Globesey Data Server (GDS) is a combined data server and middleware that capable to gather millions of information on a daily basis from different endpoints (TrafficSpots) and makes the data available for various applications through standardized interface. It comes with a dedicated graphical user interface (GDS GUI) where operators can manage the processes and can have different statistics, queries, through the web-browser based thin client. Further professional functions of the system are the Load Balancer, Geo Redundancy and Sensor Health Monitoring.

Benefits / Use cases: the system can be used for traffic monitoring, border control, toll collection, congestion charging, emergency- / bus lane observation, red light control, speed enforcement, weight- and journey time measuring, stolen car hunting and many more.

MAIN BENEFITS

- Potentially unlimited storage capacity
- Tracks vehicles carrying dangerous goods
- Web-based remote access for multiple simultaneous users
- Managing ITS systems of an entire city/region/country
- Integration into existing or planned 3rd party systems
- No need to use relational database – events are unrelated
- Runs on a smaller server – or works faster on given hardware system
APPLICATION AREAS
Toll Server • Smart City • ITS • Border control • Traffic monitoring • Speed/traffic enforcement

FEATUERS
Autonomous data gathering • Openness • Scalability • Flexibility • ANPR • Vehicle categorization • Axle counting • Secure data • State of the art technology • Quick ROI • Non-intrusive • Automatic violation detection

TECHNICAL DATA

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<th>Supported operating systems</th>
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<td>Licensing</td>
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<td>Supported programming languages for Linux</td>
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Effective data processing
The standardized data package flow is rapidly managed through IP-based communication in binary and/or xml formats and simultaneously transmitted between multiple endpoints and the server.

Scalability
The dynamically scalable server is able to perform without maximum limitation and efficiently stores all image and numerical data through its high-availability data replication and clustered storage software architecture.

Statistics
The user-friendly GUI provides comprehensive metrics and a searchable database along with preset automation, export functions and a log that records all activities in the system.

Endpoints monitoring
All roadside sensors and cameras can be remotely operated or monitored (self-verification, periphery check), reflecting the detailed conditions of the system in real-time.

TRAFFICSPOT® – ROADSIDE TRAFFIC MONITORING AND DATA PROCESSING