



Qualcomm Technologies, Inc.

Qualcomm Geolocation Feature Regulatory Certification Procedure

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July 25, 2024

Revision history

Revision	Date	Description
AB	July 2024	Add ISED content in section 4
AA	February 2024	Initial release

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1 Introduction

Qualcomm Technologies, Inc. (QTI) is a Wi-Fi chipset manufacturer for both access points (AP) and client equipment that operates in the 6 GHz band. Additionally, Qualcomm maintains an Automated Frequency Coordination (AFC) Service to manage spectrum access for the 6 GHz band. Qualcomm's AFC service is complemented by Qualcomm's AFC Geolocation Services where APIs can be licensed to provide one or more geolocation services such as device location and device elevation.

Regional regulators have specific certification procedures for devices that utilize one or more geolocation services to determine location for the purposes of communicating with an AFC for a 6 GHz channel allocation.

This document defines the documents Qualcomm makes available to OEMs and the regulator specific procedures for equipment authorizations.

The regulatory current scope of this document includes:

- FCC for the US
- ISED for Canada (placeholder for upcoming procedure)

2 Geolocation Regulatory Certification Documentation

Qualcomm worked with regulators to understand and approve geolocation feature documentation required for equipment certification procedures in respective regulatory markets.

Qualcomm will make the required documentation for a regulatory approval available to an OEM to completed required documentation.

Qualcomm confidential documents include proprietary information and can only be submitted as long term confidential documents in regulatory submissions unless otherwise specified by Qualcomm. Only one the general description document, as described in the following section, can be submitted to a regulator as a public facing document.

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3 FCC (US) Procedure to use a Qualcomm Geolocation Feature

As required by [FCC KDB 987594 D01](#), an approved FCC Persistent Inquiry Approval (PIA) for geolocation features used for AFC communication is required for a device FCC equipment authorization.

For a given geolocation PIA, there are 4 documents that must be included with an equipment authorization. Three of the documents must be filed as long term confidentiality and the fourth should be filed as short term confidentiality. [Table 3-1](#) summarizes the documents and submission requirement.

Qualcomm's geolocation feature may not provide the full geolocation requirement of latitude, longitude, and elevation. In this situation, the host product must use more than one solution where a PIA is required for each geolocation feature. Thus the FCC certification documentation must describe the overall system geolocation system design and include required PIA documentation for all utilized geolocation features.

Example: A product uses API#1 to determine for location latitude/longitude and API#2 to determine device elevation. The system integrator must document how API#1 and API#2 are both used to determine the location and provide the FCC approved PIA documentation for both geolocation features in the equipment authorization documentation.

The Qualcomm PIA number can only be shared with the FCC, a TCB, and within the OEM company. **The PIA number cannot be shared with any other entity or in the public domain.**

Table 3-1 FCC Geolocation PIA Document Requirements

Document Source	Document	FCC Submission Confidentiality Requirement
FCC/Qualcomm	Qualcomm PIA acceptance letter from the FCC	Must be filed as long term confidential
FCC/Qualcomm	Copy of PIA inquiry	Must be filed as long term confidential
Qualcomm	Qualcomm Geolocation Justification Report	Must be filed as long term confidential
Qualcomm	Qualcomm General Description (public facing)	Public with Short term confidentially optional
Integrator	Document describing one or geolocation more features used to determine location.	Public with Short term confidential optional. Cannot mention Qualcomm PIA #

FCC Process step summary

1. Completed required FCC certification lab testing and compile typical certification documentation
2. Generate documentation describing the geolocation feature, or features, utilized to determine location information for communication with the AFC
3. Submit Geolocation PIA documentation as described in [Table 3-1](#) for each geolocation feature utilized. The exact documentation will vary depending on the product.
 - a. General description is public but can request short term confidentiality
 - b. The PIA acceptance letter, PIA inquiry, Qualcomm justification report **must be filed as long term confidential. Any reference to the PIA number must be in a long term confidential document.**

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4 ISED (Canda) Procedure to use Qualcomm Geolocation Feature(s)

ISED has reviewed and approved use of Qualcomm's geolocation features.

The process to utilize the geolocation features is essentially the same as the FCC but with different document submission requirements where the technical documents are reused from the FCC but an ISED approval letter must be submitted as described in Table 4-1.

Table 4-1 FCC Geolocation PIA Document Requirements

Document Source	Document	FCC Submission Confidentiality Requirement
ISED/Qualcomm	Geolocation acceptance letter	Must be filed as long term confidential
Qualcomm	Qualcomm Geolocation Justification Report	Must be filed as long term confidential
Qualcomm	Qualcomm General Description (public facing)	Public with Short term confidentially optional
Integrator	Document describing one or geolocation more features used to determine location.	Public with Short term confidential optional.

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