



# SMART EYE MDC

The Complete Meter Monitoring & Management System



**MTI's Smart Eye MDC is not just a usual MDC, but marks an exception by incorporating various features of MDM**

## Overview

**Meter Data Collector (MDC)** is considered as a catalyst in advanced metering networks that enables bi-directional communication between energy meters and end users; obtains and stores a stream of useful data from smart energy meters into a data base.

MicroTech's, **Smart Eye MDC** is a specialized product which marks an exception by incorporating various features of MDM, giving it a competitive advantage on others. This state-of-the-art tool not only renders complete meter data collection process but also offers functions such as load control & data management. Also, it facilitates in bill generation and provides various specialized reports for analysis. Furthermore, empowers the end users to perform essential commercial procedures.

MTI's MDC is designed and developed keeping in view the latest industry standards and protocols, it collects metering data from the DLMS/COSEM compliant smart energy meters and stores into a database. The international standards and protocols fully enable this tool to be integrated with any other application or system that operates on same specifications. Thus, fostering inter-operability and enables multi-vendor compliance, making this tool compatible with wide range of Advanced Metering Infrastructures across the globe.

It is engineered to be future-proof tool, offering scalability, flexibility of integrating multiple communication technologies, resilience to site failure, high availability and redundancy. It can easily be scaled up by improving the base system with more capable and powerful hardware.

## Why MTI's Smart Eye MDC

- **INTER-OPERABILITY**
- **COMBINED WITH VARIOUS FEATURES OF MDM**
- **COMPLY TO DLMS/ COSEM**
- **CUSTOMIZABLE AS PER UTILITY USE CASES**
- **HIGH AVAILABILITY AND REDUNDANCY**
- **COST EFFECTIVE TOOL**

## Key Features



Availability of Secure & Authentic data



Low Operational Cost



Future Proof Technology



Multi-Vendor Compliance



Multiple Communication Technology Integration



Scalability



On Demand/ Scheduled (with flexible time slabs)  
Meter Reading



Geographic presence of meters on Maps

## Security Features

High security measures have been taken in account to avoid any possible cyber-attacks/ hacks

### Encrypted data flow between Meters & MDC

### Multi-level Authentication

### End User Permission

### Business Functions Administration

### Infrastructure level Administration

## Functionality

### Data Collection

The collection process involves collection and storage of metering data through all successfully integrated meters, in the central repository. The data collection is done on international standards based communication protocol "DLMS/COSEM". This protocol helps interoperability by making it easier to incorporate energy meters and devices of other vendors. Moreover, the architecture of MDC is designed in way that it can be integrated with any other standard/ customized protocols as well.



### Data Management

Consumption data of customers that is automatically collected from different locations can be managed in a more meaningful and useful way through various types of desired operations. Users can easily retrieve the data from smart energy meters and view it as and when required. Additionally, the users will have 24/7 access to the collected data with an option to export it to the billing system.

### Energy Accounting

Energy accounting enables a utility to compare the total consumption of selected meters (sub-meters) to a main meter. This comparison can tell the utility the difference between supplied energy and billed energy. Understanding and knowing this difference can help the utilities in reducing administrative and financial losses.

### Load Control & Management

This function allows the utility to remotely monitor and manage the load of consumers in order to redistribute the available energy resources. By using this feature the utility company will have the ability to analyze the data and forecast consumer behavior patterns which will help them in providing the available energy resources in a more efficient and better manner.

### Specialized Report Generation

The MDC makes available the essential metering data that can be used to generate specialized reports. The reports can be beneficial to carry out important analysis and deduce inferences. Future forecasting and supply optimization can only be performed with various types of reports and their high utilization.



### Integration with Utility System

MTI Smart Eye MDC can easily be integrated in the existing systems of the utility to improve their prevailing business processes. The integration with utility billing system helps them automate and streamline the billing processes by minimizing human intervention which results in reduction of errors. Moreover, MTI's Smart Eye MDC has been successfully integrated with the billing systems of two of the major utility companies of Pakistan i.e. MEPCO and PESCO.



Redefining Technological Horizons

Plot # 2, Street # 2, Attari Industrial Estate, 18 Km. Ferozepur Road, Lahore, Pakistan.

PABX : +92-42-35990015, Fax: +92-42-35924780,

E-mail: marketing@mtiilimited.com, Web: www.mtiilimited.com