**Mind-Alliance Channels Performance Test Report**

Date: September 16, 2011

**Hardware and Software details:**

| Environment | Parameter | Value |
|---|---|---|
| Channels | Hardware | Processor: Intel C2D@2.66Ghz<br>Memory: DDR2- 4Gb<br>Motherboard: DG31G<br>Hard Disk: 250 Gb |
| | Software | OS – Ubuntu Server 10.10 |
| Load Machine Details | Hardware | Processor: Intel Core i3 CPU@3.07Ghz<br>Memory: DDR3- 4Gb<br>Motherboard: DH55TC<br>Hard Disk: 8GB Gb |
| | Software | OS – Windows Server 3008 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. | 30 |
| 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. | 30 |
| 3 | Planner C: - Planner logged in to channels, adds the organization, removes the organization, adds the events to the plan, logged out from the channels. | 30 |

**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): 90

**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 40-45%.
- Observed that for some requests Std. deviation was above 2 sec (Refer Test01_SummaryReport90Threads.ods file).
- It is observed that during execution Jmeter completed few request and it is waiting for GET request from Channels after some interval we stop execution as threads count is not decrementing (not completed). To verify we login to the Channels but we are unable to login.

Please refer following files for more statistics.

| **Sr. No.** | **File Name** | **Comments** |
|---|---|---|
| 1 | SummaryReport90Threads.ods | Contains information about response time, stddev and throughput etc. |
| 2 | ResultStatus90Threads.ods | Status of each request with respect to thread (user). |
| 3 | Channels.log | Channels log |
| 4 | PerformanceCounter90Threads.ods | CPU, Memory and IO etc. performance counter. |

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