



## Internet of Things

Smart Solutions Enabling Connected Devices

### ADVANCED BIG DATA TECHNOLOGIES DESIGNED FOR IoT

#### Big Data Preparation in IoT

Managing huge volume of data in different Size, Speed, Structure, Situation and Significance -- along with timely information is the challenge to the enterprise IoT and M2M platforms. Community of devices, sources of data and data owners of interconnected devices -- driven by verity, velocity and volume of data -- prefer a single point of control, data aggregation and a common purpose or technology standard.

Gamma Analytics provides

- Real time ETL
- Distributed processing
- Non-relational data store
- Counter based Aggregation
- Fault tolerance system
- Rule based work-flow
- Correlation capabilities

#### Centralized Management

Gamma Analytics provides a single view into the deployment, inventory, monitoring, and updating devices infrastructure and creates a foundation for more advanced management functionality. Simple, streamlined, modular solution that can be adapted for your data center allowing flexible framework to leverage and extend your existing investments

#### Device Cloud

Public cloud platform for device network management that provides secure application messaging data storage and device management for network devices. Device Cloud offers cloud-based storage and M2M device management as a service. It is easier to start with the platform for quick and accelerate management solution and time to market

#### Visualization

Dashboards for the devices deployed, statuses, messages and usage events and activities. The centralized, cloud hosted software gives detailed, comprehensive and holistic views on the devices. KPIs, summary and easily drill down able interface helps user to efficiently make management decisions

- User-defined dashboards with KPI and SLA monitoring
- Pre-defined and configurable widgets for fast adoption
- Individual and shared dashboards
- User-friendly evaluation and analysis tools
- 3D viewer for easy dashboard navigation
- Visual query construction
- View analysis across both real-time and historical data
- Visualize pattern detection and correlation
- Monitor trends, moving averages, and time series-based computations

#### Fault, Alarm & Case Management

Case Management helps define rules to generate fault scenarios, improves visibility, reduces Mean-Time-To-Repair and helps administration and maintenance. With unprecedented ease-of-use and visualization it correlates, simplifies and organizes cases & alarms into easily actionable items by prioritizing and pinpoints events that improve customer experience.

#### Abuse Control

- Control on utilization, misuse and revenue leakages
- Optimize through hybrid strategy of services
- Bundle by hybrid accounts having mixed services
- Reduced failure or increase lifetime
- Dynamic discount and cross product discounts



# INTERNET OF THINGS APPLICATION AREAS

## Telematics

The movement, status, location of moving vehicles through a combination of a GPS receiver and electronic GPRS device installed in the vehicle gets captured. Collecting and processing the captured data in real time and analyze to deduce the behavior of the vehicles. In addition to location data, the system provides a list of sensors showing the status of each including start, stop, location and speed. This information gives you complete, up-to-the-minute knowledge of your fleet activities in one centralized, web-based portal.



## Smart Metering

Automated meter management system manages information that help improve operations and business efficiency, lower operational costs, improved end-customer services and smarter, sustainable energy consumption. It reduces internal process requirements and costs, increased operational efficiency and delivers power consumption information to in-home display, Smart phone, or smart thermostats, tablet PC, through home gateways or directly from the meter

Puts smart meter data to work for streamlined meter-to-cash and for effective decision-making, improved grid operations, and enterprise-level processes such as planning and customer service



## Fleet Management

Real-time fleet management in terms of vehicle tracking Full control overall fleet's current position, Status etc.,. Make the vehicle management cost effective by help increasing security and safety, reducing fuel costs, operation expense, controlling vehicle speed, decrease idle times, improve routing and dispatching, go greener and better customer service.



## CPE Monitoring

Remote management and predicting network costs and problem areas and necessary upgrades, reduce network outages and improve response and maintenance Customer Premise Equipment (CPE) devices helps address reduce network operations costs and focus resources on core business.



## Connected Car

Powered with unique advanced navigation feature and entertainment related services, connected cars provide hi- tech features like at-location mapping, car or driving related automated notification, driver behavior monitoring system, and internet access to entertainment content. From offering an objective view of the car's condition to sending an alarm in case of an unplugged device, a connected car does it all.

## Asset Tracking

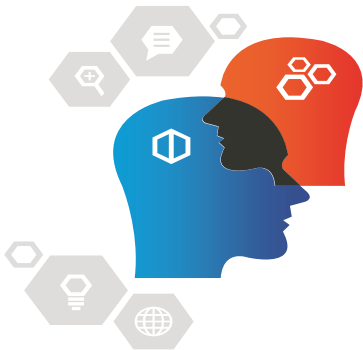
Asset Tracking and Management Solutions help Collecting and maintaining accurate records of the assets through remote communication with the devices attached with the valuable assets and reduce time consuming and expensive task to manage those. The right integrated solution will put your company's valuable equipment firmly under your control. The goal of any robust system is to maximize the asset control efficiency and minimize your equipment loss.



## Telemedicine & Patient Monitoring

Dedicated cellular devices collect data from glucose meters, blood pressure monitors, scales and pulse monitors etc. and automatically upload the information to the patient's database in the cloud via machine-to-machine cellular technology.

Remote patient monitoring solution uses devices to remotely collect, store and communicate biometric health information to practitioners. It allows health care providers to accurately monitor and intervene in the patient's care and prevents hospital or office visits.



## ABOUT GAMMA ANALYTICS

The first big data analytics company that includes domain intelligence to enable, streamline, manage and derive value from data. Gamma Analytics has a team of highly skilled telecom, analytics and data science experts with decades experience in providing solutions to wireline, wireless, cable and VOIP operators. Gamma Analytics is the first company to offer pre-built analytics for telecom providers. Gamma Analytics currently process terabytes of data daily for customers in Americas and Africa and is continuously increasing its footprint across the globe.



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