**Politecnico di Milano**

**Software Engineering 2**

**Integration test plan**

**PowerEnjoy**

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# Introduction

## Revision History

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| --- | --- | --- | --- |
| Version | Date | Author(s) | Description |
| 1.0 | 29-12-2016 | Simone Bruzzechesse,  Luca Franceschetti,  Gian Giacomo Gatti | Document created |
| 1.1 |  | Simone Bruzzechesse,  Luca Franceschetti,  Gian Giacomo Gatti | Document completed |

## Purpose

This document represents the Integration Test Plan Document (ITPD) for Power Enjoy project, which describes the plans for testing the integration of Power Enjoy project’s components. The purpose of this document is to highlight the main aspects regarding the organization of the integration testing activity for all components of our system.

## Scope

The Integration Test Plan Document describes the plan for the integration testing, which takes as input software components (described in DD) that have been unit tested, groups them in larger aggregates, tests their interfaces, and delivers as its output the integrated system ready for system testing.

## Definitions, Acronyms, Abbreviations

* RASD: Requirements Analysis and Specification Document
* DD: Design document
* DBMS: Database Management System
* API: Application Programming Interface
* UI: User interface
* GPS: Global Positioning System
* ETA: Estimated Time of Arrival
* OS: Operating System

## Reference Documents

* Our RASD document
* Our DD document
* Specification Document: Assignments AA 2016-2017.pdf
* Sample integration test plan document

# Integration Strategy

## Entry Criteria

Before the integration test can begin, the RASD document and the DD document must be completed and successfully delivered. Then, all software components must have been unit tested: this is important because in case of failure we know the problem is in the implementation of interfaces and not in how modules have been developed.

## Elements to be integrated

## Integration Testing Strategy

## Sequence of Component/Function Integration

### Software Integration Sequence

### Subsystem Integration Sequence

# Individual Steps and Test Description

# Performance analysis

# Tools and Test Equipment Required

# Required Program Stubs and Drivers

# Appendix

## Used tools

## Effort spent