Globessey Data Server (GDS) – Versatile middleware for mass traffic dataRecognition

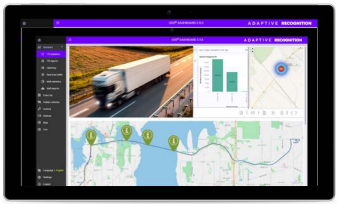
General Information

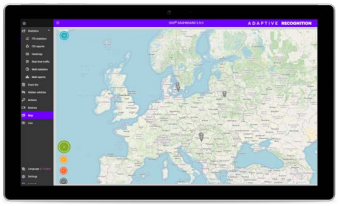
GDS is a universal traffic data collection and visualization middleware for backend system providers and/or Adaptive Recognition ANPR camera users. GDS manages, analyzes, and shares large traffic data of any number of connected endpoints. With the single-click device registration option, GDS can be ready in minutes.

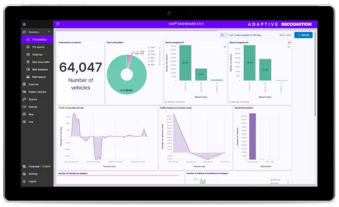
User-friendly Interface
With alerts, data filtering, and visualization.

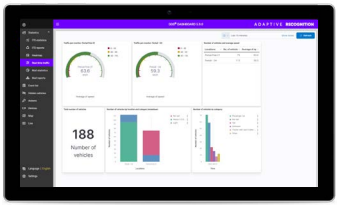
Easy Integration
For backend systems using our endpoints.

Scalability
Large data storage with load balancing support.









Oustanding Data Handling and Protection

With GDS, you no longer have to bother configuring endpoint devices. Data collection is completely autonomous, while the standardized (acknowledgment-based) data package flow is rapidly managed through IP-based communication and transmitted between multiple endpoints and the server. The software can also share endpoint data with specific business applications. There is no such thing as loss of data either. Thanks to the support of various failover mechanics, continuous data syncing, and automated data recovery, your system can be hardened and downtimes minimized.

Endpoint Health Monitoring

By natively supporting all Adaptive Recognition smart cameras—Vidar, Einar, and MicroCAM—your endpoints can be operated or, thanks to self-verification and periphery check, monitored from the comfort of your control room, using aggregated status notifications on the interface of GDS supplemented by SNMP device monitoring. This way, you can always reflect the detailed conditions of the system in real-time, saving you time and money regarding maintenance.

Simple User Interface With Data Visualization

With a powerful and flexible analytics frontend, GDS lets you enjoy comprehensive metrics in an easy-to-digest, visualized format—alongside user-friendly heatmaps. Reports and statistics can be easily exported, while continuous and automatic logging prevents unwanted modifications from being made to the data. The searchable database with various filters allows you to find specific records quickly and effectively. With the action list function, you can set up email and SMS notifications based on allowlist alerts to be immediately informed if something noteworthy happens.

System Requirements

Supported Operating Systems	64-bit Windows environment (Windows Server 2019/2022, Windows 10/11) 64-bit Linux distributions (Ubuntu, Red Hat Enterprise, Fedora) with systemd
Supported Platforms	x86_64 | PPC
CPU requirements	4 cores/8 threads, 2.5 GHz (Recommended: 6 cores/12 threads, 3.5 GHz)
Memory requirements	16 GB RAM (Recommended: 32 GB RAM)
Network connectivity	One Gigabit Ethernet interface for every network the server is connected to, appropriate routing between the site(s) and the server
System storage*	Min. 128 GB
Event storage*	Depends on traffic volume Contact AR for more details
Licensing	Licensing based on number of devices Contact AR for a quote
User interface	Mainstream browsers (Chrome, Firefox, Edge)
Development tools (underlying technologies)	Java, Elasticsearch, Spring WebFlux, Angular
Supported programming languages for integration	SDK available for Java, C++, C#, python, PHP**

* The system and events can be stored on the same storage medium.
** SDK examples available online: https://github.com/arh-eu/gds#sdk-examples

System requirements are calculated for typical application scenarios. For more on integration and development, visit https://github.com/arh-eu/gds

For projects with unique requirements, our software options can be expanded and customized (eg. adding seatbelt or mobile phone detection, optical speed estimation, customized output format, etc.) Additionally, hardware specifications can be adjusted to meet the specific needs of your project. Please contact our sales team to discuss tailored solutions. We are happy to help.

Release date: 17/09/2024