



**REAL-TIME TRACKING SOLUTIONS
FOR THE LIFE SCIENCES &
HEALTHCARE INDUSTRY**



AGHEERA: REAL-TIME TRACKING OF COMPLEX SUPPLY CHAINS IN THE LSHC INDUSTRY

Agheera is an **Independent Telematics Solutions Provider (ITSP)** offering industry specific visibility services to the LSHC sector. Creating transparency by consolidation of hardware & supplier independent position and sensor information in GDP/GMP environments.

TELEMATICS DATA CONSOLIDATION

Supply Chain in Life Sciences and Health Care industry are becoming more complex due to channel specific distribution, regulations and globalization. This leads to an increased need of end-to-end visibility ideally based on real-time tracking and sensor data. How to access in times of heterogeneous telematics systems and obtain more flexibility across many service providers? As an Independent Telematics Service Provider Agheera consolidates real-time tracking data from:

- Multiple transport companies - from forwarders and logistics service providers to hauliers and their subcontractors.
- An unlimited variety of telematics systems.
- Numerous transportation tools from trucks to containers.
- Extended to any location, device or person.
- Track.Agheera delivers data to different ERP systems like SAP; additionally to a broad number of TMS, Slot-, Yard-, and Asset-Management-Systems.
- Track.Agheera provides increased data quality and valuable information like route and tour planning, actual traffic and estimated time of arrival.

Agheera integrates different types of LSHC specific sensor data, provided by various telematics devices like **leakage door status, pressure, condition and humidity**.



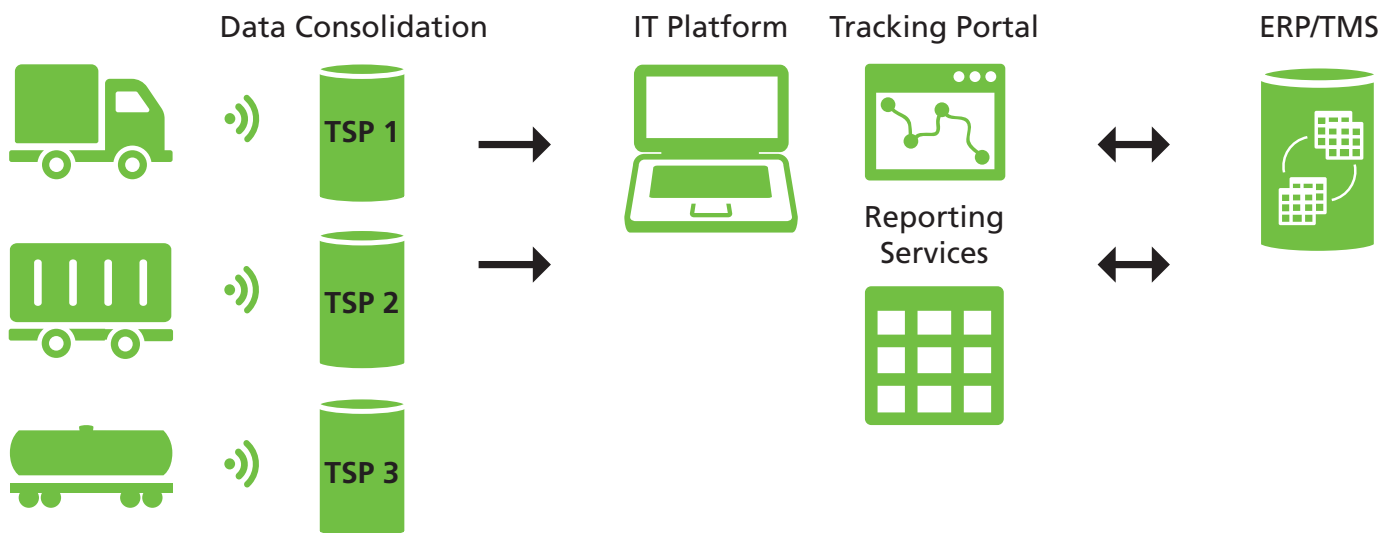
KEY BENEFITS

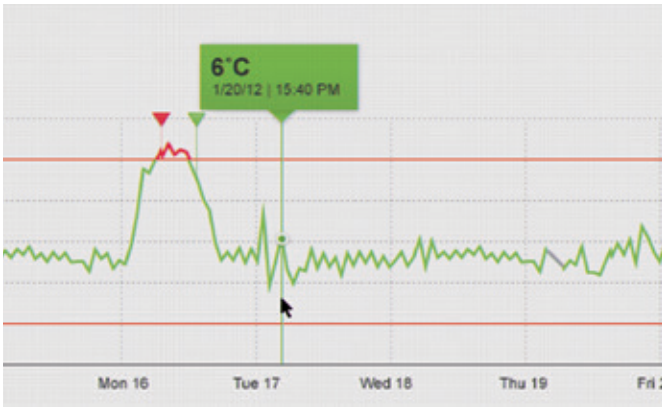
- Improved supply chain visibility
- Telematics vendor independent
- Open integration platform
- Sensor data consolidation
- Increased Transport Security
- Real-Time production
- Active monitoring
- Exception Management

Agheera provides maximum flexibility for your supply chain.



Consolidation Screen



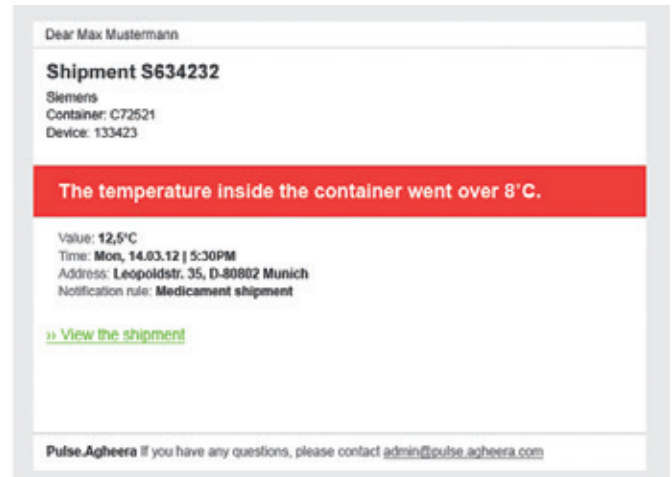


TEMPERATURE MONITORING

Agheera tracks the temperature of your products under predefined thresholds during transport and distribution process to ensure product quality. This feature merges heterogeneous sensors and telematics hardware of LSP (Logistics Service Provider) facilitating temperature and control management.

EXCEPTION MANAGEMENT

Based on customer requirements, Agheera is able to notify users through priority sensitive alerts in case of process relevant events and exceptions. For example the alteration of a pre-defined temperature range, resulting in an alert that will be transmitted to the user. These notifications can be sent to the user via E-Mail, SMS and through forwarding data to ERP solutions.

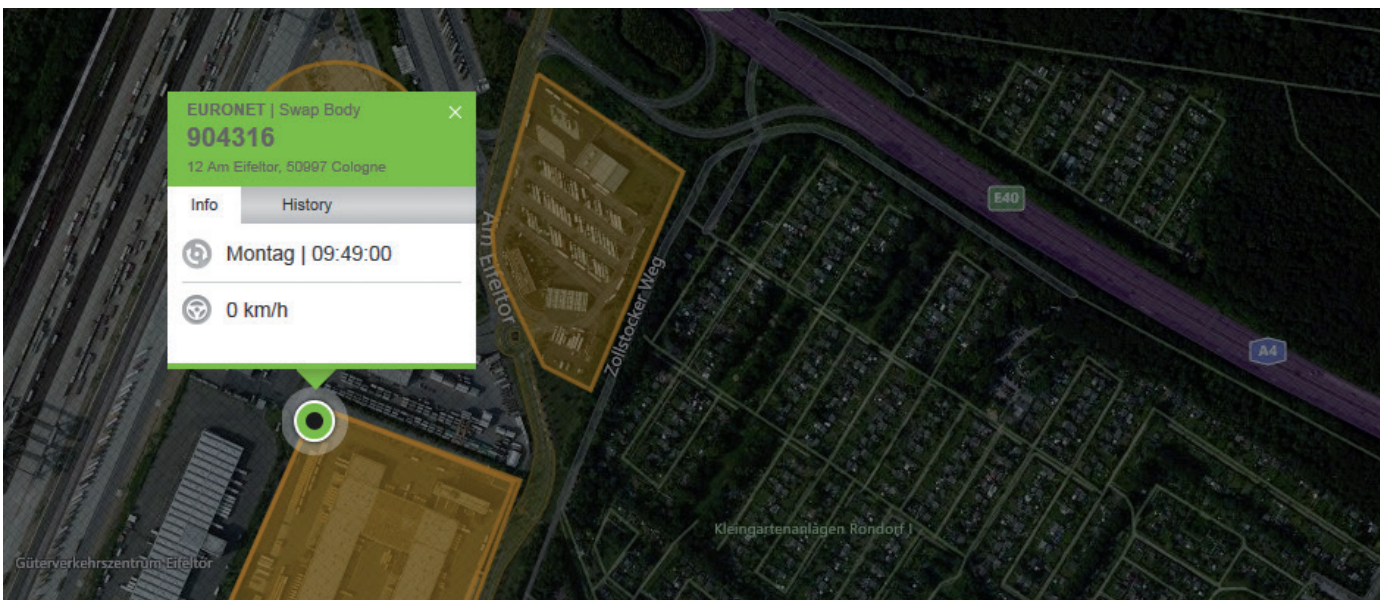


TELEMATICS BASED PRODUCT PLANNING

Agheera tracks your products in real-time no matter what LSP or specific telematics is involved. This includes current position, exceptions, notifications and condition data if applicable. Monitoring is visualized on Bing maps with multi-layer function, moreover is able to define customized points of interests.

The gained transparency enables to dynamically forecast

Estimated Time of Arrivals (ETA), organize yard management and control production inbound and outbound. The platform's tracing functionality monitors stored history data, allowing to identify bottlenecks and contingencies in order to initiate countermeasures and plan ahead. This technology can ensure more on-time deliveries and increasing customer satisfaction.



FEATURE LIST: THE TRACKING PORTAL

■ Notification Concept

The unique notification concept can be tailored to individual needs. Rules can be set up for single users, for single items or vehicles and also for a whole group or company.

■ Report Configuration

Predefined reports on KPIs such as idle times or utilization can be configured to individual needs. More advanced reports can be created via Agheera's reporting services module.

■ Various exporting options and Formats

Customizable reports including different formats supported (pdf, xls, csv) available on demand and per scheduled email.

■ Map Layers

Multiple-layer concept supports seamless integration of additional information into map material. Traffic heat-maps, clustering of sub fleets and pools at particular location as well as geofencing are of great visual support for dispatchers in their day-to-day routines.

Extensive Filtering and Grouping Options: User or role-specific groupings or filters can be created saved and shared with other users.

■ Temperature Documentation

For telematics hardware supporting temperature tracking reports and temperature graphs that cannot be manipulated can be created for insurance and liability purposes.

■ Individual Right Distribution

To address data protection regulations or to comply with employees' council agreements; users rights or roles can be individually defined in order to protect personal data from abuse.

TECHNICAL DETAILS AND FEATURES

- Technologies: .NET, jQuery, Ajax, CSS3, HTML5, SQL Azure
- Scalable cloud-based architecture
- No need of on-premise infrastructure
- Browser independent application with appealing design for modern web
- Customizable layout
- Unlimited user accounts
- Support for mobile devices
- Integration of telematics and telemetry data based on all common service technologies
- Exposing data to customers and partners via RESTful and secure API
- Layer-based approach for implementation of value-added services
- Highly integrated TSP interfaces

