



# Transforming transportation through IoT innovations

TGI Connect, a pioneer in the IoT sphere, is driving significant innovations in the transportation industry in partnership with Globalstar's robust satellite network. With a strong focus on creating sensors for trailers, collecting valuable data, and offering efficient automation for actionable business decisions, TGI Connect is reshaping how transportation companies operate. In this article, we'll explore the key aspects of TGI Connect's advancements, shedding light on how their solutions revolutionize the way businesses make decisions and integrate technologies seamlessly.



## Creating Smart Sensors for Trailers

TGI Connect's trailblazing innovation lies in their cutting-edge sensors for trailers. These sensors are equipped with state-of-the-art technology, enabling frequent data collection from trailers while in transit. By employing a robust sensor network, including edge computing and AI technology, businesses gain critical insights into their trailer performance. A few of the business challenges TGI focuses on are location, temperature, door open, cargo and other crucial parameters. The accuracy and precision of these sensors ensure that companies can monitor their assets more effectively and reduce potential risks during freight transit.

## Future-Ready Sensors

TGI Connect embraces the potential of AI learning and edge computing, harnessing these technologies to establish a forward-looking framework for data acquisition. By integrating AI learning, we address unforeseen challenges, allowing TGI to solve unique solutions such as allowing detection of handbrake activation in the rail car environment. Leveraging Globalstar's dependable satellite network, the future of asset data collection through IoT is both resilient and easily accessible.

## Efficient Data Collection and Automation

Collecting and processing data can be a daunting task in the transportation sector, because trucks and trailers on the move pass in and out of cellular coverage. Due to the limited cellular coverage footprint, TGI chose Globalstar's satellite technology to provide an efficient data collection system that simplifies this process. Their integrated platform automatically gathers information from trailer sensors and other relevant sources. Periodically, the onboard solar-powered Globalstar device transmits it in short, data-rich bursts over the Globalstar Satellite Network to TGI.

With the power of AI and automation, TGI Connect efficiently analyzes this sensor-learned data, transforming raw unusable information into valuable insights that can be leveraged for decision-making.

## Actionable Business Decisions from Data

Data without actionable insights and reliability is of limited value. TGI Connect understands this, and that's why their platform excels at turning reliable data into actionable business decisions. By interpreting the collected data, businesses can identify trends, minimize downtime, right-size their fleet of assets and even drive revenue through captured trailer detention. With these insights at their disposal, transportation companies can drive operational excellence, resulting in significant cost savings, as well as future predictive analytics for preventing costly events.

## Seamless Integration Opportunities

The transportation industry thrives on seamless integration. TGI Connect facilitates easy integration with existing systems, ensuring a smooth transition to their IoT solutions. They do this by providing multiple paths to integration giving their customers increased flexibility. Integration options include REST APIs, direct feeds to customer or partner endpoints, and the TGI Integrator. The TGI Integrator is an easily installed middleware that handles TGI API access, placing data returned into a customer or partner database in a highly configurable manner. Using the TGI Integrator, a customer can generally have a working integration within an hour or two at zero cost. This flexibility provides interoperability enabling businesses to enhance collaboration among various stakeholders, including drivers, dispatchers, and warehouse managers. By bringing together diverse data streams, TGI Connect's integrated approach empowers companies to achieve streamlined operations and make data-driven decisions with confidence.

## The Solution

TGI Connect's relentless pursuit of IoT innovations is making a profound impact on the transportation sector. Through their advanced trailer sensors, efficient data collection, and actionable insights, businesses can make smarter decisions, reduce operational inefficiencies, and enhance overall performance. The reliability of data captured through Globalstar, positions TGI to provide a strong IOT future for their customers. With a focus on seamless integration, TGI Connect empowers transportation companies to stay ahead in a fast-paced and data-driven industry. As IoT continues to reshape transportation, TGI Connect remains at the forefront, leading the way towards a more connected and optimized future.



## About Globalstar

Globalstar empowers its customers to connect, transmit, and communicate in smarter ways – easily, quickly, securely, and affordably – offering reliable satellite and terrestrial connectivity services as an international telecom infrastructure provider.

The Company's low Earth orbit ("LEO") satellite constellation ensures secure data transmission for connecting and protecting assets, transmitting critical operational data, and saving lives for consumers, businesses, and government agencies across the globe. Globalstar's terrestrial spectrum, Band 53, and its 5G variant, n53, offer carriers, cable companies, and system integrators a versatile, fully licensed channel for private networks with a growing ecosystem to improve customer wireless connectivity, while Globalstar's XCOM RAN product offers significant capacity gains in dense wireless deployments.

In addition to SPOT GPS messengers, Globalstar offers next-generation internet of things ("IoT") hardware and software products for efficiently tracking and monitoring assets, processing smart data at the edge, and managing analytics with cloud-based telematics solutions to drive safety, productivity, and profitability. For more information, visit [www.globalstar.com](http://www.globalstar.com).

**To learn more about how Globalstar can benefit your business, contact us at [salesinfo@globalstar.com](mailto:salesinfo@globalstar.com).**

