



## Automated Milk Procurement System

AMCD System is an innovative use of mobile computing technology for complete automation of milk collection data recording and processing. It uses GSM enabled handheld terminals for capture of milk collection details and wireless transmission of data through GPRS to dairy plant where it is processed for payment and production forecast.

### Feature List

- ✓ Handheld-based automated entry of milk collection & quality data
- ✓ GPRS-based Transmission of collection data directly to factory
- ✓ Automated validation of collection data
- ✓ Real-time Integration with backend ERP system
- ✓ Provision of receipt to farmers
- ✓ Centralized rate management
- ✓ Automated reconciliation of milk collection, dispatch & reception at plant
- ✓ Providing a common communication platform at all collection centers

### Solution Technical Highlight

- ✓ Robust scalable data communication technology with fault tolerance at application level
- ✓ Electronic data capture with foolproof validation
- ✓ Instant high-speed communication of transaction details to server via GPRS
- ✓ Centralized database and automated data synchronization to ERP server
- ✓ Data query and monitoring tool on handheld device, hence Online data monitoring for agents
- ✓ Complete mapping of work-flow in the application for total automation.

**Client** : Nestle India Ltd

**Domain:** Dairy

### Challenges

- Manual, time consuming data entry prone to errors
- Enormous archival requirements as a result of paper-driven process
- Delays in payment processing
- Farmer level tracking inefficient
- Delayed visibility of collection
- No structured audit trails

### Solution

- Handheld based automated data collection
- GPRS based online data update to factory
- System interlocks to detect milk loss
- Robust middleware to handle huge traffic
- Real-time integration to ERP

### System Components

- GPRS Handheld Terminal
- AMPS Middleware
- AMPS Server

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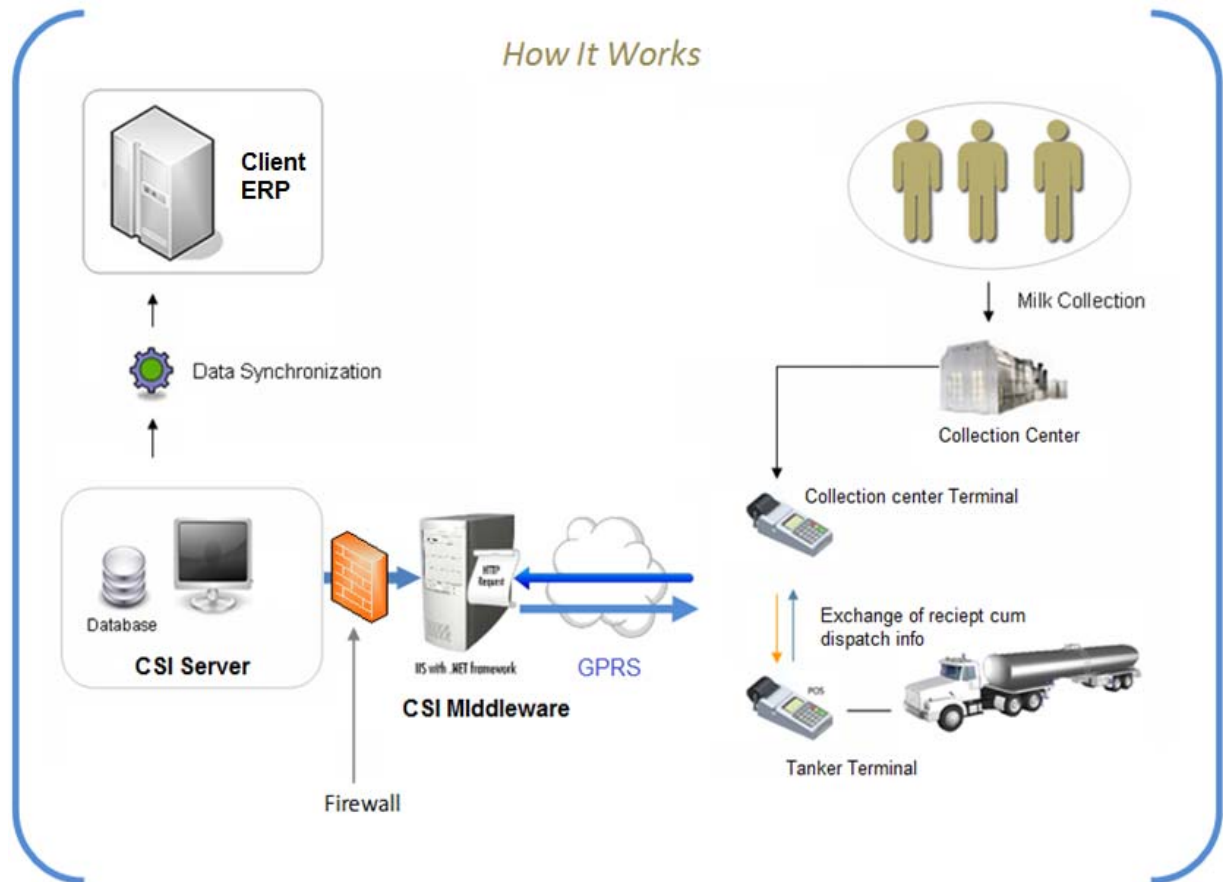
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Solution Overview



Tools & Technologies

Development: C, Asp.net C#, JavaScript, JQuery, XML, XSLT, Ajax

Reporting: Crystal Reports, HTML

Database: MS SQL Server 2008

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Realized Benefits

- ✓ No manual data capturing, hence NO chance of any data capturing error.
- ✓ Auto data capturing, hence No possibility of data tampering
- ✓ Rate changes can be managed centrally and efficiently
- ✓ Payment cycle can be changed to any level.
- ✓ System prints slip for farmer’s milk delivery. This builds trust & transparency at farmer level.
- ✓ With information being available on-line, controls will improve (like tank & tanker losses available on-line)
- ✓ Farmer level data available at daily/shift level; hence farmer level analysis can be done

Upcoming solution extensions:

- Cattle Feed Ordering and Distribution Management
- Veterinary Medicine Ordering and Distribution Management
- Spot payment to Farmers