A.03.07 HP-UX 9000 Release Notes

Version A.03.07 Set Up

In order to use the A.03.07 package, it is important to update your OpenTURBO library and binary paths to the A.03.07 directory:

```
/opt/imaxsoft/openturbo3.7/DB2
/opt/imaxsoft/openturbo3.7/eloquence
/opt/imaxsoft/openturbo3.7/oracle
```

DOOR Enhancements

All Platforms

1. `tiload/tiloadam` has an additional option `-i` that will display IMAGE dataset statistics from the TIFile input on `stdout`.

Eloquence Specific

1. `DRSTAT` will now get progress reports from `DOORELO_dmdrv3`

2. Asynchronous DOOR shooter is now available. To set up ASYNC mode, add the following line in the SHOOT command file on the HP 3000:

```
!SETVAR DOORELO_ASYNC "ON"
```

The synchronization check point is set at every 128 transaction during asynchronous transmission.

OpenTURBO Enhancements

All Platforms

1. Added additional DBCONTROL functionality:

```
Supported Mode: 5  Turn CIUPDATE ON

                6  Turn CIUPDATE OFF

                7  Allow Dynamic Multiple DB Transaction

Qualifier:      Dataset Level: @ in qualifier is for ALL DATASETS.

OpenTURBO Mode: 88 Set OpenTURBO Debugger Level Remotely

                89 Set OpenTURBO Debugger Output Filename Remotely

                90 Set IGNORE_RETURN_STATUS ON
                   OT_IGNORE_CHAINSTATUS = ON

                91 Set IGNORE_RETURN_STATUS OFF
                   OT_IGNORE_CHAINSTATUS = OFF (default)

                92 Set ONE_DIRECTION_CHAIN_GET ON
                   OT_BULKCHAINGET = ON

                93 Set ONE_DIRECTION_CHAIN_GET OFF
                   OT_BULKCHAINGET = OFF (default)

                94 Enlarge MAX_CURSOR_ALLOWED (A.04.00 Version Only)

                95 Clear All Open Cursors

                96 Set OT_SERIALGET_ORDERBY ON
                   OT_SERIALGET_ORDERBY = ON (default)

                97 Set OT_SERIALGET_ORDERBY OFF
                   OT_SERIALGET_ORDERBY = OFF

                98 Set OT_IGNORE_DBPUTSTATUS ON
                   OT_IGNORE_DBPUTSTATUS = ON

                99 Set OT_IGNORE_DBPUTSTATUS OFF
                   OT_IGNORE_DBPUTSTATUS = OFF (default)

               101 Set Last_Used_Sequence_No and Return its value

               102 Set IMAXSOFT13_SEQ_NO = IMAGE_Recnum

               110 Set OT_WRITE_CACHE = ON (ORACLE Only)
                   must do it right after DBOPEN, otherwise will get
                   un-predictable errors; you only allow to set it
                   once before DBCLOSE.

               111 Set OT_READ_CACHE = ON (ORACLE Only)
                   must do it right after DBOPEN, otherwise will get
                   un-predictable errors; you only allow to set it
                   once before DBCLOSE.
```

```
        114 Set OT_DBLOCK_CONTROL = 9 (ORACLE Only)
            (default is 0)
            0 - LOCK, 9 - No OT LOCK, use ORACLE LOCK, 1 - OT
            ITEM LEVEL LOCK (DBLOCK2) (Mode 5 and 6) only.
            must do it right after DBOPEN, otherwise will get
            un-predictable errors; you only allow to set it
            once before DBCLOSE.

        117 Set OT_LOCKCOVERAGE = OFF (default is ON)
            must do it right after DBOPEN, otherwise will get
            un-predictable errors; you only allow to set it
            once before DBCLOSE.
```

2. Added additional DBINFO codes:

```
406 - Return Buffer's Half-word 25 and 26 (starts from 1) contains the
      Number Of Concurrent DBOPEN including the calling process

8001 - OpenTURBO Client Library Version

8002 - OpenTURBO Server Program Version (DBSVR)

8003 - RDBMS and OS Type, 515 for ORACLE on HP-UX

8004 - RDBMS Database Name

8005 - Host Name where RDBMS Database resides

8006 - Service or Port Number that is used by OpenTURBO Listener

8007 - RDBMS Logon

8008 - OpenTURBO Server Program Full Name

8009 - OpenTURBO TI Root-File Name

8010 - OpenTURBO TI Root-File Version

8011 - OpenTURBO CONFIG File Name

8012 - OpenTURBO Reserve Word File Name

8013 - OpenTURBO Error Message File Name

8014 - Unconditional LOCK Pause and Re-try Count

8015 - CIUPDATE Allow Indicator

8016 - DBXBEGIN Allow Indicator

8017 - DUALMODE Indicator

8018 - DUALMODE HP/3000 Host Name

8019 - DUALMODE HP/3000 Listener Service or Port Number

8020 - DUALMODE HP/3000 Server Program Name (DMDRV)

8021 - IMAGEMODE Indicator - Access TurboIMAGE Only
```

```
8022 - IGNORE_RETURN_STATUS Indicator (IGNORE_CHAINSTATUS)
        Qualifier contains a Dataset Name or Dataset Number
        Return Buffer 1st Half-word contains TRUE=1 or FALSE=0

8023 - ONE_DIRECTION_CHAIN_GET Indicator (BULKCHAINGET)
        Qualifier contains a Dataset Name or Dataset Number
        Return Buffer 1st Half-word contains TRUE=1 or FALSE=0

8081 - Total SQL Calls since DBOPEN

8082 - Total Concurrent DBOPENs in the Client Process

8083 - Total Concurrent Open Cursors for the Database

8084 - Number of Chunks for the OpenTURBO Internal Cursor Pool
        Chunk Size is 30000 Bytes
```

ORACLE Specific

1. STATEMENT_LEVEL level caching for OT_WRITE_CACHE now supported.

Description: When OT_DUALMODE is set to 2PC (2 Phase Commit), data is synchronized across the HP9000 and HP3000 machines. Data is updated to (local) primary database and cache buffer in an ATOMIC fashion (2PC), then the data is subsequently sent to remote side asynchronously *after each statement (INSERT, DELETE, UPDATE, etc)***.** OpenTURBO will perform sync-point check when the CACHE BLOCK (currently set to 30K) is full.

Eloquence Specific

1. OMNIDEX for Eloquence support now available.

HP3000 Set-Up
- XLLIST order should be: OMIDEX, OPENTURBO, and then XL.PUB.SYS. All OMNIDEX related processes are automatically handled via IMAGE TPI call-back process at the database level.

HP9000 Set-Up
- In order to use OMNIDEX, libelo3k.sl must link to the OMIDEX libodxelo_db.sl.

2. The utility RECOVER now uses a new database password file format:

```
OPENTURBO recover<A.03.07> iMaxsoft Corp. Copyright 2005

usage: recover LogfileName Host Port Pgm DBpwdFile
```

Where DBpwdFile is now in the format of DATABASE,PASSWORD,RealBASE where RealBASE is the actual name of the database used by dmdrv for recovery.

DB2 Specific

1. `STATEMENT_LEVEL` level caching for `OT_WRITE_CACHE` now supported. See ORACLE section for details.

A.03.07 HP 3000 Release Notes

DOOR Enhancements

SQL Server Specific

1. `DRMAPGEN` now has a `-s <owner>.<table>` option. This option will replace using the default SQLServer Owner with the real owner and table name.