

Hyperion Focus 2015

Things you need to know about EPM 11.1.2.4

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Accelatis



Agenda

1. Accelatis Background
2. The 11.1.2.4 Buzz
3. Goals
4. Where we are
5. What's next

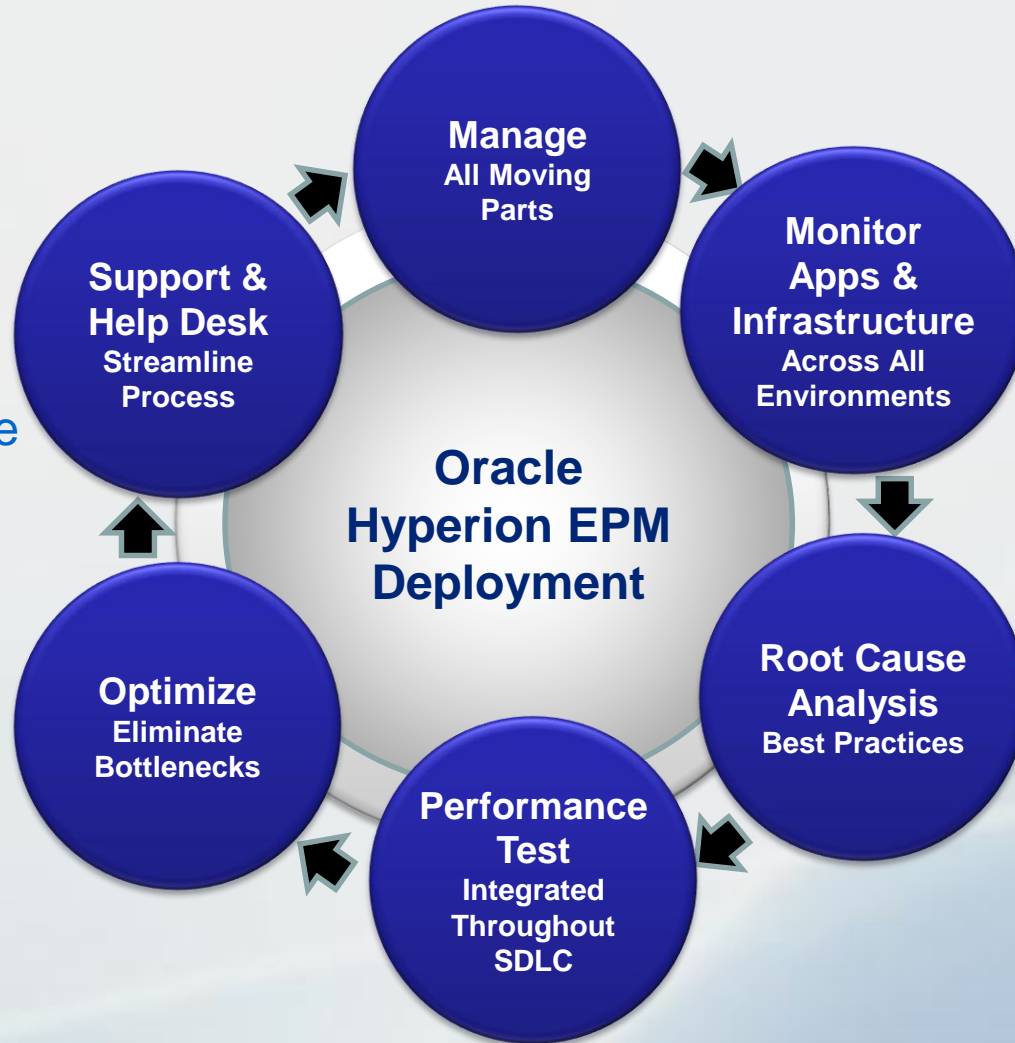


A Comprehensive Approach to EPM System Management

Empower
Business Users & I.T.

Broad Approach
to Application Performance
Management

Deep Look
Into the underlying
systems



Only 20% of
the
Overall
Solution



On your marks.....





11.1.2.4 Hits OTN First

- New Version of EPM Released with no documentation
- First set of EPM installations Accelatis built on Windows 2012/SQL 2012
- EPM Linux build reported in community
- Changes in product immediately noticed
- Preliminary Testing Done for application builds on HFM, Essbase and Planning



Accelatis 11.1.2.4 Testing

- Images built using VMWare
- Windows Server 2008 R2 used to facilitate cross version testing
- Oracle Database 11g R2 as RDBMS
- Cross version tests completed on same sets of VMWare for consistency in tests
 - One set of tests might show numbers inconsistent with different banks of tests, but are controlled when comparisons are made



Approach

- Set up servers
- Design tests and metrics
- Execute tests
- Analyze results



Goal

- Gain Familiarity with the new version
- Benchmark New Version and compare with previous 11.1.2.3
- Report on findings to help EPM community make more informed choices on direction and preparation
- Present a few key things that we found during the process



Thing 1

What happened to my HFM processes???





Thing 1

- HFM now has new names for the processes that run
 - XfmDataSource.exe
 - HFM Java Process to manage XfmDS
 - Dynamic based on the instance
 - e.g. - HyS9FinancialManagementJavaServer_epmsystem1
- Will impact existing monitoring tools
- Obvious effect on any existing scripts that take action on HFM Processes



Thing 1

- Depreciated Processes Include:
 - CASSecurity.exe
 - HsxServer.exe
 - HsvDataSource.exe
 - HFMService.exe
 - DMEListener.exe



Thing 2

Essbase scripts need to be modified if created from earlier versions!!





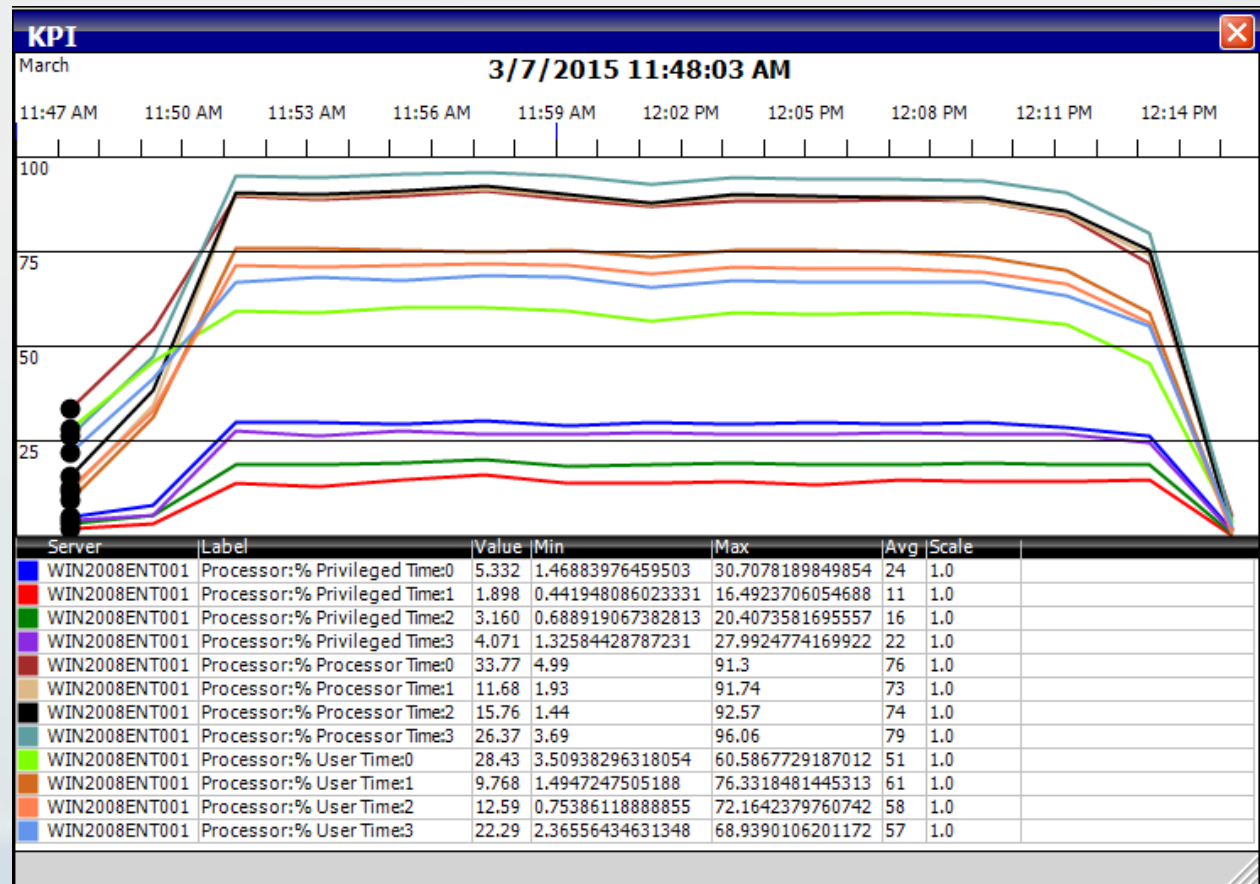
Thing 2

- Scripts were run to compare 11.1.2.3 to 11.1.2.4 in our labs
- Results showed that Essbase 11.1.2.3 outperformed 11.1.2.4 by more than 50% using the same 11.1.2.3 scripts



Thing 2

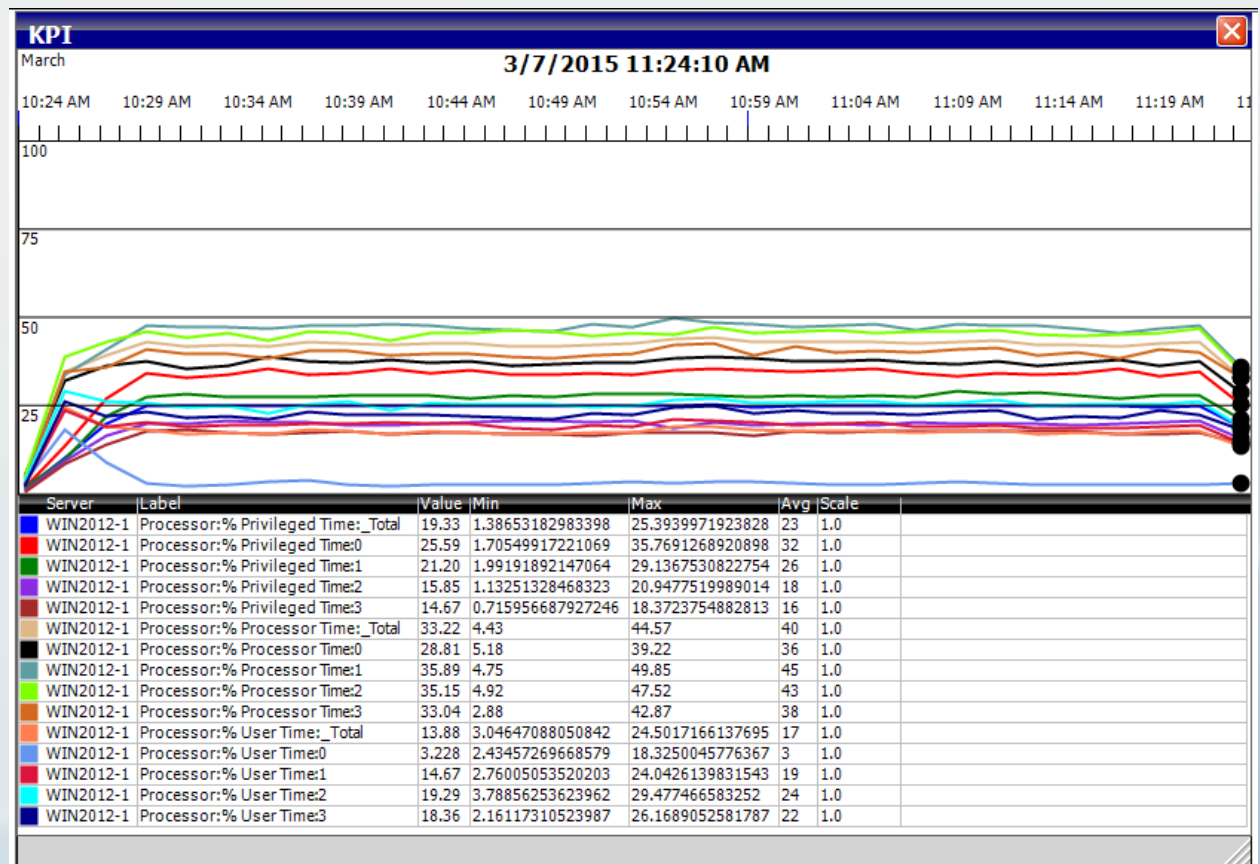
- 11.1.2.3 Chart





Thing 2

- 11.1.2.4 Chart





Thing 2

- 11.1.2.3 will utilize all 4 processors while the same script run in 11.1.2.4 only took advantage of 2
- Essbase has explicit commands for parallel operations:
 - WORKERTHREADS
 - CALCPARALLEL
 - FIXPARALLEL



Thing 3

HFM now uses ODL
and there is no more
HFMErrLog viewer..





Thing 3

- New in 11.1.2.4, HFM now utilizes ODL
- There is no more HsvEventLog.log
- Each application now has it's own log
 - ..Oracle\Middleware\user_projects\epmsystem1\diagnostics\logs\hfm\xfm.odl.<app>-1.Log
- The UI System messages is where you will now go to see information that might be in the HFM logs



Thing 3

- New in 11.1.2.4, HFM now utilizes ODL
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Thing 3

Messages

Actions View

Type	System Message Summary	Date - Time	Server	Application
1	SYSINFO: Application=QTEST; NumUsers=1; UsedPhysicalMem=15204392960; UsedVirtualMem=3552280576; PID=9932	Mar 8, 2015 5:03:33 PM	Win2012-1	QTEST
2	SYSINFO: Application=QTEST; NumUsers=1; UsedPhysicalMem=15201775616; UsedVirtualMem=3552280576; PID=9932	Mar 8, 2015 4:48:33 PM	Win2012-1	QTEST
3	Consolidation started.</br>Consolidation finished.	Mar 8, 2015 4:48:16 PM	Win2012-1	QTEST
4	QTEST Pager Stats PagedNodes=0 SingleRefNodes=653309 PageOutOps=0 CleanPageOutOps=0 PageInOps=0 PageInThreadOps=(	Mar 8, 2015 4:48:16 PM	Win2012-1	QTEST
5	QTEST Consolidation Finished id:-872250564;ACTUAL;2014;.AMR_EUR;Feb-Mar; Consolidation type:ALL	Mar 8, 2015 4:48:16 PM	Win2012-1	QTEST
6	QTEST Pager Stats PagedNodes=0 SingleRefNodes=653309 PageOutOps=0 CleanPageOutOps=0 PageInOps=0 PageInThreadOps=(	Mar 8, 2015 4:47:39 PM	Win2012-1	QTEST
7	QTEST ChartLogic Finished id:-872250564;ACTUAL;2014;.AMR_EUR;Feb-Mar; Consolidation type:ALL	Mar 8, 2015 4:47:39 PM	Win2012-1	QTEST
8	QTEST Pager Stats PagedNodes=0 SingleRefNodes=653309 PageOutOps=0 CleanPageOutOps=0 PageInOps=0 PageInThreadOps=(	Mar 8, 2015 4:45:48 PM	Win2012-1	QTEST
9	QTEST Consolidation Started id:-872250564;ACTUAL;2014;.AMR_EUR;Feb-Mar; Consolidation type:ALL	Mar 8, 2015 4:45:48 PM	Win2012-1	QTEST
10	SYSINFO: Application=QTEST; NumUsers=1; UsedPhysicalMem=15166619648; UsedVirtualMem=3525214208; PID=9932	Mar 8, 2015 3:36:08 PM	Win2012-1	QTEST
11	Consolidation started.</br>Consolidation finished.	Mar 8, 2015 3:34:28 PM	Win2012-1	QTEST
12	QTEST Pager Stats PagedNodes=0 SingleRefNodes=653309 PageOutOps=0 CleanPageOutOps=0 PageInOps=0 PageInThreadOps=(	Mar 8, 2015 3:34:28 PM	Win2012-1	QTEST
13	QTEST Consolidation Finished id:-1590587779;ACTUAL;2014;.AMR_EUR;Apr-Apr; Consolidation type:ALL	Mar 8, 2015 3:34:28 PM	Win2012-1	QTEST
14	QTEST Pager Stats PagedNodes=0 SingleRefNodes=653132 PageOutOps=0 CleanPageOutOps=0 PageInOps=0 PageInThreadOps=(	Mar 8, 2015 3:32:18 PM	Win2012-1	QTEST
15	QTEST ChartLogic Finished id:-1590587779;ACTUAL;2014;.AMR_EUR;Apr-Apr; Consolidation type:ALL	Mar 8, 2015 3:32:17 PM	Win2012-1	QTEST
16	QTEST Pager Stats PagedNodes=0 SingleRefNodes=652856 PageOutOps=0 CleanPageOutOps=0 PageInOps=0 PageInThreadOps=(	Mar 8, 2015 3:28:31 PM	Win2012-1	QTEST
17	QTEST Consolidation Started id:-1590587779;ACTUAL;2014;.AMR_EUR;Apr-Apr; Consolidation type:ALL	Mar 8, 2015 3:28:31 PM	Win2012-1	QTEST

Filters

Application: QTEST

Server: All

Date Range: Include All Range Custom

Hours: -44 -12 -24

Type: All

11.1.2.4 UI Log View



Thing 3

Oracle > Middleware > user_projects > epmsystem1 > diagnostics > logs > hfm

Name	Date modified	Type	Size
oracle-epm-fm-bi-publisher	2/2/2015 1:27 PM	Text Document	0 KB
oracle-epm-fm-hsx-registry	3/8/2015 12:06 PM	Text Document	496 KB
oracle-epm-fm-hsx-registry-1	2/3/2015 6:28 AM	Text Document	972 KB
oracle-epm-fm-hsx-server	3/8/2015 10:18 AM	Text Document	109 KB
oracle-epm-fm-lcm-client	2/2/2015 1:27 PM	Text Document	0 KB
SharedServices_Security	2/2/2015 1:27 PM	Text Document	0 KB
xfm.odl.COMMA-1	2/3/2015 7:04 AM	Text Document	876 KB
xfm.odl.QTEST-1	3/8/2015 2:03 PM	Text Document	51 KB
xfm.odl.SIMPLE-1	2/3/2015 6:54 AM	Text Document	81 KB

Local Disk (C:) > Oracle > Middleware > user_projects > domains > EPMSysSystem > servers > HFMWeb0

Name	Date modified	Type	Size
diagnostic_images	2/2/2015 1:27 PM	File folder	
hfm	2/2/2015 1:28 PM	File folder	
jmsServers	2/2/2015 1:28 PM	File folder	
metrics	3/8/2015 2:18 PM	File folder	
access	2/3/2015 7:43 AM	Text Document	174 KB
access.log00001	2/2/2015 4:06 PM	LOG00001 File	71 KB
access.log00002	2/2/2015 6:42 PM	LOG00002 File	64 KB
access.log00003	2/3/2015 6:00 AM	LOG00003 File	95 KB
datasource	3/8/2015 12:06 PM	Text Document	13 KB
datasource.log00001	2/2/2015 4:06 PM	LOG00001 File	7 KB
datasource.log00002	2/2/2015 6:53 PM	LOG00002 File	3 KB
datasource.log00003	2/3/2015 6:30 AM	LOG00003 File	43 KB
FMADFWEB-Versions.csv	3/8/2015 10:20 AM	CSV File	81 KB
Framework	2/2/2015 1:28 PM	Text Document	0 KB
HFMWeb0	3/8/2015 10:18 AM	Text Document	92 KB
HFMWeb0.log00001	2/2/2015 2:46 PM	LOG00001 File	88 KB
HFMWeb0.log00002	2/2/2015 4:06 PM	LOG00002 File	91 KB
HFMWeb0.log00003	2/2/2015 6:41 PM	LOG00003 File	89 KB
HFMWeb0.log00004	2/3/2015 5:59 AM	LOG00004 File	95 KB
HFMWeb0.log00005	2/3/2015 9:23 AM	LOG00005 File	89 KB
HFMWeb0.log00006	2/3/2015 10:22 AM	LOG00006 File	91 KB
HFMWeb0-diagnostic	3/8/2015 2:08 PM	Text Document	132 KB
listener	3/8/2015 10:21 AM	Text Document	100 KB
oracle-adf	3/8/2015 2:09 PM	Text Document	10 KB
oracle-jrf	2/2/2015 1:28 PM	Text Document	0 KB
oracle-owsm	2/2/2015 1:28 PM	Text Document	0 KB
registry	3/8/2015 12:05 PM	Text Document	5 KB
SharedServices_SecurityClient	3/8/2015 1:44 PM	Text Document	17 KB

11.1.2.4 HFM Directory Logs



Thing 3

```

xfm.odl.QTEST-1 - Notepad
File Edit Format View Help
[2015-03-08T12:07:07.882142-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: XFMDataSource.cpp] [Line: 462] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.392937-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 442] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.412063-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 486] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.534076-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CXfmDSSQL.cpp] [Line: 395] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1] [r
Feb 10 2012 19:39:15
Copyright (c) Microsoft Corporation
Enterprise Evaluation Edition (64-bit) on Windows NT 6.2 <X64> (Build 9200: ) (Hypervisor)
. Multi-server is ON]]
[2015-03-08T12:07:08.561095-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 494] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.568920-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSystemInfo.cpp] [Line: 1012] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.608101-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSystemInfo.cpp] [Line: 4182] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.654119-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 516] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.654119-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSystemInfo.cpp] [Line: 5943] [userId: ] [appName: QTEST] [pid: 9932] [tid: 13340] [host: Win2012-1]
[2015-03-08T12:07:08.661928-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSecurity.cpp] [Line: 2002] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:08.666928-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 533] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
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[2015-03-08T12:07:08.976106-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 553] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:09.056027-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 563] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:09.139143-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 570] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:09.142160-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 577] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:09.181041-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataCubesInitialization2.cpp] [Line: 522] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.531586-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: Pager.cpp] [Line: 187] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1] [nwdac
[2015-03-08T12:07:20.830665-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSData2.cpp] [Line: 708] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
umEAThreads = 8; NumConsolidationThreads = 8; NumVBScriptEngines = 32; MaxNumConcurrentConsolidations = 8; EnableRulesCaching = 1; UseRecursiveUnlock = 1; UseServerSideCursorForAuditExtract=1; MaxCubeUpdateThre
[2015-03-08T12:07:20.832606-07:00] [XFM] [TRACE:1] [EPMHFM-05695] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSData2.cpp] [Line: 715] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.877606-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSData2.cpp] [Line: 6314] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.879113-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSData2.cpp] [Line: 6375] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.880718-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSData2.cpp] [Line: 6018] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.881804-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSData2.cpp] [Line: 6051] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.884629-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 592] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:20.899616-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSMemberLists.cpp] [Line: 1749] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:21.317133-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 602] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:21.340736-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDSSCalculate.cpp] [Line: 12869] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:21.739135-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 611] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:21.741664-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: XDS.0000.0000.0000.0001] [File: CHsvDataSourceImpl.cpp] [Line: 621] [userId: ] [appName: QTEST] [pid: 9932] [tid: 12504] [host: Win2012-1]
[2015-03-08T12:07:25.323147-07:00] [XFM] [WARNING:1] [EPMHFM-07080] [XFM] [ecid: 00iRq7X_2uRFw0zYnS09Jz2szkE1j_Iws0000f80000C4] [File: c:\stm10371_build_view\hfm\source\xfm\datasourceroot\handlers\metadata\Metada
[2015-03-08T12:08:17.933916-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: 00iRq7gIo9Lfw0zYnS09Jz2szkE1j_Iws0000f80000H6] [File: CXfmMetadata.cpp] [Line: 6077] [userId: ] [appName: QTEST] [pid: 9932] [tid: 1]
[2015-03-08T12:08:22.585210-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: 00iRq7gIo9Lfw0zYnS09Jz2szkE1j_Iws0000f80000H6] [File: CXfmMetadata.cpp] [Line: 6249] [userId: ] [appName: QTEST] [pid: 9932] [tid: 1]
[2015-03-08T12:08:43.886955-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: 00iRq7gIo9Lfw0zYnS09Jz2szkE1j_Iws0000f80000H6] [File: CXfmMetadata.cpp] [Line: 6355] [userId: ] [appName: QTEST] [pid: 9932] [tid: 1]
[2015-03-08T12:08:45.943491-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: 00iRq7gIo9Lfw0zYnS09Jz2szkE1j_Iws0000f80000H6] [File: CXfmMetadata.cpp] [Line: 6374] [userId: ] [appName: QTEST] [pid: 9932] [tid: 1]
[2015-03-08T12:08:46.040580-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: 00iRq7gIo9Lfw0zYnS09Jz2szkE1j_Iws0000f80000H6] [File: CXfmMetadata.cpp] [Line: 6545] [userId: ] [appName: QTEST] [pid: 9932] [tid: 1]
[2015-03-08T12:08:46.312782-07:00] [XFM] [TRACE:1] [EPMHFM-00000] [XFM] [ecid: 00iRq7gIo9Lfw0zYnS09Jz2szkE1j_Iws0000f80000H6] [File: CXfmSystemInfo.cpp] [Line: 8096] [userId: ] [appName: QTEST] [pid: 9932] [tid:

```

11.1.2.4 HFM Application Log



Thing 4

11.1.2.4 seems to
serve up user content
faster....



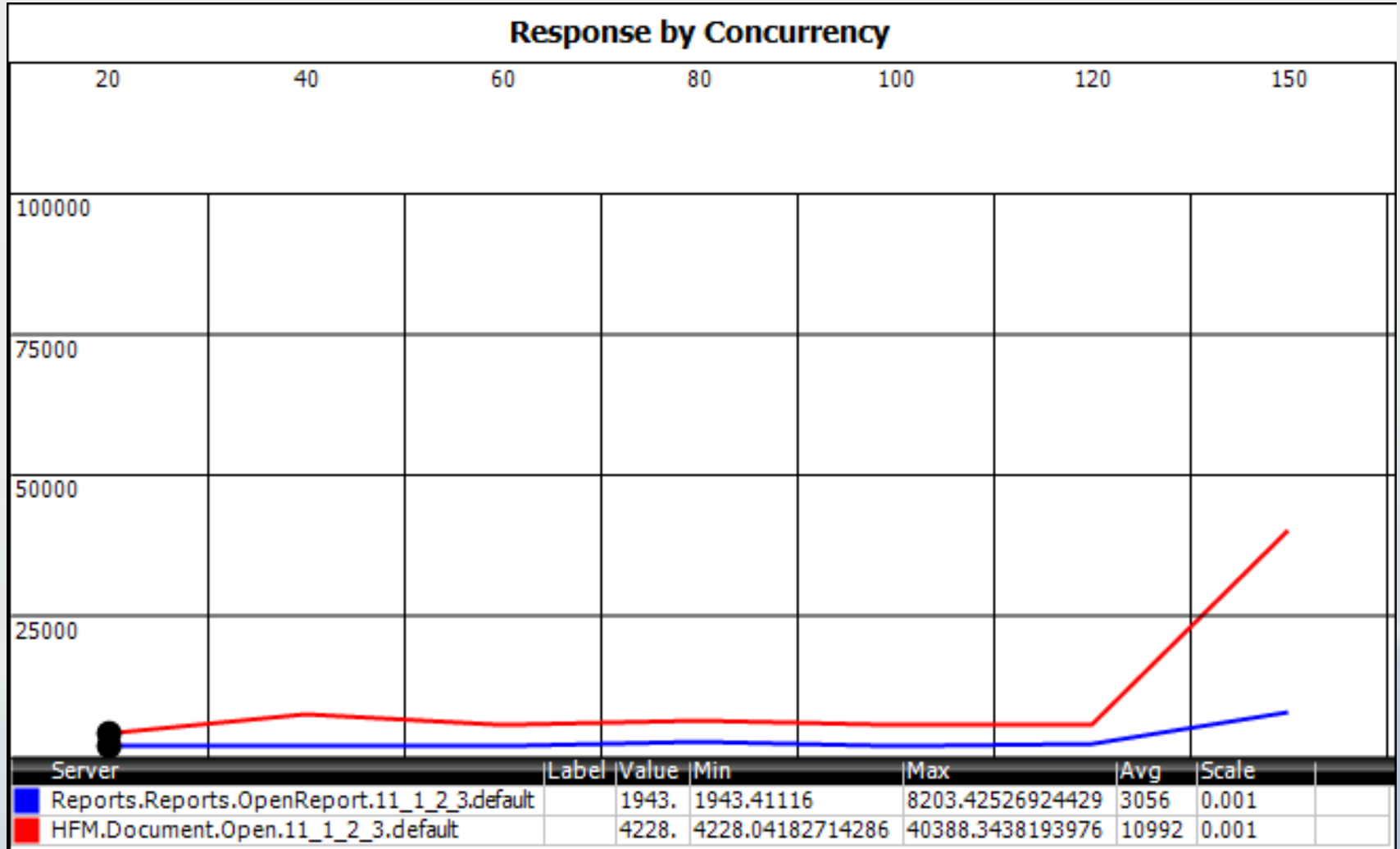


Thing 4

- Simulation testing on 11.1.2.3
- Execution time depends less on the load
- Average execution time was more regular while the concurrency goes up
- When reaching the breaking point, a restart of everything was needed to perform another test

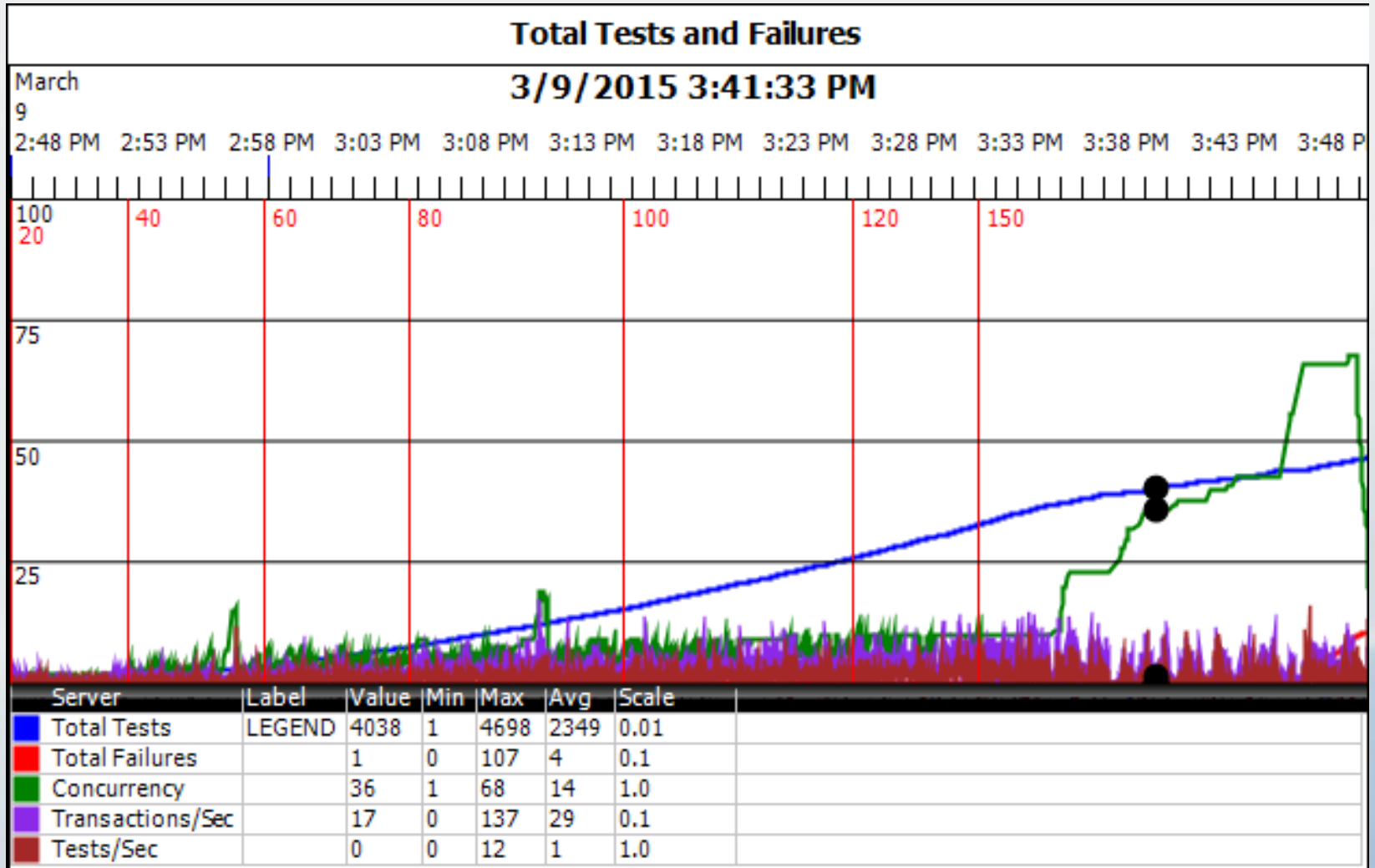


Thing 4





Thing 4



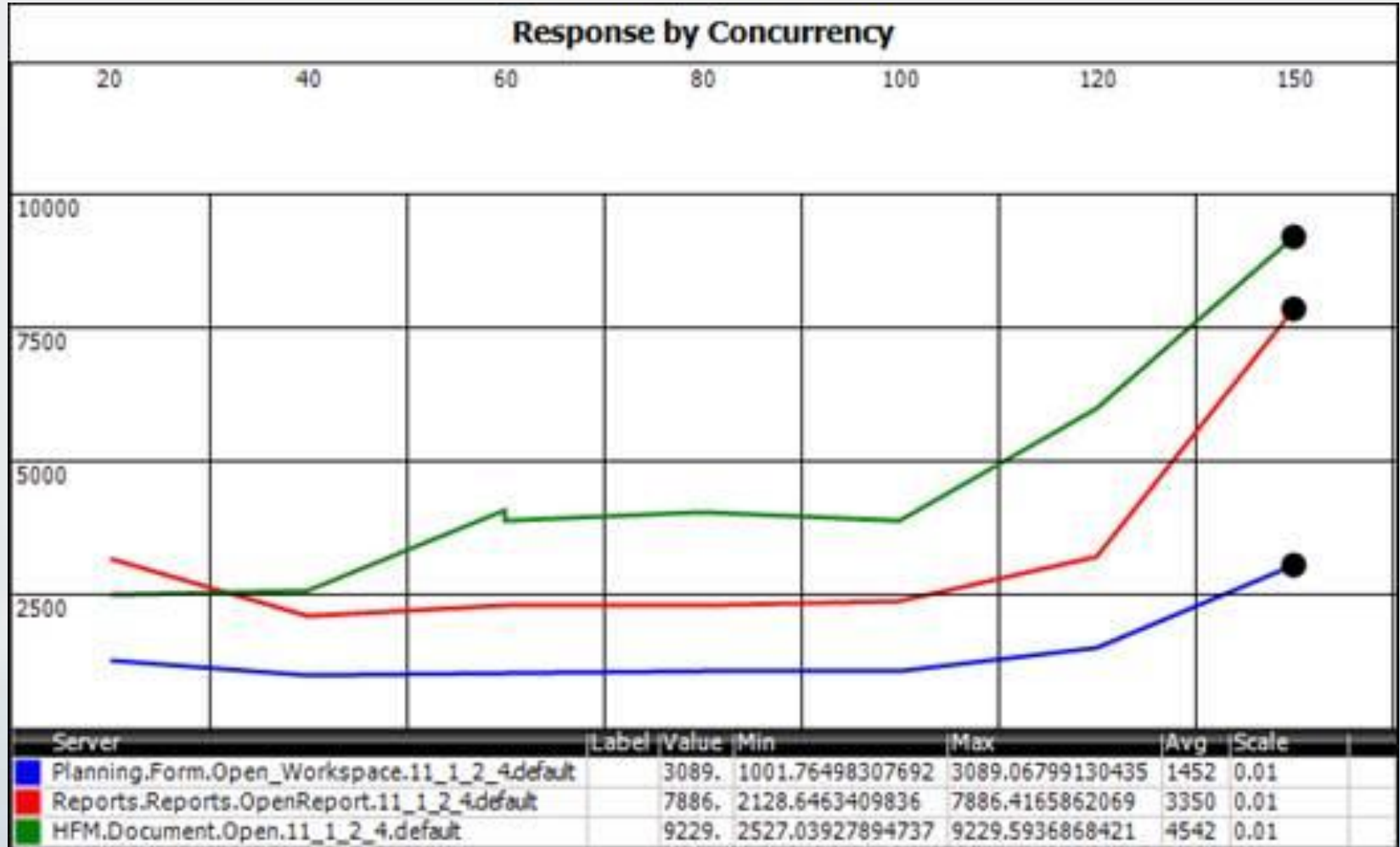


Thing 4

- Simulation testing on 11.1.2.4
- Break point was around 150 user activities per minute
- After breaking the system (where the process time takes longer than the server can produce the results) the recovery for 11.1.2.4 was simply to stop the test (no restart needed)

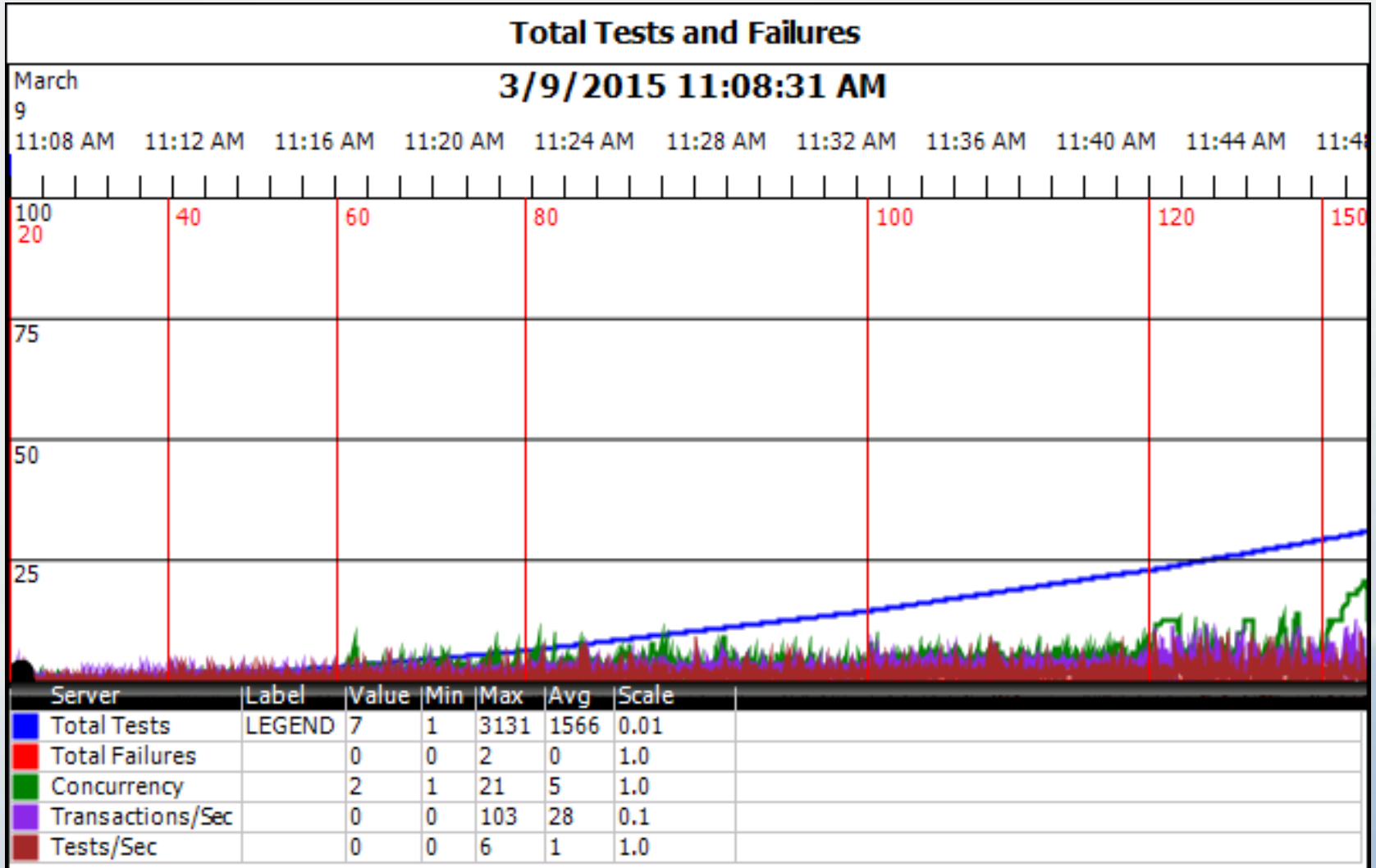


Thing 4





Thing 4





Thing 5

HFM Consolidation
Performance is not
just hype – 11.1.2.4
outperforms 11.1.2.3
by a lot





Thing 5

- Head to head consolidation was extremely different
 - 3 Test Consolidations
 - 57% Faster on Consol #1
 - 43% Faster on Consol #2
 - 41% Faster on Consol #3



Thing 5

- Only Difference In the Last Consol was the number of CPUs:
- 8 CPUs –
 - 11.1.2.3 Consol: 404 seconds
 - 11.1.2.4 Consol: 230 seconds
- 2 CPUs –
 - 11.1.2.3 Consol: 424 seconds
 - 11.1.2.4 Consol: 250 seconds



Thing 5

- Interesting note –
 - Decreasing the number of CPUs from 8 to 2 in our lab increased both consolidations by the same value
- On that same note –
 - All-in-one sandbox for testing may have contributed to lack of multi-core differences, but head to head showed clear performance winner



Additional Info

- Performance White Paper will be published once benchmark testing is complete and the information can be compiled into a user-digestible format
- Accelatis modules for 11.1.2.4 will be available in the next GA release



EPM 11.1.2.4 – New Features

- Key New Features touching on
 - Architecture
 - Platform Support
 - Logging
 - Granular Product Commands
 - Performance
- Documentation located here:
 - 11.1.2.4: http://docs.oracle.com/cd/E57185_01/index.htm
 - ALL EPM: <https://docs.oracle.com/en/applications/?tab=8>



EPM 11.1.2.4 – Doc Website

The screenshot shows the Oracle Help Center interface. At the top, there is a navigation bar with the Oracle logo, 'Help Center', and a search bar. Below the navigation bar is a sidebar with a list of categories: Home, Cloud, Applications (highlighted), Middleware, Database, Big Data, Enterprise Manager, Engineered Systems, Java, Hardware, Virtualization, Storage, Operating Systems, and Browse All Products. The main content area is titled 'Applications Documentation' and includes a sub-header 'Applications Documentation' with a blue circular icon containing a document and a grid. Below this is a navigation bar with tabs for Cloud, Fusion Apps, E-Business, JD Edwards, PeopleSoft, Siebel, and EPM & BI (selected). Under the 'EPM & BI' tab, there is a section 'Apps A-Z' and a list of documentation releases. The list is organized into sections: Enterprise Performance Management, Essbase, Smart View for Office, and Related Products. Each item in the list includes the product name, version, and a link icon.

ORACLE Help Center Applications Search products Sign In

Applications Documentation

Start here to learn about Oracle's broad selection of application solutions.

Cloud Fusion Apps E-Business JD Edwards PeopleSoft Siebel **EPM & BI**

Apps A-Z

Oracle Enterprise Performance Management is a suite of performance management applications, a suite of business intelligence (BI) applications, a common foundation of BI tools and services, and a variety of data sources. All these solutions are integrated using Oracle Fusion Middleware. Easy to use, easy to manage, and with low deployment costs, it's the most comprehensive and flexible enterprise performance management system in the marketplace.

Enterprise Performance Management

- Oracle Enterprise Performance Management System Documentation Release 11.1.2.4
- Oracle Enterprise Performance Management System Documentation Release 11.1.2.3 [↗](#)
- Oracle Enterprise Performance Management System Documentation Release 11.1.2.2 [↗](#)
- Oracle Enterprise Performance Management System Documentation Release 11.1.2.1 [↗](#)
(Available for download only)
- Oracle Enterprise Performance Management System Documentation Release 11.1.1.4 [↗](#)
- Oracle Enterprise Performance Management System Documentation Release 9.2.1 [↗](#)
- Oracle Enterprise Performance Management System Documentation Release 9.3.x [↗](#)

Essbase

- Oracle Essbase for BI - Oracle Essbase Release 11.1.2.2.000 PS
- Oracle Essbase for BI Oracle Essbase Release 11.1.2.2.000 PS [↗](#)
- Oracle Essbase for EPM - Oracle Essbase Release 11.1.2.3 [↗](#)
- Oracle Essbase for EPM - Oracle Essbase Release 11.1.2.2.100 [↗](#)

Smart View for Office

- Oracle Smart View for Office Documentation Release 11.1.2.5.400
- Oracle Smart View for Office Documentation Release 11.1.2.5.200
- Oracle Hyperion Smart View for Office Documentation Release 11.1.2.5 [↗](#)
- Oracle Hyperion Smart View for Office Documentation Release 11.1.2.3 [↗](#)
- Oracle Hyperion Smart View for Office Documentation Release 11.1.2.2.310 PS [↗](#)

Related Products

- Oracle Fusion Enterprise Release 6.5.1.1 [↗](#)



EPM 11.1.2.4 – New Features

- Products without a “New Features” guide
 - Foundation / Shared Services
 - Oracle Hyperion Business Rules
 - Oracle Hyperion Data Integration Management
 - Oracle Hyperion Disclosure Management
 - Oracle Enterprise Management Architect
 - Oracle Essbase Administration Services
 - Oracle Performance Scorecard
 - Oracle Reporting and Analysis
 - Oracle Strategic Finance
- Does not mean there are new features, but it does mean that the new features did NOT warrant it's own announcement doc



EPM 11.1.2.4 – New Features

- Calc Manager New Features
 - Support for Parallel Processing in Member Range Components
 - Running Essbase Calculation Scripts with Runtime Prompts in Essbase
 - Importing Essbase Calculation Scripts
 - New Design-Time Prompt Functions for Templates
 - New Custom Defined Functions
 - Finding and Replacing Text in the Variable Designer
 - Aggregation System Template Enhancements
 - Script Editor Enhancements
 - Filtering Objects in the System View
 - Analyzing Scripts
 - New Cell Text Range Component and Data Range Component Changes for Financial Management Applications



EPM 11.1.2.4 – New Features

- Calc Manager New Features (cont.)
 - Customizing Views
 - Comparing the Scripts of a Saved Rule to a Changed Rule
 - Creating and Working with Location Aliases
 - Tracking Queries
 - Compacting a Database Outline
 - Merging Incremental Data
 - Aggregating System Generated Views
 - Selecting a Compression Dimension
 - Displaying Level Information
 - Managing Sessions



EPM 11.1.2.4 – New Features

- Crystal Ball
 - Localization in Additional Languages
 - Multithreaded Processing for Extreme Speed
 - OptQuest Optimization Enhancements
 - Damped Trend Exponential Smoothing Techniques for Forecasting
 - Crystal Ball EPM Integration with Strategic Finance
 - Crystal Ball Decision Optimizer Integration with Strategic Finance
 - Sorting Objects for Selection



EPM 11.1.2.4 – New Features

- Data Relationship Management
 - Data Relationship Governance Enhancements
 - Oracle Planning and Budgeting Application Template
 - Import Enhancements
 - Export Enhancements
 - Improved Architecture
 - Web Client Accessibility
 - Performing Key Tasks On The Go With Oracle EPM Mobile



EPM 11.1.2.4 – Mobile Features

- **Managing Governance Requests w/ Data Relationship Governance**
 - Filter worklists to find your requests
 - View request details
 - Contact participants associated with requests by email
 - Approve, escalate, reject, or push back on requests
 - View invalid requests
- **Performing Period-End Activities in Close Manager (Financial Close Management Module)**
 - Closing ledgers and sub ledgers
 - Loading and mapping data
 - Performing financial consolidation and account reconciliation
 - View, approve, and reject tasks
 - Respond to notification alerts such as investigating and resolving task errors or delays
 - Automatically manage and track the status of tasks
- **Searching for Financial Management Entities**
 - To quickly find entities in your application, perform a search using full or partial entity names. Using the current filter, Oracle EPM Mobile returns entities with names containing any of text that you specify.
- **Configuring the Session Timeout**
 - Tap the navigation springboard and then Settings to specify how long Oracle EPM Mobile can remain idle before you are prompted to sign in.





EPM 11.1.2.4 – New Features

- Financial Quality Data Management EE
 - Target Application Enhancements
 - Target Load Options
 - Data Synchronization
 - Write-Back
 - POV Locking
 - Import Format Builder
 - Concatenating Source Dimensions for ERP Segments
 - New Fix Mapping Feature
 - Report Translation
 - Financial Close Management Integration with FDMEE



EPM 11.1.2.4 – New Features

- Essbase
 - Thread Pool for Parallel Operations
 - XML Outline Editing
 - Enhancements to Hybrid Aggregation
 - Optimizations for Oracle Exalytics In-Memory machine
 - Supporting POV and Pivot Enhancements for Smart View 11.1.2.5.400
 - Calculation Enhancements
 - Configuration Setting (essbase.cfg) Changes
 - MaxL Grammar Changes
 - Essbase API Changes



EPM 11.1.2.4 – New Features

- Essbase Studio
 - Clearing Deployment History from Essbase Studio Console
 - Clearing Deployment History for all Cubes and all Models in the Catalog
 - Connecting to Alternate Data Sources for Drill-through Reports
 - Requiring a User Name and Password to Perform Drill-through



EPM 11.1.2.4 – New Features

- Financial Close Management
 - New Module – Supplemental Data Manager
 - User Interface Changes
 - Regionalization Enhancements
 - Report Writer
 - Reviewer / Approver Level Settings
 - Email Notifications
 - Close Manager EPM Mobile support
 - View, submit, approve and reject tasks
 - Respond to notification alerts
 - Automatically manage and track task status
 - Data Relationship Governance
 - Filter Worklists
 - Email request participants
 - Approve, escalate, reject and push back on requests
 - View invalid requests



EPM 11.1.2.4 – New Features

- Oracle Financial Management Analytics
 - 11.1.2.4 and OBIEE 11.1.1.7.x plus latest patch
 - Improvements for Configuration



EPM 11.1.2.4 – New Features

- Planning
 - New Academy resources for learning and efficiency
 - Enhanced Performance in Simple Forms
 - UI Look and Feel Control
 - Application Management from the Console
 - Schedule Recurring Jobs
 - Manage Dimensions
 - Easy Import and Export
 - Enhanced Planning Capabilities
 - Create Reports for Sharing Data
 - Instant Save / Automatic Save
 - Support for Dynamic Dimension Members
 -and more



EPM 11.1.2.4 – New Features

- Smart View
 - Enhanced Submit Data Functionality
 - POV and Pivot Enhancements
 - Improved Extension Update and Distribution
 - New Diagnostics Tools
 - New Member Selection Dialog Box for Business Rules
 - User Name and Password Support for Drill-Through Reports
 - Oracle BI EE Filter Enhancement
 - Oracle BI EE Prompt Enhancement
 - Measure Label Flexibility in Oracle BI EE View Designer
 - Sheet Information Improvements



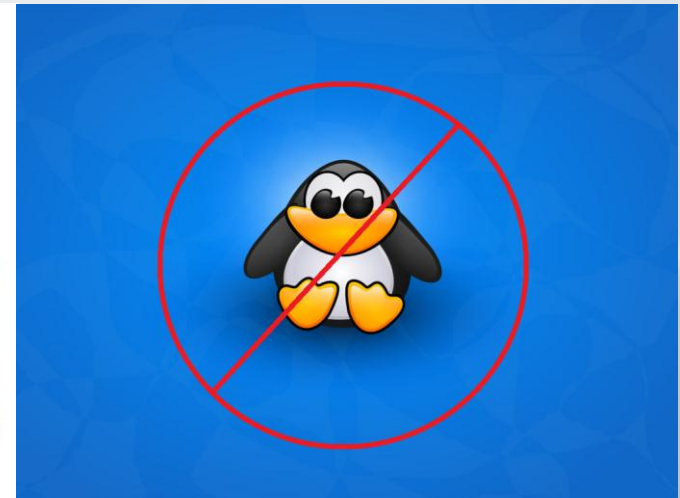
HFM 11.1.2.4 – New Features

- Of the EPM Suite, HFM by far has the largest changes in the new version:
 - New Processes
 - New Architecture
 - New Platform Support
 - New API Set
 - New Logging



HFM 11.1.2.4 – New Features

- Platform Independent
 - Windows and Exalytics (X and T) Support
 - Exalytics X = Linux Based X3-4 and X4-4
 - Exalytics T = Solaris Based T5-8
 - No Commodity Linux support!





HFM 11.1.2.4 – New Features

- Simplicity
 - Deployment Architecture
 - Fully Compliant with ODL
 - Streamlined Product Integrations
 - Well Published Java API
 - LCM support for Data & Metadata



HFM 11.1.2.4 – New Features

- Features and Functionality
 - Supplemental Data Manager Integration
 - Metadata integration
 - Data posting from SDM
 - Drill back from HFM grids / forms to SDM
 - Additional HFM Utilities *
 - Excel Based Journals Workbench *
 - Embedding OFMA Analytics in HFM
 - Improved Calc Manager Parity with VBScript (Cell Text Range, Data Range)
 - Web Based Member List Editor *
 - Web Based Application Configuration Wizard *

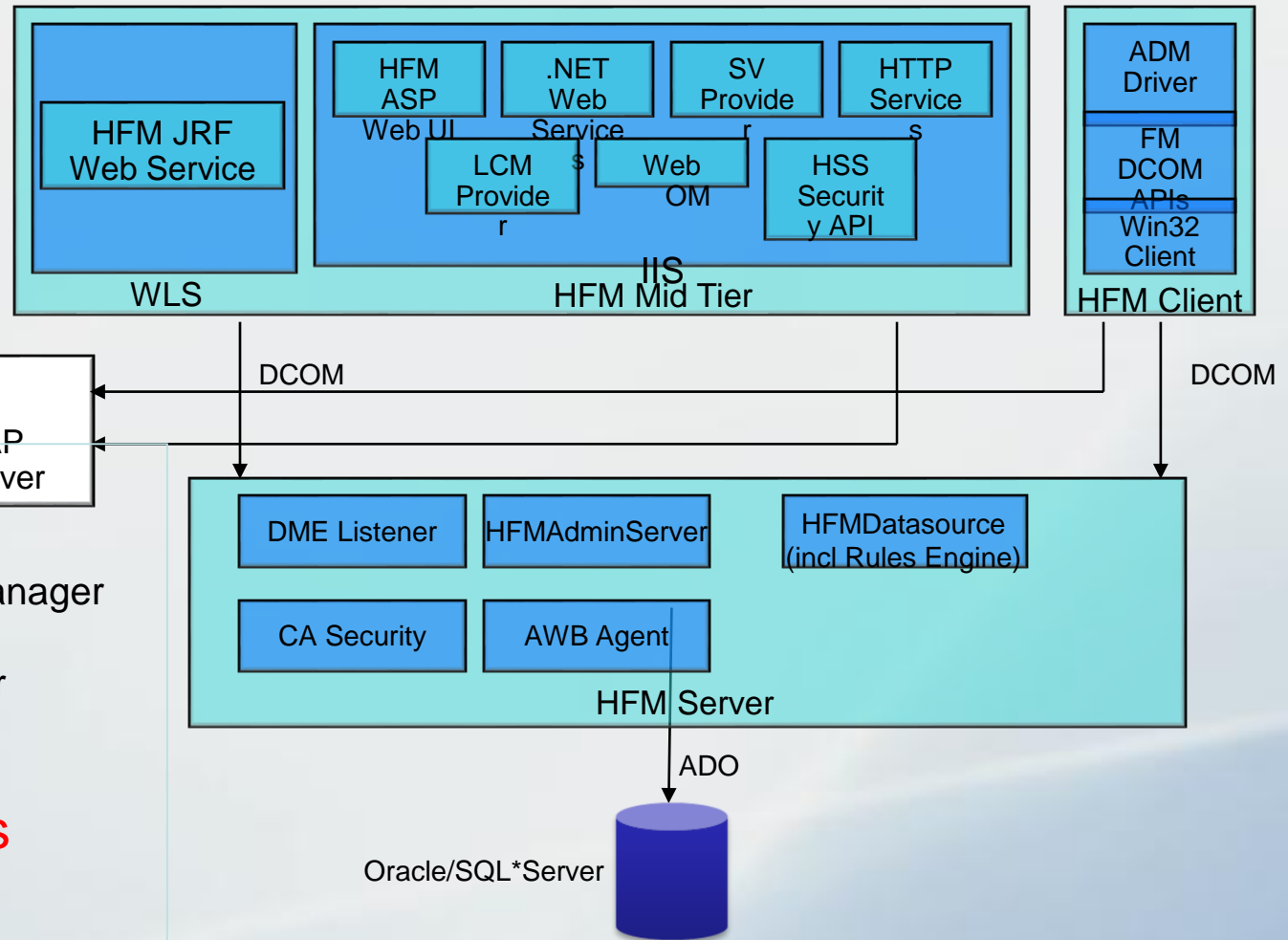


HFM 11.1.2.4 – Performance

- Multi-core scaling for Consolidation
 - During consolidation while traversing through entity hierarchy continue taking advantage of all hardware cores available.
- Centralized Data Retrieval
 - Optimized central data query engine used for FR, SmartView, & Web
- CalcStatus redesign
 - Store only used currency, reducing unnecessary storage of numbers and improving metadata/data loads
- Increased User Interface Interactions and Responsiveness
 - Replaced Webservices with Thrift optimizing the transfer of objects between C++ server and Java based web tier.
- Use SmartHeap
 - Improved memory allocation and reduce thrashing of heap
- Replaced ADO with ODBC driver
 - Better performance with Oracle RDBMS



Old HFM 11.1.2 Architecture



Executables

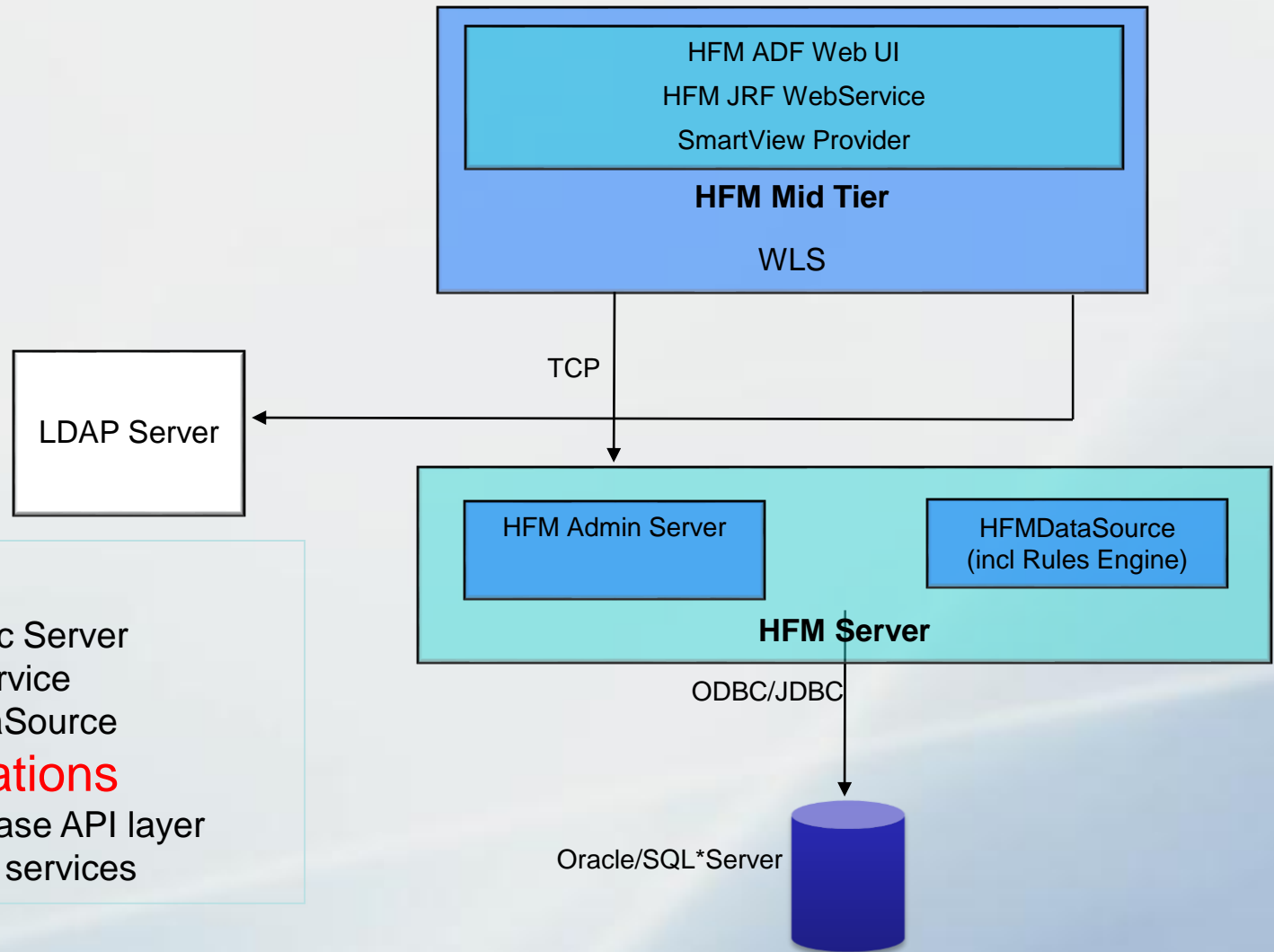
- HFM Service
- HFM Web Service Manager
- HFM DME Listener
- HFM Weblogic Server
- HFM HSxServer
- HFM HSvDataSource

Product Integrations

- Multiple technologies
- Multiple entry points



HFM 11.1.2.4 Architecture



Executables

- HFM Weblogic Server
- HFM JHSxService
- HFM HsvDataSource

Product Integrations

- Single Java base API layer
- Includes Web services



HFM 11.1.2.4 Timeline

HFM 11.1.2.4	HFM 11.1.2.4.100 04-2015	HFM 11.1.2.4 PSU ???
Removal of Windows Dependency	Exalytics Support - Solaris (T5-8) - Insights - Rules Profiling	Web Based Member List Editor
Multi-core Scaling	Journals Workbench	Auto Archive of Data Audit
Exalytics Support – Linux (X3-4, X4-4)	UI Enhancements	Mobile Friendly Interface
Metadata Merge utility	Application Creation Wizard	
Web Based Profile Editor	Web Based Utilities	
Embedded OFMA in HFM		



Conclusion

- If HFM Performance is at all important, you need to get EPM 11.1.2.4 up in your test environment
- API sets have changed dramatically & custom code/scripts you need to ensure you've reviewed these changes and tested
- Improved control over system can really help tune the environment to your own needs

Thank you!

