Mind-Alliance Channels Performance Test Report

Date: September 16, 2011

Hardware and Software details:

Environment	Parameter	Value
Channels	Hardware	Processor: Intel C2D@2.66Ghz Memory: DDR2- 4Gb Motherboard: DG31G Hard Disk: 250 Gb
	Software	OS – Ubuntu Server 10.10
Load Machine Details	Hardware	Processor: Intel Core i3 CPU@3.07Ghz Memory: DDR3- 4Gb Motherboard: DH55TC Hard Disk: 8GB Gb
	Software	OS – Windows Server 2008 R2 Enterprise x64

Test Overview:

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

Sr. No	Scenario	Load (Thread)
1	Planner A: - Planner logged in to the channels, adds the segments to the plan, adds the organization to the plan, assigns task to the member, logged out from the channels.	20
2	Planner B: - Planner logged in to the channels, Adds the segments to the plan, adds the goals to the segments, and adds the task, remove segment from the plan, logged out from the channels.	20
3	Planner C: - Planner logged in to channels, addsthe organization, removes the organization, addsthe events to the plan, logged out from thechannels.	20

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

E.g.:
Suppose all 16 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): 60

JVM size (Heap):

Parameter	**Ubuntu server**	**Loadmachine (Increased for Jmeter)**
Min	3072m	3072m
Max	3072m	3072m

Result and Analysis:

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

Observation:

- During test CPU utilization was between 50-60%.
- Observed that for some requests Std. deviation was above 2 sec (Refer Test01_SummaryReportfor20Threads.ods file)

Test area	**Actual Result**	**Expected Result**	**Comments**
New Segment	60	60	Created 60 new segments
New Organization	40	40	Created 40 new org
New Task	60	60	Created60 new task
New Goals	40	40	Created 40 new goals
New Events	40	40	Created 40 new events

Please refer following files for more statistics.

Sr. No.	**File Name**	**Comments**
1	SummaryReport20Threads.ods	Contains information about response time, stddev and throughput etc.
2	ResultStatus20Threads.ods	Status of each request with respect to thread (user).
3	Channels.log	Channels log
4	PerformanceCounter20Threads.ods	CPU, Memory and IO etc. performance counter.