

# Smart Metering Solution



## Client Business Description

- ◇ A global leader in electricity, gas and water metering, primarily outside of North America.

## Background

- ◇ Actaris manufactures electricity, gas and water meters and has about 300 million installations across the world.
- ◇ Significant percentage of these meters are Smart Meters.

## Challenge

- ◇ Many installations are in emerging countries where security & safety of meters is a concern along with rampant power theft and instances of meter tampering.
- ◇ Man power shortage in utilities for timely meter reading and correctly invoicing the industrial setups is a bottleneck in their revenue pipeline.

## Idea

- ◇ Develop a Unified Meter Reader Solution that can read Smart Meters remotely.
- ◇ Implement data analytics & visualization to identify power thefts & meter tampering.

## Our Solution

- ◇ Developed Unified Meter Reading Software supporting various communication protocols like Rs232 / Optical / RS485 (Direct Connections) & PSTN / GSM / GPRS / TCP-IP (Remote Connections).
- ◇ Software could read Gas/Water & Electricity – 1P & 3P meter in manual & auto scheduled mode.
- ◇ Implemented complex multi node data synchronization to collate meter data at hubs.
- ◇ Implemented BI to analyze data from the meters to pin-point meter tampering, cover openings, current reversals etc and utilized socio-demographic mean variance analysis to catch anomalies.

## Technologies Used

### For Server :

- MS SQL Server 2000
- VC++6.0, ATL-COM (For Meter Readers) / XML
- .NET (For UI) / DLMS COSEM
- Crystal Reports (For report generation)
- InstallShieldX

### For DOS Based Handheld Unit :

- Borland C (With Serial Port Communication)

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