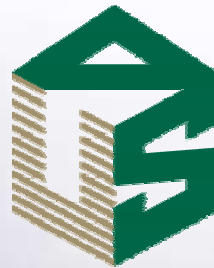
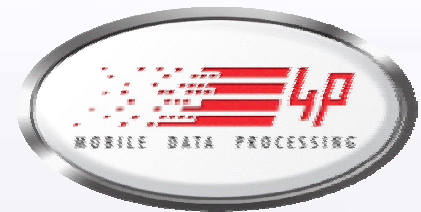


GSM/GPRS

for tracking and tracing CIT



**United
Armored
Services**



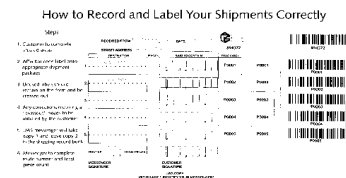
Service Area Statistics

- **No of Customers 14,500**
- **No of Bank Locations Serviced 1,600**
- **No of ATM's Serviced 3,000**
- **No of Packages Moved Per Day 40,000**
- **No of Routes 15**
- **No of Depots 10**
- **No of Stops 40,000 Per Week**



Current System - History and Problems

- **First Deployed 1998**
- **Deployed to 90% of Routes**
- **Almost Eliminated Losses**
- **Very High Customer Service Level**
- **Supports Pay Per Stop**
- **Reliability Problems**
- **Data Transmission Obsolete Technology**
- **Support Costs**
- **Requires Custom Receipt Books**



New Platform

Service Levels

- Eliminate Mis-Deliveries
- Better Management of Coin Deliveries
- Provide Real time Tracking of Pickups
- Allow for Higher Same Day Banking Levels

Productivity

- Imaging Pickup Receipts and Delivery Receipts
- Eliminate Receipt Books
- Reduce Internal Costs
- Provide State of the Art Platform

Investment

- €600,000 to Date



Hardware Requirements

- **Printing/Scanning One Unit**
 - Weapon + Ammunition precludes belt printer
 - 2 items to charge and maintain
- **GPRS**
 - Real-time transmission
- **WiFi**
 - CF based wireless allows future upgrades to A or G
- **Large Memory**
 - Big databases
 - Expansion slot for CF card for hard reset recovery
- **Rugged**
 - 5 ft drop test
- **Expandable/Modular**
 - Smart card
 - RFID



Current System - Specific Issues

- **Pick and Drop/Round Robin**
 - Item picked up at stop A and dropped on same route at stop B
 - Items picked up today dropped off at same location tomorrow
- **Multi destinations**
 - Customers have multiple destinations for same commodity
 - Customers want destination on receipt
- **Dynamic Routing**
 - Many customers only get service if they have a shipment
 - Call in during day for service – specials
 - Crews change route order to accommodate timing requirements
- **Coin Shipments**
 - Delivery based on Route capacity
- **ATM Complications**
 - Cassettes pickup up and delivered to adjacent Bank branch
 - Load and deposit pulls together – Different vaults
 - Loads diverted to different machines
 - Electronic combo



Real-Time

- **Security**
 - Electronic checkpoints
 - Vehicle liability tracking
- **Customer Service**
 - Provide accurate ETA information
 - Identify items just picked up/delivered
- **Same Day Crediting Customer**
 - Transmit credit from Truck
- **Combo Issuing**
 - Allow real-time issuing of ATM vault combo's
- **No Loads**
 - Transmit ATM no load and fault data
- **No Pickups**
 - Transmit and document No pickups



DAT500 ALL-IN-ONE Hand Held Computer

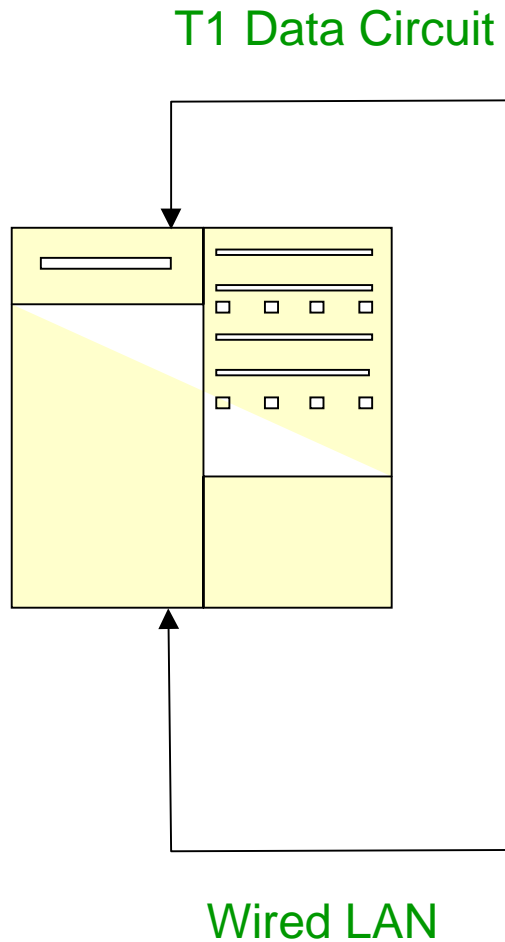
- **Manufacturer and Integrator**
4P Mobile Data Processing

- **Location**
Padova, Italy

- **Why 4P ?**
 - 10 Years experience with CIT
 - Rugged Unit
 - All In One Unit
 - Flexible
 - Strong Skill Set

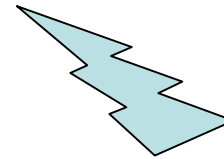


Data Transmission



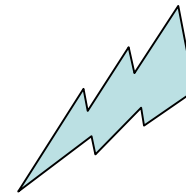
cingular
raising the bar
Internet

GPRS

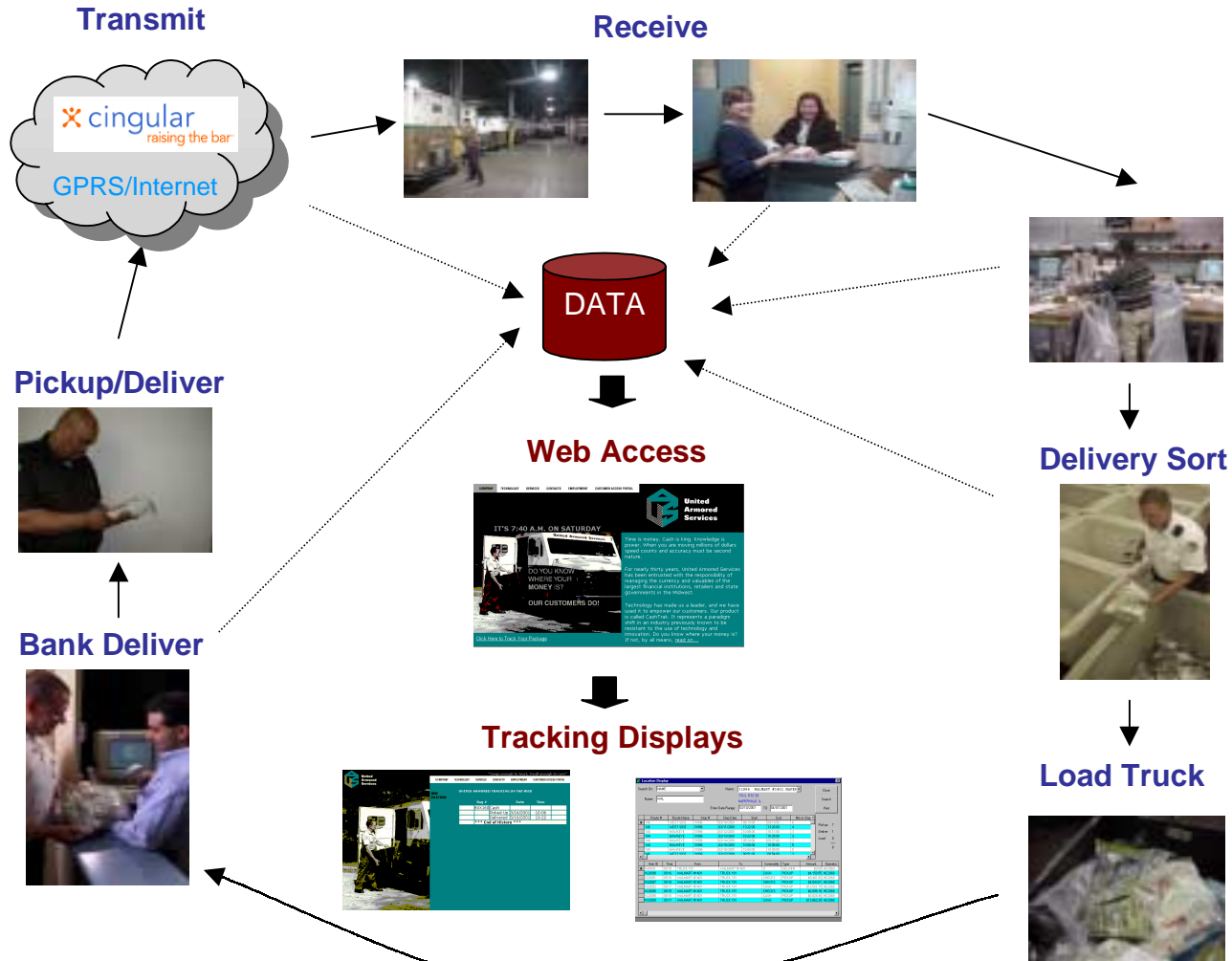


802.11
Wireless LAN

WiFi



Overview Of CashTrak



Process

- **Begin Day**
 - WiFi Download of All deliveries, Identify crew, start mileage
- **Load truck**
 - Electronic balance of all items loaded to truck
- **Pickup/Delivery**
 - All Deliveries verified for correct location/deliveries
- **Go Complete**
 - Checks all deliveries made
- **End Of Day**
 - Vehicle mileage
- **Check In**
 - All items picked up or not delivered scanned
- **Route Balance**
 - Balance all loaded to truck – deliveries + pickups = Check in items



Other Functions



- **Coin Inventory**
 - Allows crew to print current vehicle coin inventory
- **Enter Vehicle Repair Request**
 - Driver can report vehicle defects – Integrates to Fleet maintenance
- **No Pickup**
 - Report closed or no access locations
- **Change Crew**
 - Report crew change
- **Truck Transfer**
 - Tracks item transfer between vehicles
- **Change Truck**
 - Allows Truck change on route



Example Receipts



United Armored Services
2100 West 21st St, Broadview. Il
Delivery Receipt



04/10/04 14:56:44 WE6048 12364



1401
776 S Route 59
Naperville, Il 60540

(1) S08LFR4:	1,	\$	1,000.00
Cash			
20641 (Bank One)			
(2) S08LFLA:	1,	\$	500.00
Double Quarter Box			
20641 (Bank One)			
(3) S08LFLA:	1,	\$	25.00
Double Penny Box			
20641 (Bank One)			

Received By

- ✓ 1 yr Life Thermal Paper
- ✓ Prints 6" per second
- ✓ Barcode For Scanning
- ✓ 2 Copies Printed
- ✓ 140 Sheets in Scanner
- ✓ Pre-packaged in 140 sheets

United Armored Services
2100 West 21st St, Broadview. Il
Pickup Receipt



04/10/04 14:58:24 WE6048 12364

1401
775 S Route 59
Naperville, Il 60540

(1) HHVA03U:	1,	\$	534.02
Checks			
20844 (Bank One Checks)			
(2) HHVA02U:	1,	\$	3,800.00
Cash			
20641 (Bank One Cash)			
(3) HHVA06U:	1,	\$	1,036.73
Cash			
• (Bank One Checks)			
(4) HHVA05U:	1,	\$	3,200.00
Cash			
20641 (Bank One Cash)			

Received By



CashTrak Screens

Item	Store	Status	Code	Amount
4	36499 HOBBY LOBBY #174	C	JVON52U	\$3,830.41
5	36499 HOBBY LOBBY #174	C	JVON53U	\$850.00
6	11446 HOBBY LOBBY #205	C	GDTZ74U	\$3,303.16
7	11446 HOBBY LOBBY #205	C	GDTZ75U	\$900.00
8	11446 HOBBY LOBBY #205	C	GDTZ77U	\$2,737.60
9	30206 L.S. AYRES #29	X	IBAJ90U	\$9,564.79
10	30206 L.S. AYRES #29	C	IBAJ91U	\$10,066.00
11	19376 MARSHALL FIELDS #3008	C	IHOY61U	\$11,720.00
12	19377 MARSHALL FIELDS #3010	X	KDUU96U	\$19,046.76
13	19377 MARSHALL FIELDS #3010	X	KDUU98U	\$4,134.50
14	19415 TARGET #0731	X	KYIN01U	\$11,319.47
15	19415 TARGET #0731	C	KYIN02U	\$15,550.00
16	19384 TARGET #0732	X	JAJT23U	\$3,640.67
17	19390 TARGET #0838	X	GYCV11U	\$10,204.71
18	19391 TARGET #0839	C	JBOW74U	\$12,196.00
19	19391 TARGET #0839	X	JBOW75U	\$15,029.81

From MARSHALL FIELDS #3008
1 OAK BROOK CENTER MALL - OAK BROOK

To Truck 190



Transaction Volumes

- **DAT500**
 - 200,000 transactions per week
 - 600,000 scans per week

- **CashTrak**
 - Transactions > 400,000 per week
 - Shipments > 100,000 per week
 - Shipments > €1.14bn per week

- **Coin Shipments**
 - 50,000 boxes per week
 - €9m per week
 - 25m pieces



Economic Model

- **System Upgrade Cost €600,000**
- **Receipt Book Savings €76,000**
- **Reduced Losses €115,000**
- **Labor Savings €40,000**
- **Communication Costs €38,000**
- **Support €23,000**
- **ROI less than 3 years**



Implementation Problems

- **Microsoft ended support on CE 3.0 changed to CE 4.2 ported software**
- **Cingular bought AT&T Wireless reprogram GPRS modules**
- **Time Synch – Microsoft Issue**
- **Hard Resets – Microsoft Issue**
- **ATM Complications New customer requirements**



Timetable

- **Specification**
 - Started 2002 Completed end 2003
- **GPRS**
 - Fully Tested Using DAT500 Radio
- **Software**
 - First Delivery Oct 2004
- **Scanners**
 - 80 units Oct 2004
 - 50 units May 2005
- **First Customer Use**
 - Nov 2004
 - Full Deployment All Branches June 2005



Demonstration

United Armored Website
www.UnitedArmored.com

