Wireless Network Based Door Security Project

by
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Özkan Kılıç

Outline

- General definition of the project
- Introduction to our project
- Our solution
- Our differences
- Where we are
- Conclusion

What is wireless door security project?

A card based security system, combination of

- Hardware
- Software
- Wireless communication

What is wireless door security project?

Hardware Specification:
- VIA ITX Main Board
- Power supply for Main Board
- 128MB-memory
- 128MB-Disk space
- Wi-Fi Ethernet Card
- 1 or 2 Wiegand Proximity Readers
- Door Status Sensor
- Lock
- **Extra hardware as controller interface**

What is wireless door security project?

Software:

- Main board program
- Administrator program

What is wireless door security project?

Wireless Communication:

- between master computer and main boards.

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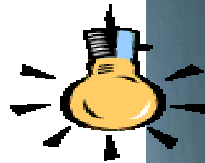- Where we are
- Conclusion

Introduction

Two wireless solutions

Introduction

Solution 1: (Traditional Approach)

Bilo Solution

Introduction

Advantage1 of Solution 1:

● Interactive

& User Friendly

Introduction

Advantage 2 of Solution 1:

● Cost Effective

(min. wage

max. performance)

Introduction

Advantage 3 of Solution 1:

- No failure in case of electricity cut

Introduction

Advantage 4 of Solution 1:

● Emergency case support

Introduction

Disadvantage 1 of Solution 1:

- Available 7/24 but with side effects

Introduction

Disadvantages 2 and 3 of Solution 1:

- Limited Capacity
- Unexpected Resignation

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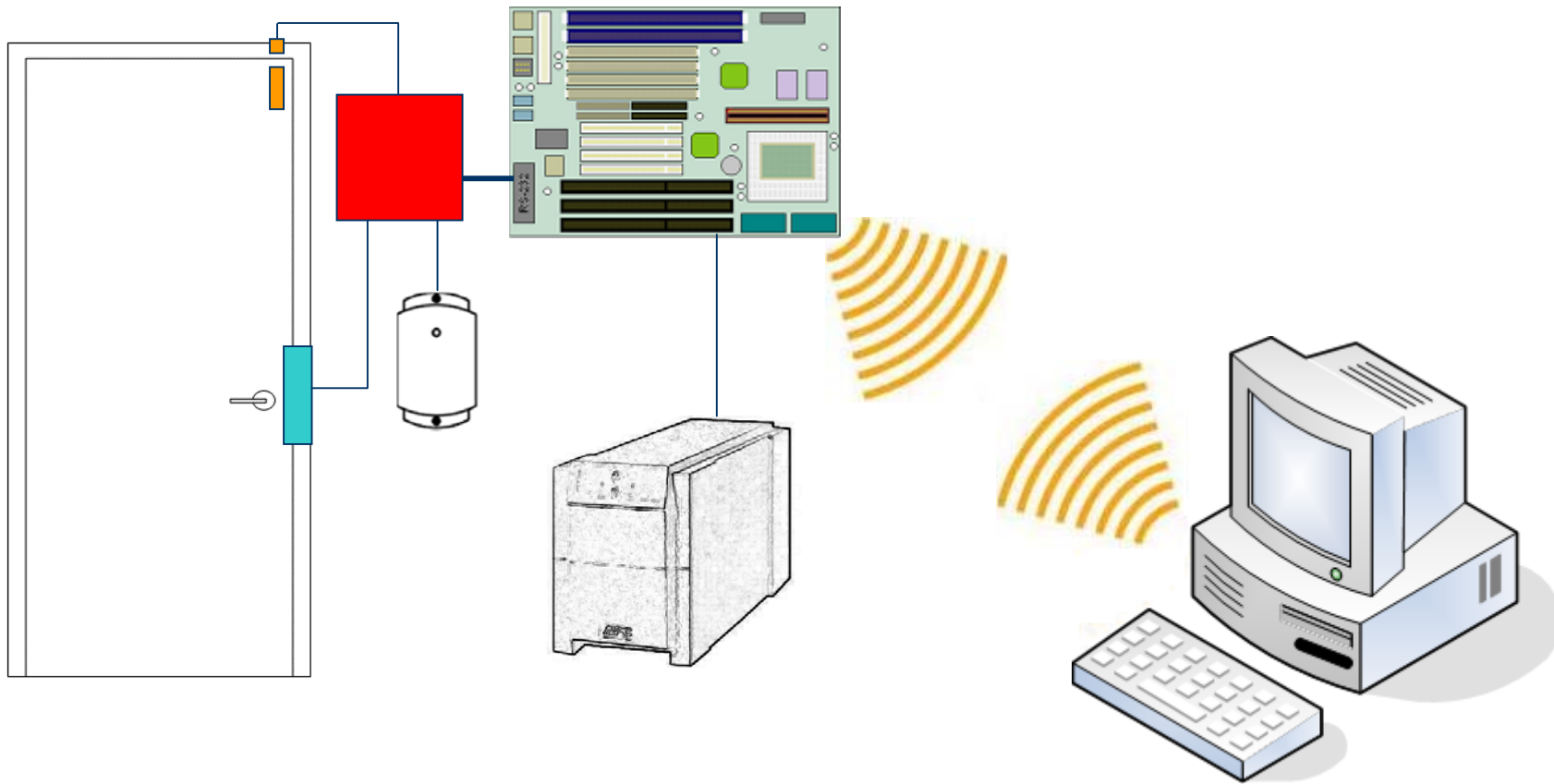- • Where we are
- • Conclusion

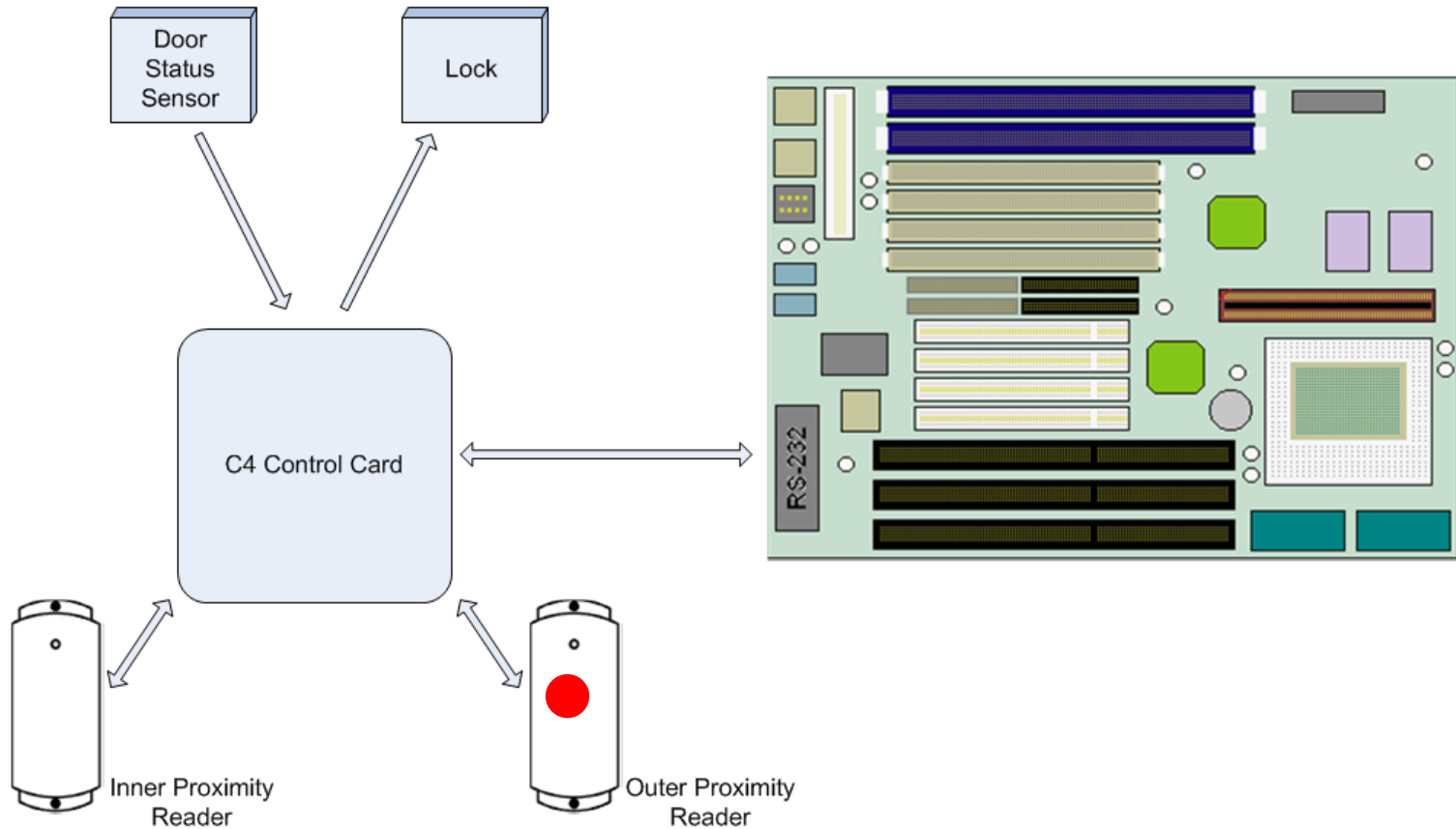# Our Solution

Solution 2: (Modern Approach)
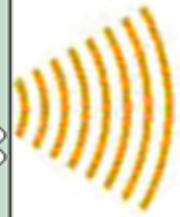
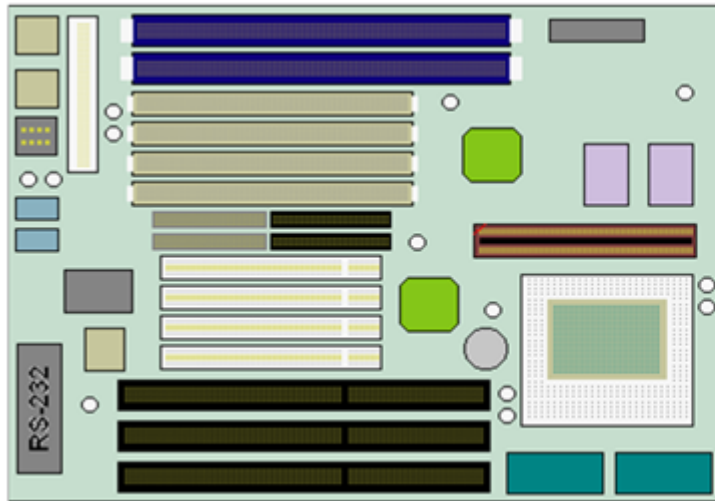## C4 Corp.'s Solution

What is our solution?

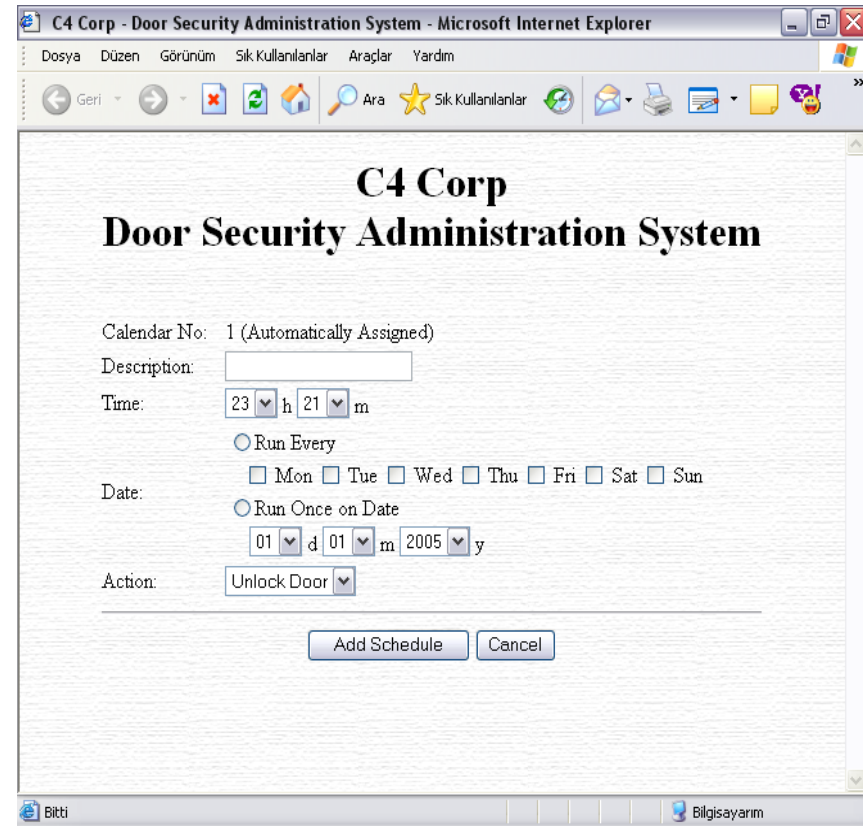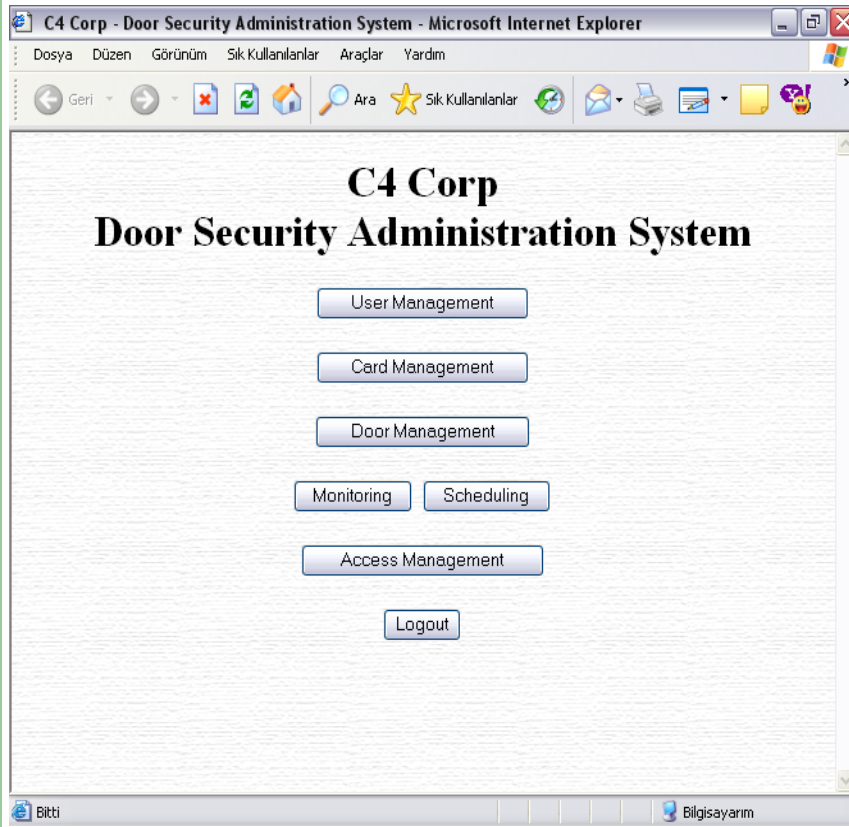- Our solution is

What is our solution?

What is our solution?

What is our solution?

- Our administrator program.

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Our Design and Differences

- Features of administrator program:
  - Web-based
  - Scheduling
  - Real-time monitoring
- Single control card
- Not affected by wireless connection loss
- Not affected by electricity cut
- Extra capalities

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- ✓ Our solution
- ✓ Our differences
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Where we are:

- **Finished tasks:**
  - Requirement analysis and system specifications
  - Initial design of the C4 control card and admin program
- **Ongoing tasks:**
  - Detailed design of our solution
  - Prototype of our solution

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Questions

You have listened to

C4 Corp.

And after the questions,

You will listen to others...

- CoreDump
- OneTouch Solutions
- softA
- TROY