

**Project Status Report**



**Project Name:** Lightweight Mesh Network Nodes

**Department:** Computer Science

**Focus Area:** Wireless Networking

**Product/Process:** Mesh Network Nodes



**Prepared By:**

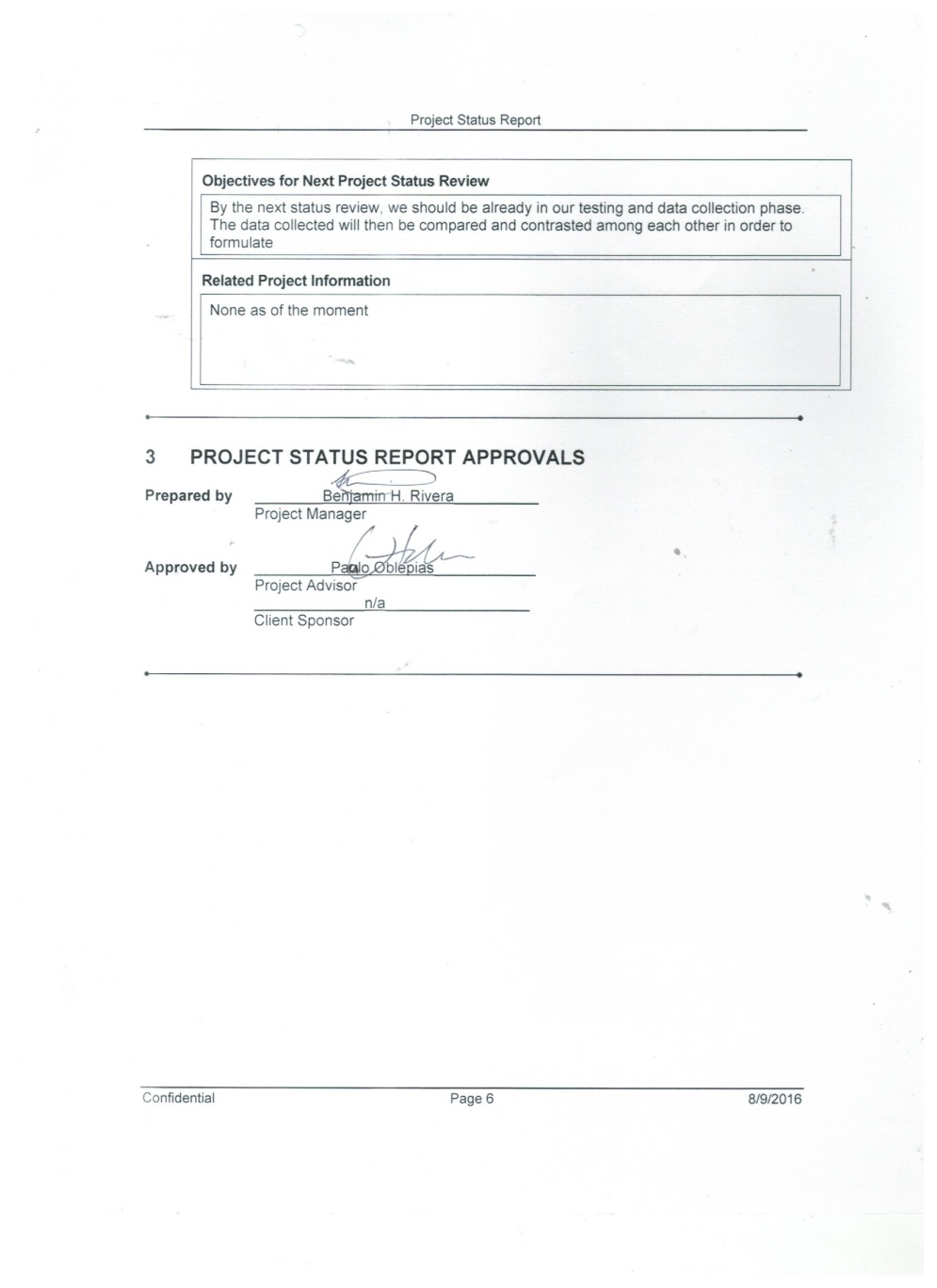
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| --- | --- |
| **Document Owner(s)** | **Project/Organization Role** |
| Benjamin Rivera | Project Manager |
| TomioTonoike | Senior Analyst |
| Allen Ellana | Software Specialist |
| AlfonsinTison | Documentation Head |

## Project Status Report Template

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| Project Name | | |
| Prepared By:  Benjamin Rivera  Alfonsin Tison | Date:  08/09/16 | Reporting Period:  08/02/16to08/09/16 |
| Project Overall Status:  Currently in the testing phase of prototype of the project. Documentation about the prototype | | |
| Project Summary:  We are currently in the process of applying existing libraries and software technologies with their respective networking protocols Raspberry Pi units to create the mesh networks. We will compare and contrast these existing methods to identify and develop the ideal setup for a raspberry pi and smartphone based mesh network. | | |
| **Milestone Deliverables performance reporting over last period**   |  |  |  |  | | --- | --- | --- | --- | | **Milestone Deliverables** | **Due Date** | **% Completed** | **Deliverable Status** | | Raspberry Pi Networking software installation | | | | | * Research HSMM-Pi | 08/04/16 | 100% |  | | * Research Byzantium Pi | 08/05/16 | 80% | [**On Schedule**] | | * Research CommotionD | 08/06/16 | 60% | [**On Schedule**] | | * Research Project Wolverine | 08/07/16 | 50% | [**Behind Schedule**] | | * Research BATMAN-Adv | 08/03/16 | 40% | [**On Schedule**] | | * Research OLSR/OSLRD | 08/03/16 | 40% | [**On Schedule**] | | Connectivity of devices | | | | | * Pi mesh | 08/13/16 | 100% |  | | * Pi as access point | 08/13/16 | 100% |  | |  |  |  |  | | | |
| **Milestone Deliverables scheduled for completion over next period**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Milestone Deliverables** | **Due Date** | **% Completed** | | **Deliverable Status** | | Indentification of Test Cases for networking the Pi | | | | | | * Install HSMM-Pi | 08/15/16 | 0% | | [**On Schedule**] | | * Test Byzantium Pi | 08/14/16 | 0% | | [**On Schedule**] | | * Test CommotionD | 08/14/16 | 0% | | [**On Schedule**] | | * Research on all existing and availablemethods to deploy ad-hoc mesh networks | 08/20/16 | 80% | |  | | * Identify what is applicable to our hardware/software limitations | 08/20/16 | 0% | |  | | * Finalize the metrics for comparing the different network setup. | 08/20/16 | 20% | |  | | Experimentation | | | | | | * Testing of network connectivity | 08/11/16 | | 50% |  | | * Setup network connectivity | 08/14/16 | | 100% |  | | * Gathering data based on finalized metrics | 08/14/16 | | 0% |  | | | |
| **Project impact of milestone success or failure for project remainder**   |  |  | | --- | --- | | We may have to remove the part about using multiple scenarios in deploying the different methods of deployment due to time constraints. | We will focus more on the metrics we will be identifying and compare and contrast the different existing methods by testing in only one or two simulated scenarios | | | |
| **ProjectBudget/Financial Status**   |  |  |  |  | | --- | --- | --- | --- | | **Budget Item** | **Planned Budget** | **Actual Cost** | **Variance/Explanation** | | 2 Units Raspberry Pi | 5000php | $80 | Raspberry Pi 3 are cheaper than their predecessors | | 2 Memory Cards (16GB) / 2 Charger (5W 2.5A) | 2000php | 2000php | No Variance | | 2 Units USB Wi-Fi Dongle | 1600php | 1600php | Used to Connect Node A to Node B for the mesh topology | | | |
| **Project Risk Management Status**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Risk and Description** | **Risk Chance** | **Risk Impact** | **Risk Priority** | **Change from Last Review** | | Our hardware may not be fully compatible with all the methods of deploying mesh networks. | Medium | High | High | Same | | Weather | High | Medium | Low | Same | | | |
|  | | |
| **Project Recommendations**   |  | | --- | | * Locate a suitable location for testing * Find locate more consultants * Research on further applications once the project has finished | | | |
| **Objectives for Next Project Status Review**   |  | | --- | | By the next status review, we should be already in our testing and data collection phase.  The data collected will then be compared and contrasted among each other in order to formulate | | | |
| **Related Project Information**   |  | | --- | | None as of the moment | | | |



# PROJECT STATUS REPORTAPPROVALS

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# APPENDICES

## Document Guidelines

## Project Status Report Sections Omitted

