

ECS Configuration Change Request

1. Originator Royal White Jr.	2. Log Date: 10/30/98	3. CCR #: 98-1142	4. Rev: —	5. Tel: x1051	6. Off: 2038R	7. Org. Dev
8. Title of Change: Maintenance Upgrade for All Platforms from Sybase SQLServer 11.0.2.x to 11.0.3.3 in the VATC only.						
9. Originator Signature <i>Royal J. White Jr.</i>	10. Date: 10/29/98	11. Class IN	12. Type: CCR	13. Need Date: Before 11/6/98		
14. Office Manager Signature <i>Maureen Murawski</i>	15. Date: 10/29/98	16. Date CCB Decision Needed: 10/30/98	17. Category of Change: Other	18. Priority: Emergency		
19. Documentation/Drawings Impacted: N/A		20. Schedule Impact: N/A		21. CI(s) Affected: All		
22. Release Affected: N/A 4PX		23. Date due to Customer:	24. Impl. Date: Before 11/6/98	25. Effectivity of Change:	26. Est. Cost None	
27. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> GSFC CCR <input type="checkbox"/> Tech Ref. <input type="checkbox"/> Other: N/A						
28. Description of Change: (use additional Sheets if necessary) Upgrade the Sybase SQLServer version from 11.0.2.x to 11.0.3.3 in the VATC only.						
29. Proposed Solution: (use additional sheets if necessary) Request VATC (with assist from RTSC) upgrade the Sybase SQLServer version from 11.0.2.x to 11.0.3.3 per the attached draft PSR in the VATC only. Upgrade should be done in off hours (weekdays between 6PM and 8AM or weekends) and should be scheduled with the System Verification Group. Request VATC (and RTSC) update the draft PSR as needed and provide response to Development (Royal White) when upgrade is completed.						
30. Alternate Solution: (use additional sheets if necessary) Do not upgrade.						
31. Consequences if Change(s) are not approved: (use additional sheets if necessary) VATC Sybase Server 11.0.2.x is a non-vendor supported and non-Year 2000 product. Product support for End-to-End testing at the DAACs will be delayed non-existent for the Sybase databases.						
32. Does Change Affect Any of the following (Please Explain on additional sheet): <input type="checkbox"/> Maintenance Training <input type="checkbox"/> Performance <input type="checkbox"/> Operation Training <input type="checkbox"/> Safety <input type="checkbox"/> Service <input type="checkbox"/> Support <input type="checkbox"/> Test <input type="checkbox"/> Baseline (XRP) <input type="checkbox"/> Y2K Compliance						
33. Organization(s) Affected: <input type="checkbox"/> CM <input type="checkbox"/> Clearcase SG <input type="checkbox"/> Contracts <input type="checkbox"/> Chief Eng <input type="checkbox"/> FOS <input type="checkbox"/> M&O <input type="checkbox"/> QO <input type="checkbox"/> Rel Dev <input type="checkbox"/> Procurement <input checked="" type="checkbox"/> RTSC <input type="checkbox"/> Sci. Data Eng <input type="checkbox"/> Security <input type="checkbox"/> Sys. Dev. <input type="checkbox"/> Sys. Eng. <input checked="" type="checkbox"/> Sys Verf Acpt <input type="checkbox"/> Other						
34. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> Mini-DAAC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> Other						
35. Board Comments:					36. Work Assigned To: RTSC	
37. Release Authorized (For CM Use Only): <input type="checkbox"/> Yes <input type="checkbox"/> No			38. CM Verified/Signature and Date			
39. EDF/REL2 CCB Chair (Sign/Date): <i>[Signature]</i> 10/30/98		40. Disposition: <input checked="" type="checkbox"/> App <input type="checkbox"/> Ap/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/> Fwd/ECS <input type="checkbox"/> Fwd/ESDIS		41. ESDIS ERB Concurrence:		
42. ECS CCB Chair (Sign/Date):		43. Disposition: App <input type="checkbox"/> A/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/>		44. CCR Closed Date:		

ORIGINAL

@ 10/30/98

914-TDA-XXX

EOSDIS Core System Project

**Sybase SQL Server 11.0.3 and 11.0.3.3
Maintenance Upgrades
for the ECS Project**

Installation and Release Notes

October 29, 1998

Raytheon Systems Company
Upper Marlboro, Maryland

ORIGINAL

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1. Introduction

1.1 Purpose

This document describes changes to the ECS COTS Software Baseline to effect an upgrade of Sybase SQL Server. This document describes how to upgrade Sybase SQL Server 11.0.2.x to Sybase SQL Server 11.0.3.3. It describes the installation and verification of Sybase SQLServer Version 11.0.3 and Version 11.0.3.3. We will distribute the upgrade CD's for installation at all the DAAC sites.

The information conveyed by this document includes:

- identification of the new version release and the delivery of the CD files to the SMC
- identification of the Sybase SQLServer software version 11.0.3 and 11.0.3.3
- identification of ECS specific preliminary actions to take before the upgrade
- description of ECS specific upgrade steps from Sybase SQL Server 11.0.2.x to 11.0.3
- description of ECS specific upgrade steps from Sybase SQL Server 11.0.3 to 11.0.3.3
- identification of ECS specific post-upgrade steps
- description of ECS specific special upgrade steps for servers that are part of replication
- identification and tracking of vendor documentation released with the tar files
- identification of the known bugs delivered with this COTS package

1.2 Scope

This document describes the contents of COTS delivery that will be made available to all the DAACs. The document identifies the baseline upgrades, software versions, and locations of the installed COTS products. It provides an inventory of the delivery, and special operating instructions where applicable. It also describes the steps to upgrade Sybase SQL Server on all Unix platforms. The document also contains Transact-SQL commands to perform the preliminary and post-upgrade checks.

The CD's delivered to the SMC for distribution will be:

11.0.3 for SUN

11.0.3 for HP

11.0.3 for SGI

11.0.3.3 for SUN

11.0.3.3 for HP

11.0.3.3 for SGI

For distribution to: All DAACs

CCR number and title:

CCR 98-____

Maintenance Upgrade for All Platforms from Sybase SQLServer 11.0.2.x to 11.0.3.3.

2. Related Documentation

910-TDA-003: Rev 09

COTS Software Version

3. General Product Description

3.1 Product Description and Capabilities

Sybase SQL Server is a multi-user relational database management system (RDBMS):

- provides management services
- provides control of, and information about a relational database for concurrent users
- information is passed from client to server and vice versa across the network using Open Client as the standard Application Programming Interface (API).

3.2 Subsystem Impacts

The following subsystems/CIs are affected:

- ACL
- DDIST
- DMS
- IDG – Subscription
- INGEST
- IOS
- MSS
- PDPS
- SDSRV
- STMGT

4. Inventory

See the Sybase SQL Server 11.0.3 and 11.0.3.3 installation disks for the SUN, HP or SGI platform.

5. Non-Conformance Status

5.1 Closed NCRs

None

5.2 Open NCR

None

Appendix A. Adaptation Data

Not Applicable

Appendix B. Installation Instructions

B.1 SQL Server 11.0.2 to 11.0.3 Upgrade Instructions (ECS Specific)

B.1.1 Preliminary Checklist

1. Need Sybase account password.
2. Make sure that there is enough disk space for the new files. (90 MB)
3. Be sure the DISPLAY, SYBASE & DSQUERY variables are set correctly and can be found by sybsetup.
4. Your path should include \$SYBASE, \$SYBASE/bin & \$SYBASE/install
5. Verify the name and location of the RUNSERVER file. (the old \$SYBASE/install directory and is still named RUN_server_name where server_name is the name of the current SQL Server)
6. Have the media/tar file & Customer Authorization String (CAS) handy.
7. Make sure the SQL Server is running and all users are logged off. SQL Server should be up (use "showserver" command at the UNIX prompt -- "dataserver" entry should be displayed).
8. Make sure that master (21 MB minimum) and sybserverprocs (19 MB minimum) databases have enough space. Space requirement are:

Database	Min	Size	Recommended
master		21	28 (raw partition)
sybserverprocs		19	19 (raw or OS file system)

9. Check to see if any databases are replicated by running *dbcc gettrunc* in each database. If transtate = 1, then see the B.3 SQL Server Upgrade with Replicated Databases section before proceeding.
10. Checkpoint all databases.
11. Perform database integrity checks. (Run *dbcc checkalloc*, *dbcc checkdb*, and *dbcc checkcatalog*)
12. Make sure your "sa password" does not contain dollar sign (\$).
13. Make a good backup of your \$SYBASE directory.
14. Make sure you have a good copy of the latest database backup including "master" database and /usr/ecs/OPS/COTS/sybase directory.
15. Disable disk mirroring. (Run *select name, mirrorname from sysdevices*. Use *disk unmirror*.)
16. Shut down Monitor Server, SQS server, Remedy, and Autosys.

B.1.2 Install 11.0.3 and Upgrade Server

1. Make sure auditing is turned off, if auditing is done on the server:

Steps:

```
isql -Usa -S<sybase servername>
Password:
1> sp_auditoption
2> go
```

If you get "Msg 2812" and you typed the above statement correctly, then there is no auditin on this sybase server. Proceed to Step (2).

If "enable auditing" is "on" then do the following:

```
1> sp_auditoption "enable auditing", off
2> go
```

2. Make sure "trunc. log on chkpt." option is turned OFF on all databases.

Steps:

```
isql -Usa -S<sybase servername>
Password:
1> sp_helpdb
2> go
```

The above command give you a list of all databases information including the database options.

e.g.

name	created status	db_size	owner	dbid
tempdb	Sep 15, 1998 select into/bulkcopy	2.0 MB	sa	2
sample	Sep 14, 1998 select into/bulkcopy, trunc log on chkpt, allow nulls by default	45.0 MB	mss_role	5

(return status = 0)
1>

Make a note of all databases that have "trunc log on chkpt" in the status column. In the above example, database "sample" has "trunc log on chkpt" option set. To remove the option do the following in "isql mode", replace "<database name>" with the actual name of the database:

```

1> sp_dboption <database name>, "trunc log on chkpt", false
2> go
Database option 'trunc log on chkpt' turned OFF for database 'sample'.
Run the CHECKPOINT command in the database that was changed.
(return status = 0)

1> use <database name>
2> go
1> checkpoint
2> go

```

3. Login as the sybase user.

4. Stop the SQL Server

Steps:

```

isql -Usa -S<sybase servername>
Password:
1> shutdown SYB_BACKUP
2> go
Backup Server: 3.48.1.1: The Backup Server will go down immediately.
Terminating sessions.
1> shutdown
2> go
Server SHUTDOWN by request.
The SQL Server is terminating this process.
DB-LIBRARY error:
Unexpected EOF from SQL Server.

```

5. If upgrading from CDROM, insert the CDROM into the CDROM drive. CD mounts automatically on Solaris & SGI. You have to mount the CD on an HP.

From here on the \$CDROM path should be replaced by the actual CD-ROM path

If you are upgrading from a tar file, then untar the file in a empty directory and replace \$CDROM path with the path of the directory you untarred the sybase software.

6. Run sybsetup program from the 11.0.3 CD.

Steps:

\$CDROM/sybsetup &

On the "sybsetup" Dialog box:

- Make sure your "SYBASE directory" is correct.
- Press "UNLOAD SYBASE PRODUCTS from CD-ROM or tape" option

On the "Installation Destination" Dialog box:

- Make sure your "Sybase Installation Directory" path is correct.
- Select the "Continue" button

- If you get "Msg: 47 - Warning. The Sybase env var has been assigned as a def. install dir", press "OK"

- If you see a "info" Dialog box, press "check" button.

On the "Installation Source" Dialog box:

- Make sure that the path to the CD-ROM image is correct. If not change it. It should be \$CDROM/sybimage.
- Select the "Continue" button

On the "Customer Authorization" Dialog box:

- Enter the CAS number for the Platform.
- Select the "Continue" button
- If you see a "info" Dialog box, press "Continue" button.

On the "Products Selection" Dialog box:

- Select the line "Sybase SQL Server".
- Select the "Continue" button

On "Install Product" Dialog box

- Select "Continue" button.

It should go through completion and say "Product Installation Complete".

Select the "Exit" button.

Select the "Exit" button again.

7. Re-start the SQL Server

If you have a Sybase Startup/Shutdown script you could use that

- OR
- cd \$SYBASE/install
- ./startserver -f ./RUN_<sybase_srvr_name>

You will see at the end of the messages something like below (It's normal to see WARNING at the end, when you are upgrading):

```
.
.
.
00:98/09/15 14:54:44.76 server Database 'test' is now online.
00:98/09/15 14:54:44.80 server Recovery complete.
00:98/09/15 14:54:44.82 server SQL Server's default sort order is:
00:98/09/15 14:54:44.84 server 'bin_iso_1' (ID = 50)
00:98/09/15 14:54:44.86 server on top of default character set:
00:98/09/15 14:54:44.88 server 'iso_1' (ID = 1).
00:98/09/15 14:54:44.90 server WARNING: *****
00:98/09/15 14:54:44.92 server SQL Server booted against master device
for different release.
This message is to be expected during an upgrade.
SQL Server version 11.0.3 Master device version 11.0.2
00:98/09/15 14:54:44.94 server WARNING: *****
```

8. Run the Sybinit program:

- cd \$SYBASE/install
- ./sybinit
- RETURN
- Type 3 (Configure a Server product) from "SYBINIT" menu
- RETURN
- Type 1 (SQL Server) from "CONFIGURE SERVER PRODUCT" menu
- RETURN
- Type 3 (Upgrade an existing SQL Server) from

- "NEW OR EXISTING SQL SERVER" menu
- RETURN
- Type 1 (Release directory for previous release) from "UPGRADE EXISTING SQL SERVER" menu
- RETURN
- Type the path for sybase (eg. /usr/ecs/OPS/COTS/sybase)
- RETURN
- CTRL-a
- Type the number against your SQL Server you are upgrading
- RETURN
- Type 2 (SA Passwd) from "ENTER SA ACCT NAME & PASSWORD" menu
- RETURN
- Type the "sa password"
- RETURN
- CTRL-a
- Type 1 (Test SQL Server upgrade eligibility now) from "SQL SERVER UPGRADE" menu
- RETURN

 You should messages like the following:

```
Testing SQL Server 'joker_srvr' for eligibility to upgrade to
  release '11.0.3'.
...Done
```

```
Server 'joker_srvr' passed preupgrade eligibility test.
Press <return> to continue.
```

If the "preupgrade eligibility test" failed then press RETURN and exit "sybinit" by pressing CTRL-x (4 times). You should now be at UNIX prompt and look at the log file, correct the problems and re-run step (8). Log file name will be provided to you by sybinit, when you exit above.

- RETURN
- Type 2 (Check for reserved word conflicts) from "SQL SERVER UPGRADE" menu
- RETURN

 You should messages like the following:

```
...Done
The log file for sp_checkreswords output is
  '/data/sybase/init/logs/checkres.dmp'.
```

```
Reserved word check passed, there are no conflicts with
  11.0 SQL Server reserved words.
Press <return> to continue.
```

If the "reserved work check" failed then press RETURN and exit "sybinit" by pressing CTRL-x (4 times). You should now be at UNIX prompt and look at the log file, correct the problems and re-run step (8). Log file name will be provided to you by sybinit, when you exit above.

- RETURN
- Type 4 (Upgrade SQL Server now) from "SQL SERVER UPGRADE" menu

- RETURN
- Enter the SQL Server errorlog path with filename
(eg: /usr/ecs/OPS/COTS/sybase/install/joker_srvr_errorlog)
- RETURN

 You should messages like the following:

```

Running task: upgrade the SQL Server.
Checkpointing all databases.
Running script '/usr/ecs/OPS/COTS/sybase/upgrade/usage.sql' to save
  Database segment information
Successfully saved database segment information
Shutting down the SQL Server 'joker_srvr'
..Done! All databases recovered.
Upgrading SQL Server joker_srvr
  from release 11.0.2 to release 11.0.3
.....Done
Upgrade of server 'joker_srvr' to release '11.0.3' succeeded.
Task succeeded: upgrade the SQL Server.
Running task: update the SQL Server runserver file.
Task succeeded: update the SQL Server runserver file.
Running task: boot the SQL Server.
Task succeeded: boot the SQL Server.
Running task: install system stored procedures.
.....Done
Task succeeded: install system stored procedures.
Running task: set permissions for the 'model' database.
Done
Task succeeded: set permissions for the 'model' database.

Configuration completed successfully.
Press <return> to continue.
  
```

- RETURN
- CTRL-a (2 times)
- Type 2 (Backup Server) from "CONFIGURE SERVER PRODUCTS" menu
- RETURN
- Type 2 (Configure an existing Backup Server) from
"NEW OR EXISTING BACKUP SERVER" menu
- RETURN
- Type the number that is against the "Backup Server" you are
upgrading from "CONFIGURE EXISTING BACKUP SERVER" menu
- RETURN
- Change any entries that are incorrect from
"BACKUP SERVER CONFIGURATION" menu
by selecting the corresponding number and press RETURN
- Ctrl-a
- Type "y" (Execute the Backup Server Configuration now?)

 You should messages like the following:

```

Enter the number of your choice and press return:
Execute the Backup Server configuration now? n'y
Running task: update the Backup Server runserver file.
Task succeeded: update the Backup Server runserver file.
Running task: boot the Backup Server.
Task succeeded: boot the Backup Server.
  
```

Configuration completed successfully.
Press <return> to continue.

-
- RETURN
 - CTRL-a (3 times) until you exit to the UNIX prompt

9. To verify that Upgrade worked fine:

```
isql -Usa -S<sybase servername>  
Password:  
1> select @@version  
2> go
```

```
SQL Server/11.0.3/P/Sun_svr4/OS 5.4/2/OPT/Fri Jul 18 18:30:59 PDT 1997  
  
(1 row affected)  
1>
```

B.2 SQL Server 11.0.3 to 11.0.3.3 Upgrade Instructions (ECS Specific)

B.2.1 Upgrade Server

1. Shutdown the SQL Server.

```
- Login as sybase
- Set SYBASE variable (setenv SYBASE /usr/ecs/OPS/COTS/sybase)

$SYBASE/bin/isql -Usa -Sminotaur_srvr
Password:
1> shutdown SYB_BACKUP
2> go
Backup Server: 3.48.1.1: The Backup Server will go down immediately.
Terminating sessions.
1> shutdown
2> go
Server SHUTDOWN by request.
The SQL Server is terminating this process.
DB-LIBRARY error:
  Unexpected EOF from SQL Server.
```

2. Copy the contents of the CD to the \$SYBASE directory.

Copy the software from CD to the sybase directory (replace \$CDROM with the actual path to the CDROM)

```
- Login as sybase
- You should be in the directory where the sybase is installed
  (i.e. /usr/ecs/OPS/COTS/sybase)
- cp -r $CDROM/* .
```

3. Startup sybase SQL Server and the Sybase Backup Server

```
- Login as sybase
- You should be in the directory where the sybase is installed
  (i.e. /usr/ecs/OPS/COTS/sybase)
- cd install
- ./startserver -f ./RUN_<sybase servername>
- RETURN
```

You should see something like this:

```
00:1998/10/13 16:17:48.84 kernel Using config area from primary master
device.
00:1998/10/13 16:17:48.90 kernel Warning: Using default file
'/vendor/sybase/minotaur_srvr.cfg'
since a configuration file was not specified.
Specify a configuration file name in the RUNSERVER file to avoid this
message.
00:1998/10/13 16:17:49.61 kernel Using 1024 file descriptors.
```

```

00:1998/10/13 16:17:49.62 kernel  SQL Server/11.0.3.3/P/Sun_svr4/OS 5.4/SWR
7934 Rollup/OPT/...
00:1998/10/13 16:17:49.62 kernel  (c) Copyright 1987, 1998.
00:1998/10/13 16:17:49.62 kernel  Sybase, Inc. All rights reserved.
00:1998/10/13 16:17:49.62 kernel
.
.
.
00:1998/10/13 16:17:50.81 server  Recovery complete.
00:1998/10/13 16:17:50.81 server  SQL Server's default sort order is:
00:1998/10/13 16:17:50.81 server  'bin_iso_1' (ID = 50)
00:1998/10/13 16:17:50.81 server  on top of default character set:
00:1998/10/13 16:17:50.81 server  'iso_1' (ID = 1).

```

```

-----
- ./startserver -f ./RUN_<sybase backup servername>
- RETURN
-----

```

You should see something like this:

```

Backup Server/11.0.3.3/P/Sun_svr4/OS 5.4/SWR 7934 Rollup/OPT/Mon Jun 1
01:54:07 PDT 1998
(c) Copyright 1987, 1998.
Sybase, Inc. All rights reserved.

```

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Sybase, Inc. 6475 Christie Avenue, Emeryville, CA 94608, USA.

Logging Backup Server messages in file
'/vendor/sybase/install/minotaur_backup_srvr.log'

4. Using isql, run the installmaster and instmsgs.ebf scripts and save the output.

```

- Login as sybase
- set SYBASE path (eg. setenv SYBASE /usr/ecs/OPS/COTS/SYBASE)
- You should be in the directory where the sybase is installed
  (i.e. /usr/ecs/OPS/COTS/sybase)
- cd scripts
- $$SYBASE/bin/isql -Usa -P<sa_password> -S<sybase servername> -n -
  iinstallmaster -oinstallmaster.rpt
- $$SYBASE/bin/isql -Usa -P<sa_password> -S<sybase servername> -n -
  iinstmsgs.ebf -oinstmsgs.rpt

```

B.2.2 Post-Upgrade

1. Select @@version to see if the upgrade worked.

```

$$SYBASE/bin/isql -Usa -S<sybase servername>
Password:

```

```
1> select @@version
2> go
```

You should see something similar to this:

```
-----
SQL Server/11.0.3.3/P/Sun_svr4/OS 5.4/SWR 7934 Rollup/OPT/Sun May 31
23:28:44 PDT 1998
```

```
(1 row affected)
1> Exit
```

2. If auditing was turned off in step (1), then turn it back "on".

```
isql -Usa -S<sybase servername>
Password:
1> sp_auditoption "enable auditing", on
1> go
```

3. If "trunc log on chkpt" was turned off in step(2), then turn it back "on".

```
isql -Usa -S<sybase servername>
Password:
1> sp_dboption <database name>, "trunc log on chkpt", true
2> go
Database option 'trunc log on chkpt' turned ON for database 'sample'.
Run the CHECKPOINT command in the database that was changed.
(return status = 0)

1> use <database name>
2> go
1> checkpoint
2> go
```

4. Re-mirror databases if they were unmirrored.
5. Re-enable replication. See the B.3.2 Post-Upgrade section.
6. Restart Monitor Server, SQS server, Remedy, and Autosys.
7. Backup all databases.

B.3 SQL Server Upgrade with Replicated Databases (ECS Specific)

B.3.1 Preliminary Checklist

If you are running Replication Server, complete the following tasks before upgrading to 11.0.3:

1. Check for replicated text or image columns in each database. (Identify by running *select count(*) from syscolumns where (status & 0x3 !=0) and (type=35 or type=34)*. If this does not return 0, then step 5 is necessary.)
2. Run *rs_helproute* in each RSSD being upgraded. The status of all routes must be "Active."
3. Shut down applications using the databases being upgraded.
4. Suspend DSI connections to non-RSSD databases being upgraded. (Use the *admin who* command in Replication Server to identify existing DSI connections. Run *suspend connection to dataserver.database* to suspend the connections.)
5. This is only necessary if step 1 did not return 0. Drain transaction logs for primary databases.
6. Drain the RSSD transaction log.
7. Shut down Replication Servers and LTMs for the database being upgraded.
8. Disable the LTM truncation point. In each primary RSSD, execute the *command dbcc settrunc('ltm', 'ignore')*.

B.3.2 Post-Upgrade

1. Connect to the primary RSSD and execute *rs_zeroltm dataserver, RSSD* where *dataserver* is the name of the dataserver and *RSSD* is the name of the RSSD database.
2. Connect to the primary database and enable the truncation point: *dbcc settrunc('ltm', 'valid')*.
3. Restart the Replication Servers and LTMs.
4. Resume the DSI connections by running *resume connection to dataserver.database* in the Replication Server.

Appendix C. Test Procedures

C.1 EDF Evaluation for COTS Maintenance Upgrade

EDF Evaluation for COTS Maintenance Upgrade

Technology Area: DBMS	Date:
Requester(s): Royal White Jr.	CCR No.:
Proposed Evaluation Group: Development DD&M, SDSRV, DADS	
Evaluated COTS Product/Version Sybase SQL Server 11.0.3.3	
Reason Needed (Issue, need or risk): Vendor support and End-to-End testing	
Is this version of the COTS product Y2K Compliant? YES	
1. Product Description: Sybase SQLServer 11.0.3.3 is the next version of the Sybase SQL Server DBMS software package after the current baseline version which is supported and Y2000 compliant.	
1.1 Hardware/Platform Requirements: (consider operating system revision level) Sun Solaris 2.5.1, HP-UX 10.01 or 10.2, SGI IRIX 6.2	
1.2 Media Requirements: CD	
2. Vendor: (company name, address, etc.) Sybase Inc.	
2.1 Company Background: Primary COTS contractor	
2.2 Point of Contact: Dave Czarniecki Dave Marquette	2.3 Phone Number:
2.4 Fax Number:	2.5 Email Address:
2.6 Product Price: N/A (if any)	
3. Evaluation Plan and Schedule: (please attach to this document) See attached project plan (SYB11033.MPP).	
3.1 Need by Date: 12/31/98	
3.2 Length of Evaluation: (please indicate in days) 60 days	
3.4 EDF hardware, software and network requirements: Shelby, Functionality Lab	
3.5 Projected number of hours to be charged by each evaluator: Max 60 person-hours	
3.6 Evaluation Criteria: See attached document (SYB11033.doc)>	

4. Assessment of Product:		(Section 4 & 5 will be filled out with final CCR)
4.1 Evaluation Against Criteria:		
5 Summary of Results:		
Review Committee Comments:		
Priority to the ECS Project:		
Disposition:		
Office:	Office Manager:	_____

	Signature	Date

ECS

C.2 Sybase SQLServer Upgrade Evaluation Plan and Schedule

Sybase SQLServer 11.0.3.3 is an integrated COTS, dependencies exist between it and Replication Server, Open Client/C, SQL Monitor, ESSM, ODBC Drivers, AutoSys, SQR Workbench, DB Tools.h, Power Designor, Tivoli, IQ, SybPerl. In addition custom code in each Subsystem connect to Sybase SQLServer. An adequate evaluation of this COTS must address both COTS and custom code areas.

11.0.3.3 Upgrade Plan Evaluation Preparation and Approval	03-Sep-98	08-Sep-98
Prepare Eval Environment on Shelby	03-Sep-98	09-Sep-98
Test DB Install Scripts	09-Sep-98	15-Sep-98
DM/IOS Scripts	09-Sep-98	11-Sep-98
MSS/SUBSRV Scripts	14-Sep-98	15-Sep-98
PDPS/SDSRV Scripts	09-Sep-98	11-Sep-98
INGEST/STMGT/DDIST Scripts	14-Sep-98	15-Sep-98
Install Scripts Tested	15-Sep-98	15-Sep-98
Prepare EDF	08-Sep-98	18-Sep-98
Prepare CCR for EDF	08-Sep-98	09-Sep-98
Present CCR	10-Sep-98	10-Sep-98
Config Approved	10-Sep-98	10-Sep-98
Configure Server	11-Sep-98	18-Sep-98
Server Ready	14-Sep-98	14-Sep-98
Install 11.0.3	15-Sep-98	15-Sep-98
Prepare Upgrade/Install Notes	15-Sep-98	18-Sep-98
Evaluate 11.0.3	07-Sep-98	29-Sep-98
Scenario 1	15-Sep-98	29-Sep-98
Scenario 2	15-Sep-98	29-Sep-98
Scenario 3	15-Sep-98	29-Sep-98
Scenario 4	15-Sep-98	29-Sep-98
Scenario 5	15-Sep-98	29-Sep-98
Eval Complete	29-Sep-98	29-Sep-98

C.3 Sybase SQLServer Upgrade Evaluation Criteria

1. Ability to successfully run sample code and scripts provided by Sybase
2. Ability to successfully connect, retrieve, insert, and delete data using isql scripts
3. Ability to successfully dump and load data using bcp scripts
4. Ability to successfully connect, retrieve, insert, update, and delete data in all environments using existing subsystem/CI code.