

MTI GALAXY

SMART TOOL FOR ENERGY MANAGEMENT

Overview



MTI Galaxy is a powerful and scalable data collection and processing engine that automates and fosters various advance metering functions (Smart Grid Management, Information Sharing, data analysis etc.). The system is consistent with the world standards (IDIS, PRIME, DLMS etc.) and offers ease-of-use, flexibility and redundancy. It enables utilities to monitor the metering data, minimize the losses, reduce operational costs, generate timely reports and improve overall efficiency of the system.

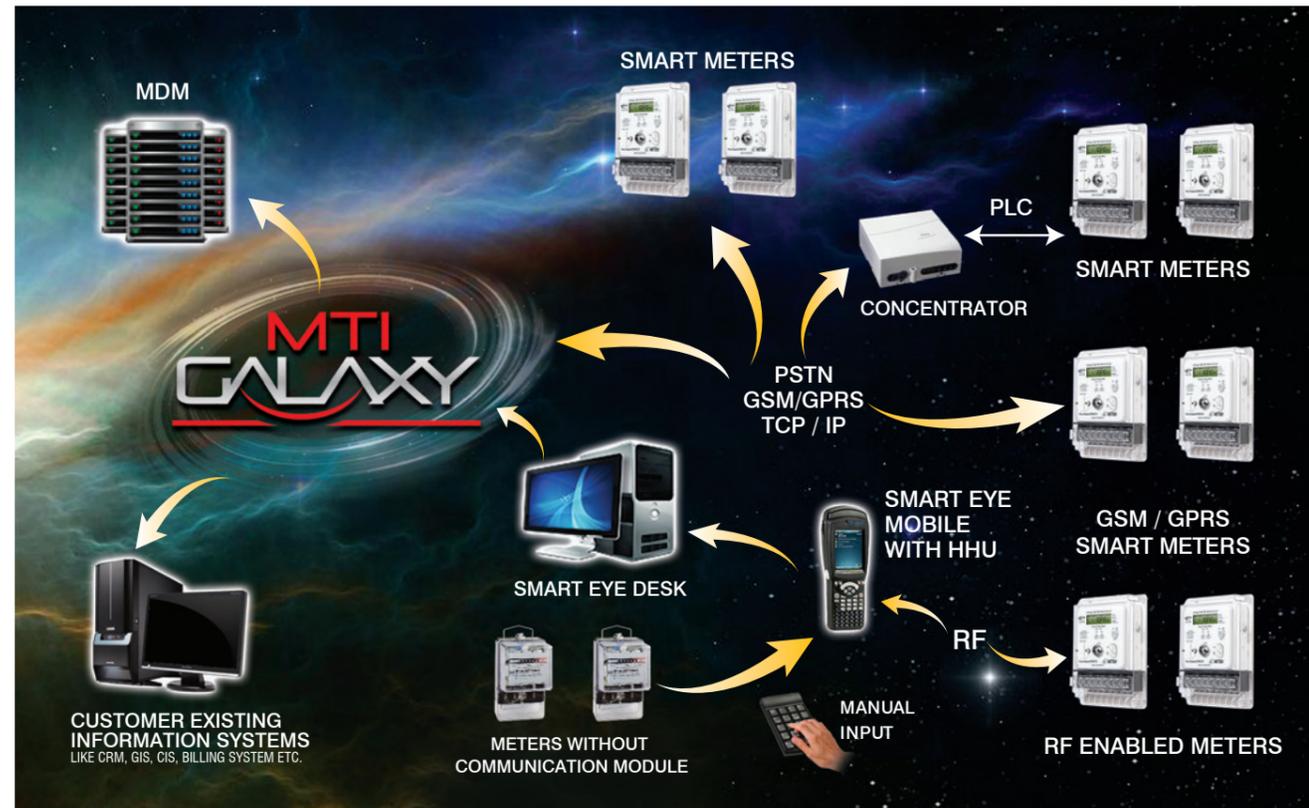
MTI Galaxy has replaced the arcane and difficult textual interfaces with an intuitive interface that allows utilities to

assimilate the data in a more expedient and practical manner. By providing the user with a web interface it improves the usability and portability of the system and reduces the time it takes to get used to it.

MTI Galaxy is a multi-fuel (electricity, gas and water) and multi-vendor compliant application, facilitating interoperability which has an ever growing demand among utilities world-wide and dramatically lowers implementation and operational cost. Furthermore, it is fully capable to integrate with the existing utility tools and applications like CIS, Billing and CRM etc.

Communication Channels & Data Storage

MTI Galaxy receives data using various defined communication channels such as GPRS enabled meters directly, RF enabled meters via Smart Eye Mobile and/ or Smart Eye Desk, Power Line Carrier (PLC), ZigBee and Power Switched Telephone Network (PSTN). It stores raw metering data and processes it to show a hierarchical data view. It also keeps track of data before and after performing validation and estimation. Moreover, it exports the data to the billing system as per predefined file formats.



Login System



Like any sophisticated system, MTI Galaxy offers a login system through which users with their associated rights can access the system. Each user when registered is given certain rights and privileges by the "Administrator", only these registered users with the assigned user ID and password can access system functions as per their rights.

MTI Galaxy offers multi-hierarchical user group system, like Administrator, General user and so forth. Each user group enjoys different types of defined rights, privileges and application usage levels.

Data Processing



Keeping the flexibility of the system intact, MTI Galaxy provides a friendly user interface to create, delete and modify "Validation and Estimation" rules. Since the rules generation process is very critical and a small error can result in high revenue variation, each time the user creates, deletes or modifies the rules, the

system prompts a confirmation message to the user to ensure minimum human errors.

MTI Galaxy also allows users to enter validation and estimation criteria values manually for the selected quantities. All the resulted data are stored into the database.

➤ Data Validation

MTI Galaxy provides a simple and intuitive interface to import data validation rules generated by a particular rule generator. Only a registered user can access this feature. These rules can be later used in the data validation.

A user is first offered to select the quantity (kWh, kVARh, MDI-kW) and then perform validation rules such as general rule, history rule, upper limit rule, lower limit rule etc.

➤ Data Estimation

Similar to Data Validation, MTI Galaxy offers an interface to import data estimation rules generated by the rule generator. The estimation rules include linear, last month, last year same month and average etc.



Report Generation

Reports are essential part of MTI Galaxy. It allows the users to carry out important analysis and deduce inferences. It generates various reports such as: Meter reading list, Total read meters, Total unread meters, Discrepancy report etc. It can also customize reports according to the customer requirement.

Scalability

MTI Galaxy can easily be scaled up by improving the base system with more capable and powerful hardware. And it can be scaled out by integration and expansion of the base system with addition of multiple parallel systems for increasing its capacity and capability. The system is fully scalable to the number of metering points specified by the customer.

MicroTech Industries is a leading technical solution provider in smart metering and energy management systems with a major market share in Pakistan. With more than 20 years of vast experience in the fields of Energy Metering, Telecommunications, Tracking and Fleet Management services it has successfully implemented and operated numerous complex communication networks. Being a strong R&D company, it has been offering a wide range of customized hi-tech solutions to its valued customers at competitive prices.



MicroTech Industries (Pvt.) Ltd.

Plot # 2, Street # 2, Attari Industrial Estate,
18 Km. Ferozpur Road, Lahore, Pakistan.
PABX : +92-42-35990015,
Fax: +92-42-35924780,
E-mail: marketing@mtlimited.com,
Web: www.mtlimited.com