Mind-Alliance Performance Test Report

Date: June 8, 2012

SVN Revision: 4112

Hardware and Software details:

Environment	Parameter	Value
Channels	Hardware	Processor: Intel C2D@2.66Ghz Memory: 8194MiB Motherboard: DG31G Hard Disk: 250 GB
	Software	OS – Ubuntu Server 10.10
Load Machine Details	Hardware	Processor: Intel Core i3 CPU@3.02Ghz Memory: 4096 MB RAM Motherboard: INSPIRON N5110 Hard Disk: 500 GB
	Software	OS – Windows 7 Professional

Test Overview:

Test was conducted using JMeter for following scenarios with load details.

Sr. No	Scenario	Load (Thread)
1	Add Questionnaire: Planner logged in to the channels, adds questionnaire, activates questionnaire and logged out from the channels.	20
2	Add Questions: - Planner logged in to the channels, adds questionnaire, add question to the questionnaire, activate question and questionnaire and logged out from the channels.	20
3	Add Survey To The Plan: - Planner logged in to the channels, adds questionnaire to the plan, Click on survey of about plan, launch the survey and logged out from the channels.	20
4	Create Survey From Task: - Planner logged in to the channels, add new task, click on create new survey link, click on check box of user and click on update or request participation button and logged out from the channels.	20

5	Submit Task Survey Details:- Planner logged in to the channels, add new task, click on create new survey link, click on check box of user and click on update or request participation button go to home page, clicks on planning survey link, click on ToDo tab and enter details of survey and submit form and logged out from the channels.	20
6	Forward Survey:- Planner logged in to the channels, add new task, click on create new survey link, click on check box of user and click on update or request participation button go to home page, clicks on planning survey link, click on ToDo tab, click on forward button and logged out from the channels.	20

Note: As all the scenarios are running simultaneously hence whenever lock is release from the channels other user can perform its task.

E.g.:
Suppose all 9 scenarios are executing using 10 threads (users) per scenario.
Hence if Planner A of scenario 1 is updating the details of the plan then all other planners which are logged in to the channels will not access the plan till Planner A completes its task. It may happened that Planner A of scenario 1 release the lock when Planner 5 of scenario 2 is start executing, so it will add events for Planner 5 but for Planner 1,2,3 and 4 it will not add the events because of lock. So it is depending upon the Planner when it releases the lock and which one grabs it based on requests.

Similarly sometimes Scenario 3 grabs the lock and so on…

Load Details:
Total No of Threads (Users): 390

JVM size (Heap):

Parameter	Ubuntu server	Load machine (Increased for JMeter)
Min	4096m	4096m
Max	4096m	4096m

Summary:
Refer attached files with this report for summary of tests conducted.

Observation:
- During test CPU utilization was between 93.1%.
- Observed that few components of data collections were not created.
- Observed stack trace for some requests.

- Observed error like resource not found for some requests.
- Observed that for some requests Std. deviation was above 2 sec (Refer SummaryReportFor390Threads.ods file)

Test area	Actual Result	Expected Result	Comments
Add Questionnaire	5	20	Created 5 new Questionnaire
Add questions to questionnaire	5	20	Added 5 new questions
Add Survey To The Plan	5	20	Added 5 survey to the plan
Create Survey From Task	10	20	Created 10 survey from task
Submit Task Survey Details	1	20	1 survey details were submitted
Forward Survey	1	20	1 survey forwarded

Please refer following files for more statistics.

Sr. No.	File Name	Comments
1	SummaryReportFor120Threads.ods	Contains information about response time, stddev and throughput etc.
2	ResultStatusFor120Threads.ods	Status of each request with respect to thread (user).
3	Channels.log	Channels log
3	PerformanceCounterReportFor120Threads.ods	CPU, Memory and IO etc. performance counter.

It is observed that with increase in threads no. (User load) operations (request) were not completed