Only:
  1) single instance
  2) Oracle RAC
Choice 1 or 2 (1):
Enter the host name or IP address (steamboat):
Enter the port number: (1521):
Enter database service name (ccr.steamboat.dr.avaya.com):
-----

Input Real Time database Read-Only user name to check: ccrtr4_ro_user
Real Time database Read-Only user privileges: PASS
(Required: OPEN, CREATE SESSION, SELECT ANY DICTIONARY)
(Actual: OPEN, CREATE SESSION, SELECT ANY DICTIONARY)
```

Checking Hist_DB_Procs...

```
Historical database max processes: PASS
(Required: 1000)
(Actual: processes: 1000)
```

```
Checking Hist_DB_Table_Space...
Enter table space name: CCR
Enter another table space name or press Enter to end the list: CCRDIM
Enter another table space name or press Enter to end the list:
Historical database tablespaces: PASS
(Required: Unlimited tablespace)
(Actual: privilege = UNLIMITED TABLESPACE; CCR = 0 bytes, CCRDIM = 0 bytes.)
```

```
Checking Realtime_DB_Table_Space...
Enter table space name: CCRRT
Enter another table space name or press Enter to end the list:
Real Time database tablespaces: PASS
(Required: Unlimited tablespace)
(Actual: privilege = UNLIMITED TABLESPACE; CCRRT = 0 bytes.)
```

Checking CAT Output:

```
[root@feralas CAT]# ls -l
total 276
-rw-r--r-- 1 root root 170775 Jun 20 06:49 cat.jar
-rwxr--r-- 1 root root 275 Jun 20 06:49 cat.sh
-rwxr-xr-x 1 root root 1027 Jun 12 16:51 connection.out
-rwxr-xr-x 1 root root 2195 Jun 12 15:16 dba.out
-rwxr-xr-x 1 root root 2488 Jun 20 17:48 install.out
drwxr-xr-x 7 root root 4096 Jun 20 17:42 jrel.6.0_03
drwxr-xr-x 4 root root 4096 Jun 20 17:42 lib
-rw-r--r-- 1 root root 2533 Jun 20 06:49 README
-rw-r--r-- 1 root root 5137 Jun 20 06:49 spec-sample.xml
-rw-r--r-- 1 root root 23402 Jun 20 06:49 spec-sample.xsd
drwxr-xr-x 2 root root 4096 Jun 24 10:20 Tue-Jun-24-10_20_43-MDT-2008
```

Database Connection Output Information (connection.out):

```
[[root@feralas CAT]# cat connection.out
DBUserName=ccr4
HistDBConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
DBRWUserName=ccr4_rw_user
HistDBRWConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
DBROUserName=ccr4_ro_user
HistDBROConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
RTDBUserName=ccrrt4
RTDBConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
RTRWUserName=ccrrt4_rw_user
RTDBRWConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
RTROUserName=ccrrt4_ro_user
RTDBROConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
SDSDBUserNameOracle=ccrsds4
SDSDBConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
CSCDBUserName=ccrrpt4
CSCDBConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
RUIDBUserName=ccrrcl4
RUIDBConnectionString=jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com
COGNOSUSER=ccrrpt4
COGNOSTNSNAME=ccr_steamboat
```

Test Results:

```
[[root@feralas CAT]# cd Tue-Jun-24-10_20_43-MDT-2008
[root@feralas Tue-Jun-24-10_20_43-MDT-2008]# ls -l
total 8
-rw-r--r-- 1 root root 3536 Jun 24 10:20 result.out
-rw-r--r-- 1 root root 7727 Jun 24 10:20 rpmDependency.out

[root@feralas Tue-Sep-25-09_00_27-MDT-2007]# cat result.out
OS version: PASS
  (Required: RHEL 4 update 4/5)
  (Actual: 2.6.9-55.ELsmp)
RAM: PASS
  (Required: 7900000 Kb)
  (Actual: 8310528 kB)
CPU speed: PASS
  (Required: 2048 MHz)
  (Actual: 2992 MHz)
CPU architecture: PASS
  (Required: Quad Core equivalent)
  (Actual: Intel(R) Xeon(R) CPU 5160 @ 3.00GHz, 4 processors, 0
duplicities)
Available disk space for partition containing /opt: PASS
  (Required: 19000000 kB)
  (Actual: 23204720 kB)
Available disk space for partition containing /tmp: PASS
  (Required: 3000000 kB)
  (Actual: 9448896 kB)
Available disk space for partition containing /var: PASS
  (Required: 9000000 kB)
  (Actual: 9382304 kB)
Historical database connection string: PASS
  (jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)
Real Time database connection string: PASS
  (jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)
System Data Store database connection string: PASS
  (jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)
Content Store Connection database connection string: PASS
  (jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)
Reporting User Interface Connection database connection string: PASS
  (jdbc:oracle:thin:@//steamboat:1521/ccr.steamboat.dr.avaya.com)
RPM dependency: PASS
  (Details refer to rpmDependency.out)
Historical database version: PASS
  (Required: 10g)
  (Actual: Oracle Database 10g Enterprise Edition Release 10.2.0.3.0 - Prod)
Real Time database version: PASS
  (Required: 10g)
  (Actual: Oracle Database 10g Enterprise Edition Release 10.2.0.3.0 - Prod)
Historical database character set: PASS
  (Required: UTF8|UTF16|AL32UTF8|AL16UTF16, AL32UTF8)
  (Actual: UTF8, AL32UTF8)
Real Time database character set: PASS
  (Required: UTF8|UTF16|AL32UTF8|AL16UTF16, AL32UTF8)
  (Actual: UTF8, AL32UTF8)
Reporting TNS connectivity:
  (connection works)
Historical database user privileges: PASS
  (Required: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CR
EATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY
REWRITE, UNLIMITED TABLESPACE)
  (Actual: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CR
EATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY
```

```
REWRITE, UNLIMITED TABLESPACE)
Real Time database user privileges:                                PASS
  (Required: OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CR
EATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY
REWRITE, UNLIMITED TABLESPACE)
  (Actual:  OPEN, CREATE MATERIALIZED VIEW, CREATE PROCEDURE, CREATE ROLE, CR
EATE SEQUENCE, CREATE SESSION, CREATE TABLE, CREATE TRIGGER, CREATE VIEW, QUERY
REWRITE, UNLIMITED TABLESPACE)
Historical database max processes:                                PASS
  (Required: 1000)
  (Actual:  processes: 1000)
Historical database tablespaces:                                  PASS
  (Required: Unlimited tablespace)
  (Actual:  privilege = UNLIMITED TABLESPACE; CCR = 0 bytes, CCRDIM = 0 bytes
.)
Real Time database tablespaces:                                  PASS
  (Required: Unlimited tablespace)
  (Actual:  privilege = UNLIMITED TABLESPACE; CCRRT = 0 bytes.)
[root@feralas Tue-Sep-25-09_00_27-MDT-2007]#
```

RPM Dependency Validation:

```
[root@feralas Mon-Sep-17-09_32_51-MDT-2007]# more rpmDependency.out
RPM dependencies are satisfied
```

```
=====
rpm dependencies are specified as follows:
-----
```

```
openmotif
compat-db
ntp
acl >= 2.2.23-5
acpid >= 1.0.3-2
anacron >= 2.3-32
apmd >= 3.0.2-24
ash >= 0.3.8-20
aspell >= 0.50.5-3.fc3
aspell-en >= 0.51-11
at >= 3.1.8-80_EL4
atk >= 1.8.0-2
attr >= 2.4.16-3
audit >= 1.0.14-1.EL4
audit-libs >= 1.0.14-1.EL4
authconfig >= 4.6.10-rhel4.3
autofs >= 4.1.3-187
basesystem >= 8.0-4
bash >= 3.0-19.3
bc >= 1.06-17.1
beecrypt >= 3.1.0-6
bind-libs >= 9.2.4-16.EL4
bind-utils >= 9.2.4-16.EL4
binutils >= 2.15.92.0.2-21
bluez-bluefw >= 1.0-6
bluez-hcidump >= 1.11-1
bluez-libs >= 2.10-2
bluez-utils >= 2.10-2.1
bzip2 >= 1.0.2-13.EL4.3
bzip2-libs >= 1.0.2-13.EL4.3
Canna-libs >= 3.7p3-7.EL4
checkpolicy >= 1.17.5-1
chkconfig >= 1.3.13.4-1
chkfontpath >= 1.10.0-2
compat-db >= 4.1.25-9
compat-libstdc++-296 >= 2.96-132.7.2
compat-libstdc++-33 >= 3.2.3-47.3
comps >= 4AS-0.20060803
control-center >= 2.8.0-12.rhel4.5
coreutils >= 5.2.1-31.4
cpio >= 2.5-9.RHEL4
cpp >= 3.4.6-3
cracklib >= 2.7-29
cracklib-dicts >= 2.7-29
crash >= 4.0-2.30
crontabs >= 1.10-7
cryptsetup >= 0.1-4
cups >= 1.1.22-0.rc1.9.11
cups-libs >= 1.1.22-0.rc1.9.11
cyrus-sasl >= 2.1.19-5.EL4
cyrus-sasl-md5 >= 2.1.19-5.EL4
cyrus-sasl-plain >= 2.1.19-5.EL4
dapl >= 1.2.0-1
db4 >= 4.2.52-7.1
dbus >= 0.22-12.EL.7
dbus-glib >= 0.22-12.EL.7
desktop-file-utils >= 0.9-2
```

device-mapper >= 1.02.07-4.0.RHEL4
dhclient >= 3.0.1-58.EL4
dhcpcv6_client >= 0.10-14_EL4
diffutils >= 2.8.1-12
diskdumputils >= 1.3.15-1
dmraid >= 1.0.0.rc11-3_RHEL4_U4
dos2unix >= 3.1-21.2
dosfstools >= 2.8-15
dump >= 0.4b39-3.EL4.2
e2fsprogs >= 1.35-12.4.EL4
ed >= 0.2-36
eject >= 2.0.13-11
elfutils >= 0.97.1-3
elfutils-libelf >= 0.97.1-3
ethtool >= 1.8-4
expat >= 1.95.7-4
fbset >= 2.1-17
file >= 4.10-2.EL4.4
filesystem >= 2.3.0-1
findutils >= 4.1.20-7.el4.1
finger >= 0.17-26.EL4.1
fontconfig >= 2.2.3-7
freetype >= 2.1.9-1
FreeWnn-libs >= 1.10p1020-5
ftp >= 0.17-22
gamin >= 0.1.7-1.4.EL
gawk >= 3.1.3-10.1
gcc >= 3.4.6-3
gcc-c++ >= 3.4.6-3
gdbm >= 1.8.0-24
gettext >= 0.14.1-13
glib >= 1.2.10-15
glib2 >= 2.4.7-1
glibc >= 2.3.4-2.25
glibc-common >= 2.3.4-2.25
glibc-devel >= 2.3.4-2.25
glibc-headers >= 2.3.4-2.25
glibc-kernheaders >= 2.4-9.1.98.EL
gmp >= 4.1.4-3
gnome-libs >= 1.4.1.2.90-44.1
gnupg >= 1.2.6-5
gpm >= 1.20.1-71.RHEL4
grep >= 2.5.1-32.2
groff >= 1.18.1.1-3.EL4
grub >= 0.95-3.5
gtk2 >= 2.4.13-19
gzip >= 1.3.3-15.rhel4
hal >= 0.4.2-4.EL4
hdparm >= 5.7-2
hesiod >= 3.0.2-30
hotplug >= 2004_04_01-7.7
htmlview >= 3.0.0-8
hwdata >= 0.146.22.EL-1
iiimf-libs >= 12.1-13.EL.5
indexhtml >= 4.1-1
info >= 4.7-5
initscripts >= 7.93.25.EL-1
iproute >= 2.6.9-3
ipsec-tools >= 0.3.3-6.rhel4.1
iptables >= 1.2.11-3.1.RHEL4
iptstate >= 1.3-4
iputils >= 20020927-18.EL4.3
irda-utils >= 0.9.16-3
isdn4k-utils >= 3.2-18.pl.1
jpackage-utils >= 1.6.0-2jpp_3rh

jwhois >= 3.2.2-6.EL4.1
kbd >= 1.12-2
kernel >= 2.6.9-42.EL
kernel-smp >= 2.6.9-42.EL
kernel-utils >= 2.4-13.1.83
keyutils >= 1.0-2
keyutils-libs >= 1.0-2
krb5-libs >= 1.3.4-27
krb5-workstation >= 1.3.4-27
kudzu >= 1.1.95.15-1
less >= 382-4
lftp >= 3.0.6-3
lha >= 1.14i-17
libacl >= 2.2.23-5
libaio >= 0.3.105-2
libattr >= 2.4.16-3
libcap >= 1.10-20
libgcc >= 3.4.6-3
libgcrypt >= 1.2.0-3
libglade2 >= 2.4.0-5
libgpg-error >= 1.0-1
libgssapi >= 0.8-1
libibverbs >= 1.0.3-1
libjpeg >= 6b-33
libmthca >= 1.0.2-1
libpcap >= 0.8.3-10.RHEL4
libpng >= 1.2.7-1.el4.2
librdmacm >= 0.9.0-1
libsdp >= 0.9.0-1
libselinux >= 1.19.1-7.2
libsepol >= 1.1.1-2
libstdc++ >= 3.4.6-3
libstdc++-devel >= 3.4.6-3
libtermcap >= 2.0.8-39
libtiff >= 3.6.1-10
libusb >= 0.1.8-3
libuser >= 0.52.5-1.el4.1
libwvstreams >= 3.75.0-2
libxml2 >= 2.6.16-6
libxml2-python >= 2.6.16-6
libxslt >= 1.1.11-1
lksctp-tools >= 1.0.2-6.4E.1
lockdev >= 1.0.1-6.2
logrotate >= 3.7.1-5.RHEL4
logwatch >= 5.2.2-1.EL4.1
lrzsz >= 0.12.20-19
lsof >= 4.72-1.4
lvm2 >= 2.02.06-6.0.RHEL4
m4 >= 1.4.1-16
mailcap >= 2.1.17-1
mailx >= 8.1.1-36.EL4
make >= 3.80-6.EL4
MAKEDEV >= 3.15.2-3
man >= 1.5o1-9.rhel4
man-pages >= 1.67-9.EL4
mdadm >= 1.6.0-3
mgetty >= 1.1.31-2
mingetty >= 1.07-3
minicom >= 2.00.0-19
mkbootdisk >= 1.5.2-1
mkinitrd >= 4.2.1.8-1
mktemp >= 1.5-20
module-init-tools >= 3.1-0.pre5.3.2
mtools >= 3.9.9-9
mtr >= 0.54-10

mt-st >= 0.8-1
nano >= 1.2.4-1
nc >= 1.10-22
ncurses >= 5.4-13
netconfig >= 0.8.21-1.1
netdump >= 0.7.16-2
net-snmp-libs >= 5.1.2-11.EL4.7
net-tools >= 1.60-37.EL4.8
NetworkManager >= 0.3.1-3
newt >= 0.51.6-9.rhel4
nfs-utils >= 1.0.6-70.EL4
nfs-utils-lib >= 1.0.6-3
nscd >= 2.3.4-2.25
nss_db >= 2.2-29
nss_ldap >= 226-13
ntp >= 4.2.0.a.20040617-4.EL4.1
ntsysv >= 1.3.13.4-1
numactl >= 0.6.4-1.28
OpenIPMI >= 1.4.14-1.4E.13
OpenIPMI-libs >= 1.4.14-1.4E.13
openldap >= 2.2.13-6.4E
openldap-clients >= 2.2.13-6.4E
openldap-servers >= 2.2.13-6.4E
openmotif >= 2.2.3-10.RHEL4.5
openssh >= 3.9p1-8.RHEL4.15
openssh-clients >= 3.9p1-8.RHEL4.15
openssh-server >= 3.9p1-8.RHEL4.15
openssl >= 0.9.7a-43.10
pam >= 0.77-66.17
pam_ccreds >= 1-3
pam_krb5 >= 2.1.8-1
pam_passwdqc >= 0.7.5-2
pam_smb >= 1.1.7-5
pango >= 1.6.0-9
parted >= 1.6.19-4.EL
passwd >= 0.68-10.1
patch >= 2.5.4-20
pax >= 3.0-9
pciutils >= 2.1.99.test8-3.2
pcmcia-cs >= 3.2.7-3.5
pcre >= 4.5-3.2.RHEL4
pdksh >= 5.2.14-30.3
perl >= 5.8.5-36.RHEL4
perl-Filter >= 1.30-6
pinfo >= 0.6.8-7
policycoreutils >= 1.18.1-4.9
popt >= 1.9.1-18_nonptl
portmap >= 4.0-63
ppp >= 2.4.2-6.4.RHEL4
prelink >= 0.3.3-0.EL4
procmail >= 3.22-14
procps >= 3.2.3-8.4
psacct >= 6.3.2-38.rhel4
psmisc >= 21.4-4.1
pygtk2 >= 2.4.0-1
pygtk2-libglade >= 2.4.0-1
pyOpenSSL >= 0.6-1.p23
python >= 2.3.4-14.2
pyx86config >= 0.3.19-1
quota >= 3.12-5
rdate >= 1.4-2
rdist >= 6.1.5-38.40.1
readline >= 4.3-13
redhat-logos >= 1.1.26-1
redhat-lsb >= 3.0-8.EL

redhat-menus >= 3.7.1-2
redhat-release >= 4AS-5.5
rhnlib >= 1.8.7-4
rhpl >= 0.148.3-1
rmt >= 0.4b39-3.EL4.2
rootfiles >= 8-1
rpm >= 4.3.3-18_nonpt1
rpmdb-redhat >= 4-0.20060803
rpm-libs >= 4.3.3-18_nonpt1
rpm-python >= 4.3.3-18_nonpt1
rp-pppoe >= 3.5-22
rsh >= 0.17-25.4
rsync >= 2.6.3-1
schedutils >= 1.4.0-2
sed >= 4.1.2-5.EL4
selinux-policy-targeted >= 1.17.30-2.140
sendmail >= 8.13.1-3.RHEL4.5
setarch >= 1.6-1
setools >= 1.5.1-5
setserial >= 2.17-17
setup >= 2.5.37-1.3
setuptools >= 1.17-2
shadow-utils >= 4.0.3-60.RHEL4
slang >= 1.4.9-8
slocate >= 2.7-13.el4.6
specspo >= 9.0.92-1.3
statserial >= 1.1-35
stunnel >= 4.05-3
sudo >= 1.6.7p5-30.1.3
symlinks >= 1.2-22
sysfsutils >= 1.2.0-1
sysklogd >= 1.4.1-26_EL
syslinux >= 2.11-1
sysreport >= 1.3.15-6
system-config-mouse >= 1.2.9-1
system-config-network-tui >= 1.3.22.0.EL.4.2-1
system-config-securitylevel-tui >= 1.4.19.2-1
SysVinit >= 2.85-34.3
talk >= 0.17-26
tar >= 1.14-10.RHEL4
tcpdump >= 3.8.2-10.RHEL4
tcp_wrappers >= 7.6-37.2
tcsh >= 6.13-9
telnet >= 0.17-31.EL4.3
termcap >= 5.4-3
time >= 1.7-25
tmpwatch >= 2.9.1-1
traceroute >= 1.4a12-24
ttfprint >= 0.9-13
ttmkfdir >= 3.0.9-14.1.EL
tzdata >= 2006a-2.EL4
udev >= 039-10.15.EL4
unix2dos >= 2.2-24.1
unzip >= 5.51-7
up2date >= 4.4.69-25
usbutils >= 0.11-6.1
usermode >= 1.74-1
utempter >= 0.5.5-5
util-linux >= 2.12a-16.EL4.20
vconfig >= 1.8-4
vim-minimal >= 6.3.046-0.40E.7
vixie-cron >= 4.1-44.EL4
wget >= 1.10.2-0.40E
which >= 2.16-4
wireless-tools >= 28-0.pre16.3.3.EL4

words >= 3.0-3
wvdial >= 1.54.0-3
xinetd >= 2.3.13-4.4E.1
xmlsec1 >= 1.2.6-3
xmlsec1-openssl >= 1.2.6-3
xorg-x11-deprecated-libs >= 6.8.2-1.EL.13.36
xorg-x11-font-utils >= 6.8.2-1.EL.13.36
xorg-x11-libs >= 6.8.2-1.EL.13.36
xorg-x11-Mesa-libGL >= 6.8.2-1.EL.13.36
xorg-x11-xauth >= 6.8.2-1.EL.13.36
xorg-x11-xfs >= 6.8.2-1.EL.13.36
xscreensaver >= 4.18-5.rhel4.11
ypbind >= 1.17.2-8
yp-tools >= 2.8-7
zip >= 2.3-27
zlib >= 1.2.1.2-1.2

SNMP , CM and PC Version Verification:

```
[root@feralas ~]# cd /opt/Avaya/CCR/util/CAT
[root@feralas CAT]# ./cat.sh
Avaya(TM) IQ Configuration Audit Tool Menu
version 02.04-14
```

Select command from the list below.

- 1) Installation_Audit Confirm minimum requirements before installation
- 2) DBA_Audit Confirm DBA level requirements for database
- 3) App_Host_Audit Confirm minimum requirements for application host
- 4) Database_Audit Confirm minimum requirements for database
- 5) Individual_Audit Run individual system audits

Choice 1, 2, 3, 4, 5, or q to quit: 5

Select commands from the list below.

- 1) OS_Version Confirm OS Version meets minimum requirement
- 2) RAM Confirm system memory meets minimum requirement
- 3) CPU_Speed Confirm CPU speed meets minimum requirement
- 4) CPU_Architecture Confirm CPU architecture meets minimum requirement
- 5) Opt_Disk_Space Confirm /opt minimum free disk space is met
- 6) Tmp_Disk_Space Confirm /tmp minimum free disk space is met
- 7) Var_Disk_Space Confirm /var minimum free disk space is met
- 8) TmpPerm Confirm tmp directory permission
- 9) Hist_DB_Connectivity Confirm Historical database connectivity
- 10) Hist_DBRW_Connectivity Confirm Historical database Read-Write connectivity
- 11) Hist_DBRO_Connectivity Confirm Historical database Read-Only connectivity
- 12) RT_DB_Connectivity Confirm Real Time database connectivity
- 13) RT_DBRW_Connectivity Confirm Real Time database Read-Write connectivity
- 14) RT_DBRO_Connectivity Confirm Real Time database Read-Only connectivity
- 15) SDS_DB_Connectivity Confirm System Data Store database connectivity
- 16) CSC_DB_Connectivity Confirm Content Store Connection database connectivity
- 17) RUI_DB_Connectivity Confirm Reporting User Interface Connection database connectivity
- 18) Network_Information Display network information
- 19) Manifest Confirm Avaya IQ files against baseline
- 20) RPMs Confirm RPMs dependency
- 21) Connectivity SSH network connectivity to selected hosts
- 22) Hist_DB_Version Confirm Historical database version
- 23) RT_DB_Version Confirm Real Time database version
- 24) Hist_DB_Char_Set Check Historical database character set
- 25) RT_DB_Char_Set Check Real Time database character set
- 26) Hist_DB_User_Privs Check Historical database user privileges
- 27) Hist_DBRW_User_Privs Check Historical database Read-Write user privileges
- 28) Hist_DBRO_User_Privs Check Historical database Read-Only user privileges
- 29) RT_DB_User_Privs Check real time database user privileges
- 30) RT_DBRW_User_Privs Check Real Time database Read-Write user privileges
- 31) RT_DBRO_User_Privs Check Real Time database Read-Only user privileges
- 32) Hist_DB_Procs Check Historical database max processes
- 33) ReportingConn Reporting TNS connectivity
- 34) Hist_DB_Table_Space Check Historical database tablespace
- 35) Realtime_DB_Table_Space Check realtime database tablespace
- 36) PCVersion Proactive Contact Version
- 37) SNMP Confirm SNMP capability
- 38) CMVersion Communication Manager Version

Enter choice(s) (e.g. 6 1 4 8), all, b for previous menu, or q to quit: 37

Checking SNMP...

SNMP capability: PASS
(Required: perl-Time-HiRes)

(Actual: perl-Time-HiRes-1.55-3)
press Enter to continue:

Select commands from the list below.

- | | |
|-----------------------------|---|
| 1) OS_Version | Confirm OS Version meets minimum requirement |
| 2) RAM | Confirm system memory meets minimum requirement |
| 3) CPU_Speed | Confirm CPU speed meets minimum requirement |
| 4) CPU_Architecture | Confirm CPU architecture meets minimum requirement |
| 5) Opt_Disk_Space | Confirm /opt minimum free disk space is met |
| 6) Tmp_Disk_Space | Confirm /tmp minimum free disk space is met |
| 7) Var_Disk_Space | Confirm /var minimum free disk space is met |
| 8) TmpPerm | Confirm tmp directory permission |
| 9) Hist_DB_Connectivity | Confirm Historical database connectivity |
| 10) Hist_DBRW_Connectivity | Confirm Historical database Read-Write connectivity |
| 11) Hist_DBRO_Connectivity | Confirm Historical database Read-Only connectivity |
| 12) RT_DB_Connectivity | Confirm Real Time database connectivity |
| 13) RT_DBRW_Connectivity | Confirm Real Time database Read-Write connectivity |
| 14) RT_DBRO_Connectivity | Confirm Real Time database Read-Only connectivity |
| 15) SDS_DB_Connectivity | Confirm System Data Store database connectivity |
| 16) CSC_DB_Connectivity | Confirm Content Store Connection database connectivity |
| 17) RUI_DB_Connectivity | Confirm Reporting User Interface Connection database connectivity |
| 18) Network_Information | Display network information |
| 19) Manifest | Confirm Avaya IQ files against baseline |
| 20) RPMs | Confirm RPMs dependency |
| 21) Connectivity | SSH network connectivity to selected hosts |
| 22) Hist_DB_Version | Confirm Historical database version |
| 23) RT_DB_Version | Confirm Real Time database version |
| 24) Hist_DB_Char_Set | Check Historical database character set |
| 25) RT_DB_Char_Set | Check Real Time database character set |
| 26) Hist_DB_User_Privs | Check Historical database user privileges |
| 27) Hist_DBRW_User_Privs | Check Historical database Read-Write user privileges |
| 28) Hist_DBRO_User_Privs | Check Historical database Read-Only user privileges |
| 29) RT_DB_User_Privs | Check real time database user privileges |
| 30) RT_DBRW_User_Privs | Check Real Time database Read-Write user privileges |
| 31) RT_DBRO_User_Privs | Check Real Time database Read-Only user privileges |
| 32) Hist_DB_Procs | Check Historical database max processes |
| 33) ReportingConn | Reporting TNS connectivity |
| 34) Hist_DB_Table_Space | Check Historical database tablespace |
| 35) Realtime_DB_Table_Space | Check realtime database tablespace |
| 36) PCVersion | Proactive Contact Version |
| 37) SNMP | Confirm SNMP capability |
| 38) CMVersion | Communication Manager Version |

Enter choice(s) (e.g. 6 1 4 8), all, b for previous menu, or q to quit: 38

Checking CMVersion...

Enter CM IM IP address: 135.9.87.213
Communication Manager Version: PASS
(Required: CM 3.1.4.642.1 SP2(15756), CM 4.0.3.737.4, CM 5.0.0.825.4 SP3(15759), CM 5.1.0.414.3 or better)
(Actual: R013x.01.4.642.1-15756)
press Enter to continue:

Checking CMVersion...

Enter CM IM IP address: 135.9.87.50
Communication Manager Version: PASS
(Required: CM 3.1.4.642.1 SP2(15756), CM 4.0.3.737.4, CM 5.0.0.825.4 SP3(15759), CM 5.1.0.414.3 or better)
(Actual: R014x.00.3.737.4)
press Enter to continue:

Checking CMVersion...

Enter CM IM IP address: 135.9.94.194
Communication Manager Version: PASS
(Required: CM 3.1.4.642.1 SP2(15756), CM 4.0.3.737.4, CM 5.0.0.825.4 SP3(15759), CM 5.1.0.414.3 or better)
(Actual: R015x.00.0.825.4-15759)
press Enter to continue:

Select commands from the list below.

- 1) OS_Version Confirm OS Version meets minimum requirement
- 2) RAM Confirm system memory meets minimum requirement
- 3) CPU_Speed Confirm CPU speed meets minimum requirement
- 4) CPU_Architecture Confirm CPU architecture meets minimum requirement
- 5) Opt_Disk_Space Confirm /opt minimum free disk space is met
- 6) Tmp_Disk_Space Confirm /tmp minimum free disk space is met
- 7) Var_Disk_Space Confirm /var minimum free disk space is met
- 8) TmpPerm Confirm tmp directory permission
- 9) Hist_DB_Connectivity Confirm Historical database connectivity
- 10) Hist_DBRW_Connectivity Confirm Historical database Read-Write connectivity
- 11) Hist_DBRO_Connectivity Confirm Historical database Read-Only connectivity
- 12) RT_DB_Connectivity Confirm Real Time database connectivity
- 13) RT_DBRW_Connectivity Confirm Real Time database Read-Write connectivity
- 14) RT_DBRO_Connectivity Confirm Real Time database Read-Only connectivity
- 15) SDS_DB_Connectivity Confirm System Data Store database connectivity
- 16) CSC_DB_Connectivity Confirm Content Store Connection database connectivity
- 17) RUI_DB_Connectivity Confirm Reporting User Interface Connection database connectivity
- 18) Network_Information Display network information
- 19) Manifest Confirm Avaya IQ files against baseline
- 20) RPMs Confirm RPMs dependency
- 21) Connectivity SSH network connectivity to selected hosts
- 22) Hist_DB_Version Confirm Historical database version
- 23) RT_DB_Version Confirm Real Time database version
- 24) Hist_DB_Char_Set Check Historical database character set
- 25) RT_DB_Char_Set Check Real Time database character set
- 26) Hist_DB_User_Privs Check Historical database user privileges
- 27) Hist_DBRW_User_Privs Check Historical database Read-Write user privileges
- 28) Hist_DBRO_User_Privs Check Historical database Read-Only user privileges
- 29) RT_DB_User_Privs Check real time database user privileges
- 30) RT_DBRW_User_Privs Check Real Time database Read-Write user privileges
- 31) RT_DBRO_User_Privs Check Real Time database Read-Only user privileges
- 32) Hist_DB_Procs Check Historical database max processes
- 33) ReportingConn Reporting TNS connectivity
- 34) Hist_DB_Table_Space Check Historical database tablespace
- 35) Realtime_DB_Table_Space Check realtime database tablespace
- 36) PCVersion Proactive Contact Version
- 37) SNMP Confirm SNMP capability
- 38) CMVersion Communication Manager Version

Enter choice(s) (e.g. 6 1 4 8), all, b for previous menu, or q to quit: 36

Checking PCVersion...

Enter user ID: admin
Enter password:*****
Enter server name: d4hdbuff
Proactive Contact Version: PASS
(Required: PC 4.0.1.101.002 | PC 3.0.2)
(Actual: PC 4.0.1.101.002)
press Enter to continue:

Select commands from the list below.

- 1) OS_Version Confirm OS Version meets minimum requirement
- 2) RAM Confirm system memory meets minimum requirement
- 3) CPU_Speed Confirm CPU speed meets minimum requirement
- 4) CPU_Architecture Confirm CPU architecture meets minimum requirement
- 5) Opt_Disk_Space Confirm /opt minimum free disk space is met

```

6)  Tmp_Disk_Space      Confirm /tmp minimum free disk space is met
7)  Var_Disk_Space     Confirm /var minimum free disk space is met
8)  TmpPerm            Confirm tmp directory permission
9)  Hist_DB_Connectivity Confirm Historical database connectivity
10) Hist_DBRW_Connectivity Confirm Historical database Read-Write connectivity
11) Hist_DBRO_Connectivity Confirm Historical database Read-Only connectivity
12) RT_DB_Connectivity Confirm Real Time database connectivity
13) RT_DBRW_Connectivity Confirm Real Time database Read-Write connectivity
14) RT_DBRO_Connectivity Confirm Real Time database Read-Only connectivity
15) SDS_DB_Connectivity Confirm System Data Store database connectivity
16) CSC_DB_Connectivity Confirm Content Store Connection database connectivity
17) RUI_DB_Connectivity Confirm Reporting User Interface Connection database
connectivity
18) Network_Information Display network information
19) Manifest           Confirm Avaya IQ files against baseline
20) RPMs               Confirm RPMs dependency
21) Connectivity       SSH network connectivity to selected hosts
22) Hist_DB_Version    Confirm Historical database version
23) RT_DB_Version      Confirm Real Time database version
24) Hist_DB_Char_Set   Check Historical database character set
25) RT_DB_Char_Set     Check Real Time database character set
26) Hist_DB_User_Privs Check Historical database user privileges
27) Hist_DBRW_User_Privs Check Historical database Read-Write user privileges
28) Hist_DBRO_User_Privs Check Historical database Read-Only user privileges
29) RT_DB_User_Privs   Check real time database user privileges
30) RT_DBRW_User_Privs Check Real Time database Read-Write user privileges
31) RT_DBRO_User_Privs Check Real Time database Read-Only user privileges
32) Hist_DB_Procs      Check Historical database max processes
33) ReportingConn      Reporting TNS connectivity
34) Hist_DB_Table_Space Check Historical database tablespace
35) Realtime_DB_Table_Space Check realtime database tablespace
36) PCVersion          Proactive Contact Version
37) SNMP              Confirm SNMP capability
38) CMVersion          Communication Manager Version
Enter choice(s) (e.g. 6 1 4 8), all, b for previous menu, or q to quit: 36

```

Checking PCVersion...

```

Enter user ID: admin
Enter password:*****
Enter server name: d4pds1
Proactive Contact Version: PASS
  (Required: PC 4.0.1.101.002 | PC 3.0.2)
  (Actual:   PC 3.0.2.k04)
press Enter to continue:

```