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Hybrid Implementation Plan CBOEDIR_3.0

Pre-requisties - By April 8th

All these steps can be done after hours **before** we upgrade CBOEDirect and install the Hybrid code on the new BC03 cluster.

GROUP	ГАSK	DESCRIPTION / STATUS
QA N	Merge and label new release.	Merge down all Hybrid branches and apply label 3.0. Infra Label to use ??
INFRA (Paul C.)	Backup local rep	Backup local rep on all boxes (will be usefull for recovering in case we have to backout the code).
	Setup infrastructure on prdbc01a/prdbc01b prdbc02a/prdbc02b prdbc03a/prdbc03b prdgc01a/prdgc01b prdgc02a/prdgc02b prdmdgca/prdmdgcb prdlc01a/prdlc01b prdfe01-04 mdcas001-002 cas0057, cas0014-6, cas00XX fix1a, fix1b fix2a, fix2b fix3a, fix3b sacas1-2	Setup infra on infrap login on the boxes to point to production CBOEDirect a) configure sysman agents on new clusters b) Add new clusters to RT server cloud c) Add agent.server.process.bc3Ax1.xml, agent.server.process.bc3Ax2.xml, agent.server.process.bc3Ax3.xml, agent.server.process.bc3Bx1.xml, agent.server.process.bc3Bx2.xml, agent.server.process.bc3Bx3.xml, agent.server.process.mdgcA.xml, agent.server.process.mdgcA.xml, agent.server.lmb.bc3Ax1.xml, agent.server.lmb.bc3Ax2.xml, agent.server.lmb.bc3Ax3.xml, agent.server.lmb.bc3Bx1.xml, agent.server.lmb.bc3Bx1.xml, agent.server.lmb.bc3Bx2.xml, agent.server.lmb.bc3Bx3.xml, agent.server.lmb.bc3Bx3.xml, agent.server.lmb.mdgc1A.xml, agent.server.lmb.mdgc1A.xml, agent.server.lmb.mdgc1A.xml, agent.server.lmb.mdgc1B.xml,

[<u></u>	,
DBA (Dennis Paradiso)	Setup production schema's on Oracle Cluster, prdmdgc01a/b, and prdbc03a/b (In all the 3 environments)	e) Update smart cache to add new channels 1) IntermarketOrderStatus. 2) NBBOAgentAdmin 3) OptionTicker 4) Alert 5) QuoteNotification f) Add V2 extent Maps for the new channels. 1) Setup assur and prod schema's. 2) Install sqlplus on prdmdgc01a/b 3) Install sqlplus on prdbc03a/b on each of the logins (3 of them). 4) New Oracle schema's on prdbcd3a/b (3 for assur and 3 for prod) 5) Create all new tables on each of the above 6 schema's on prdbcd3a/b to what is there currently on prod.
DOSS(Robert Von B.)	Patrol verification	Verify startup/shutdown of Infra structure comes up on new boxes after infra setup above is complete. 1) prdbc03a/b for each of the 3 logins. 2) Prdmdgc01a/b
DOSS (Robert Von B.)	Patrol verification	Switch from assr or prod and back.
ATG Testing/refreee signoff	Refree signoff	ATG, Operations, CDB etc
CTM (Ed Horvath)	Allow for more logins.	New Hybrid env will require 3 more logins. SB31SB31, SB32SB32, SB33SB33
TPF Group (David H.)	Allow for more logins.	Need new logins for Orders, reports, & quote service.
Server group	Generate all Hybrid xml's	User the server group setup steps explained below and do as much stuff that can be done in development i.e. generate XML, setContext, setTradingProperty scripts etc

Installing CBOEDIR_3.0 in the new directories.

Rollout Schedule

- 1) Day 1 Upgrade prdgc01a
- 2) Day 2 Update database schema's on prdbc01
- 3) Day 3 Upgrade prdgc01b
- 4) Day 4 Infra extent map updates & prdbc02 schema updates
- 5) Day 5 CAS STUFF
- 6) Day 6 Upgrade FE01 and FE03 plus CAS STUFF
- 7) Day 7 Upgrade FE02 and FE04 plus CAS STUFF
- 8) Day 8 Upgrade BC01a with CBOEDIR 3.0
- 9) Day 9 Upgrade prdbc03 (all 3 logins) + prdmdgc + CAS stuff.
- 10) Day 10 Upgrade prdbc02a, prdbc01b, prdlc01a + CAS stuff
- 11) Day 11 Upgrade prdbc02b + CAS stuff
- 12) Day 12 prdlc01b

QA setup steps for GC, MDGC, BC, FE

These steps need to be executed on **assurance** directories as well.

Also all of this can be done after hours, a couple of days before we start the upgrade.

- 1) Install CBOEDIR 3.0 under
 - a) /sbt/prod/tradeeng & /sbt/prod/common
 - b) /sbt/assr/tradeeng & /sbt/assr/common

Note On BC03 the new directory structure will be used. Other then the directory name everything else remains the same.

Create the following Links

- 2) Create the following link **with read,write,execute access** in tradeeng/CBOEDIR_3.0 symbolMapFile -> /sbt/prod/tradeeng/CBOEDIR_3.0/properties/symbolMapFile
- 3) Create the following **with read,write,execute access** link in tradeeng/CBOEDIR_3.0 log -> /sbt/log/prod/tradeeng/CBOEDIR_3.0

Copy the following Files from

/sbt/prod/tradeeng/run dir/ to tradeeng/CBOEDIR 3.0

- 4) ssconfig.cm
- 5) IORResolver.properties

Copy the following files from

/sbt/prod/tradeeng/run dir/properties to tradeeng/CBOEDIR 3.0/properties

- 6) RoutingGroupAssignment.properties (With write access)
- 7) StandardMessageCatalog.properties
- 8) symbolMapFile

Please make sure we have write access to the following files

- 1) /sbt/prod/tradeeng/CBOEDIR 3.0/properties/* all files
- 2) /sbt/prod/tradeeng/CBOEDIR 3.0/bin/setContext

Needed only on GC01A/B

Copy all the CAS XML's from (Using CAS script)

- a) /sbt/prod/tradeeng/run dir/properties/xml to tradeeng/CBOEDIR 3.0/properties/xml
- b) /sbt/prod/common/run_dir/properties/xml to common/CBOEDIR 3.0/properties/xml

Needed only on GC01A/B

Copy all the CAS DTD's from (Using CAS script)

- a) /sbt/prod/tradeeng/run dir/properties/dtd to tradeeng/CBOEDIR 3.0/properties/dtd
- b) /sbt/prod/common/run dir/properties/dtd to common/CBOEDIR_3.0/properties/dtd

QA setup steps for prdlc01a/prdlc01b

- 1) QA will install CBOEDIR_3.0 on prdlc01a/prdlc01b under /sbt/prod/tradeeng and /sbt/prod/common
- 2) Change owner ship to root on **apping** (with execute permission) under /sbt/prod/tradeeng/CBOEDIR 3.0/bin
- 3) Turn Setuid bit on apping under /sbt/prod/tradeeng/CBOEDIR 3.0/bin
- 4) Create the following (with read, write, execute access) link in CBOEDIR_3.0 log -> /sbt/log/prod/tradeeng/CBOEDIR_3.0.
- 5) Create the following directories under /sbt/log/prod/tradeeng/CBOEDIR 3.0
 - a) fixLogs
 - b) fixLogs/cboeLinkageSim
 - c) fixLogs/fixLinkageAdapter
 - d) fixLogs/fixLinkageSim
 - e) fixLogs/hubLinkageSim
- 6) Copy the following files from /sbt/prod/tradeeng/CBOEDIR_3.0/properties
 - a) appia.key
 - b) cboeLinkageSim.ini
 - c) fixLinkageAdapter.ini
 - d) fixLinkageSim.ini
 - e) fixometer.ini
 - f) hubLinkageSim.ini
 - g) policy.txt
- 7) Will need write access to
 - a) /sbt/prod/tradeeng/CBOEDIR 3.0/bin/setContext.
 - b) /sbt/prod/tradeeng/CBOEDIR 3.0/properties/* all files

Server group setup steps

XML Changes (all clusters)

- Generate XML for all boxes and put the XML's on deepfrz-corp under the appropriate directory /sbt/server/prodInstall/{hostname} where hostname is the name of the host you are generating the XML for. (i.e. A side and B side will also be in different directories). See Appendix –A for process list.
- Update the XML entries for each process appropriately by comparing against the production version for ORB Ports, ORB Names, Base Href, & SMS Relationship name.

setContext changes (all clusters)

☐ Fix the **setContext for each host** for all the processes that run on that host, by comparing with production version and put the updated setContext on deepfrz-corp in the appropriate directory **as explained above.** See Appendix –A for process list..

Database changes (GC & BC)

- □ Database changes All database changes that need to be made are specified in file /vobs/dte/documents/sbt/Hybrid/DatabaseChangesForHybrid.doc. When installing code pick the corresponding database changes that are needed on that cluster.
- ☐ When making changes to the database either use the new alter scripts that have been created or do the changes manually.

Routing group changes (GC A & GC B)

- ☐ Fix the RoutingGroupAssignment.properties for the GC, take the production version & add the new hybrid group hierarchy, also add the PostAssignment group. Save the file in the appropriate directory as specified above.
- ☐ The following group hierarchy will need to be created when the code is installed on prdgc01a. This will need to be done only once. After creating the groups make sure the groups and their parent child relationship exists in the database.

ProdGlobal (This group already exists)

ProdBC03x1

ProdBC03x1HybridTradeServer1

ProdBC03x2

ProdBC03x2HybridTradeServer1

ProdBC03x3

ProdBC03x3HybridTradeServer1

ProdGlobal.underlyingProducts (This group already exists)

ProdBC03x1HybridTradeServer1.underlyingProducts ProdBC03x2HybridTradeServer1.underlyingProducts ProdBC03x3HybridTradeServer1.underlyingProducts

Εv	ent chanr	els (GC A)
All	the channel	related stuff needs to be done only once when the GCA is installed.
	The following	ng channels need to be re-created when updating prdgc01a
	1)	Drop and re-create channel (TradingProperty)
	The following	ng new channels need to be created when updating prdgc01a
	1)	IntermarketOrderStatus
	2)	NBBOAgentAdmin
	3)	OptionTicker
	4)	Alert
	5)	QuoteNotification
Tra	adingProp	perties (GC A)
All	the trading	property related stuff needs to be done only once when the GCA is installed.
	1) Add ne	w properties
	2) Add de	faults for all properties for all sessions.
No	te A script s	should be written to do this.
No	te A script s	should be written to do this.
	-	
Ma	anual XML	Updates (GC A)
Ma	anual XML is needs to be Modify the	
Ma	anual XML is needs to be Modify the underlyings	Updates (GC A) e done only once when the GCA box is installed. TradingSessionService.xml manually to remove ONE_MAIN from the list of StateChangeTriggeredSessions. TradingSessionElementTemplate.xml to make sure there are no changes needed
Ma Thi	anual XML is needs to be Modify the underlyings Also verify in the new of	Updates (GC A) e done only once when the GCA box is installed. TradingSessionService.xml manually to remove ONE_MAIN from the list of StateChangeTriggeredSessions. TradingSessionElementTemplate.xml to make sure there are no changes needed
Ma Thi	anual XML is needs to be Modify the underlying! Also verify in the new of	Updates (GC A) e done only once when the GCA box is installed. TradingSessionService.xml manually to remove ONE_MAIN from the list of StateChangeTriggeredSessions. TradingSessionElementTemplate.xml to make sure there are no changes needed one.
Ma Thi	Anual XML is needs to be Modify the underlyings Also verify in the new of ading Ses is needs to be Add the new	Updates (GC A) e done only once when the GCA box is installed. TradingSessionService.xml manually to remove ONE_MAIN from the list of StateChangeTriggeredSessions. TradingSessionElementTemplate.xml to make sure there are no changes needed one. sion changes (GC A)

DAY 1 Installation of prdgc01a

Friday (New code installed after 3:15 pm in new directories)

Server Group

- 1) Submit test req 11:00 clock
- 2) Generate all application processes, agents, sbt catalog XML's in development and put it on deepfrz as explained in the Server setup section above. *Do this for all clusters and all processes*.
- 3) Update setContext in development and put it on deepfrz as explained in the Server setup section above. *Do this for all clusters*.
- 4) Update RoutingGroupAssignment.properties in development (used one from prod as base) and put it on deepfrz as explained in the Server setup section above

QA Setup

- 1) Install new code base
- 2) Use QA Setup steps from previous section to setup CBOEDIR_3.0 on prdgc01a.

Operations (3rd shift) – AFTER ALL EOD FOR FRIDAY IS COMPLETE.

1) Bring infrastructure up on all boxes including linkage cluster (THIS IS FOR SATURDAY'S configuration).

Saturday

TEST REQ: Will need TPF, autoquote, PDS, TIPS, Up and running.

Operations

1) Bring infrastructure up on all boxes (should be Already done Friday night by 3rd shift).

Server group on prdgc01a (7:00 am)

- 1) Change run dir link for both common and tradeeng to point to new CBOEDIR 3.0
- 2) Use Server group setup steps from above to setup prdgc0A. (XML, Routing group properties, database changes)

NOTE: only the XML for processes on prdgc01a should be generated.

Operations/Infra group (7:45 am) – AFTER QA and SERVER GROUP SETUP IS COMPLETE.

- 1) Re-login on all terminals.
- 2) Verify all Pre-requesites and make sure backups have been taken.
- 3) Load admin.xml for new ExtentMap stuff.
- 4) Reload Central and sysman agents on prdgc01a (& Verify)
- 5) Load ifr (& Verify).

Server group on prdgc01a

- 1) Re-login on all terminals.
- 2) Create new channels (use server group setup steps from above).
- 3) Start Id & Global Server.
- 4) Use Server group setup steps from above to create new Routing groups & verify.
- 5) User server group setup steps from above to setup default trading properties for each session
- 6) User server group setup steps from above to create the new trading session template for hybrid.
- 7) Restart the global server.
- 8) Run assignClassesToRoutingGroups and assignClassesToSessions and verify.
- 9) Run showClasses –byGroup and –bySession to verify if everything is assigned correctly.
- 10) Shutdown ID and GLOBALServer.

Operations/Server support Saturday - 11:00 am / Sunday - 7:00 am

- 1) Follow regular operator procedures to start the CBOEDirect application (**NOTE:** We may want to do a download **Needs to be decided if it is safe to do so).**
- 2) Follow regular operator procedures to start the linkage application.
- 3) Run showClasses –byGroup and –bySession to verify if everything is assigned correctly.
- 4) Open sessions W AM1, ONE MAIN, W MAIN
- 5) Open ONLY test class HOB in all sessions.
- 6) Do a couple of trades one each session
- 7) Make sure you see TIPS and PDS Data.
- 8) Close products
- 9) Follow end of session and end of day procedures to shutdown and cleanup the CBOEDirect & linkage application's
- 10) Failover to the GC B-Side (Use the fallback plan below).

Day 1 - FALLBACK

- 1) Shutdown tradeengine on prdgc01a.
- 2) Switch to prdgc01b as master.

Day 2 Update Database on prdbc01

Server Group

- 1) Send 11:00 o'clock TEST REQ
- 2) Use Server group setup steps from above to make database changes on prdbc01

Day 2 - Fallback

Not applicable

DAY 3 Installation of prdgc01b

TEST REQ:

AFTER End of Session for ALL sessions (4:15).

Operations

1) Shutdown all **tradeengine** processes on prdgc01b.

QA Setup

1) Use QA Setup steps from previous section to setup CBOEDIR 3.0 on prdgc01b.

Server group on prdgc01b

- 1) change **run** dir link on prdgc01b to point to the new CBOEDIR 3.0 release.
- 2) Use server group setup steps from above to
 - a) generate new XML for prdgc01b (on prdgc01a)
 - b) Update setContext for prdgc01b
- 3) Re-login on all terminals.
- 4) Copy RoutingGroupAssignment.properties & symbolMap file from prdgc01a

Operations/Infra group

- 1) Reload Central Repository on pdgc01a.
- 2) Reload Sysman agents on prdgc01b (& Verify)

Operations/Server support

- 1) Re-login on all terminals.
- 2) Bring up tradeeng application as slave on prdgc01b

Day 4 - prdbc02 schema updates / Channel extent map

prdbc02 schema updates (server group)

- 1) Test Req for 11:00 0'clock.
- 2) Use server group setup steps from above to add new columns on existing tables

Day 4 - Fallback prdbc02 schema updates

1) Not – applicable.

Channel Extent Map updates (Infrastructure group)

???????????????

DAY 5 Installation of sacas1 and cas0057

New code installed after 3:15pm in new directories

Install new code and run thru qa setup from above for sacas1 and cas0057.

Client Group

- 1) Submit test req 11:00 clock
- 2) Generate all application processes, agents, sbt catalog XML's in development and put it on deepfrz::/sbt/client/hybridInstall/xml

QA on sacas1 and cas0057

- 1) Install new code base
- 2) Use QA Setup steps from previous section to setup CBOEDIR_3.0 on sacas1 and cas0057.

Client group on sacas1

1) Update xml files (SBTCatalog.X.xml and processes.X.xml)

Operations/Infra

1) Reload Central and sysman agents on sacas1 and cas0057(& Verify)

Day 5 - Fallback

Operations

- 1) Shutdown sacas1 and/or cas0057
- 2) Switch to sacas2

QA (If needed)

- 1) Change run_dir links on **tradeeng** back to point to the old CBOEDIR_2.X release
- 2) Change run dir links on **common** back to point to the old CBOEDIR 2.X release

DAY 6 Installation of prdfe01 and prdfe03 / sacas2

Installation of prdfe01/prdfe03 (Server group)

TEST REQ:

AFTER End of ALL sessions (4:15).

Operations

1) Shutdown all **tradeengine** processes on prdfe01 & prdfe03.

QA Setup

 Use QA Setup steps from previous section to setup CBOEDIR_3.0 on prdfe01 & prdfe03.

Server group on prdfe01/prdfe03

- 3) change **run** dir link on prdfe01 & prdfe03 to point to the new CBOEDIR 3.0 release.
- 4) Use server group setup steps from above to
 - a) generate new XML for prdfe01 & prdfe03 (on prdgc01a)
 - b) Update setContext for prdfe01 & prdfe03
- 5) Re-login on all terminals.

Operations/Infra group

- 6) Reload Central repository on prdgc01a
- 7) Reload Sysman agents on prdfe01 & prdfe03 (& Verify)

Operations/Server support

- 8) Re-login on all terminals.
- 9) Bring up tradeeng application on prdfe01 & prdfe03

Fallback - Day 6 (prdfe01 & prdfe03)

- 1) Shutdown prdfe01 & prdfe03.
- 2) System will automatically failover to prdfe02 & prdfe04.

DAY 7 Installation of prdfe02/prdfe04, cas0014/cas00XX

Installation of prdfe02/prdfe04 (Server group)

TEST REQ:

AFTER End of ALL sessions (4:15).

Operations

1) Shutdown all **tradeengine** processes on prdfe02 & prdfe04.

QA Setup

2) Use QA Setup steps from previous section to setup CBOEDIR 3.0 on prdfe02 & prdfe04.

Server group on prdfe02/prdfe04

- 3) change **run** dir link on prdfe02 & prdfe04 to point to the new CBOEDIR 3.0 release.
- 4) Use server group setup steps from above to a) generate new XML for prdfe02 & prdfe04 (on prdgc01a)
 - b) Update setContext for prdfe02 & prdfe04
- 5) Re-login on all terminals.

Operations/Infra group

- 6) Reload Central repository on prdgc01a
- 7) Reload Sysman agents on prdfe02 & prdfe04 (& Verify)

Operations/Server support

- 8) Re-login on all terminals.
- 9) Bring up tradeeng application on prdfe02 & prdfe04

Fallback – Day 7 (prdfe02 & prdfe04)

- 1) Shutdown prdfe02 & prdfe04.
- 2) System will automatically failover to prdfe01 & prdfe03.

DAY 8 Installation of prdbc01a

TEST REQ:

AFTER End of session for ALL sessions (4:15).

Operations

1) Shutdown all **tradeengine** processes on prdbc01a.

QA Setup

2) Use QA Setup steps from previous section to setup CBOEDIR_3.0 on prdbc01a.

Server group on prdbc01a

- 3) change **run**_dir link on prdbc01a to point to the new CBOEDIR_3.0 release.
- 4) Use server group setup steps from above to
 - a) generate new XML for prdbc01a (on prdgc01a)
 - b) Update setContext for prdbc01a.
- 5) Re-login on all terminals.

Operations/Infra group

- 6) Reload Central repository on prdgc01a
- 7) Reload Sysman agent on prdbc01a (& Verify)

Operations/Server support

- 8) Re-login on all terminals.
- 9) Bring up tradeeng application on prdbc01a.

Fallback - Day 8

- 1) Shutdown processes on prdbc01a.
- 2) Run switch tradeeng system on prdbc01b to make it the new master..

DAY 9 Installation of prdbc03a/b, prdmdgca/b

TEST REQ:

Need Tips, Pds, Auto Quote, TPF, CTM, Copp, Linkage application, Cboe direct etc...

Note Once this step is complete operations will need to bring up prdbc03a/b and prdmdgca/b boxes every day. (Also this step will require a weekend upgrade).

Operations

1) Follow regular operator procedures to start the CBOEDirect & Linkage application.

QA Setup

2) Use QA Setup steps from previous section to setup CBOEDIR_3.0 on prdbc03a/b, prdmdgca/b..

Server group on prdbc03a/b & prdmdgca/b

- 3) change **run** dir link on all the above boxes to point to the new CBOEDIR 3.0 release.
- 4) Use server group setup steps from above to
 - a) generate new XML for prdbc03a/b & prdmdgca/b (on prdgc01a) b) Update setContext for prdbc03a/b & prdmdgca/b.
- 5) Re-login on all terminals.

Operations/Infra/Server group

- 6) Reload Central repository on prdgc01a
- 7) Reload Sysman agent on prdbc03a/b & prdmdgca/b (& Verify)
- 8) Re-login on all terminals.
- 9) Bring up tradeeng application on prdbc03a/b & prdmdgca/b.
- 10) Follow regular operator procedures to start the linkage application.
- 11) Open sessions W AM1, ONE MAIN, W MAIN

12) Open ONLY test class HOB in all sessions.

- 13) Do a couple of trades one each session
- 14) Close products
- 15) Follow end of session and end of day procedures to shutdown and cleanup the CBOEDirect & linkage application's

Fallback - Day 9 prdmdgc boxes

- 1) Stop all services on TIPS and PDS Adapter
- 2) Enable all services on TIPS adapter on prdgc01a.

Fallback - Day 9 bc03 boxes

1) Not applicable.

DAY 10 Installation of prdbc02a and prdlc01a

TEST REQ

- 1) Upgrade of prdlc01a can be started at 3:20 pm
- 2) Upgrade of prdbc02a will be started after EOS for all sessions is complete.

Install of prdlc01a

Operations/Infra group

1) Shutdown all tradeengine processes on prdlc01a.

QA Setup

2) Use QA Setup steps from previous section to setup CBOEDIR 3.0 on prdlc01a

Server group on prdlc01a

- 3) change **run**_dir link on all the above boxes to point to the new CBOEDIR_3.0 release.
- 4) Re-login on all terminals.
- 5) Verify QA install

Operations/Server support

- 6) Re-login on all terminals.
- 7) Bring up tradeeng application on prdlc01a & verify.

Fallback Day 10 - prdlc01a

- 1) Shutdown all tradeengine processes on prdlc01a.
- 2) Switch to goMaster on prdlc01b.

Install of prdbc02a

Operations

1) Shutdown all **tradeengine** processes on prdbc02a.

QA Setup

2) Use QA Setup steps from previous section to setup CBOEDIR_3.0 on prdbc02a.

Server group on prdbc02a

- 3) change **run**_dir link on prdbc01a to point to the new CBOEDIR_3.0 release.
- 4) Use server group setup steps from above to a) generate new XML for prdbc02a (on prdgc01a)
 - b) Update setContext for prdbc02a.
- 5) Re-login on all terminals.

Operations/Infra group

- 6) Reload Central repository on prdgc01a
- 7) Reload Sysman agent on prdbc02a (& Verify)

Operations/Server support

- 8) Re-login on all terminals.
- 9) Bring up tradeeng application on prdbc02a.

Fallback Day 10 - prdbc02a

- 1) Shutdown processes on prdbc02a.
- 2) Run switch tradeeng system on prdbc02b to make it the new master..

DAY 11 Installation of prdbc01b,prdbc02b, cas 15 & cas 16

TEST REQ: prdbc01b & prdbc02b

After End of session on all sessions is complete.

Operations

1) Shutdown all **tradeengine** processes on prdbc01b & prdbc02b.

QA Setup

2) Use QA Setup steps from previous section to setup CBOEDIR_3.0 on prdbc01b & prdbc02b.

Server group on prdbc01b & prdbc02b

- 3) change **run** dir link on prdbc01a to point to the new CBOEDIR 3.0 release.
- 4) Use server group setup steps from above to a) generate new XML for prdbc01b & prdbc02b (on prdgc01a)
 - b) Update setContext for prdbc01b & prdbc02b.
- 5) Re-login on all terminals.

Operations/Infra group

- 6) Reload Central repository on prdgc01a
- 7) Reload Sysman agent on prdbc01b & prdbc02b (& Verify)

Operations/Server support

- 8) Re-login on all terminals.
- 9) Bring up tradeeng application on prdbc01b & prdbc02b.

Fallback Day 11 – prdbc01b & prdbc02b

1) Not applicable.

DAY 12 Installation of prdlc01b, mdcas 1, mdcas 2, fix3a/b

TEST REQ

1) Upgrade of prdlc01b can be started at 3:20 pm

Install of prdlc01b

Operations/Infra group

2) Shutdown all tradeengine processes on prdlc01b.

QA Setup

3) Use QA Setup steps from previous section to setup CBOEDIR 3.0 on prdlc01b

Server group on prdlc01a

- 4) change **run** dir link on all the above boxes to point to the new CBOEDIR 3.0 release.
- 5) Re-login on all terminals.
- 6) Verify QA install

Operations/Server support

- 7) Re-login on all terminals.
- 8) Bring up tradeeng application on prdlc01b & verify.

Fallback Day 10 - prdlc01b

1) Not – applicable.

Appendix A - Process List

prdgc01a and prdgc01b

- 2) IdServer
- 3) GlobalServer
- 4) SMSServer
- 5) CompassAdapter
- 6) CoppGlobalAdapter
- 7) TpfGlobalAdapter
- 8) TipsAdapter
- 9) v20Frontend
- 10) MemAdapter

Note No need to generate XML for the PDS Adapter. Hence remove the Entry for PdsAdapter when generating the XML for GC.

prdbc01a & prdbc01b

- 6) ExtTradeServer1
- 7) TradeServer1
- 8) CtmAdapter
- 9) TpfAdapter
- 10) StatusServer

prdbc02a & prdbc02b

- 1) TradeServer2
- 2) CtmAdapter
- 3) CoppAdapter
- 4) StatusServer

prdbc03a & prdbc0b3

This is a special case. There are 3 logins setup here to run the hybrid processes, each environment will have the same set of processes; each process will be suffixed with a sub-cluster id to distinguish between the processes running under different logins.

Note The database for this cluster is actually running on a different cluster, prdbcd3a & prdbcd3b.

Sub-Cluster 1 (tradep3), Sub-Cluster 2 (tradep4), Sub-Cluster 3 (tradep5) will all be configured to run the following processes

- 1) HybridTradeServer1
- 2) CtmAdapter
- 3) TpfAdapter
- 4) StatusServer

prdfe01,prdfe02,prdfe03 & prdfe04

1) v20Frontend

prdmdgca & prdmdgcb

- 1) TipsAdapter
- 2) PdsAdapter