




The Case For The Digital Wallet

Anand Sujith Henry
Vidit Drolia
Huang Yaolin
Bhatt Dev S/O Digantrai
Xiao Sa
Sridhar Venkataraman

Outline




- The Problem
- The *intelliWal*
- Supporting Technologies
- Working
- Applications/Scenarios




Business Scenario

The Problem




- **Physical Wallet**
 - Thick and bulky
 - Hard to manage money/cards
 - No instant recording of transactions
 - Hard to recover from loss of stored items

The *intelliWal*



“A smart application running on a mobile device which incorporates and extends **all** the functionality provided by a conventional physical wallet”

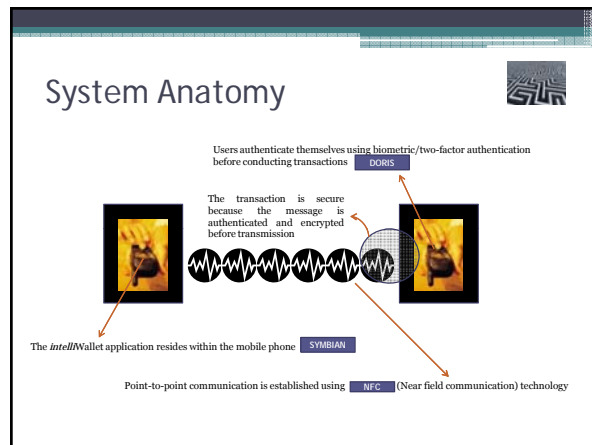
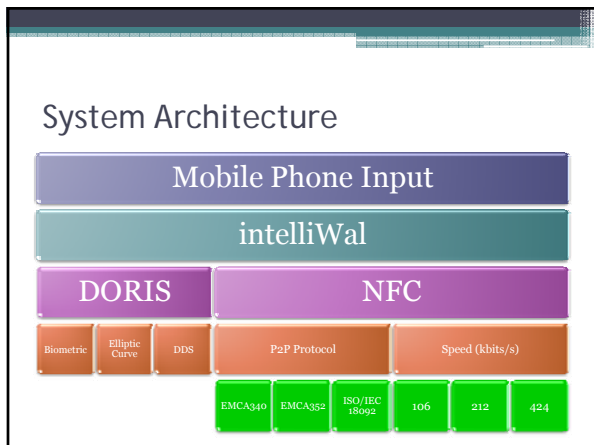
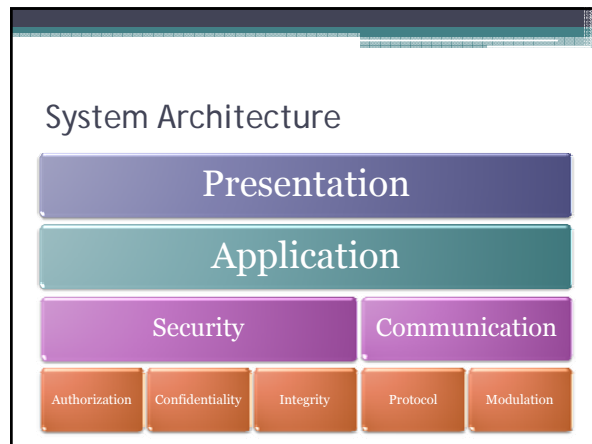
The *intelliWal*



Conventional Wallet	<i>intelliWal</i>
Thick, bulky and inconvenient to carry around	Lightweight and ultra-portable as the wallet functionality is integrated into a mobile phone
Cumbersome to retrieve individual items in the wallet, hand out money (especially change)	All transactions are conducted electronically, and a single intuitive interface is provided for managing the items in the wallet
Once transactions are made, there are no instant and easily accessible records which can be used to track the same	A comprehensive history of all transactions is maintained in the application, which makes tracking and monitoring activity related to the wallet simple
It is very difficult to recover the items stored in the wallet if they are lost or misplaced	In case of theft, the <i>intelliWal</i> can be deactivated until the user procures a fresh mobile device

And there's more...

- **Point-to-Point(P2P) transactions**
 - Fast, convenient and efficient
 - Secure
- **Extensible**
 - "Plug and play" new items in a breeze
- **Smart use of loyalty/promotions**
 - *intelliWal* "suggests" appropriate item to employ during transaction



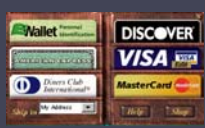
Technical Specifications

Hardware Component	Product/Technology
Mobile Phone	Nokia 6131
Communications Link	NFC chip
Security Link	Doris SD card token
Kiosk Screen	Vivotech

Software Component	Product/Technology
Operating System	Symbian
Programming Language	C++
IDE	Carbide.C++

Supporting Technologies


DORIS



DORIS - Overview

- **Digital Online Registration & Identification System**
 - Open architecture personal security system
 - Support for several authentication forms
- **Why DORIS?**
 - Addresses security concerns for mobile phones
 - Guards against wireless hacking
 - Resistant to identity theft, spoofing
 - Can be integrated with a wide range of applications

DORIS - Working




Deployable on various portable platforms such as PDAs & NFC-enabled phones

Symbian



Symbian - Overview



Applications/Scenarios

