

OPG CIO AMR PROJECT

Revenue Metering Telecommunications Network

Presented

By

Al Dharshi

Overview

n Objective:

- ∅ Costs reductions related to the Revenue Metering Telecom Network by Increasing Reliability, reducing Meter Trouble Reports (MTRs), reducing Dial Up long distance charges, maintenance and troubleshooting costs.
- ∅ This will be achieved by the replacement of Dial Up modems with WEB Based BATE (TCP/IP) Dial Up modems.

Background

n Initial implementation of Revenue Metering Network.

Ø Initial Implementation was a Dial Up Technology

Y Legacy Technology

- n Limited Data Retrieval Speeds
- n Aging Infrastructures

Y Financial Impact

- n High Number of MTR's
- n High Financial Impact to all parties
- n High Maintenance Costs
- n Long Distance Charges
- n High Resource Utilization

Y Reliability Issues

- n Communication interruptions
- n Utilizes aging infrastructures
- n High Downtime

Y System Limitations

- n MV90 Baud Rate Limitations
- n MV90 VPN Limitations

Project Scope

n This effort will be processed as a lifecycle replacement project

n Steps Towards Improvements:

∅ Reliability

Ÿ Modify Communications Infrastructure

- n Replace Legacy Dial Up Modems with Web Based BATE (TCP/IP) Modems**
- n Both for Main and Alternate Meters**
- n Increase Data Retrieval Communications Speeds**
- n Improve Communications Reliability**
- n Increase Uptime**

∅ Financial

Ÿ Decrease Number of MTR's

Ÿ Lower Maintenance Costs

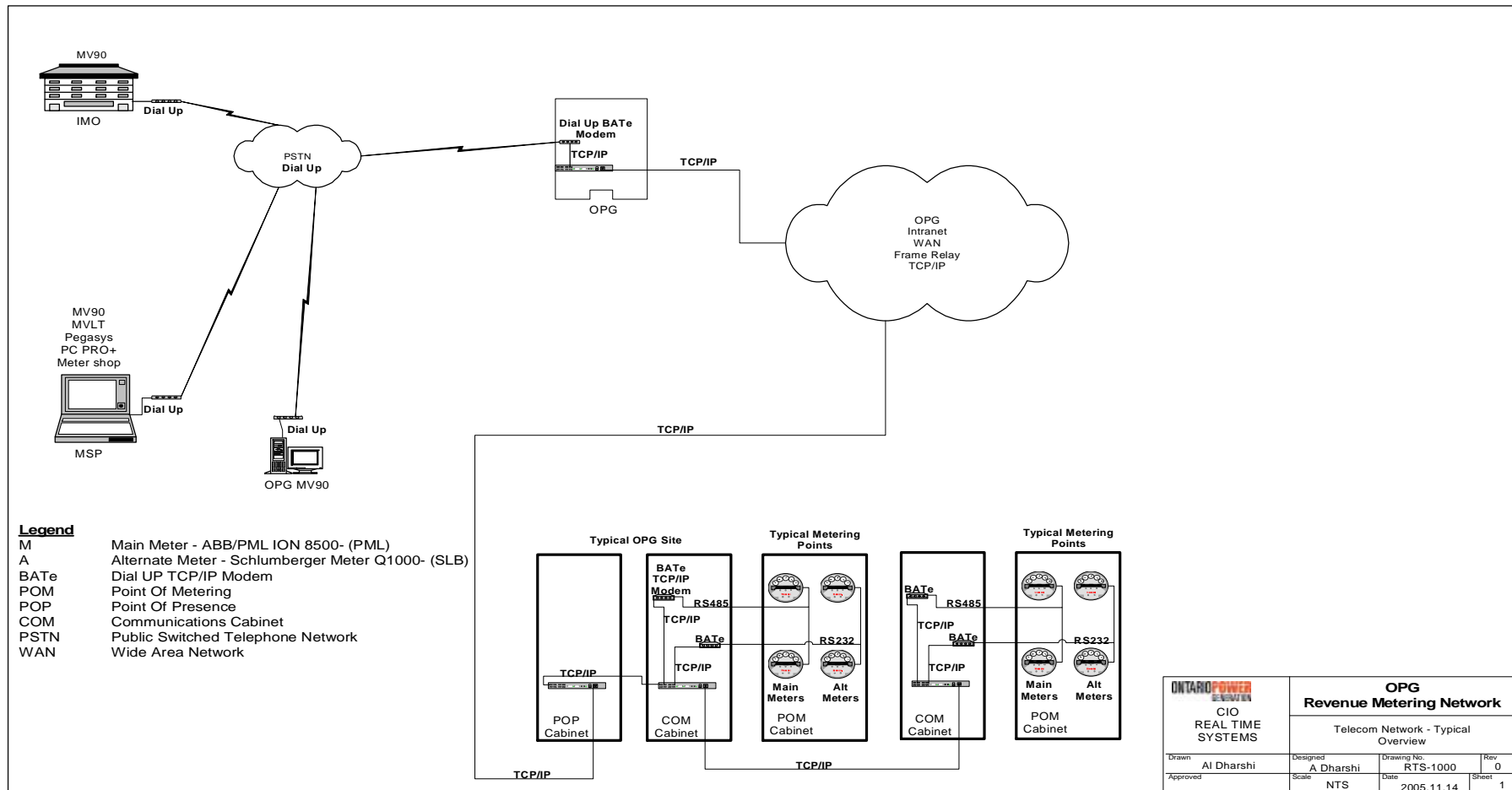
Ÿ Eliminate Long Distance charges

Ÿ Lowers Resource Utilization

Project Improvements

n Infrastructure Improvements

Ø Replace Legacy Modems with WEB Based BAtE (TCP/IP) Modems



Test Results

n Data Retrieval

- ∅ Reduced Data Retrieval time for a 24 hour period 288 records to 3 Mins per Meter
- ∅ Minimizes Communications MTR's
- ∅ Minimizes MSP charges due to troubleshooting efforts
- ∅ Minimizes Resource Utilization
- ∅ Minimizes Financial Burden
- ∅ Eliminates Long Distance Charges

n Improves Customer satisfaction

- ∅ Provides end users (IESO, EM, EP, Settlements) with a more robust, reliable service

Next steps

n Pilot Site/s

- Ø Lakeview
 - Ÿ Deploy Equipment at Lakeview and monitor results
- Ø Nanticoke
 - Ÿ Deploy Equipment at Nanticoke and monitor results
- Ø OSL Plant Group
 - Ÿ Deploy Equipment at OSL Plant Group and monitor results
- Ø Repeat Offenders
 - Ÿ Deploy Equipment at repeat Offending sites and monitor results

Constraints

- n Revenue Meter Telecommunications outages must be minimized and coordinated with IESO**
- n IESO and Sites require lead times / notification for work (generally a few days notice)**
- n MV90 Limitations**
- n Lakeview Shutdown**

Risk and Issues

- n Adequate resources available**
- n Vendors/suppliers/procurement agree to schedules**
- n Assistance from sites**
- n Component reliability is satisfactory**