

Calix/GPR2032H Persistent Inquiry Approval (PIA) - Geolocation General Description

Request: A general overview of the method used by the 6SD (standard power AP) and 6FX (fixed client) for the geolocation capability to automatically determine the device's geographic coordinates.

Reply: The Calix/GPR2032H is a standard power AP (6SD) equipped with an embedded GPS module and an integral antenna. GPS is commonly chosen for providing geolocation due to its global coverage and high accuracy, ensuring accessibility in various geographical locations. By receiving signals from GPS satellites, our GPS module can automatically determine the device's geographic coordinates without the need for manual operation. Once the GPS module establishes the geolocation information, our AP communicates with an FCC-approved Automated Frequency Coordination (AFC) server for authorization. Importantly, radio frequencies are not transmitted to other devices without authorization from the AFC server.

Request: Attestation confirming the location uncertainty with a 95% confidence level

Reply: The geolocation capabilities of the Calix/GPR2032H have undergone rigorous testing and validation. In our Geolocation Justification Report document, we present exhaustive statistical data along with a detailed calculation methodology to substantiate the location uncertainty, confidently establishing it at a 95% confidence level.

Request: State that daily and after a power cycle operation, AFC confirmation will be performed

Reply: The Calix/GPR2032H will perform AFC confirmation daily and after power cycle by communicating with AFC server directly. AFC authorization/re-authorization will only be performed after the GPS geolocation is ready. It's important to note that the transmission of radio frequencies is strictly controlled and will not occur without AFC authorization.