Two way network Galaxy offers utility operators the reliability and coverage to confidently deploy various sensors in a self-own, self-operated sensor network. Water resource authorities are concerned with all aspects of a city water cycle; covering fresh water (and desalinated water), storm water and waste water. To manage water (of any form), water resource authorities require the usage of different sensors. These sensors for water resource management ranges from water quality sensor, water flow meters, water pressure sensor to water level sensor etc.

Many of today’s utility M2M solutions involve the usage of the public Telco infrastructure. Such Telco infrastructure while pervasive, has certain limitations in assuring reliable, secure, low power consuming, low-cost communication with large number of time-sensitive sensors.

Water Utility can view Galaxy as a single network that transcends all segments in the water resource management, providing wireless communications for all the sensors deployed, without the shortcomings associated with public telco infrastructure. Galaxy provides wide area coverage utilizing single Base Station and enables reliable two way communication with tens of thousands of battery operated sensors.

Galaxy can grow with the utility demands, providing the necessary coverage and assurance in terms of security.

- **Sewage monitoring**
  - Ultrasonic sensors
  - Real time alerts

- **Pressure monitoring**
  - Optimization through reference points
  - Real time monitoring and alerts

- **Leakage detection**
  - Meters data comparison
  - Acoustic sensors monitoring

- **Water Quality Monitoring**
  - Water quality sensors
PROPERTIES

- Two-way network for sensor monitoring and remote control
- Minimal infrastructure on the street and in the building
- Instant access to any sensor in the network
- Tens of thousands of end units per single Base Station
- Long battery life enable multiple applications
- Maximum scalability
- When needed repeaters are used to cover "dead zones" or increase the range

APPLICATIONS

SEWAGE MONITORING

End unit with ultrasonic sensor  
End unit with float sensors

PRESSURE MONITORING

End unit with pressure sensor

Telematics Wireless is a recognized leader in the delivery of robust, reliable and advanced energy and water resource management systems based on RF wireless networks. Our solutions support a wide spectrum of applications for many aspects of our daily life, increasing their efficiency, reliability and cost-effectiveness. With over 15 years of proven experience, Telematics has delivered and installed a spectrum of cutting-edge wireless systems for Automatic Meter Readings (AMR), Advanced Metering Infrastructure (AMI), Energy Resource Management, including Smart Grid, Street and other lighting systems, location-based services, asset tracking and monitoring, and Electronic Toll Collection.

Millions of Telematics Wireless network devices and systems have been installed worldwide.

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