

# S-TrackS

## Reliable positioning validation

**S**ecure Tracking Services (S-TrackS) is a CGI solution for validating the geographic position of both people and goods. Using secure signals from Galileo, Europe's satellite navigation system, S-TrackS delivers accurate Galileo-generated positioning that not only serves as proof of the positioning of people and goods, but also helps to prevent fraudulent positioning.

It sounds like something from a crime novel. Using manipulated satellite signals, criminals re-route a scheduled delivery of cash to a remote location where they can then steal it. Unfortunately, this isn't fiction. Rather, it's a technique known as spoofing (i.e. the intentional manipulation of a satellite navigation signal). Satellite signals are relatively weak because the satellites are located far from the earth. As a result, they are relatively easy to spoof without detection. However, with S-TrackS, spoofing becomes easy to detect.

S-TrackS also delivers reliable positioning evidence of people and goods required for commercial, security or judicial requirements. For example, it can provide evidence of an asset's historical or current position for customs, licensing or insurance purposes. In addition, a legal authority might need to monitor an individual under house arrest. Because of the high reliability of S-TrackS, its positioning validation can serve potentially as proof within a court of law.

### GALILEO AND S-TRACKS

S-TrackS relies on Galileo, Europe's Global Navigation Satellite System (GNSS), which is similar, for example, to the American Global Positioning System (GPS). Galileo uses a government-regulated service called Public Regulated Service (PRS) for positioning, but this secure service is available only for European government-authorized users that have complied with stringent security measures. S-TrackS provides these government-authorized users with the advanced technology required to take advantage of PRS in accurately tracking people and goods.

S-TrackS receives continuously transmitted PRS signals, validates the signals, and compares their positioning data with the expected positioning of people and goods.

The potential uses of S-TrackS are endless – from monitoring maritime, aviation and road transport, to electronically identifying individuals, to optimizing road pricing, to speeding up customs clearance.

# CGI

Experience the commitment®

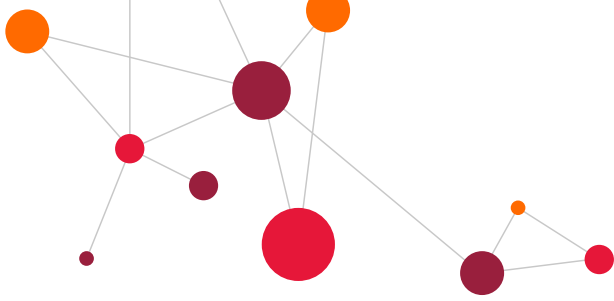


### S-TrackS Benefits

- Positioning validation for both people and goods
- Validation that's sufficiently reliable to serve as legal evidence
- Use of Europe's global navigation system, Galileo, and its highly secure Public Regulated Service
- Use of the latest mobile, space, cybersecurity and satellite technology
- Endless potential applications – from all types of asset monitoring, to electronic identification of people, to optimized road pricing, to customs clearance

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## WHY CGI?

CGI has more than 40 years of experience in Consulting and System Integration for Earth Observation, Navigation, Satellite Monitoring and Control, Ground Segment, Flight Dynamics, Data Processing.

Our focus is customer-oriented solutions in which innovation and new technologies are applied, e.g. automation of operations for Satellite Constellations, Data Processing with Artificial Intelligence, modern Cloud solutions for Software-as-a-Service.

## ABOUT CGI

CGI is a global service provider for IT and business processes. We were founded in 1976 and have a total of 77,500 employees at 400 locations in 40 countries.

We are on-site for our customers – with strategic IT and business consulting, systems integration, managed IT, business process services and intellectual property at a top level.

We support our customers in making better use of ongoing investments, while at the same time leveraging new digital technologies and business strategies that enable clients to achieve the best solutions across the entire value chain.

Regarding time and budget, we are regularly awarded due to our strict delivery discipline. To this end, we have consistently achieved more than nine out of ten potential points in customer satisfaction surveys over the past ten years.

For more information, please write to [info.de@cgi.com](mailto:info.de@cgi.com) or visit us at [de.cgi.com/cybersecurity](https://de.cgi.com/cybersecurity).

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