



2020 Product Catalog

A Solution for every fleet...

Track Star International, Inc. has been a leader in the field of GPS technologies since 2000. We are proud to present our 2020 Product Catalog, containing our complete array of products and services. Our wide range of products provides the perfect solutions for GPS-based Fleet Management for every fleet. We've never lost sight of our mission to provide you with the most advanced technologies while maintaining our position as the Value Proposition Leader in the field of GPS-based Fleet Management solutions.



Track Star International, Inc

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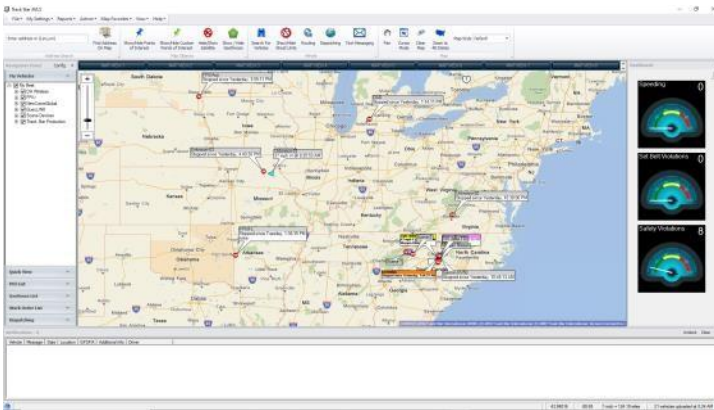
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Track Star AVLS—Automatic Vehicle Location System

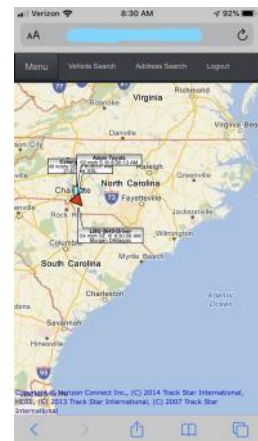
Track Star AVLS has been the standard-bearer for the Company since its inception in 2000. This powerful and full featured software system provides a singularly wide range of features and functions that allow it to be as exceptionally flexible and powerful as it is cost-effective. This product has evolved with the changes in technology and represents a hallmark in functionality in the GPS Fleet Management market.



Track Star AVLS is available in a variety of deployment architectures that meet the requirements of a wide range of applications. As an **on-premise** solution, it delivers the highest degree of security, flexibility and functionality at the lowest possible cost of operation. Now also available as a **cloud-hosted** implementation, customers can avail themselves of ease of implementation and a feature set that is without equal, while still enjoying a **cost-effective** solution.

The range of functions and capabilities of the AVLS system is extensive. Chief among these are:

- On-premise or cloud-hosted (AWS) architectures
- Thick Client (Windows) and Thin Client (web browsers, mobile devices)
- Real-time GPS based tracking for a wide variety of devices to fit any application
 - Vehicles, equipment, aircraft, assets, personnel, suspect vehicles, K9
- High quality map data (updated quarterly) and aerial imagery
- Custom map use (ESRI Shapefile, WMS sources) **on-premise only*
- Full Geo-fencing functions with real-time notifications
- Replay functions with video file export function
- Fully definable device inputs, notifications and alerts (email and text)
- Dashboarding features
- Driver ID and safe driving functions
- Comprehensive report functions
- On-premise SQL historical database with unlimited retention (cloud-hosted 1 year max)
- Extensive user permissions controls, vehicle visibility controls via group policies
- Internal policies or Windows Active Directory
- FIPS Compliant
- CAD Interfaces—ARMS, TAIP
- **LOW COST OF OPERATION**





Track Star AVLS Ancillary Applications

TAIP Forwarder

Track Star offers the TAIP Forwarder to provide the AVLS system with the ability to echo received location data out to CAD systems in the widely accepted TAIP protocol. This allows the location data received in AVLS, regardless of form or originating device, to be shared in real-time with Computer Aided Dispatch systems in a form that most CAD systems are able to process. This application also has the ability to forward data from vehicles to different CAD systems depending on presence inside geo-fences.

GPS Data Forwarder

The GPS Data Forwarder application is designed to be installed on Windows laptop computers equipped with internal or external GPS receivers so that they are able to transmit tracking data to the AVLS system. This product runs as a Windows Service so that it starts automatically. It also provides programmable function keys and a two-way messaging function to the AVLS system. Local GPS data received by the Forwarder is able to be displayed on the **Track Star AVLS Thick Client** if it is also installed on the laptop to provide real-time “self-visibility” functions.

AVLS Server Only

Track Star also offers the AVLS Server product as a stand-alone product. This is ideal for users who wish to build their own user interface applications and websites. The AVLS Server receives GPS data from a wide range of devices and decodes that data before placing it in a SQL data- base. Data elements in the database are the same regardless of type of device or brand of device generating the data. Database data is recorded in native latitude / longitude form to make it easy to use the collected data in self-developed user interface.

AVLS Server with TAIP Forwarder

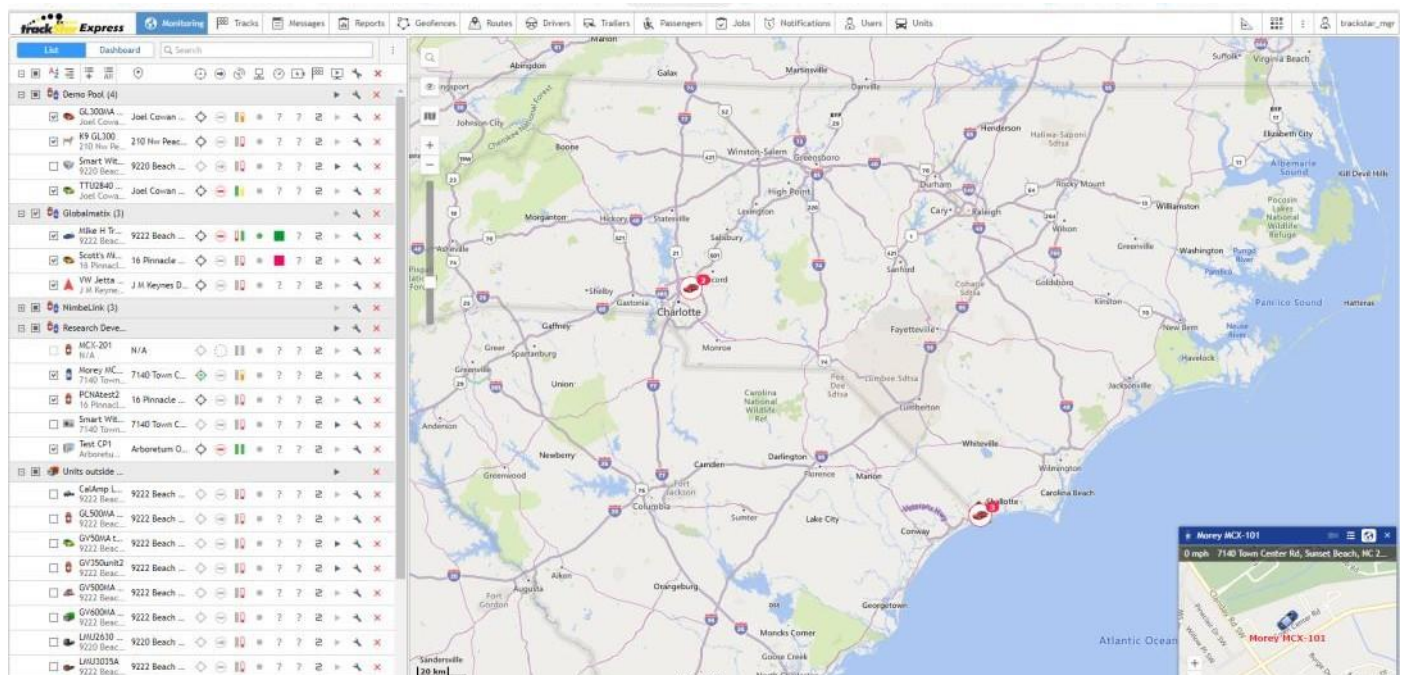
Track Star bundles the AVLS Server and TAIP Forwarder products together in a package intended to allow CAD systems to receive data from devices that the CAD system would otherwise not be able to support. This product is often used to allow our Covert Suspect Vehicle tracking devices and K9 tracking devices to send location data from the devices to the CAD system without having to implement a complete AVLS instance. CAD systems generally don't support the wide variety of protocols that many tracking products utilize. **Track Star** has solved that problem with this bundle, which is successfully being used to bring unsupported GPS data into a variety of CAD platforms.



Track Star Express

Track Star Express is an entirely web-based GPS Fleet Management solution that rounds out the range of system architectures offered by **Track Star**. This powerful yet cost-effective solution is accessed using a web-browser or a mobile application and it offers the full range of functions needed to effectively manage any type of fleet. The system contains specific functions for sales, service and repair fleets, transit fleets and transportation fleets.

In **Track Star Express**, customers are able to select from among a wide range of devices across a broad scope of cost points and capability features. These include tracking devices for vehicles, equipment, assets



and personnel, but also extend to integrated GPS Dash Cams, ELD solutions and even specialized equipment such as passenger counters.

This system offers a full range of driver and trailer binding abilities as well as route definition and deviation detection. Comprehensive geo-fencing and notification features are also provided. Reports in this system can be customized by the end-user and generated according to schedules, delivered automatically via email.

Track Star Express is the perfect solution for a wide range of fleet applications. It is simple and easy to implement, has no “up-front” software costs and is available with service plans that include **Track Star** cellular service plans. A wide array of devices, highlighted elsewhere in this catalog, is also available to meet the varying needs of different applications and asset types.



ELD Solution



Track Star's ELD Solution provides an easy to use and **cost-effective** way to implement an ELD system that is fully FMCSA compliant and meets the mandate requirements for such a system. Each driver in the fleet uses the application to record and manage HOS and DVIR functions required by FMCSA. The app operates on Android and iOS handheld devices and interfaces with Track Star supplied engine connectivity hardware to ensure that the system is aware of all required vehicle parameters. HOS alerts are generated on the app well in advance of any violation so that the driver is continually aware of compliance with applicable standards of operation. Fully compliant log book storage, display and forwarding functions are included in the application so that roadside stops can be conducted quickly and efficiently.

A management console provides **real-time** visibility into the status and activity of all drivers in the fleet, including any HOS alerts that the drivers receive from the mobile app. DVIR results (including up to 9 pictures per inspection) are sent to the management console as are log books. All of these are archived as prescribed.

This tool also provides functions to manage shipments in **real-time**. Drivers or dispatchers can create load manifests which are visible and actionable from both the mobile app by the driver and the management console for dispatch interaction.

Track Star offers this **efficient, easy-to-use and cost-effective** tool with integration into **Track Star Express** and as a companion application to **Track Star AVLS**. The road to compliance with the FMCSA mandate has never been easier!



GPS Dash Cams

Driver safety and **risk mitigation** have always been fundamental functions of the **Track Star** product line and these functions have been dramatically improved with advanced technology. **Track Star** has partnered with Smart Witness, an industry leader in GPS equipped dash cameras, to provide our users with the “next-level” in the field of driver safety and risk mitigation information.



The Smart Witness products are available with 1, 2, 3 or 4 camera sensors so that configurations can be devised to deliver the imagery that you need. From a simple GPS tracking “out-the-windshield” view to a four camera

solution for outside and inside visibility, **Track Star** and Smart Witness can provide what you need. There is an optional in-vehicle monitor to give the driver real-time 360 degree views around the vehicle.



All of the Smart Witness products are based around GPS and LTE cellular technologies. These combine to provide real-time vehicle tracking. In addition to GPS tracking, these products are configured to continuously record high-resolution imagery, accelerometer data and speed information onto an SD memory card locked inside the device with a security key. In addition, the products transmit a video segment to the **Track Star Express** (*Track Star AVLS coming in 2020*) system when specific events (crash, hard deceleration, hard acceleration, etc.) occur. This gives the dispatcher **real-time visibility** of the imagery at the console when an event occurs. Event videos are 20 seconds in duration—10 seconds prior to the event and 10 seconds after the event.



Recorded video is accessed from the SD card in the devices. SD Cards are available in a variety of capacity sizes, allowing long recording durations before overwriting older data. An application is provided in which this video from all cameras is replayed synchronously with the recorded accelerometer and speed data. This data is extremely useful in documenting exactly what took place in the vehicle at any given time and is often used to mitigate fault in cases of collisions or accidents.

Track Star's GPS Dash Camera solutions offer you the ultimate level of **driver safety** and **risk mitigation** at **extremely competitive cost points**. We can **tailor a solution** to meet the needs of any fleet, delivering the highest levels of technology in easy-to-use systems unlike anything else you'll find available.



Aviation / Remote Worker Tracking



Track Star has met the challenge to deliver a device that allows our customers to track two of most difficult types of moving assets—aviation assets and workers deployed to remote locations. The challenges for both types of assets are quite similar actually in that they both involve the ability to track the asset when cellular service is available and when it is not. We have met this challenge with a single device that meets the needs of both applications by designing a portable device with both cellular and satellite communications technologies.

There are other desired attributes of such a solution that are common to both applications beyond continuous communications capability. Both applications require flexibility in power supply, rugged and durable yet portable construction and simplicity of use. Our device meets those requirements as well.

Housed in a durable and weather-resistant portable case, the device offers the ability to be powered by an included 12 VDC cigarette lighter power cable, a USB power interface cable and a removable, re-chargeable Lithium Ion battery pack. The device contains both cellular and Iridium satellite communications equipment and a high-accuracy GPS receiver. It transmits location data using cellular technology whenever it is available but switches automatically to Iridium satellite communication when cellular service is not available, whether that non-availability is due to altitude, remote location or any other factor. A rugged, professional-grade antenna that combines the GPS and Iridium satellite functions is provided.

The device also includes a “**panic button**” and **sounding device** which can be used to signal to the **Track Star AVLS** application that help is needed complete with location information. The sounding device is used to make the operator aware that the call for help is being transmitted.

For aviation applications, the device is equipped with its own internal **ADS-B** Out receiver. The data captured from this receiver is available via a USB connector. This feature is provided for observer use in the aviation use-case. It enables the observer to plot the location of other aircraft in the vicinity to maximize operational safety.

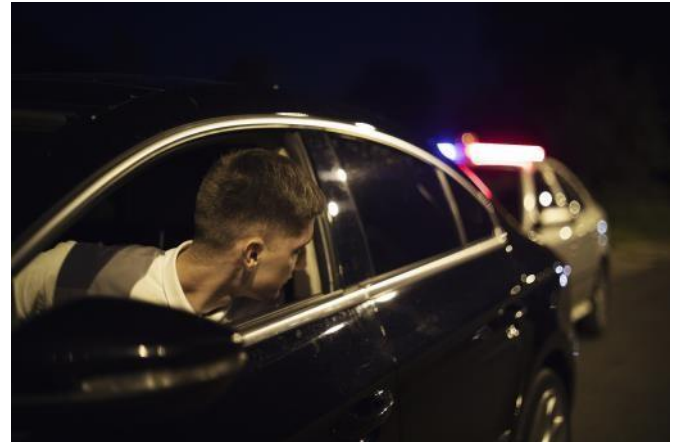
The **Track Star AVLS** application has features specific to the aviation role as well. Aviation assets display in the application with speeds in Knots and altitude data is also displayed. The onboard observer is able to use the new **Track Star Thick Client** application even when not connected to the **Track Star AVLS** system servers so that the view of their own location remains viable in this condition.





Covert Suspect Vehicle Tracking

Track Star offers, in both the AVLS and Express platforms, the right combination of devices and system functions to perform **Covert Suspect Vehicle Tracking** for our Law Enforcement users. We offer a number of economical self-powered devices that attach to suspect vehicles magnetically. Powerful tools in both of our platform architectures permit surveillance of suspects. Additionally, the suspect data can be used in CAD systems using our variety of ancillary software products. This feature is available only to accredited Law Enforcement Agencies.



K9 Tracking



Track Star also offers, in both the AVLS and Express platforms, a device suitable to permit the real-time tracking of K9 officers. The device is **collar-worn and rechargeable**, as well as small and light. Tracking information from the device is used in all of the features of both of our architecture solutions and the data from them can be used in CAD systems using our variety of ancillary software products.

Cellular Data Services

Among the wide range of products and services that **Track Star** offers is **cellular data services** for the devices that our customers use in their systems. We offer a wide range of LTE **machine-to-machine** data plans that operate both **domestically** as well as **internationally**. We are able to provide carrier-specific plans, as well as multinet plans, that provide users with significant savings over the plans available directly from cellular carriers yet provide the same coverage and reliability of service that you need for your mission-critical data communications. These data plans are included in our all-inclusive service packages for the **Track Star AVLS** and **Track Star Express** product lines.



Asset Tracking

While most **Track Star** users have a primary interest in tracking vehicles, there are instances where visibility of mission-critical or high-value assets is also desired. In both **Track Star AVLS** and **Track Star Express**, a range of devices designed to provide location and movement information related to assets is available. These asset tracking devices are applicable to tracking equipment, shipments, goods-in-transit and other assets. The devices offer a variety of power options, reporting capabilities, attachment methods and physical sizes to meet almost every imaginable requirement.



Smart Phone Tracking



Being able to remain aware of the status of remotely deployed workforces is one of the primary reasons that users employ **Track Star** systems. In some cases, being aware of the location and movement of a vehicle is not enough to ensure the safety and productivity of a workforce. To solve this requirement, **Track Star** has developed apps for **Smartphones** that allows the device to transmit location and other information to the Track Star system in use. In the **Track Star AVLS** system, we offer an application that transmits location data during scheduled work hours from Android Smartphones and provides an emergency signaling function. When used with the Sonim® XP Series of Smartphones, this emergency signaling function uses the “**red button**” on that device for activation. On other Android devices, an on-screen button activates this feature.

In **Track Star Express**, apps are available for both Android and iOS operating system devices. These apps provide real-time tracking data to the Express platform, enabling visibility of remotely deployed workers even when they are separated from vehicles.

This collage displays a variety of electronic components and devices, primarily related to navigation and communication. The items include:

- Black rectangular modules with connectors (top left).
- A tan-colored module with a mounting bracket (top center-left).
- A blue module with a connector (top center-right).
- A black module with a connector (top right).
- A black module with multiple ports and connectors (second row, left).
- A black module with "SIERRA" branding (second row, center-left).
- A black module with "SIERRA WIRELESS" branding (second row, center-right).
- A black module with a connector (second row, right).
- A black module with "SIERRA" branding (third row, left).
- A black module with "SIERRA WIRELESS" branding (third row, center-left).
- A black module with "cradlepoint" branding (third row, center-right).
- A black module with multiple connectors (third row, right).
- A black module in a protective case (fourth row, left).
- A black module with a label (fourth row, center-left).
- A black module with a connector (fourth row, center-right).
- A black module with a connector (fourth row, right).
- A black module with a connector (fifth row, left).
- A black module with a connector (fifth row, center-left).
- A black module with a connector (fifth row, center-right).
- A black module with a connector (fifth row, right).
- A black module with a connector (bottom row, left).
- A black module with a connector (bottom row, center-left).
- A black module with a connector (bottom row, center-right).
- A black module with a connector (bottom row, right).



Track Star—A Story of Growth and Innovation

Track Star International, Inc. was founded in 2000 and has, since that time, served customers in a number of market segments with state-of-the-art GPS fleet management solutions. The hallmark of the **Track Star** products has been, and will always be, to provide our customers with the **most capable and cost-effective** solutions in the field of GPS-based technologies. This philosophy is reflected in our Mission Statement:

"At Track Star we strive each day to constantly improve our position as the Value Proposition Leader in the fields of vehicular GPS technology, digital mapping and communication. We have attained this position by providing, in conjunction with our partners, not only leading edge technology, but the flexibility to meet the varied needs of our many customers, as well as we do it all while providing our reliable services at significantly lower costs of operation than our competition."

In this Catalog, you will find that **Track Star** has substantially grown the range of products that we offer to the point that we can provide our strong technical heritage and years of experience to any fleet. There is no other place that a potential user of GPS technology can go and find such a complete array of products and services to meet their specific requirements.

Track Star products are available directly from us as well as from any of our carefully selected, full-service dealers. Our dealers add value to our products by offering additional services often desired in conjunction with the implementation of our products. You can find our dealers on our **Track Star website** using this link: <https://trackstar.com/sales-distribution.php?Track-Star-Dealer-Network-and-Opportunities-6>

Track Star has evolved over these **20 years** and we will continue to evolve to embrace the emerging technologies of tomorrow. This Catalog is something of a snap-shot. To keep abreast of our product and service enhancements and developments, please join our mailing list by visiting the website www.trackstar.com and entering your information in the "Sign up for Track Star International, Inc. News" at the bottom of the home page. You will receive, by email, our quarterly newsletter which is the best way to stay up-to-date as our products and services evolve.

A handwritten signature in blue ink, appearing to read 'Michael B. Hughes'.

Michael B. Hughes

President & Founder

Track Star International, Inc.

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