**Software Measurement and Analysis**

**DEFECT ANALYSIS REPORT.**

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| **HISTORY** | | |
| Description | Author | Date: |
| Original | Son | 14th Apr 2012 |

1. **Purpose.**

The report provide information about tracking defect from 5th July 2010 to 19th Aug 2010.

Reader of report is **project management**.

1. **Defect statistics**.

* Total day: **45**.
* Number of defect opened: 100
* Number of defect closed: 70

Rate defect closed/defect opened: **70%**

Average time to detect and fix a defect: **0.65 day** fora defect.

Time need to fix all remain defects: **19,5 days** (more than two weeks).

1. **Defect status.**

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| Data Extraction Cycle: Weekly during System Test or on demand through projects intranet site (last set of data points on graph show week-to-date current counts) |
| Reporting Cycle: Weekly during System Test |
| Availability: Company Confidential – For Internal Use Only |

**Note.** From week 4 to week 6, fixing speed was decreased quickly. The reason will be explained in the following topics.

1. **Defects status by severity**.

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| **Data Extraction Cycle:** Weekly. |
| **Reporting Cycle:** Weekly starting with Integration Test |
| **Availability:** Company Confidential - Internal Use only |

**Note**. From week 5 to week 6, the open critical defects tend to increase, this is serious problem. 15 critical defects and 10 high defect can make project fail if we do not have effective solutions.

**Reason why fix speed was decreased**.In week 1, 2, 3, 4, number of critical defect were detected are less than week 6. In cycle, after detect defects in previous week, testers will fix them in next week. So in week 5 and 6, the number of unfixed critical defect will be increase too much.

**Recommend for problem**: Should prepare the following steps for situation.

1. Review all of project to find the source of problems.
2. Evaluate the influence of found problems.
3. Estimate impact of fixing problems (prepare human resource, time for solution, budget …) (during progress, should not go on to develop project).
4. Solve the problems.
5. Review.
6. **Defect by tester.**

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|  | Defect assigned | Defect fix | Time to fix (day) | Average defect fix in a day | Rate complete | Time to fix all remain defects | Average time to fix a defect |
| Anjuli | 32 | 27 | 37 | 0.7 | 84 | 3.5 | 1.4 |
| Bob | 49 | 42 | 37 | 1.1 | 86 | 7.7 | 0.9 |

**Comment**.

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| Name | Effective | Effort | Note |
| Anjuli | Good | Good |  |
| Bob | Very good | Good |  |