

Trailer and Cargo Container Tracking

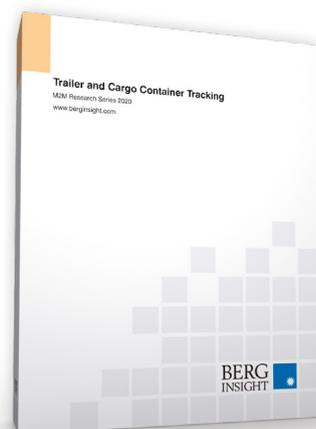


Trailer and Cargo Container Tracking is the eighth consecutive report from Berg Insight analysing the latest developments on the trailer and cargo container tracking market worldwide.

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Highlights from this report:

- **Insights** from 30 new executive interviews with market leading companies.
- **Comprehensive overview** of the real-time cargo tracking value chain and key applications.
- **In-depth analysis** of market trends and key developments.
- **Summary** of major cargo tracking initiatives from the EU and the US.
- **Updated profiles** of 102 container tracking solution providers.
- **Detailed forecasts** by market vertical lasting until 2024.



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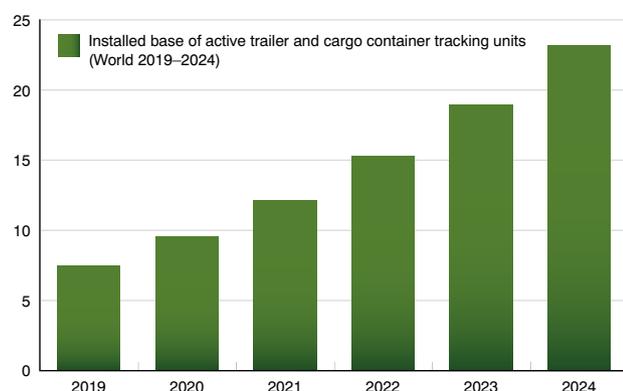
The installed base of active cargo tracking units reached 7.5 million in 2019

Trailer and cargo container tracking is a subsegment of asset tracking and aims to increase operational efficiency and make logistics chains more secure. Berg Insight's definition of a real-time tracking solution is a system that incorporates data logging, satellite positioning and data communications to a backoffice application. Trailer tracking can be part of fleet management solutions including both trucks and trailers. The history of fleet management solutions goes back several decades while tracking and monitoring of shipping containers came in focus after 9/11. Today, mobile and satellite networks can provide ubiquitous online connectivity at a reasonable cost and mobile computing and sensor technology delivers high performance as well as excellent usability. All of these components combined enable the delivery of supply chain management, security management and operations management applications linking trailers, containers, cargo and enterprise IT systems.

In order to make freight transport efficient, products are packed into collective logistics units which can remain intact throughout the delivery chain. Smaller logistics units such as boxes and pallets are often grouped into larger units and loaded on trailers, semi-trailers, swap bodies, rail freight wagons, air freight unit load devices (ULDs) or intermodal shipping containers. These loading units can be applicable to one or more modes of transport. Trailers and semi-trailers are mostly used in road transport, swap bodies can be transferred between road and rail transport, rail freight wagons are used on railways, ULDs are used in air freight transport and shipping containers can be carried on several transport modes. More than 25 million intermodal containers, 14 million trailers and 5 million rail cars are in use worldwide.

Berg Insight estimates that shipments of remote tracking systems with cellular or satellite communications capabilities for cargo loading units including trailers, intermodal containers, rail freight wagons, air freight cargo containers, cargo boxes and pallets reached 2.6 million units worldwide in 2019. Growing at a compound annual growth rate of 28.8 percent, shipments are expected to reach 9.3 million units in 2024. During the same period, the installed base of remote tracking systems is forecasted to grow at a compound annual growth rate of 25.4 percent from 7.5 million units at the end of 2019 to 23.2 million units by 2024. Trailer tracking is the largest market ►

Million units



► segment, estimated to account for 37.2 percent of the total installed base of tracking units deployed on trailers and cargo containers in 2019. General cargo tracking and intermodal container tracking are the second and third largest segments with estimated shares of 28.2 percent and 25.3 percent respectively of the total installed base at the end of 2019.

Berg Insight ranks ORBCOMM as the largest provider of tracking solutions for cargo loading units, having a significant installed base of trailers as well as containers. The company's total installed base reached just shy of one million units at the end of 2019. The second largest player, SkyBitz, has an installed base of 570,000 tracking units, primarily on trailers. Additional large players on the North American trailer telematics market are Spireon, CalAmp and PowerFleet, having between 100,000–300,000 installed tracking units each. The European trailer telematics market is considerably smaller. Idem Telematics is the leading player with 71,000 active units while other top European players include Schmitz Cargobull, Transics/WABCO and CLS Group having between 30,000–45,000 active trailer units each. Mecomo and Agheera, also based in Europe, are strong vendors in the adjacent swap body segment. Envotech based in Malaysia, ZillionSource based in China and Sierra Wireless and Geoforce based in the US have large installed bases of connected containers. Nexxiot, Siemens, Savvy Telematic Systems, DOT Telematik and Amsted Rail are significant vendors of tracking solutions for rail freight wagons. Sensitech, Roambee, OnAsset Intelligence and Controlant are notable players in the general cargo segment, also offering solutions for air freight cargo.

Berg insight anticipates that there will be a strong focus on increased supply chain visibility and transport security in the coming years. Tracking of trailers, intermodal containers, ULDs and rail freight wagons is increasingly common and technology advancements in recent years has made it possible for smaller logistics units such as individual pallets or cargo boxes to be tracked at a reasonable cost. General acceptance of remote tracking solutions was first established in specific usage scenarios such as high-value, time-critical or refrigerated goods. Decreasing hardware costs, improved battery life and the emergence of LPWA technologies are expected to impact the market positively and foster wide-spread adoption of cargo tracking solutions in the coming years.

This report answers the following questions:

- Which are the leading providers of trailer and cargo container tracking solutions?
- What offerings are available from device vendors and service providers?
- What impact will international regulations and security initiatives have on the market?
- What are the key drivers behind the adoption of cargo tracking devices?
- What are the latest trends on the cold chain monitoring market?
- What are the recent merger and acquisition activities on this market?
- What impact will technology advancements have on the market?
- How will the cargo telematics industry evolve in the future?

Executive Summary

1 Global freight transportation overview

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 - 1.2.2 Container manufacturers
 - 1.2.3 Container ownership structure
 - 1.2.4 Container ships
 - 1.2.5 Container shipping companies
 - 1.2.6 Container leasing companies
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 - 1.4.2 Freight forwarders
 - 1.4.3 Customs and regulatory authorities
 - 1.4.4 Terminal operators and ground handlers

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- 2.3 **Security management**
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 - 2.3.2 Terrorism and illegal and dangerous goods security
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 - 2.4.1 Container and trailer fleet management
 - 2.4.2 Container and trailer transport management
- 2.5 **Regulatory compliance and reporting**
 - 2.5.1 Supply chain security and environmental programs
 - 2.5.2 Tax collection
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 - 2.6.3 The Cassandra project
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 - 2.6.7 The SaMoLoSa project
 - 2.6.8 The US Department of Homeland Security's Cargo Security Programs
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 - 2.6.10 The Apex-Secure Transit Corridors Project
 - 2.6.11 The NexTrust project
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 - 2.6.13 Container 42
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4 European solution providers

- 4.1 **Agheera**
- 4.2 **Arviem**
- 4.3 **Bosch**
- 4.4 **BT9**
- 4.5 **CargoGuard**
- 4.6 **Controlant**
- 4.7 **CLS Group**
- 4.8 **DHL**
- 4.9 **DOT Telematik**
- 4.10 **EPSa**
- 4.11 **Globe Tracker**
- 4.12 **Hanhaa**
- 4.13 **Hirschmann Mobility (TE Connectivity)**
- 4.14 **Idem Telematics**
- 4.15 **Identec Solutions**
- 4.16 **Intermodal Telematics**
- 4.17 **Kirsen Global Security**
- 4.18 **Kizy Tracking**
- 4.19 **KPN**
- 4.20 **LOSTnFOUND (fleet.tech)**
- 4.21 **Maersk Line**
- 4.22 **MECOMO**
- 4.23 **Next4**
- 4.24 **Nexxiot**
- 4.25 **Ovinto**
- 4.26 **RM2**
- 4.27 **SAVVY Telematic Systems**
- 4.28 **Schmitz Cargobull**
- 4.29 **SecureSystem**
- 4.30 **Sensire**
- 4.31 **Siemens**
- 4.32 **Sycada**
- 4.33 **Transics (WABCO)**
- 4.34 **Traxens**
- 4.35 **Trusted**
- 4.36 **TSS**
- 4.37 **Ubidata**
- 4.38 **Zenatek**

5 North American solution providers

- 5.1 **7PSolutions**
- 5.2 **Amsted Rail**
- 5.3 **AT&T**
- 5.4 **Ayantra**
- 5.5 **BlackBerry**
- 5.6 **BSM Technologies (Geotab)**
- 5.7 **CalAmp**
- 5.8 **Ctrack (Inseeego)**
- 5.9 **DeltaTrak**
- 5.10 **Digi International**
- 5.11 **Digital Communications Technologies**
- 5.12 **Emerson**

- 5.13 **Fleet Complete**
- 5.14 **Fleetilla**
- 5.15 **Geoforce**
- 5.16 **Globalstar**
- 5.17 **Hi-G-Tek**
- 5.18 **Honeywell**
- 5.19 **Intelyt**
- 5.20 **Nortac Defence**
- 5.21 **Omnitracs**
- 5.22 **OnAsset Intelligence**
- 5.23 **ORBCOMM**
- 5.24 **Pallet Alliance**
- 5.25 **PalleTech**
- 5.26 **Phillips Connect Technologies**
- 5.27 **PowerFleet**
- 5.28 **Purfresh**
- 5.29 **Quake Global**
- 5.30 **Roambee**
- 5.31 **RSAE Labs**
- 5.32 **Samsara**
- 5.33 **Savi Technology**
- 5.34 **Sendum Wireless**
- 5.35 **Sensitech**
- 5.36 **Sierra Wireless**
- 5.37 **SkyBitz (Ametek)**
- 5.38 **Spireon**
- 5.39 **SpotSee**
- 5.40 **Teletrac Navman**
- 5.41 **TGI**
- 5.42 **Thermo King (Ingersoll Rand)**
- 5.43 **Trimble**
- 5.44 **Wireless Links**
- 5.45 **Zest Labs (Ecoark)**

6 Rest of World solution providers

- 6.1 **Arknav**
- 6.2 **CartaSense**
- 6.3 **Contguard**
- 6.4 **Cooltrax**
- 6.5 **Eliron**
- 6.6 **Envotech**
- 6.7 **Globaltrack**
- 6.8 **Loginno Logistic Innovation**
- 6.9 **MiX Telematics**
- 6.10 **Pointer (PowerFleet)**
- 6.11 **Queclink Wireless Solutions**
- 6.12 **Satlock**
- 6.13 **Sony**
- 6.14 **Starcom Systems**
- 6.15 **Swinnus**
- 6.16 **TPL Trakker**
- 6.17 **Tracertrak (Pivotel)**
- 6.18 **ZillionSource Technologies**
- 6.19 **ZIM**

Glossary

About the Author



Martin Bäckman is a Senior Analyst with a Master's degree in Industrial Engineering and Management from Chalmers University of Technology. He joined Berg Insight in 2018 and his areas of expertise include the container and trailer tracking, people monitoring, smart homes and connected wearables markets.

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