VIKING PROJECT

Measurement Plan

Version 1.0

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
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| 22/5/2012 | 0.1 | Write MP Draft | HIT Team |
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Measurement Plan

# Introduction

## Purpose

In the project, the estimation is very important, it helps the project manager can plan a strategy for all project. To know some estimations and the context of project. The project manager should generate necessary metrics.

To ensure Business Values:

* Cross-sell products and services to utilize reasonable resources of the ABC system, providing maximum profit
* Build an integrated, web enabled issue and action item logging and tracking application for a new ABC Systems customer. This will fill a critical gap in today’s project management tools industry and provide profit for ABC systems
* Build and nurture long-term partnerships with ABC’s customers.
* Be regarded as a premier provider of PMT solutions, develop a high quality architecture, toolkit and components
* Regain the trust of customers after the Matador project, completed Viking project in time and cost with high quality.

And then, they will know when the project need to change or modify. The main purpose of this document is provided goal and sub goal to generate metric.

The project manager will use metrics to estimate and provided some information.

## Scope

[A brief description of the scope of this **Measurement Plan**; what Project(s) it is associated with and anything else that is affected or influenced by this document.]

## Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| Acronyms | Description |
| GQM | Goal Question Metric |
|  |  |

## References

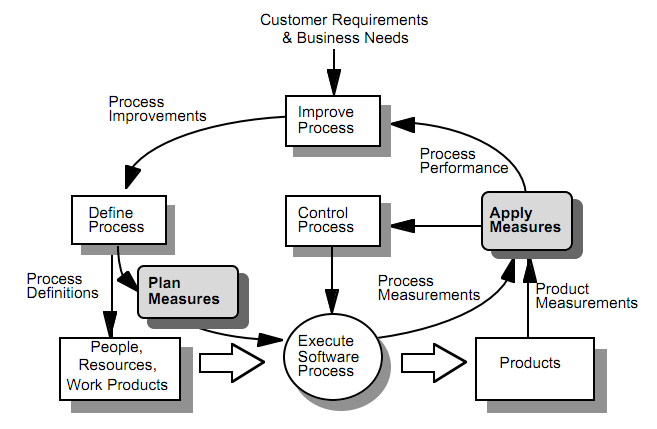
|  |  |
| --- | --- |
| Documents references | Description |
| Viking\_Project\_Charter | Will give the reader an overview of the Viking project. Includes: Project Description, Project Scope, Project stakeholders. |
| Viking\_Project\_Plan\_1.0 | Will give the reader an overview of strategy development and management Viking project. Through it, readers will also see the problem of measurement is an essential component will be implemented during project development. |
| Viking\_URD\_V1.0 | The objective of the document is to capture the understanding of customer requirements for the Viking product. |

## Overview

This software measurement plan contains following information:

* **Measurement Goals:** The goals of measurement program relative to the project in term of achievement, improvement and quality.
* **Metrics:** The metrics that are to be synthesized at regulated intervals on the project to support the goals.
* **Measurement process:** provide step by step to team to act for exactly and easy to implement collect and validate historical data as well as improve the process.
* **Time and Roles:** this table provide role to each team members responsible for the metric to collect weekly, monthly or each release.

# Measurement Process



1. **Define the process.** A process is an organized combination of people materials, energy, equipment, and procedures engaged in producing a specified end result—often a product or service. Prior to selecting and implementing measures, each contributing element of the process must be identified, and a thorough understanding of the process operation and objectives must be attained by those engaged in process management. Data-flow diagrams and control-flow diagrams can be useful tools for documenting and communicating understandable and usable (i.e.,operational) definitions.
2. **Plan the measures.** Measurement planning is based on an understanding of the defined (or implicit) software process. Here the product-, process-, and resource-related issues and attributes are identified; measures of product and process quality are selected and defined; and provisions for collecting and using the measurements to assess and track process performance are integrated into the software process.
3. **Execute the software process.** Processes are executed by the software organization. The product, process, and resource attributes that were identified are measured during and at the completion of each software process.
4. **Apply the measures.** Applying measures puts to use the measurements that are obtained while executing the software process. Data from the software process and from products produced by the process are collected, retained, and analyzed so that they can be used to control and improve the process.
5. **Control the process.** If measurements of product or performance attributes indicate that the process varies in unexpected or unpredictable ways, actions must be taken to remove assignable causes, stabilize the variability, and (if appropriate) return the process to its natural level of performance.
6. **Improve the process.** Once measurements indicate that all variability in a process comes from a constant system of chance causes (i.e., only natural or inherent variation exists), process performance data can be relied on and used to guide actions aimed at changing the level of performance. Improvement actions whose benefits are subsequently validated by measurement can then be used to update and evolve the process definition.

# Time and Roles for collecting data

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Goal | Role – Name | Time |
| 1 | Schedule | Leader – Ha Thanh | Monthly |
| 2 | Productivity | Member – Quang Hiep | Weekly |
| 3 | Team Morale | Member – Hong Phuc | Weekly |
| 4 | Customer Satisfaction | Member – Trong Giang | Release |
| 5 | Defect | Member – Chan Huy, Dung Dat | Weekly |

# Management Goals and Subgoals

[State the goals of the measurement program relative to the project in terms of achievement, improvement, and quality.]

# Metrics

[Enumerate the metrics that are to be synthesized at regular intervals on the project to support the goals.]

## Template for a Metric

|  |  |
| --- | --- |
| Name | [Name of the Metric and any known synonyms.] |
| Definition | [The attributes of the entities that are measured using this Metric, how the Metric is calculated, and from which Primitive Metrics it is calculated.] |
| Goals | [List of goals and questions related to this Metric. Also some explanation as to why the Metric is being collected.] |
| Analysis Procedure | [How the Metric is intended to be used.  Preconditions for the interpretation of the Metric; for example, valid range of other metrics.  Target values or trends.]  Models of analysis techniques and tools to be used.  Implicit assumptions; for example, the environment or models.  Calibration procedures.  Storage.] |
| Responsibilities | [Who will collect and aggregate measurement data, prepare the reports, and analyze the data?] |

# Primitive Metrics

[Enumerate the primitive metrics that are collected, automatically or manually, to compute the metrics.]

## Template for a Primitive Metric

|  |  |
| --- | --- |
| Name | [Name of the Primitive Metric.] |
| Definition | [Unambiguous description of the metric in terms of the project’s environment.] |
| Collection procedure | [Description of the collection procedure.  Data collection tool and form to be used.  Points in the lifecycle when data are collected.  Verification procedure to be used.  Where will the data be stored, format, precision?] |
| Responsibilities | [Who is responsible for collecting and verifying the data?] |

# Annexes

[Computation methods, tables for estimates, detailed procedure as appropriate.]