

731 Exhibit 1: Geolocation General Description

A general overview of the method used by the GSD (standard power AP) and GFX (fixed client) for the geolocation capability to automatically determine the device's geographic coordinates

Juniper proposes a system that will use 6SD standard power access points with internal GPS (anchor APs) and separate APs without internal GPS (dependent APs) that will determine their location based on the distance from the anchor APs. The uncertainty of the coverage area with a 95% confidence level of the system will account for both the anchor APs and dependent APs.

Juniper APs using the Airoha AG3335M GPS SOC will be class 6SD standard power access points. The geolocation data for Juniper APs using the Airoha AG3335M GPS SOC shall be obtained from an internal GPS SOC. This designated GPS SOC is on by default for every Juniper AP using the Airoha AG3335M GPS SOC unit. The internal GPS SOC picks up GPS satellite radio frequencies, and calculates its location based on triangulation between at least 4 satellites. Juniper APs using the Airoha AG3335M GPS SOC will use GPS 3D-Fix mode to retrieve the geolocation information. This geolocation information includes, but is not limited to, longitude, latitude, and height.

The Juniper AP using the Airoha AG3335M GPS SOC will then serve as the “anchor AP” to determine the location information for dependent APs that do not have an imbedded GPS capability. The geolocation of the dependent APs will be determined through automatic measurement of distance from them to the anchor AP, and the geographic information includes, but is not limited to, longitude, latitude, and height. Distance will be measured using 802.11mc, 802.11az, and/or Bluetooth Low Energy (BLE), which will provide an x/y vector. A dependent AP will be installed no less than 8 meters and no more than 25 meters from its anchor AP as measurement is precise at these distances using these protocols.

Attestation confirming the location uncertainty with a 95% confidence level

Juniper AP using the Airoha AG3335M GPS SOC will provide geolocation accuracy rate of at least 95% confidence level. The Geolocation Justification Report from Sporton Lab, attached as Appendix A: Geolocation Accuracy Test Description, provides statistical data to demonstrate that the geolocation accuracy of Juniper APS using the Airoha AG3335M GPS SOC is at least 95%. The 95% confidence contour of the dependent AP is then calculated by adding the measured separation distance between the anchor AP and the dependent AP to the 95% confidence contour of the anchor AP alone, thus expanding the 95% confidence contour to cover the location of the dependent AP.

The 95% confidence level includes the dependent AP(s) locations in the coverage area reported to the AFC. The anchor AP with geolocation capability has an accuracy rate of at least 95% confidence level, and thus the dependent APs will have that accuracy rate. Because the distance between the dependent AP and anchor AP is known, the dependent AP's location can be assessed with a 95% confidence level as well and included in the coverage area reported to the AFC.

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

Dependent APs will automatically determine their location based on the Juniper AP

using the Airoha AG3335M GPS SOC through GPS. Pursuant to 10.2.3, with every power cycle operation, the dependent Juniper AP will determine its location through GPS and re-authorize to the AFC system.

AFC authorization/re-authorization will be performed after the GPS geolocation is obtained after each power cycle procedure.

If no power cycle happens and the location has not changed, during the daily AFC check the Juniper AP will send the same location information to the AFC system.