Decision Analysis and Resolution Evaluation Report

For Red Turf

Version 1.1

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**Revision History**

|  |  |  |  |  |  |
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| Version (x.y) | Date of Revision | Description of Change | Reason for Change | Affected Sections | Approved By |
| 1.1 | 10-29-18 | Baseline Version |  |  | Nagoor Inaganti |
|  |  |  |  |  |  |

**Approval History**

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| Version (x.y) | Prepared By | Reviewed By/Date | Approved By/Date |
| 1.1 | Monalisha Mishra | Nagoor Inaganti  10-29-18 | Nagoor Inaganti  10-29-18 |
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Table of Contents

[1 Introduction………………………………………………….…………………………….…3](#_Toc383780885)

[2 Issues/ Problem Summary for Decision Analysis……..……………………………………..4](#_Toc383780886)

[2.1 Primary stakeholders of decision outcome 4](#_Toc383780887)

[2.2 The main triggers for initiating a formal decision making process 4](#_Toc383780888)

[2.3 Criteria for choosing an alternative and their relative ranks 4](#_Toc383780889)

[2.4 List of alternatives, which were considered while arriving at the decision 4](#_Toc383780890)

[2.5 Details of decision analysis work sheet 5](#_Toc383780891)

[2.6 Details of decisions arrived 5](#_Toc383780892)

# Introduction

The Decision Analysis and Resolution (DAR) process is a formal method of evaluating key program decisions and proposed solutions to program issues. This ensures a controlled decision process, rather than a reactionary decision process, for critical program decisions. The goal of a formal DAR process is to provide the program with carefully analyzed, informed decisions. This document describes the usage of DAR techniques to take a decision in the project, the alternatives identified, the solution agreed upon and its status.

# Issues/ Problem Summary for Decision Analysis

In the Red Turf Project there are issues that are subject to decision analysis. The purpose of Decision Analysis and Resolution (DAR) is to analyze possible decisions using a formal evaluation process that evaluates identified alternatives against established criteria. Typical issues include selection among architectural or design alternatives, use of reusable or commercial off-the-shelf (COTS) components, supplier selection, engineering support environments or associated tools, test environments, delivery alternatives, and logistics and production. These issues are evaluated using a formal evaluation process. A formal evaluation process is a structured approach to evaluating alternative solutions against established criteria to determine a recommended solution to address an issue.

A formal evaluation process involves the following actions:

* Establishing the criteria for evaluating alternatives
* Identifying alternative solutions
* Selecting methods for evaluating alternatives
* Evaluating the alternative solutions using the established criteria and methods
* Selecting recommended solutions from the alternatives based on the evaluation criteria.

## Primary stakeholders of decision outcome

Stakeholders are the people or groups of people who are affected by the development of a project. Stakeholders exit both internally and externally. Stakeholders are in the best position to offer specific input on needs at their level. The primary stakeholders of the decision outcome include Partners, Project Manager, Developers, Company Leadership, Direct Users.

## The main triggers for initiating a formal decision-making process

|  |  |
| --- | --- |
| Sl. No. | Triggers |
| 1 | Engineering Support Environment |
| 2 | Test Environment |
| 3 | External Interface |

## Criteria for choosing an alternative and their relative ranks

|  |  |
| --- | --- |
| Criteria | Rank |
| 1 Cost | 1 |
| 2 Performance | 2 |
| 3 Schedule | 4 |
| 4 Scalability | 3 |

## List of alternatives, which were considered while arriving at the decision

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Alternatives | Chosen/Not chosen | Decision analysis tool/techniques used |
| 1 | AWS | No | Cost/ Benefit Analysis |
| 2 | Azure | Yes | Cost/ Benefit Analysis |
| 3 | Manual Testing | No | Modified Delphi Technique |
| 4 | Automation Testing | Yes | Modified Delphi Technique |

## Details of decision analysis work sheet

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Criteria for Decision Making** | | | |  |
| **Criteria** | Cost | Performance | Scalability | Schedule Slip |  |
| **Importance Rating** | 1.0 | 2.0 | 3.0 | 4.0 | **Total** |
| **AWS** | **2** | **6** | **6** | **12** | **26** |
| **Azure** | **1** | **2** | **3** | **8** | **14** |
| **Google** | **3** | **4** | **9** | **8** | **24** |

## Details of decisions arrived

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Decision | Stakeholder/s | Responsible for Closure | Closure date |
| 1 | Azure cloud was selected as the Engineering Support Environment | Project Manager,  Management,  Developers | Project Manager | 11/05/2019 |