Project Proposal – Cash Recycler simulator

1. Introduction

- Loomis Value Solutions focuses in Cash Recycling business. Cash Recyclers are devices where retailers are able get cash and to store cash. We have been doing business mainly in Finland but now we are going also to other countries.
- The devices are modified occasionally, and new devices comes every now and then. Now it is very time consuming to implement new features for the software which is used for operating these devices.
- Our main objective is to improve the process and to speed up testing and to speed up bringing new devices to our product catalog. For all this we need a simulator for these devices which would simulate the actual device in software development process.

2. Project goals

- The main goal is to test and implement a simulator for one of the cash recycler devices
- To be able to design and implement the simulator for the cash recycler device the project team shall have some C and Windows DLL driver experience

3. Technologies

- The device drivers are usually Windows DLL drivers and at least some part of that is often written using C language
- The simulator itself can be written using any coding language and some of the latest coding languages is preferred

4. Requirements for the students

- Some knowledge on Windows DLL drivers and C language is expected.
- The team will be able to use our test lab for testing and demo purpose
- Our opinion is that this is moderate if the team has some previous experience on Windows DLL or C language.

5. Legal Issues

Intellectual Property Rights (IPR):

- The client gets all IPRs to the results.
Non-disclosure agreement (NDA):

- Signing the NDA included in the Aalto's contract template is required.

Are there any other legal issues?

- No

6. Client

- Loomis Value Solutions is a part of Loomis group
- Loomis Value Solutions provides cash management systems and software solutions
- The representatives are
  - Juha Helttunen (Software Development Manager) with 20 years of software development experience.
- Juha Helttunen can join the project demo and planning meetings. He is also willing to help all upcoming issues and provide help or arrange help from someone else.
- Loomis Value Solutions will provide a real cash recycler device for the team to use for testing and demo situations at Loomis Value Solutions premises.

Client representative(s)

- Product Owner / Technical specialist
- Juha Helttunen
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Preselected Student Team Members

- None

7. Additional information

The documentation shall be written in English.