



xeos

BY SATLINK

Iridium Doppler Position

With each transmitted Iridium Short Burst Data (SBD) message, the Iridium Gateway attempts to calculate an Iridium transceivers' position on Earth. While it can be very inaccurate, it can be utilized as a back-up position if the device is unable to self-locate.

Previously, this information was only visible to users receiving emails directly from Iridium. As of November 2025, a new tab on XeosOnline provides this information. This new **Iridium Header** tab presents the information below. This record is meant to *supplement* messages transmitted from the device (see the **Message Log** and **Location Log**).

If this feature is not desired, the Iridium provider for the device can disable the sharing of this position information with XeosOnline at the contract level. (Include Geo Data option).

Time of Session	The time the message arrived at the Iridium Gateway (UTC)
Doppler Latitude/Longitude	The position of the device as estimated by the Iridium network. It is NOT the GNSS position measured by the device (if equipped with GNSS hardware).
CEP Radius (km)	Circular error probable - The numerical value of how accurate the above position is. With the Lat/Long as the centre, the device is in a circle with a radius of the CEP value, with 80% confidence. The higher this value, the larger the circle, the less accurate that position.
Session Status	Each message will have a numerical code determined by how well the message was received: 0: Transfer OK 2: Transfer OK, Bad Location (CEP estimation is high, or cannot be calculated) 13: Incomplete Transfer