



## **Hosted and Autonomous Gateway / Server Options**

Track Star International, Inc. offers users of the Orion AVL Software system two choices for Gateway / Server operations. The options available are Hosted and Autonomous. This document serves to provide details related to each option available to our users.

### **Hosted Gateway / Server**

Track Star International, Inc. provides the landing site for data generated by the AVL equipment installed in your vehicles. The data related to your vehicles is then forwarded to your copy, or copies, of either the Track Star Orion client software or the Track Star Orion DB Processor, depending on the deployment scenario implemented at your installation site. This is a fully automated process, available 24 hours a day, 7 days a week, 365 days a year<sup>1</sup>, and is offered to those customers who cannot or do not desire to provide a landing site for the data.

Customers electing to make use of the Hosted Gateway / Server option are relieved of the need to provide a full time, always-on computer asset and connection in order to receive AVL data from vehicle devices. This feature is popular with small fleet operators and with organizations of all sizes where computer resources are limited or restricted or where a staged deployment leading to eventual autonomous operations is envisioned.

Annual license fees include the data forwarding services provided.

### **Autonomous Gateway / Server**

For users who desire to operate their own gateway / server, Track Star International, Inc. offers the required gateway / server software products. In this deployment model, the AVL data from the vehicle fleet is delivered directly to a computer asset, equipped with a fixed IP address and constant connectivity at the customer location.

It is recommended that this gateway / server be available full time. Should an outage occur, the AVL devices will store positional data for a finite period of time

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<sup>1</sup> According to the terms and conditions of the Track Star Service Agreement.

and will automatically deliver the stored positional data when the gateway / server is again available.

Customers opt to host their own gateway / server capability for reasons of lower operating costs, fleet size and network / data security issues.

Annual license fee do not include data forwarding services provided to Hosted Gateway / Server users.

### **Understanding Track Star Orion System Data Flow**

The Track Star Orion system is one which relies on a unique data flow system for its operation. Data from AVL devices is transmitted via the wireless carrier to the Gateway / Server using UDP packet protocol. This transmission is directed to the fixed IP address and port number assigned to the Gateway / Server application. The Gateway / Server then transmits the location data to copies of the Track Star Orion DB Processor and / or Track Star Orion DB Processor applications (as appropriate). The Track Star Orion DB Processor, whether a stand alone instance or as an integral part of the Track Star Orion Client software enters incoming data into the database (Microsoft Access or SQL are currently supported). This database is the data source for report generation and other actions by the Track Star Orion Client Software. In all cases the database resides at the customer location.

The Track Star Orion Client software, when running, receives incoming positional data from the Track Star Gateway / Server and displays that data geographically on computerized maps. Each copy of the Track Star Orion Client software presents a list of AVL units that it has the rights to view to the Gateway / Server when it initializes. It is through this mechanism that the Gateway / Server knows which copies of the Client software that it needs to transmit location information to.

If no authorized DB Processor is available to receive incoming positional data, that data is stored on the Gateway / Server until an instance of DB Processor is present with rights to that data. When this occurs the stored data is forwarded to the DB Processor and the data is recorded to the database.