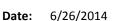| Meeting Name	Daily Change Coordination and Issue Review
Attendees:	Daniel Sapienza, Brian Duffy, Christine Malia, Sangeetha Iyer, Andreas Kanon, Mike Jin, Binita Adhikari, Daniel Belanger, Han Gu
Purpose:	Review, Communicate Business Impacting Incidents and Prioritize and Finalize the Change Plan for the current night.
Achieved Outcome:	Agreed upon implementation plan and issue follow up (Daily)

RECAP OF NOTABLE CHANGES FROM LAST NIGHT

- **None**

RECAP OF ISSUES FROM LAST NIGHT AND START OF DAY

- After the OFIDS restart job, the logs for the ISE and Gemini primary processes indicated "*Error occurred when handling query response*." As per standard procedure, this OFIDS primary and secondary processes were manually restarted, at approx. 04:37. Afterwards, the logs did not indicate the error. **INC000000000368** was opened for this issue.

- ODS LVC 56p disconnected from Gemini ticker plant at the open. Instance reconnected to the backup.

- LBTYA bid/offer showing up @ 18:00. Discovered that OQTR primary instances for Gemini are shutting down before the secondary. This causes the secondary to take over and send out an updated quote.

NOTABLE CHANGE PLAN FOR TONIGHT (6/26)

- 197 Gemini products
- IORS Incr 1?

UPCOMING CHANGES / TESTS

Name	Description	Tentative Implementation
Mdd fixes	MDD Incremental pre-requisite (9.0.105)	Week of 7/14
Opening Performance	Needs to be tested by all AT teams (especially PAT/BAT) (9.0.200)	Mid July
IORS	Incremental#1 – Embedded Fix / GTSAPI Performance enhancements	Pending PAT sign-off
Config Client	Command line config client	July
LOR	Post 9.0 incremental (After OQTR)	Week of 6/30
SOR	Post 9.0 incremental	Early July
RTP	Upgrade servers to 2012. ALR first	July
NFS	Remove NFS	8/29
Deco Fast Feeds	Decommission FAST Feeds	8/11
IORS Performance	Multiple IORS performance changes were discussed and need to be scheduled *Rebalance adapters between ORA's	Rebalance in progress
Binary Depth Feed	Dependent on Decommissioning of FAST Feeds	TBD
OCC EOD time	OCC is looking to move the EOD time to 5:15.	July?
CBOE ETH	CBOE is to begin offering extended trading hours from 3:00 am - 9:15 am	July?

OPEN ISSUES

Priority	Issue	Impact to Production
High	On 6/12 and 6/13, OQTR stopped sending data to SIAC on individual lines causing queues to build. In order to recover, the OQTR instance was failed over and SIAC forced a failover to the backup port.	Quotes and trades are not sent to the tape. If a failover is required, anything in the queue is lost.
Owner	**Updates (6/26):**	
SIAC/ Dev / ASG / NOPS	• Issue has not occurred the since 6/19 (after SIAC fallback). **Actions Taken:**	
Application	• New release deployed to OQTR instances. Allows ISE to failover to backup port without SIAC interaction	
OQTR	• SIAC has fallen back off of a release for lines 35 – 48. • Test performed with SIAC from DR to their prod lines **Next Steps:** • SQM to test windows scaling from BAT to Test NMS system • After test, SIAC believes that scaling will prevent the issue	
Priority	Recently the ODS LVC for partition 56 has disconnected from the Gemini Exegy ticker plant at the open.	Data is slow to get to front end while instance reconnects.
Medium	**Update (6/24):**	
Owner	• Issue occurred again on 6/19 • The addition of more products could make this more common	
SQM	**Actions Taken:**	
Application	• Examined perf captures • Partitions are balanced at the moment. Can't rebalance any further right now.	
LVC	**Next Steps:** • Test ability to load data from RDCX instead of Exegy. Will be setup in test envs	
Priority	Performance issues were found on all EFI hosts and the IDS servers.	Performance issues on the server could impact the data being disseminated by these applications.
Medium	**Update (6/18):**	
	• EFI servers are utilizing more CPU since 7.0 release. • GDS instances are using excessive CPU on the IDS servers	
Owner	**Actions Taken:**	
Capacity/ Dev	• Checked spec for GDS. 1 instance handles 90% of the data. **Next Steps:**	
Application	• Dev has requested a test in DR to determine the cause of the EFI issues. Waiting on DR rebuild so servers are ready.	
EFI / GDS		
Priority	A race condition in the PIMs during the OFIDS LVC startup causes the PMM status to display incorrectly. This is caused when there are multiple requests to the PIM at the same time.	FE applications show an incorrect status for the PMM for affected products.
Medium	**Update (5/29):**	
Owner	• Issues has reoccurred after schedule change **Actions Taken:**	
Dev	• Rearranged UC4 schedule • Added alert to Check_mk if issues triggers	
Application	**Next Steps:**	
PIM/OFIDS	• SIR 272127 – need an update from Dev • Possibly deliver / test with upcoming Marketwatch release – fix mw issues first	
Priority	Check_mk log monitoring is not available for multiple servers/applications. This is a result of having to rediscover multiple logs throughout the day. The result is the agent utilizes excessive CPU resources and becomes unresponsive.	ASG is unable to monitor the application logs for issues. Could result in a missed issue or delayed
Medium	**Update (5/30):**	

Owner	• Currently Precise BSI, Ports and IORS BSI servers have been impacted. • Precise does write errors to the event viewer, which is being monitored by check_mk **Actions Taken:** • Upgraded agent to 64 bit. • Removed log monitoring from these servers so the agent would be responsive again. • Updated the eif file for PC-BSI02J so that IORS reports errors to the dashboard **Next Steps:** • Change the way the ISEApps rotate logs so that the most recent log keeps the same name. • Release delivered. Issues were found so a new version is needed • Test scenario in PAT	response to a problem.
Dev		
Application		
Check_mk		
Priority	RTP delays have been seen after the open. Most common on Partition 3. **Update (6/3):** • Dev believes the delay is caused by the RealTimeIndexer Plugin. • Slowness when transferring Surv data needs to be resolved before addressing the RTP slowness **Actions Taken:** • Additional Perf counters have been added • Installed SP1 and enabled auto-tuning on Surv and PIM hosts • STM for partition 3 was moved to a different server. Haven't seen gaps since. • Changed transfer for P51. Improved time from 45 mins – 11 mins • Rebalanced all streamer instances • Change Surv transfer jobs **Next Steps:** • New storage for Surv files • Enable Binary encoding for the PIMs • KG/Min to provide a more resilient script for ISEE data	MOPS does not have access to data in the FE's until RTP catches up. ISEE data is also impacted.
Medium		
Owner		
ASG / Dev		
Application		
RTP		
Priority	We have seen gaps at the open for OQTR instance 51p multiple times over the past few weeks. Other instances have also seen gaps, but not as frequently. **Update (5/14):** • NOPS does not see any issues • Gaps are continually seen and are now affecting both OQTR and MDS LVC. • Possibly due to garbage collection on servers. Other options being explored. • A rebalance of products may not help • Gaps reported by members. Needs escalation **Actions Taken:** • Systems updated 1 adapter setting on pc-qtrp51. • Additional counters have been setup on the server to monitor the performance of the application and the network adapter • Verify adapter settings on other servers • Increased NtvIocpNumQueuedDgrams from 18000 to 24000 • Network changes applied on w/e of 5/17. **Next Steps:** • A code fix will be designed in the future. SIRs 262636, 268344	Gaps are recovered. Could delay trade data sent to OPRA.
Medium		
Owner		
Dev / AK		
Application		
OQTR		
Priority	On 2/18 there were memory issues with pc-amq01a, causing queues to build up in the application. The server was rebooted intraday in order to resolve the issue. **Update (5/30):** • Errors still seen in the morning (3 – 4 am) • Workaround is in place if the memory issues are seen **Actions Taken:**	Could impact complex instrument creation. Workaround is in place.
Medium		
Owner		
Linux / NOPS		

Application	• Updated the firmware of the hba • Checks and monitoring added to alert if issue occurs • Linux support and Network Engineering have resolved port issues • New ActiveMQ cluster built in DR without using qdisk. ISEApps have been configured too **Next Steps:** • Testing in DR.	
ActiveMQ		

Test Environment Status

DR

Status: Environment rebuild underway; ActiveMQ testing; OQTR
Current Core Version: 9.0.050
ISEApps Status:
Environment Issues:
Comments:

OAT

Status:
Current Core Version: 9.0.070
ISEApps Status: Config Client Testing
Environment Issues:
Comments:

MAT

Status: Go to .101
Current Core Version: MT2 – 9.0.100
ISEApps Status: IORS (9.0) using MT2 environment
Environment Issues: Issues yesterday afternoon?

Status: Being upgraded?
Current Core Version: MT1 – 9.0?
ISEApps Status:
Environment Issues:

BAT

Status: BAT1	**Status:** BAT3 (automation)
Current Core Version: 9.0.101	**Current Core Version:** 9.0.200
ISEApps Status:	**ISEApps Status:**
Environment Issues:	**Environment Issues:**
Comments:	**Comments:**

Status: BAT2
Current Core Version: 9.0.200 (unofficial)
ISEApps Status:
Environment Issues:
Comments:

PAT

Status:	MDD test with pre-open/open feeds
Current Core Version:	9.0.070
ISEApps Status:	IORS testing
Environment Issues:	
Comments:	

All dates are of implementation unless otherwise noted
**Only notable changes are listed

June 2014 Notable Work

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
2 Solactive Live	3	4	5 RDS event for 4:15 products	6	7 Test with SIAC	8
9	10 Add 66 ISE products	11	12 Add 36 ISE products	13 Core 9.0.070 – pc-me01a OQTR v8.1.0.4 – 1 instance LBM Config change PD-MD01 module	14 EMC work (rescheduled)	15
16 OQTR v8.1.0.4 – across the board Core 9.0.070 – pc-me01b	17 Core 9.0.070 – all Matchers	18	19	20 Expiration Combo price protection launch	21 UC4 migration Migrate IC-SUR01D to new cluster	22

23 Core 9.0.070 – all servers	24	25	26 IORS Incr 1 rollout (1 BSI) Add 197 Gemini products	27	28	29
30 IORS Incr 1 rollout (1 server)	July 1st New Liquidity Indicators Launch	July 2nd IORS Incr 1 rollout (all)	July 3rd	July 4th ISE Closed	July 5th	July 6th