**Integrated Test Manager**

[**https://sourceforge.net/projects/intmac/**](https://sourceforge.net/projects/intmac/)

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Domain & Project Design Document

Draft V0.1.0

**Document Reference:** 04.03.01

**Document Date:** 19/06/2015

**Revision History**

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| --- | --- | --- |
| Version | Date | Description |
| 0.1.0 | 19/06/2015 | Initial (draft) version. |

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# Introduction

The Detailed Design Document for the domain and project core system for the Integrated Test Manager system, defining how you define and structure projects using forests and trees like the Windows Active Directory System

## Purpose

The purpose of the document is to provide a detailed design of the domain and project system for Integrated Test Manage[1].

## Scope

The scope of this document is to:

* Define the design for how projects can be grouped (domain) and a tree hierarchy structure created.
* Define a project and how it sits within a domain.

This document will define details for both projects and domains, including making design designs. This is an evolving document as features are added, modified or removed and will change.

## References

|  |  |
| --- | --- |
| Reference | Reference Item |
| [1] | Microsoft Technet: Forest: Implementation of All Trees  <https://technet.microsoft.com/en-us/library/cc978004.aspx> |

Table 1: References

## Abbreviations

FQPN Fully Qualified Project Name

TDD Test Driven Development

# Use Stories

## Domain System

US.DomSys.01 - As a user with System Administrator privileges I want to create a project container (domain) so that projects or sub-domains can be created.

US.DomSys.02 - As a user with System Administrator privileges I want to create a top-level project container (domain) so that it acts as the root of the domain tree.

US.DomSys.03 - As a user with System Administrator privileges I want to disallow the top-level project container (domain) from being deleted so that the domain integrity remains as it acts as the root of the domain tree.

US.DomSys.04 - As a user with System Administrator privileges I want to delete a project container (domain) so that the domain and any projects or sub-domains under it are also deleted.

US.DomSys.05 - As a user with Project Manager privileges I want to create a project so that I can create a project within the selected domain context.

US.DomSys.06 - As a user with Project Manager privileges I want to delete a project so that I can remove the project and any data relating to it.

# Design

A domain will structured as a tree, a project can sit anywhere within it. The project with the full dotted domain name (e.g. toplevel.subdomain\project) is called the fully qualified project name (FQPN).

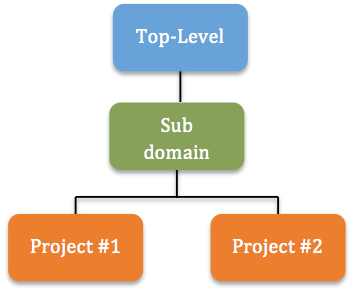


Figure 1: Forest & Tree Structure

## Top-Level Object

All instances of Integrated Test Manager require a top-level level object to be created when the instance is installed. The purpose for the top-level object is root of the domain tree; also user permissions defaults are ready from it if no permissions are assigned further up the domain tree or for a specific project. [US.DomSys.02]

Projects (e.g. Project #1) or sub domain can be created under the top-level object. Once created, it cannot be deleted, although it can be modified. [US.DomSys.03]

As the top-level is a domain object, the rules are the same as a domain (see below).

## Domains

A domain is a container that can holder either projects or domains. A newly created domain cannot have a project as its parent. [US.DomSys.01]

The following rules apply for the name of a domain:

* The name has to be a minimum of 1 character and a maximum of 100.
* Name can consist of:
  + Alphabetical characters (A-Z)
  + Numeric characters (0-9)
  + Minus sign (-)
  + Period (.) - as long it’s not the first character
* The name is case insensitive
* Has to be unique within the FPQN, for example you can’t have 2 domains called ‘test1’ contained within toplevel.subdomain.

The following characters are not permitted in the domain name:

|  |  |  |
| --- | --- | --- |
| Ampersand (&) | Apostrophe (') | Asterisk (\*) |
| At sign (@) | Backslash (\) | Braces ({}) |
| Caret (^) | Colon (:) | Comma (,) |
| Dollar ($) | Exclamation (!) | Forward Slash (/) |
| Greater than sign (>) | Hash (#) | Less than sign (<) |
| Parentheses (()) | Per cent (%) | Period (.) |
| Question mark (?) | Quotation mark (") | Tilde (~) |
| Underscore (\_) | Whitespace (blank) |  |