

Contents

| | |
|--|----------|
| 1. Introduction..... | 3 |
| 1.1. Document conventions..... | 3 |
| 1.2. Purpose..... | 3 |
| 2. Overall Description..... | 3 |
| 2.1. Product features..... | 3 |
| 2.2. Operating environment | 3 |
| 2.2.1. Operation System..... | 3 |
| 2.2.2. Application launch environment | 3 |
| 2.2.3. Database management system | 4 |
| 2.3. Design and implementation constraints..... | 4 |
| 2.4. User documentation | 4 |
| 3. System features..... | 4 |
| 3.1. System feature <Task agent>..... | 4 |
| 3.1.1. Description and priority | 4 |
| 3.2. System feature <Task> | 4 |
| 3.2.1. Description and priority | 4 |
| 3.3. System feature <History>..... | 4 |
| 3.3.1. Description and priority | 4 |
| 3.4. System feature <Plugins>..... | 4 |
| 3.4.1. Description and priority | 4 |

1. Introduction

1.1. Document conventions

TASS- Task-Agents Scheduler System

TCP/IP - The Internet protocol suite, which consist from Transmission Control Protocol (TCP) and the Internet Protocol (IP)

1.2. Purpose

Task-Agents Scheduler System(TASS) it is a client-server application. TASS can execute .jar, .exe and other files or scripts ones load from different sources. Tasks perform with according to user parameters and the specified schedule of executing.

For the full-fledged functioning of the product, the software is developed taking into account the possibility of processing a large number of tasks, as well as its reliability, openness for further improvements, security and a properly developed mode of its further maintenance.

References

2. Overall Description

2.1. Product features

N/A

2.2. Operating environment

2.2.1. Operation System

The server can be running on equipment with the installed operating system of the GNU / Linux family, Windows, macOS(planned).

The client can be running on equipment with the installed operating system of the GNU / Linux family, Windows, macOS(planned), Android, OSX(planned).

2.2.2. Application launch environment

N/A

2.2.3. Database management system

MySQL is used as a database management system.

2.3. Design and implementation constraints

Programming language: C/C++

Application framework: Qt

Data transfer model: TCP/IP

2.4. User documentation

N/A

3. System features

3.1. System feature <Task agent>

ID: TASS_AGENT

3.1.1. Description and priority

Priority: high

Task agent it's the manager that controls group of tasks performs with according to user parameters and the specified schedule of executing.

3.2. System feature <Task>

ID: TASS_TASK

3.2.1. Description and priority

Priority: high

Task it's sequence of the some actions that execution on the server.

3.3. System feature <History>

3.3.1. Description and priority

Priority: normal

History - the saved results of the task agent performance session.

3.4. System feature <Plugins>

ID: TASS_PLUGINS

3.4.1. Description and priority

Under plugins, it is worthwhile to understand dynamic libraries (.so / .dll) in which there are classes of implementation of interfaces and a small set of functions for accessing objects of these implementation classes. Using plugin system in TASS makes the system more flexible and gives opportunity to extend it with additional functionality.