

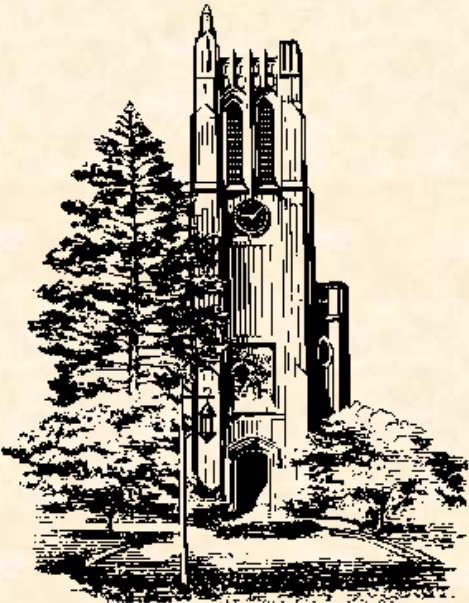
Technical Specification / Schedule Service Oriented Architecture (SOA) Portal for a Smartphone

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CSE 498, Collaborative Design

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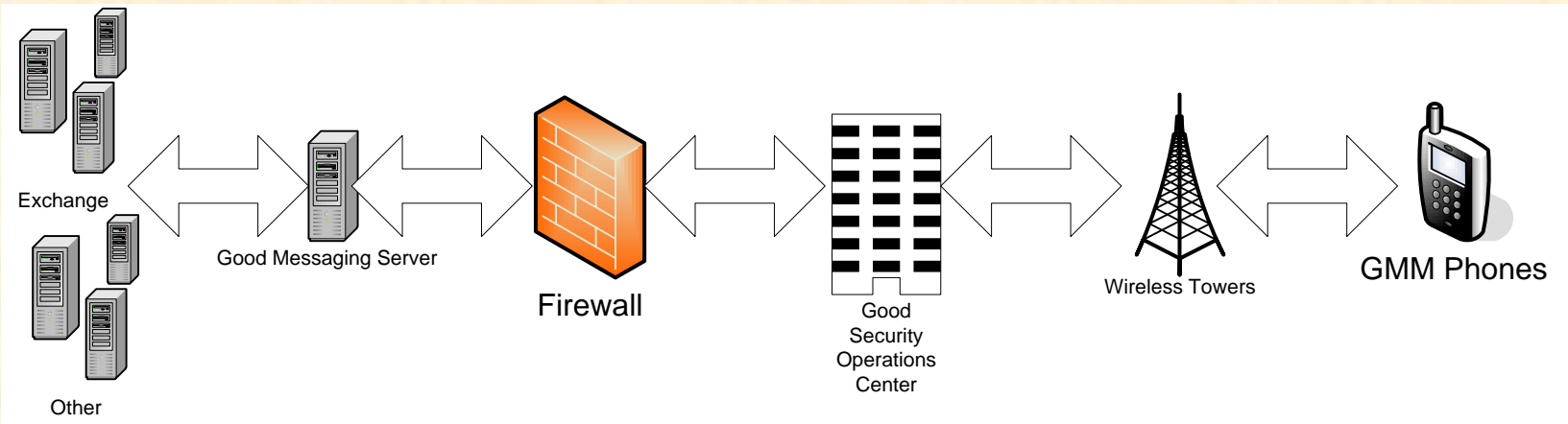
Spring 2007





Project Overview

- Create an interface for mobile agents to access intranet information remotely through an established service oriented architecture





Architecture Components

- Hardware Platforms
 - Motorola Good Servers
 - Motorola Moto Q and Palm Treo
 - Accident Fund Intranet Servers
- Software Platforms / Technologies
 - Microsoft Exchange Server
 - Good Technology Group
 - Good Messaging Server
 - Good Management Console
 - Good Management Server
 - Good Intranet
 - Palm OS and Windows Mobile 5
 - Above All Studios



Architecture Illustrated

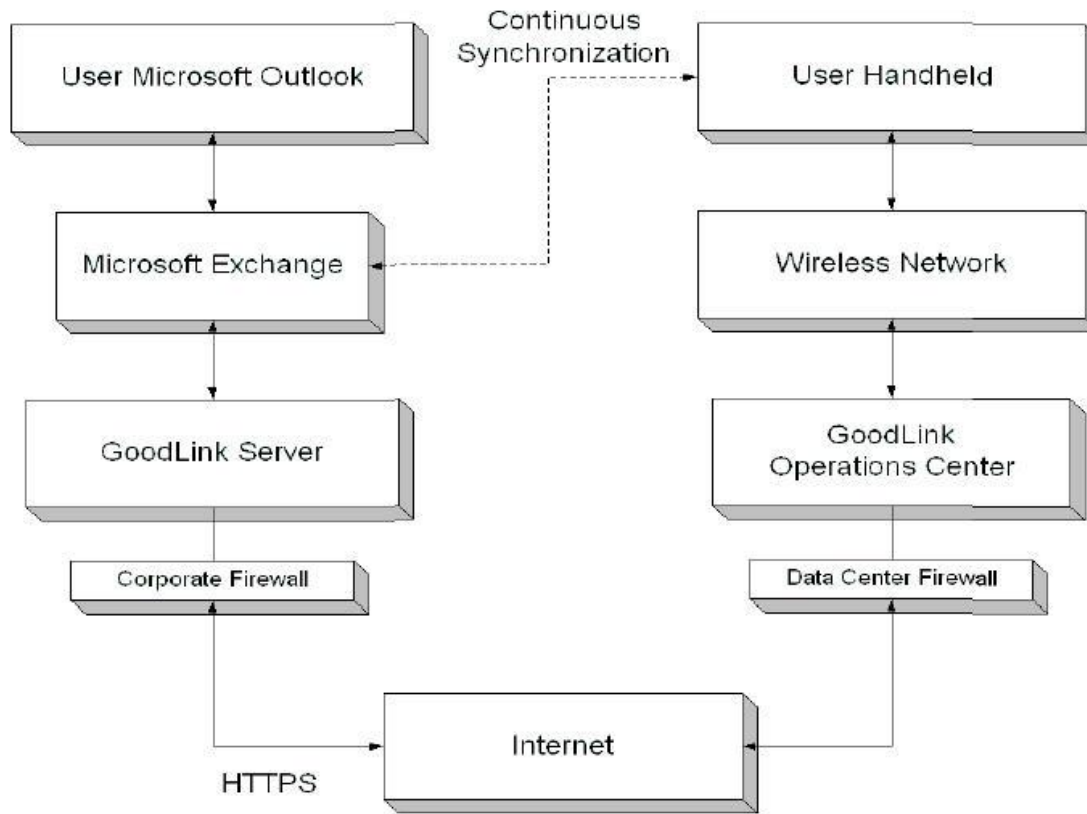
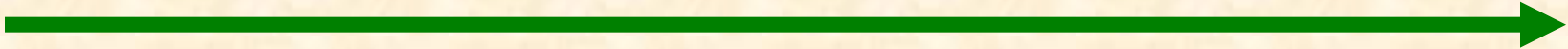


FIGURE 1. Synchronizing Exchange account and handheld



Architecture Illustrated

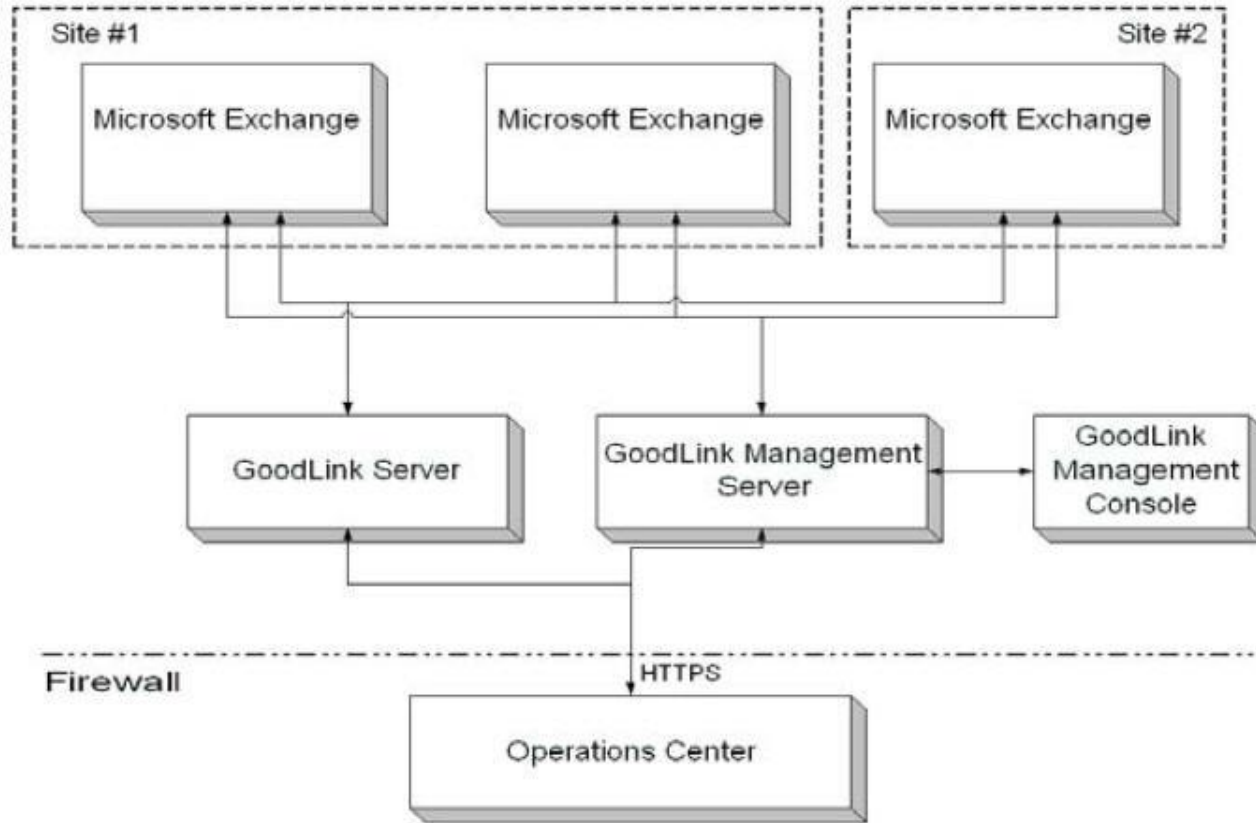


FIGURE 3. Handheld users on multiple Exchange servers and sites



Architecture Risks

- Setting up the Development Environment
 - License Acquisition for Good
 - Server Setup
- Multiple types of Smartphones
 - Screen Size
 - Different OS
- Transformations
 - XSLT
 - Java



Project Schedule

1. Server Set-up

a) Goals

- i. Exchange Server
 - Includes Active Directory
 - 2 days
- ii. Acquire trial license for Good products
 - 2 days (concurrent)
- iii. Good Messaging, Management Servers, Mgmt Con
 - 2 days
- iv. Good Intranet Server
 - 2 day
- v. Development Environment
 - 2 days

b) Completion Date: 2/5



Project Schedule

2. Initial Trial (prototype)

a) Goals

- i. Update Configuration Properties
 - 1 day
- ii. Update Application Properties
 - 1 day
- iii. Create XSLT stylesheet
 - 2 days
- iv. Test and Debug
 - 2 days

b) Completion Date: 2/11



Project Schedule

3. Transform remaining pages

a) Goals

- i. Analyze Site
 - 1 day
- ii. Update Configuration & Application Properties
 - 1 day (concurrent with previous)
- iii. Create XSLT stylesheet
 - 4 days
- iv. Test and Debug
 - 2 days

b) Total time per page, 1 week

c) Completion Date: 3/11

d) Review and test all: 3/12 - 3/18



Project Schedule

4. Apply solution to client's architecture
 - a) Goal: Do transformations work with dynamic pages?
 - i. Trial with first page and testing
 - Dates: 2/19 - 2/25
 - ii. Complete remaining pages and testing
 - Dates: 3/19 - 4/8
5. Video and documentation
 - a) Goal: Wrap-up, review
 - b) Dates: 4/10 – 4/25