



REQUIREMENT SPECIFICATION

Project Code:	DMS-01
Project Name:	Directory Monitoring System
Account:	
Vertical:	
Location:	Bangalore Development Center
Customer Name:	ABC Ltd
Technical Manager/ Email ID:	
Project Manager / Email ID:	
Quality Co-ordinator / Email ID:	
Customer Contact Information:	

27-Apr-2011

Prepared by/Date

Reviewed by/Date

Approved by/Date

Revision History

Version (x.yy)	Date of Revision	Description of Change	Reason for Change	Affected Sections	Approved By
1.00	27-Apr-2011	Initial Draft			

Affected Groups

Development Engineering
Quality Assurance
ABC Ltd

List of Reference Documents

Name	Version No.
1. Request For Proposal	1.2
2.	
3.	
4.	

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1 Introduction

ABC Ltd is a company which runs its application software on Unix systems. The Directory Monitoring System (DMS) keeps track of changes made to files and directories on the Unix System, on request from the user.

Scope and Overview:

The scope of the Directory Monitoring System will be to provide the functionality as described in Functional Requirements below. The system will be developed on a Linux box using C language and would provide a console-based user-interface.

2 Functional Requirements

The users of the application are:

1. User1 - Requests for a specific file/directory to be monitored
2. User2 - Requests to view the status of the files/directories being monitored

Below are the requirements specific to the types of users:

2.1 User1 and User2

Requirement ID	Description	Priority
US-001	The user must be able to request for a file/directory to be monitored	P1
US-002	The user should be able to view status of the files/directories being monitored	P1
US-003	The user must be able to place multiple requests from the same client on different files/directories	P1

2.2 Log files

Requirement ID	Description	Priority
LG-001	DMS should log all changes to the files/directories being monitored in separate log file per client	P1
LG-002	The maximum number of log files should be as specified in configuration file	P2
LG-003	The maximum size of each log file should be as specified in configuration file	P2

2.3 Signal Handling

Requirement ID	Description	Priority
SG-001	DMS should handle ctrl-C signal for clean exit, and before exiting it should display summary of files/directories monitored.	P1

2.4 Build & Install

Requirement ID	Description	Priority
BI-001	The build of the application should be possible using a makefile	P1
BI-002	There should be an install script to start the application (server)	P2

2.5 Exit handlers

Requirement ID	Description	Priority
EX-001	The application should handle clean exits (close all open files, descriptors, etc) by using exit handlers	P1

3 Interface Requirements

The Directory Monitoring System should be developed as a console-based application

4 Non functional Requirements

- The application should be able to handle simultaneous requests from multiple clients

Target Environment:

- Intel hardware machine (PC P4-2.26 GHz, 512 MB RAM, 40 GB HDD)
- Linux 2.6 or higher
- Compilers – gcc or g++

5 Assumptions/Dependencies/Limitations

- Only console-based client interface (front-end) will be supported. (Web-based / GUI interface development is out of scope for the current release)

6 Acceptance Criteria

The acceptance criteria will be defined in Acceptance Test Plan.

List of expected deliverables:

- Release note
- Use Cases document
- Design Document
- Installation guide
- User manual
- Test Plan document
- Test Cases document (with test results)
- Tested source code

7 Requirements Priority Table

Abbreviation	Remark
P1	First Priority (Priorities have been specified along with the requirements)
P2	Second Priority (Priorities have been specified along with the requirements)

8 Acronyms and Glossary

Abbreviation	Remark
DMS	Directory Monitoring System