



# RFID SCANNER

## Design Document

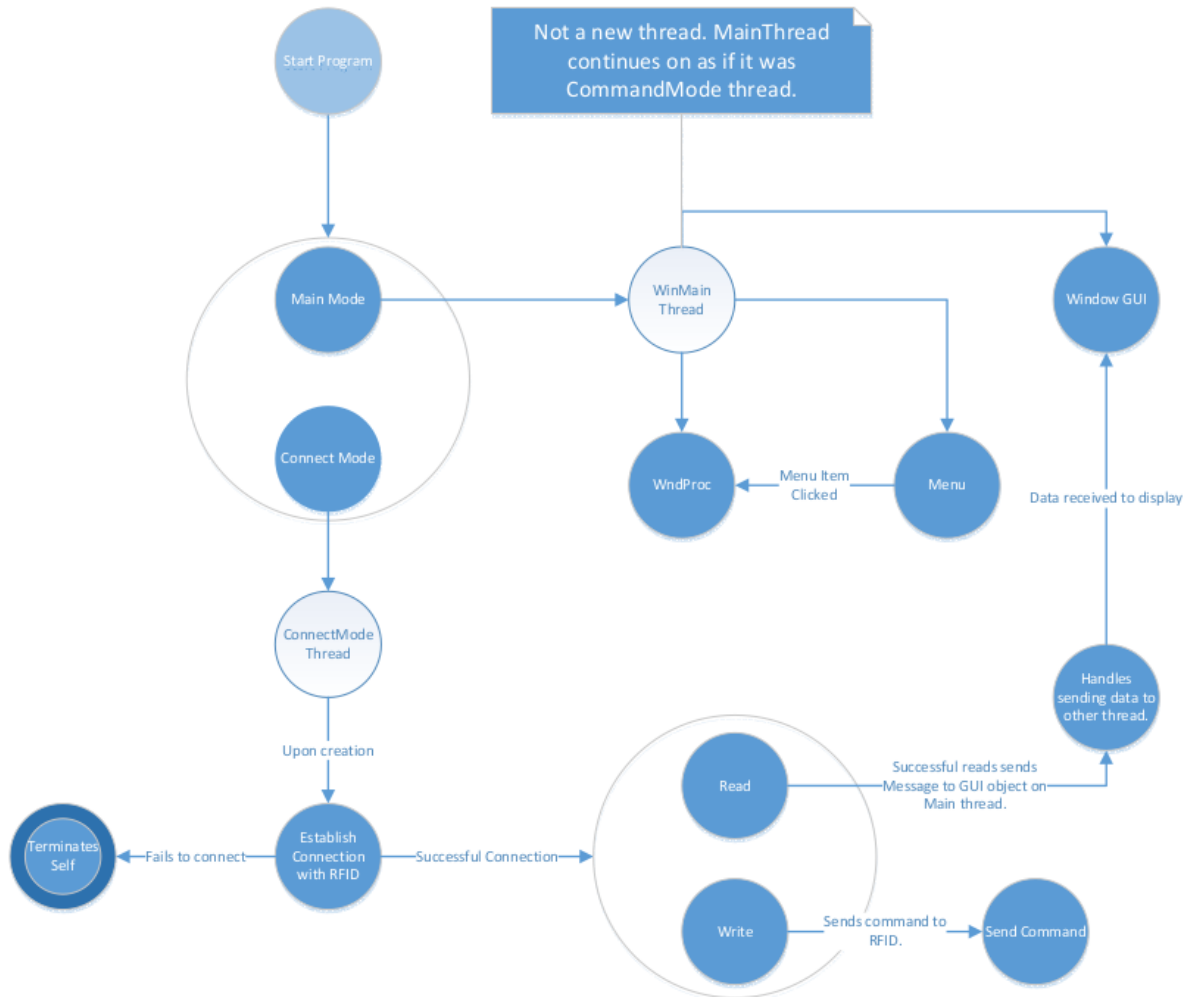
### Transition State Diagram and High Level Pseudocode

Rough initial design document for the Win32 RFID Scanner.

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# State Diagram



# Pseudocode

## **WinMain:**

Create ConnectModeThread.

## **WinMainThread:** (Continuation on WinMain)

### **WinGUI:**

Displays list of messages read.

### **WndProc:**

Handles menu item being selected.

### **Menu:**

#### **Settings:**

Modify any settings if needed.

#### **Help:**

Brief explanation on how to use the program.

### **Connect/Disconnect:**

Terminates and recreates the ConnectModeThread as needed.

## **ConnectModeThread:** Establishes a connection with the RFID.

On successful connection:

Read/Write loop:

## **Read:** Reads from the USB port connected to the RFID.

On successful read:

Send read info to WinGUI

**Write:** If a command is prepared to be sent, write to the USB port.

On Fail

terminate ConnectModeThread

display message saying "Failed To Connect."

**Read/Write Loop:**

while(1)

Read();

if (writeMessageAvailable)

Write(message)