



# Find My Network Accessory Self-Certification Test Cases

Release R1.7

For use with Find My Certification Assistant (FMCA) and Find My Network Accessory Specification

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Beacon States Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCB001	2.7.1 Unpaired	Verify that the accessory is in an unpaired state on first boot or before setup is completed. Accessory must enable the user to set up the accessory using the Apple Find My app, both out of the box and after every factory reset, without requiring additional setup procedures.	<p><b>Perform this test case with the Find My app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Power on accessory.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect.</li> <li>Select X to Cancel setup.</li> <li>Select Add Item, and select Connect.</li> <li>Name the item, select Continue, and complete the setup to add to Find My.</li> <li>Under "Items," select the accessory, and select Play Sound.</li> <li>Verify sound (or vibration) is heard.</li> <li>In the Find My app, scroll down, and select "Remove Item."</li> </ol>	
TCB002	4.9 Service availability	While the accessory in a Connected (non Owner) state, verify the following Services and Characteristics are available. Find My Network Service - Non owner control point - Paired owner information control point Accessory Information Service - All characteristics	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Disable Bluetooth on device A from the iOS settings.</li> <li>Power cycle the accessory or wait until the accessory transitions into separated mode.</li> <li>From a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify accessory is listed as "Separated," and then select the accessory.</li> <li>Verify Accessory Information is populated.</li> <li>Under Service Availability verify the following characteristics: Pairing - Not Available* Configuration - Not Available* Paired Owner Info - Available Debug - Available in debug version only Firmware Update Data - Not Available</li> </ol> <p>* If accessory is not able to dynamically update the Pairing and Configuration characteristics under the Service Availability, please verify test cases TCB004 and TCB009 pass successfully.</p> <ol style="list-style-type: none"> <li>Under Non Owner Control Point verify the "Present Unwanted Tracking Alert" is available (blue).</li> <li>Enable Bluetooth on device A from the iOS settings to connect back to the accessory.</li> </ol>	
TCB004	2.7.2 Connected	Once paired, verify that the accessory does not pair with another Apple device for Find My network functions.	<p><b>Perform this test case with the Find My app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>From iOS device B, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and verify the accessory is not listed. If it is listed, try to complete pairing and verify pairing is rejected.</li> </ol>	
TCB005	2.7.3 Nearby	Verify that motion detection is disabled on the accessory in Nearby state. Verify that the accessory enters Nearby mode immediately after disconnection and can re-enter the connected state from a Nearby state.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Disable Bluetooth on device A from the iOS settings.</li> <li>From a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby."</li> <li>Move the accessory <math>\pm 10^\circ</math> orientation along any two axis.</li> <li>Verify no sound (or vibration) is heard when after moving the accessory.</li> <li>Enable Bluetooth on device A from the iOS settings.</li> <li>From iOS device A, launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby." Alternatively, from a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby." *Swipe down from the top of the screen to refresh the FMCA app.</li> <li>From device A, launch the Find My app.</li> <li>Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound (or vibration) is heard. *Applies to accessories that support sound maker.</li> </ol>	
TCB006	2.7.2 Connected	Verify that motion detection is disabled on the accessory and the advertising payload is set to the Nearby key while in a Connected state.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound (or vibration) is heard. *Applies to accessories that support sound maker.</li> <li>Launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby." Alternatively, from a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby."</li> <li>Move the accessory <math>\pm 10^\circ</math> orientation along any two axis.</li> <li>Verify no sound is heard after moving the accessory.</li> </ol>	

Beacon States Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCB007	2.7.2 Connected	Verify that the accessory supports simultaneous connections to two Apple devices on the same Apple ID account.	<p><b>Perform this test case with the Find My app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>From a second iOS device B, log into the same Apple ID account as device A.</li> <li>From iOS device A, open the Find My app. Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound is heard from the accessory. *Applies to accessories that support sound maker.</li> <li>Wait for sound to complete.</li> <li>From iOS device B, open the Find My app. Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound is heard from the accessory. *Applies to accessories that support sound maker.</li> <li>Sign out of Apple ID account iOS device B</li> <li>Disable Bluetooth on iOS device A from the iOS settings.</li> <li>From iOS device B, log into the same Apple ID account as device A.</li> <li>From iOS device B, open the Find My app. Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound is heard from the accessory. *Applies to accessories that support sound maker.</li> <li>Enable Bluetooth on device A on the iOS settings.</li> <li>From iOS device A, open the Find My app. Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound is heard from the accessory. *Applies to accessories that support sound maker.</li> </ol>	
TCB008	2.7.4 Separated	Verify that the accessory enters Separated state when it is paired and boots up from a power cycle or other re-initialization procedure	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Disable Bluetooth on device A from the iOS settings.</li> <li>Power cycle the accessory (if supported) or disable and enable the Find My network.</li> <li>From a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Separated."</li> <li>Enable Bluetooth on device A on the iOS settings.</li> <li>From iOS device A, launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby." Alternatively, from a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby." * Swipe down from the top of the screen to refresh the FMCA app.</li> <li>From device A, launch the Find My app.</li> <li>Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound (or vibration) is heard. *Applies to accessories that support sound maker.</li> </ol>	

Beacon States Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCB009	4.6.3.4.3 Set nearby timeout	Verify the transition from nearby state to separated state when the set NearbyTimeOut parameter has reached 0 seconds.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. Please note: execute test case TCP002 and verify it passes prior to starting this test case. A Debug control point enabled sample is required to perform this test case.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Connectivity" under the Topics section.</li> <li>Select "Set Nearby Timeout" under the Topics section to run the test.</li> <li>Select "Tap to Turn Off Bluetooth."</li> <li>Verify "Tap to Turn Off Bluetooth" completed with a green check.</li> <li>From a second iOS device B (on a different Apple ID account), launch the FMCA app.</li> <li>Under "Discovered Items," verify accessory is listed as "Nearby," and then select the accessory. Scroll down and verify the Service Availability section is populated before proceeding to the next step.</li> <li>Select the "Share" icon on the top right corner.</li> <li>Select iOS device A's name to connect and then select "Done."</li> <li>From iOS device A, verify "Confirmed Near Owner" completed with a green check.</li> <li>From iOS device B, under "Discovered Items," verify accessory is listed as "Separated," and then select the accessory.</li> <li>Verify the following information is displayed under Accessory Information: <ul style="list-style-type: none"> <li>- Product Data</li> <li>- Manufacturer Name</li> <li>- Model Name</li> <li>- Accessory Category</li> <li>- Accessory Capabilities</li> <li>- Firmware Version</li> <li>- Find My Version</li> <li>- Battery Type</li> <li>- Battery Level</li> </ul> </li> <li>Under "Non Owner Control Point," select "Present Unwanted Tracking Alert."</li> <li>Select "Sound Start" and confirm sound is played from the accessory.</li> <li>When the "Sound Stop" font changes gray to purple, select "Sound Stop," and confirm the sound stopped playing. *Applies to accessories that support sound maker.</li> <li>Verify both tests completed with a green check.</li> <li>Under "Paired Owner Information," select Get Primary Key.</li> <li>Verify test completed with a green check.</li> <li>Select "Get iCloud ID."</li> <li>Verify test completed with a green check.</li> <li>For accessories that support serial number lookup over BLE. Perform the following step. Select "Get Serial Number." For accessories that support serial number lookup over NFC only, skip to step 24.</li> <li>Verify test completed with a green check.</li> <li>Under the "Configuration Control Point", select "Start Sound." *Applies to accessories that support sound maker.</li> <li>Verify test completed with a green check and that no sound (or vibration) is heard from the accessory.</li> <li>Select "Unpair."</li> <li>Verify test completed with a green check.</li> <li>Select the "Share" icon on the top right corner.</li> <li>Select iOS device A's name to connect and then select "Done."</li> <li>From iOS device A, verify "Confirmed Separated" completed with a green check.</li> <li>Select "Close" on the top left corner.</li> <li>Under the Results section, select "Save Results."</li> </ol>	

Beacon States Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCB010	4.9 Service availability	<p>While the accessory in a Connected (Owner) state, verify the following Services and Characteristics are available.</p> <p>Find My Network Service</p> <ul style="list-style-type: none"> <li>- Configuration control point</li> <li>- Paired owner information control point</li> </ul> <p>Firmware Update (If supported)</p> <ul style="list-style-type: none"> <li>- All characteristics</li> </ul> <p>Accessory Information Service</p> <ul style="list-style-type: none"> <li>- All characteristics</li> </ul>	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Sound" under the Topics section.</li> <li>4. Select "Non-Owner Sound Availability" under the Topics section to run the test.</li> <li>5. Verify results are passing.</li> <li>6. Select "&lt; Accessory Name" to go to the previous screen.</li> <li>7. Select "&lt; Products" to go to the previous screen.</li> <li>8. Swipe down from the top of the screen to refresh the FMCA app.</li> <li>9. Under "Discovered Items," verify accessory is listed as "Nearby," and then select the accessory.</li> <li>10. Verify Accessory Information is populated.</li> <li>11. Under Service Availability, verify the following characteristics are set as following            Pairing - Unavailable*            Configuration - Available            Non Owner - Unavailable*            Paired Owner Info - Available            Debug - Available in debug version only            Firmware Update - Available (If supported)</li> </ol> <p>* If accessory is not able to dynamically update the Pairing and Non Owner characteristics under the Service Availability, please verify results are passing after performing step 4 and test case TCB004 passed successfully.</p> <ol style="list-style-type: none"> <li>12. Select "Save Results" on the top right corners.</li> </ol>	

General Requirements Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCG001	3.2 General	Verify accessory is listed as a qualified end product by the Bluetooth SIG	1. Verify provided BT Sig# information on certificate (or BT Sig website - <a href="https://www.bluetooth.org/en-us/test-qualification/qualification-overview">https://www.bluetooth.org/en-us/test-qualification/qualification-overview</a> ) matches accessory Product Plan (Questionnaire) information.	
TCG002	3.3.5 Find My network disable	Verify that the accessory has a physical mechanism to disable Find My network (e.g. power off button, battery removal) based on user intent.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Physically disable the Find My network on the accessory (e.g. power off button, battery removal).</li> <li>From a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is not listed.</li> <li>From iOS device A, launch the Find My app. Under "Items," select the accessory, and select Play Sound.</li> <li>Verify response "Item Not Reachable" is returned.</li> <li>Enable the Find My network.</li> <li>Select Play Sound.</li> <li>Verify sound (or vibration) is heard.</li> </ol>	
TCG003	3.3.4 Serial number lookup	Verify that the serial number is etched, engraved or directly printed on the accessory. Verify that the serial number is easy to find on the accessory and that it is unique to each sample.	1. Verify that the serial number is etched, engraved or directly printed on the accessory and that it is unique to each sample.	
TCG004	3.3.2 Product-specific requirements	Verify that an accessory that is not "easily discoverable" includes a sound maker and a motion detector to support motion-triggered UT sound alerts.	1. Verify accessory includes a sound maker and a motion detector if it meets all of the following criteria. <ul style="list-style-type: none"> <li>The accessory is ≤ 30 cm in at least one dimension.</li> <li>The accessory is ≤ 18 cm X 13 cm in two of its dimensions.</li> <li>The accessory is ≤ 250 cm<sup>3</sup> in three dimensional space.</li> </ul>	
TCG005	3.3.3 Find My mark	<p>The Apple-provided location icon or the Locate with Apple Find My badge is required on all Licensed Products unless any one of these three criteria are met:</p> <ul style="list-style-type: none"> <li>The Licensed Product always requires Bluetooth pairing before its intended use, and has implemented Find My device naming that indicates it is currently trackable by its owner. For example, Bluetooth wireless headphones meet this criteria.</li> <li>The Licensed Product is a dedicated tracking device which has no purpose other than to locate it using Apple Find My, and it has a motion detector and sound maker. For example, a locator fob that includes motion detection and sound, and is designed to attach to other objects would meet this criteria.</li> <li>The Find My network-enabled Licensed Product is a personal computing device which has internet connectivity that is apparent to the end-user. For example, computers, tablets, and digital watches that offer internet connectivity meet this criteria.</li> </ul>	1. Verify the accessory includes an Apple-provided location icon or the Locate with Apple Find My badge that meets the requirements as indicated in the Works with Apple Find My Identity Guidelines.	
TCG006	4.5 Accessory Information service / 4.5.3 Characteristics	Verify that the accessory supports the Accessory Information service (Primary) and includes mandatory characteristics.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <p><b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</p> </li> <li>Select "Accessory Information" under the Topics section.</li> <li>Select "Get Accessory Information" under the Topics section to run the test.</li> <li>Verify the results include the following characteristics <ul style="list-style-type: none"> <li><b>Product Data:</b> Verify that the Product Data value matches the value assigned to this accessory's Product Plan on the MFi Portal.</li> <li><b>Manufacture Name:</b> Verify the manufacturer name matches the brand on the accessory.</li> <li><b>Model Name:</b> Verify the model name matches the manufacturer specific model of the accessory.</li> <li><b>Accessory Category:</b> Verify the category value set closely resemble the physical product. If none of the accessory categories provided match the physical product, "Other" (128) must be chosen.</li> <li><b>Accessory Capabilities:</b> Verify the capabilities claimed are supported on the accessory. <ul style="list-style-type: none"> <li>Verify <b>Reserved</b> characteristic is missing.</li> </ul> </li> </ul> </li> <li>For accessories that support serial number lookup over BLE. Perform the following step. <ul style="list-style-type: none"> <li>Select "Get Serial Number" under the Topics section to run the test.</li> </ul> </li> <li>For accessories that support serial number lookup over NFC only, skip to step 9.</li> <li>Place accessory into a serial number read state.</li> <li>Verify test completed with a green check.</li> <li>Under the Results section, select "Save Results."</li> <li>Select "&lt; Accessory Name" to go to the previous screen.</li> <li>Select "Firmware" under the Topics section.</li> <li>Select "Firmware Version" under the Topics section to run the test.</li> <li>Verify firmware revision is in the following format: x[y.[z]] and matches the value listed on the Find My Network Compliance Questionnaire.</li> <li>Select "Find My Version" under the Topics section to run the test.</li> <li>Verify Find My Version is set to 1.0.0.</li> <li>Under the Results section, select "Save Results."</li> <li>Select "&lt; Accessory Name" to go to the previous screen.</li> <li>Select "Power" under the Topics section.</li> <li>Select "Battery Type" under the Topics section to run the test.</li> <li>Verify the capabilities claimed are supported on the accessory. i.e., Powered, Non-rechargeable battery, or Rechargeable battery</li> <li>Select "Battery Level" under the Topics section to run the test.</li> <li>Verify the current battery level is returned.</li> <li>Under the Results section, select "Save Results."</li> </ol>	
TCG007	(R2 addendum R1) 2. Accessories that advertise non-Find My network Bluetooth payload	When connected to hosts that are not paired to the Find My network, the accessories shall expose only paired owner information characteristic of the Find My network service.	<p><b>Perform this test case with the FMCA app using the steps below. This test applies to accessories that advertise a non-Find My network Bluetooth Payload.</b></p> <ol style="list-style-type: none"> <li>Pair to the accessory over Bluetooth.</li> <li>Use the accessory for its primary purpose.</li> <li>Launch the FMCA app. Under "Discovered Items," verify the accessory is not listed as "Nearby" or "Separated".</li> </ol>	

## General Requirements Test Cases

Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCG008	3.2 General	Verify accessory does not operate simultaneously on the Find My network and other finder network, or implement functionality which may interfere with the security and privacy requirements referenced in the Find My Accessory Specification.	<p><b>Perform this test case with the Find My app and manufacturer app (if applicable) using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the manufacturer's app.</li> <li>3. Verify accessory does not operate simultaneously on the Find My network and other finder network, or implement functionality which may interfere with the security and privacy requirements referenced in the Find My Accessory Specification.</li> <li>4. From the Find My app, select Play Sound. Verify sound is audible.</li> <li>5. From the manufacturer's, adjust accessory's setting, if applicable.</li> <li>6. From the Find My app, select Play Sound. Verify sound is audible.</li> </ol>	
TCG009	5.1.2 Payload for nearby state	An accessory must always advertise the Find My network payloads once every 2 seconds.	<p><b>Perform this test case with the Find My app and a Bluetooth sniffer using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Disable Bluetooth from the iOS settings. Perform the next step within 15 minutes while accessory is in the Nearby state.</li> <li>3. Using a Bluetooth sniffer, verify the Find My network Bluetooth Advertising Interval is 2 seconds.</li> </ol>	
TCG010	4.6.3.4.2 Persistent connection status	Verify the accessory advertises using an advertising interval of 30ms for a duration of 3 seconds if persistent connection is enabled, on a link lost event.	<p><b>Perform this test case with the Find My app, FMCA app, and a Bluetooth sniffer using the steps below. A Debug control point enabled sample is required to perform this test case.</b></p> <ol style="list-style-type: none"> <li>1. From iOS device A, go to Settings, select Apple ID on top of page, Select Find My, and set "My Location" to this device. <b>Please note:</b> ensure that this Apple ID is only logged into iOS device A.</li> <li>2. From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>3. Launch the FMCA app. Select the accessory under My Items.</li> <li>4. Select "Connectivity" under the Topics section.</li> <li>5. Select "Verify Connection" under the Topics section to run the test.</li> <li>6. Verify results are passing.</li> <li>7. Select "Connection Status" under the Topics section to run the test.</li> <li>8. Verify results are passing.</li> <li>9. Disable Bluetooth from the iOS settings.</li> <li>10. Using a Bluetooth sniffer, verify the Find My network Bluetooth Advertising Interval is 30 ms intervals for 3 seconds.</li> </ol>	
TCG011	3.3.1 Bluetooth	Verify the accessory supports the Tx Power service and that the Tx power level characteristic to the BLE EIRP at the antenna is $\geq +4\text{dBm}$	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Swipe down from the top of the screen to refresh the FMCA app. Under "Discovered Items," verify accessory is listed as "Nearby," and then select the accessory. Alternatively, from a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby."</li> <li>4. Under Tx Power Level, verify the TX Discovered Level is <math>\geq +4\text{dBm}</math> and matches the MFI Expected value.</li> </ol>	
TCG012	5.1.4 Advertisement in low battery state	Low battery state should not cease Find My advertisement (unless the device can no longer rotate its keys.)	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Place the accessory in a low battery state.</li> <li>3. Disable Bluetooth on device A from the iOS settings.</li> <li>4. From a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is not listed.</li> <li>5. Enable Bluetooth on device A from the iOS settings.</li> <li>6. From iOS device A, launch the FMCA app. Under "Discovered Items," verify the accessory not listed.</li> </ol>	
TCG013	3.3.4 Serial number lookup / 4.6.3.8.3 Get Serial Number	<p>Verify that the serial number is only readable over BLE when paired and upon user action (e.g., press and hold a button). When a user puts the accessory into the serial number read state, verify the serial number is available look up for a 5 minute duration. If the accessory is not in serial number read state, it must send Command Response with response status 0xFFFF Invalid_command.</p> <p><b>Please note:</b> this test case is only applicable to accessories that support serial number lookup over BLE.</p>	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Disable Bluetooth on device A from the iOS settings.</li> <li>3. Wait 15 minutes before proceeding to the next step. Alternatively, power cycle the accessory (if applicable).</li> <li>4. From a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify accessory is listed as "Separated," and then select the accessory.</li> <li>5. Under "Non Owner Control Point," select "Present Unwanted Tracking Alert."</li> <li>6. Select the "Get Serial Number" test, put the accessory into a serial number read state, and select "Send Command." On the second device start a stop watch timer.</li> <li>7. Verify test completed with a green check.</li> <li>8. Select "Done" on the top left corner of the window.</li> <li>9. Wait for the timer to hit the 4 minute mark. Under "Discovered Items," verify accessory is listed as "Separated," and then select the accessory.</li> <li>10. Under "Paired Owner Information," select "Get Serial Number" test. Do <b>not</b> put the accessory into a serial number read state. Select "Send Command."</li> <li>11. Verify test completed with a green check.</li> <li>12. Select "Done" on the top left corner of the window.</li> <li>13. Wait for the timer to pass the 5 minute mark. Under "Discovered Items," verify accessory is listed as "Separated," and then select the accessory.</li> <li>14. Under "Paired Owner Information," select "Get Serial Number." Do <b>not</b> put the accessory into a serial number read state. Select "Send Command."</li> <li>15. Verify test completed with a red X.</li> <li>16. Using iOS device B, launch the Find My app. Select "Items," swipe up, and select the "Identify Found Item."</li> <li>17. Select the accessory and then select Continue.</li> <li>18. Follow the instructions on the "Learn About This Item" page, follow the steps, and then select "Continue On Website."</li> <li>19. Verify serial number listed matches the serial number printed on the accessory.</li> </ol>	



**General Requirements Test Cases**

Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCG014	(R2 addendum R1) 3. Find My device naming	<p>When a Find My network-enabled accessory that advertises a non-Find My network Bluetooth payload is put in Bluetooth pairing mode by the end user, an updated device name that includes the suffix "- Find My" shall be presented in Bluetooth settings. This will indicate that location finding is enabled. The device name is limited to 14 characters total.</p> <p>When the owner device reconnects to the accessory, the accessory shall revert back to the original device name.</p>	<p><b>Perform this test case with the Find My app using the steps below. This test applies to accessories that advertise a non-Find My network Bluetooth payload.</b></p> <ol style="list-style-type: none"> <li>1. Pair to the accessory over BT with iOS device A (using the BT menu or the accessory app).</li> <li>2. Complete Find My Network Pairing with iOS device A.</li> <li>3. Put the accessory into Bluetooth pairing mode.</li> <li>4. Using a secondary iOS device B (on a different Apple ID account), go to the Bluetooth menu in Settings or go into the accessory app. Verify the discovered local name includes the suffix "- Find My."</li> <li>5. Complete BT pairing with iOS device B.</li> <li>6. Verify on iOS device B that the name includes the suffix "- Find My."</li> <li>7. From iOS device B, disconnect from the accessory from the Bluetooth settings or within the accessory app.</li> <li>8. Using iOS device A, reconnect to the accessory.</li> <li>9. Verify in the Bluetooth menu or the accessory app, that the local name reverted back to the original name without the suffix</li> </ol>	
TCG015	(R2 addendum R1) 2. Accessories that advertise non-Find My network Bluetooth payload	<p>Find My network-enabled accessories that advertise a Bluetooth payload separate to the Bluetooth payload advertised for the Find My network shall comply with the requirements below.</p> <ul style="list-style-type: none"> <li>- Bluetooth Classic accessories shall support GATT over Bluetooth Classic and Bluetooth LE.</li> <li>- Bluetooth LE accessories shall support <ul style="list-style-type: none"> <li>• LE advertising extensions to advertise other services and payload using advertising sets.</li> <li>• Random resolvable addresses and periodic rotation of the addresses and Bluetooth payload used in advertising sets, rotating every 15 minutes. This will deter tracking of the accessory by a non-owner when it is in physical proximity to the owner.</li> </ul> </li> </ul>	<p><b>Perform this test case with the Find My app and Packet Logger using the steps below. This test applies to accessories that advertise a non-Find My network Bluetooth Payload.</b></p> <ol style="list-style-type: none"> <li>1. Pair to the accessory over Bluetooth. *make sure no other BT accessory is paired to the device.</li> <li>2. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>3. Connect Apple device to the Mac using a sync cable.</li> <li>4. Launch Packet Logger, go to File, and select "New iOS Trace".</li> <li>5. Select the Device Filter pull down, select the BT address.</li> <li>6. Communicate with the accessory using the Manufacture app. i.e. change configuration. image, etc.</li> <li>7. Note down the BT address in the Packet Logger trace.</li> <li>8. Wait 15 minutes.</li> <li>9. Repeat steps 4-7 and verify accessory uses a completely different BT address from step 7.</li> </ol>	

Pairing/Discovery States Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCP001	6.2.1 Pairing Mode / 3.3.6 Find My network pairing mode	<p>Verify that the accessory requires explicit user intent (ex. press a button 3 times) to enable the Find My network pairing mode and that the accessory exits the pairing mode after 10 minutes.</p> <p><b>Please note:</b> if the accessory is a Finder device, powering on or inserting a battery is sufficient as user intent.</p>	<p><b>Perform this test case with the Find My app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Power on the accessory.</li> <li>2. Verify the accessory has a physical way to enable Find My network pairing mode.</li> <li>3. Use manufacturer's instructions to enable Find My network pairing mode.</li> <li>4. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item. Verify accessory is listed as an available item for pairing.</li> <li>5. Wait 10+ minutes.</li> <li>6. Launch the Find My app. Under "Items," select Add Item. Verify accessory is not listed as an available item for pairing.</li> <li>7. Use manufacturer's instructions to enable Find My network pairing mode.</li> <li>8. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item. Verify accessory is listed as an available item for pairing.</li> </ol>	
TCP002	2.7.2 Connected	<p>Verify that the accessory enters Connected state once Find My network pairing is successfully completed with the Owner device.</p>	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. A Debug control point enabled sample is required to perform this test case.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items.</li> <li>3. Select "Connectivity" under the Topics section.</li> <li>4. Select "Verify Connection" under the Topics section to run the test.</li> <li>5. Verify results are passing.</li> <li>6. Select "Connection Status" under the Topics section to run the test.</li> <li>7. Verify results are passing.</li> <li>8. Under the Results section, select "Save Results."</li> </ol>	
TCP003	4.6.3.8.2 Get iCloud Identifier	<p>If the Find My network pairing is complete, the accessory shall respond with Get_iCloud_Identifier_Response with the iCloud identifier.</p>	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Accessory Information" under the Topics section.</li> <li>4. Select "Get iCloud Identifier" under the Topics section to run the test.</li> <li>5. Verify results are passing and that the displayed Apple ID matches.</li> <li>6. Under the Results section, select "Save Results."</li> </ol>	

## Pairing/Discovery States Test Cases

Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCP004	3.3.7 Reset	<p>Verify that a factory reset deletes all Find My network (except AIS, FW version, Serial Number, SW authentication token, SW authentication UUID, Apple sever public keys, Q_A, Q_E). Verify the accessory has a physical mechanism to reset to default factory settings.</p> <p>Accessory must enable the user to set up the accessory using the Apple Find My app, both out of the box and after every factory reset, without requiring additional setup procedures.</p>	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Accessory Information" under the Topics section.</li> <li>Select "Get Accessory Information" under the Topics section to run the test.</li> <li>Note down the following characteristic values <ul style="list-style-type: none"> <li>- Product Data</li> <li>- Manufacture Name</li> <li>- Model Name</li> <li>- Accessory Category</li> <li>- Accessory Capabilities</li> </ul> </li> <li>Select "&lt; Accessory Name" to go to the previous screen.</li> <li>Select "Firmware" under the Topics section.</li> <li>Select "Firmware Version" under the Topics section to run the test.</li> <li>Note down the Firmware characteristic value.</li> <li>Select "Find My Version" under the Topics section to run the test.</li> <li>Verify Find My Version is set to 1.0.0.</li> <li>Select "&lt; Accessory Name" to go to the previous screen.</li> <li>Select "Power Tests" under the Topics section.</li> <li>Select "Battery Type" under the Topics section to run the test.</li> <li>Note down the Battery Type characteristic response.</li> <li>Select "Battery Level" under the Topics section to run the test.</li> <li>Note down the Battery Level characteristic response.</li> <li>Launch the Find My app. Select accessory name, scroll down, and select "Remove Item."</li> <li>Verify the accessory has a physical way to reset to default factory settings.</li> <li>Perform a factory reset.</li> <li>Repeat steps 1-17 with a second iOS device B (on a different Apple ID account) and verify characteristic values remain the same.</li> <li>While the accessory is paired to iOS device B, factory reset the accessory.</li> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, select Accessory, and select Connect. Name the item and select Continue.</li> <li>When the pop up message "Could Not Continue" or "Cannot Add Item" appears, select Cancel.</li> <li>From iOS device B, launch the Find My app, select accessory name, scroll down, and select "Remove Item."</li> <li>Place accessory into pairing mode.</li> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> </ol>	

Pairing/Discovery States Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCP005	4.6.3.4.7 Set max connections	Verify accessory sets the maxConnections to its maximum supported connections limit.	<p><b>Perform this test case with the Find My app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>If the accessory supports more than 2 connections, continue to log into the same Apple ID account as device A with each additional iOS device.</li> <li>From iOS device A, open the Find My app. Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound is heard from the accessory. *Applies to accessories that support sound maker.</li> <li>Wait for sound to complete.</li> <li>From a second iOS device B (on the same Apple ID account), launch the Find My app. Under "Items," select the accessory, and select Play Sound. *Applies to accessories that support sound maker.</li> <li>Verify sound is heard from the accessory. *Applies to accessories that support sound maker.</li> <li>Repeat steps 6-7 for each additional connection supported with an additional iOS device on the same Apple ID account.</li> </ol>	
TCP006	6.2.1 Pairing Mode / 3.3.6 Find My network pairing mode / 3.2 General	<p>If an accessory supports both Find My and another Finder network, verify that the accessory only pairs to a single network at a time.</p> <p>Verify that the accessory requires explicit user intent (ex. press a button 3 times) to enable the Find My network pairing mode and that the accessory exits the pairing mode after 10 minutes.</p> <p><b>Please note:</b> if the accessory is a Finder device, powering on or inserting a battery is sufficient as user intent.</p>	<p><b>Perform this test case with the Find My app, FMCA app, and manufacturer's app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Power on the accessory.</li> <li>Verify the accessory has a physical way to enable Find My network pairing mode.</li> <li>Use manufacturer's instructions to enable Find My network pairing mode.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item. Verify that the accessory is listed as an available item for pairing.</li> <li>From the <b>Android</b> device, go to the Bluetooth menu and verify that the accessory is listed as an available item for pairing.</li> <li>Wait 10+ minutes.</li> <li>Launch the Find My app. Under "Items," select Add Item. Verify that the accessory is not listed as an available item for pairing.</li> <li>Use the manufacturer's instructions to enable pairing mode.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item. Verify that the accessory is listed as an available item for pairing.</li> <li>From the Android device, go to the Bluetooth menu and verify that the accessory is listed as an available item for pairing.</li> <li>Complete the pairing process with the Android device through the Bluetooth menu or Manufacturer's app.</li> <li>Launch the Find My app. Under "Items," select Add Item. Verify that the accessory is not listed as an available item for pairing.</li> <li>From the iOS device, launch the FMCA app. Under "Discovered Items," verify the accessory is not listed as "Separated" or "Nearby."</li> <li>From the <b>Android</b> device, disable Bluetooth.</li> <li>From the iOS device, launch the FMCA app. Under "Discovered Items," verify the accessory is not listed as "Separated" or "Nearby."</li> </ol>	

Key Management Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCKM001	4.6.3.8.1 Get Current Primary Key	If the Find My network pairing is complete, verify the accessory responds with Get_Current_Primary_Key_Response with Current Primary Key.	<p>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</p> <ol style="list-style-type: none"> <li>From iOS device A, go to Settings, select Apple ID on top of page, select Find My, and set "My Location" to this device. <b>Please note:</b> ensure that this Apple ID is only logged into iOS device A.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Key Management" under the Topics section.</li> <li>Select "Verify Primary Key" under the Topics section to run the test.</li> <li>Verify results are passing.</li> <li>Under the Results section, select "Save Results."</li> </ol>	
TCKM002	4.6.3.4.9 Keyroll Indication	Verify that the Keyroll_indication opcode is used by the accessory to indicate a primary key roll has occurred.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. A Debug control point enabled sample is required to perform this test case.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, go to Settings, select Apple ID on top of page, select Find My, and set "My Location" to this device. <b>Please note:</b> ensure that this Apple ID is only logged into iOS device A.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My. On the iOS device, go to Settings, select Display &amp; Brightness, and set Auto-Lock to "Never."</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Key Management" under the Topics section.</li> <li>Select "Set+Verify Key Rotations" under the Topics section to run the test.</li> <li>Verify results are passing.</li> <li>Under the Results section, select "Save Results."</li> </ol>	
TCKM003	6.3.3.1 After pairing	Verify that the accessory uses the Primary key Pi (where i=1) as a BLE advertisement and enters NearOwner mode	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app.</li> <li>Under "Discovered Items," verify accessory name is listed and is in a Nearby state. Alternatively, from a second iOS device B (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify the accessory is listed as "Nearby."</li> </ol>	
TCKM004	6.3.2 Key sequences and rotation policy	<p>Verify the accessory generates public key sequences with different key rotation intervals, referred to as primary and secondary keys.</p> <p><b>Please note:</b> steps 5-6 and 11-12 can done with any tests as long as there is a 24 hour time gap between test execution.</p>	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, go to Settings, select Apple ID on top of page, select Find My, and set "My Location" to this device. <b>Please note:</b> ensure that this Apple ID is only logged into iOS device A.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Key Management" under the Topics section.</li> <li>Select "Verify Primary Key" under the Topics section to run the test.</li> <li>Verify results are passing.</li> <li>Under the Results section, select "Clear Results."</li> <li>Wait 24 hours.</li> <li>Launch the FMCA app. Select the accessory under My Items.</li> <li>Select "Accessory Information" under the Topics section.</li> <li>Select "Get Accessory Information" under the Topics section to run the test.</li> <li>Verify results are passing.</li> <li>Under the Results section, select "Save Results."</li> <li>Select "&lt; Accessory Name" to go to the previous screen.</li> <li>Select "Share Results."</li> <li>Follow instructions to share results to your computer.</li> <li>Results are saved as a JSON file. Use any JSON tool to reformat the results.</li> <li>Locate "additionalInfo" field.</li> <li>Verify the follow Primary key index resolved is &gt;1 and secondary key index resolved is &gt;1.</li> </ol>	

## NFC Test Cases

Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCN001	3.3.4 Serial Number Lookup / 8.3 Implementation	Verify the accessory is readable through NFC and advertises the correct payload when paired.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My items" section as "Find My Pairing issues."</li> <li>3. Select "NFC" under the Topics section.</li> <li>4. Select "Paired Information" under the Topics section to run the test.</li> <li>5. Hold the iOS device over the center of the NFC tag on the accessory.</li> <li>6. Verify the paired information returned.</li> <li>7. Verify results are passing and the following information is returned - battery health, Product ID, S/N look up method, FW version, and URL. For Encrypted serial number, copy and paste the weblink to a text document and verify the URL contains character string after "e-."</li> <li>8. Verify Product Data and FW version returned match the information provided in the Accessory Information service.</li> <li>9. Under the Results section, select "Save Results."</li> </ol>	
TCN002	3.3.4 Serial Number Lookup / 8.3 Implementation	Verify the accessory is readable through NFC and advertises the correct payload when unpaired.	<ol style="list-style-type: none"> <li>1. While the accessory is unpaired and out of its packaging, hold the iOS device over the center of the NFC tag on the accessory.</li> <li>2. Once prompted, open the URL link.</li> <li>3. Verify the unpaired accessory payload URL matches the following format: <a href="https://found.apple.com/accessory?pid=%04x&amp;b=%02x&amp;fv=%08x&amp;bt=%s&amp;sr=%s">https://found.apple.com/accessory?pid=%04x&amp;b=%02x&amp;fv=%08x&amp;bt=%s&amp;sr=%s</a></li> <li>4. Copy and paste the weblink to a text document and verify the URL contains character string after "pid=," "b=," "fv=," "bt" and "sr=."</li> </ol>	

Sound Maker Test Cases				
Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCSM001	4.6.3.4.1 Play Sound - owner control point	Verify Sound_start and Sound_stop opcode usage (Owner).	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Sound" under the Topics section.</li> <li>4. Select "Stop Sound Validation" under the Topics section to run the test.</li> <li>5. Verify results are passing.</li> <li>6. Under the Results section, select "Save Results."</li> </ol>	
TCSM002	4.6.3.4.1 Play Sound - owner control point	Verify that the accessory responds with Sound_Completed message after the play sounds action has completed.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Sound" under the Topics section.</li> <li>4. Select "Play Sound Validation" under the Topics section to run the test.</li> <li>5. Verify results are passing.</li> <li>6. Under the Results section, select "Save Results."</li> </ol>	
TCSM003	4.6.3.4.1 Play Sound - owner control point	Verify Sound_start and Sound_stop opcode usage (Owner) after waking the iOS device from sleep.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Press the power button on the iOS device to place it to sleep.</li> <li>3. Press the power button on the iOS device to wake up and then proceed to unlock.</li> <li>4. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>5. In the FMCA app, select "Sound" under the Topics section.</li> <li>6. Select "Stop Sound Validation" under the Topics section to run the test. <b>Please note:</b> you may have to select "Clear Results" before running the Stop Sound Validation test.</li> <li>7. Verify results are passing.</li> <li>8. Under the Results section, select "Save Results."</li> </ol>	
TCSM004	4.6.3.4.1 Play Sound - owner control point	Verify Sound_start and Sound_stop opcode usage (Owner) after power cycling the iOS device.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Power cycle the iOS.</li> <li>3. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>4. Select "Sound" under the Topics section.</li> <li>5. Select "Stop Sound Validation" under the Topics section to run the test. <b>Please note:</b> you may have to select "Clear Results" before running the Stop Sound Validation test.</li> <li>6. Verify results are passing.</li> <li>7. Under the Results section, select "Save Results."</li> </ol>	
TCSM005	4.6.3.4.1 Play Sound - owner control point	Verify Sound_start and Sound_stop opcode usage (Owner) after power cycling accessory.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. A Debug control point enabled sample is required to perform this test case.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Sound" under the Topics section.</li> <li>4. Select "Restart then Play+Stop" under the Topics section to run the test.</li> <li>5. Verify results are passing.</li> <li>6. Under the Results section, select "Save Results."</li> </ol>	
TCSM006	4.6.3.4.1 Play Sound - owner control point	Verify the accessory responds with Invalid_state ResponseStatus code (0x0001) when a Sound_Stop opcode is sent when no sound is in session.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Sound" under the Topics section.</li> <li>4. Select "Verify Stop with No Sound" under the Topics section to run the test.</li> <li>5. Verify results are passing.</li> <li>6. Under the Results section, select "Save Results."</li> </ol>	

## Sound Maker Test Cases

Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCSM007	4.6.3.4.1 Play Sound - owner control point	Verify Sound_start and Sound_stop opcode usage (Owner) after keyroll.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. A Debug control point enabled sample is required to perform this test case.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, go to Settings, select Apple ID on top of page, Select Find My, and set "My Location" to this device. <b>Please note:</b> ensure that this Apple ID is only logged into iOS device A.</li> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Key Management" under the Topics section.</li> <li>Select "Set+Verify Key Rotations" under the Topics section to run the test. Make sure iOS device does not go to sleep while the test is running. <b>Please note:</b> you may have to select "Clear Results" before running the Set+Verify Key Rotations test.</li> <li>Verify results are passing.</li> <li>Launch the Find My app.</li> <li>Under "Items," select the accessory, and select Play Sound.</li> <li>Verify sound (or vibration) is heard.</li> </ol>	
TCSM008	4.6.3.4.1 Play Sound - owner control point	Verify the accessory responds to the Sound_Start opcode with Invalid_command ResponseStatus code if the accessory does not support the play sound procedure.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Sound" under the Topics section.</li> <li>Select "Stop Sound Validation" under the Topics section to run the test.</li> <li>Under the Results section, select "Save Results."</li> </ol>	
TCSM009	7.2.2 Sound Maker	Verify the sound maker emits a sound with minimum 60 phon peak loudness as defined by ISO 532-1:2017. The loudness must be measured in free acoustic space substantially free of obstacles that would affect the pressure measurement. The loudness must be measured by a calibrated (to the Pascal) free field microphone 25 cm from the accessory suspended in free space.	<p><b>Perform this test case with the Find My app using the steps below.</b></p> <ol style="list-style-type: none"> <li>Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Suspend the accessory in free space.</li> <li>Place a microphone 25 cm from the accessory.</li> <li>Launch the Find My app, select the accessory name, and select "Play Sound."</li> <li>Verify the sound maker emits a sound with minimum 60 phon peak loudness as defined by ISO 532-1:2017.</li> </ol>	



## Unwanted Tracking Test Cases

Test Case ID	Category	Test Case Description	Test Steps	Pass/Fail
TCUT002	2.7.4 Separated / 7.3 Implementation	For accessories that support motion-triggered UT sound alerts, verify that motion detection is enabled while in a Separated state.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. A Debug control point enabled sample is required to perform this test case.</b></p> <p><b>Please note: execute test case TCP002 and verify it passes prior to starting this test case.</b></p> <ol style="list-style-type: none"> <li>From iOS device, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>Select "Debug" under the Topics section.</li> <li>Select "Reduce Separated Motion Timers" under the Topics section to run the test.</li> <li>Select "Turn Off Bluetooth."</li> <li>Wait until the accessory transitions into separated mode.</li> <li>From a second iOS device (on a different Apple ID account), launch the FMCA app. Under "Discovered Items," verify accessory is listed as "Separated." Wait 2 minutes before proceeding to the next step.</li> <li>On the second device start a stop watch timer. Perform steps 9-10 within a 20 second window after first motion is detected.</li> <li>Move the accessory <math>\pm 10^\circ</math> orientation along any two axis and verify sound (or vibration) is heard when motion is detected. Wait until the sound alert had completed before proceeding to the next step.</li> <li>Continue to repeat step 9 until the 20 second window is complete.</li> <li>Verify multiple play sound alerts are heard during the 20 second window.</li> <li>Wait for the timer to hit the 1 minute mark and move the accessory <math>\pm 10^\circ</math> orientation along any two axis.</li> <li>Verify no sound (or vibration) is heard when motion is detected.</li> <li>Wait for the timer to hit the 3 minute mark and move the accessory <math>\pm 10^\circ</math> orientation along any two axis.</li> <li>Verify no sound (or vibration) is heard when motion is detected.</li> <li>Wait for the timer to hit the 4 minute mark and move the accessory <math>\pm 10^\circ</math> orientation along any two axis.</li> <li>Verify no sound (or vibration) is heard when motion is detected.</li> <li>Wait until the 5 minute mark has elapsed.</li> <li>Move the accessory <math>\pm 10^\circ</math> orientation along any two axis continuously for 30 seconds.</li> <li>Verify sound (or vibration) is heard when motion is detected. Wait until sound maker had completed before proceeding to the next step.</li> <li>Move the accessory <math>\pm 10^\circ</math> orientation along any two axis again.</li> <li>Verify no sound (or vibration) is heard when motion is detected.</li> <li>Enable Bluetooth from the iOS settings.</li> <li>Select "Reset Separated Motion Timers."</li> </ol>	
TCUT003	7.3 Implementation	Verify the steps for <b>Learn About This Item</b> and that the illustration matches the location on the accessory in the Find My app. Verify the steps for <b>Instructions to Disable Item</b> and that the illustration matches the location on the accessory to disable in the Find My app.	<p><b>Perform this test case with the Find My app and using the steps below.</b></p> <ol style="list-style-type: none"> <li>From iOS device A, launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>Enable Lost Mode and complete steps to Activate.</li> <li>Disable Bluetooth on device A from the iOS settings.</li> <li>From a second iOS device B (on a different Apple ID account), launch the Find My app. Select Items, swipe up, and select "Identify Found Item".</li> <li>Select the accessory and select Continue.</li> <li>Follow instructions under "Learn About This Item."</li> <li>Verify that the illustration and steps point to the correct location on the accessory.</li> <li>Select "Continue to Website".</li> <li>Verify that the serial number listed matches the serial number on the accessory.</li> <li>Select the "Instructions to Disable" link.</li> <li>Follow the "How to disable" instructions.</li> <li>Verify that the illustration and steps point to the correct location on the accessory.</li> <li>Verify that the serial number listed matches the serial number on the accessory.</li> <li>From iOS device A, Enable Bluetooth, launch the Find My app, and Turn Off Lost Mode.</li> </ol>	

## Firmware Updates Test Cases

Test Case ID	Category	Test Case Description	Test Steps iOS versions older than iOS 17	Pass/Fail
TCFW001	4.5.3.6. Firmware Version	Verify that the characteristic value changes after every firmware update.	<p><b>Perform this test case with the Find My app using the steps below. Applies to accessories that support Firmware Update by UARP or by accessory app. For Firmware Update by UARP, please download and install the Find My Network Configuration Profile from the MFi Portal Content Center.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Firmware" under the Topics section.</li> <li>4. Select "Firmware Version" under the Topics section to run the test.</li> <li>5. Verify firmware revision is in the following format: x[y.z] and select Clear Results.</li> <li>6. If the accessory supports Firmware Update by UARP, please follow steps 7-12 to complete firmware update. If accessory supports firmware update by the accessory app, perform the firmware update and skip to step 14.</li> <li>7. Launch the FMCA app. Select the accessory under My Items.</li> <li>8. Select "Firmware Settings."</li> <li>9. Select "Choose a File..."</li> <li>10. Select a .UARP file that is stored locally on the iOS device. i.e Files folder</li> <li>11. Launch the Find My app, select the accessory under My Items, and scroll down to the accessory information.</li> <li>12. Select "Update available."</li> <li>13. Select "Update" to the pop up prompt.</li> <li>14. Open the FMCA app.</li> <li>15. Select "Firmware" under the Topics section.</li> <li>16. Select "Firmware Version" under the Topics section to run the test.</li> <li>17. Verify firmware revision is in the following format: x[y.z] and has incremented from step 5.</li> </ol>	
TCFW002	10. Firmware Update	Verify the Find My accessory can handle an interruption during the firmware update process when a user cancels/aborts.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. Applies to accessories that support Firmware Update by UARP. Please download and install the Find My Network Configuration Profile from the MFi Portal Content Center.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> Accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Firmware" under the Topics section.</li> <li>4. Select "Firmware Version" under the Topics section to run the test.</li> <li>5. Note down firmware revision and select Clear Results.</li> <li>6. Select the accessory name on top left to return to the previous screen.</li> <li>7. Select "Firmware Settings."</li> <li>8. Select "Choose a File..."</li> <li>9. Select a .UARP file that is stored locally on the iOS device. i.e Files folder</li> <li>10. Select "Update available."</li> <li>11. Select "Cancel" to the pop up prompt.</li> <li>12. Select the accessory name on top left to return to the previous screen.</li> <li>13. Select "Firmware" under the Topics section.</li> <li>14. Select "Firmware Version" under the Topics section to run the test.</li> <li>15. Verify the Firmware version remained the same from step 5.</li> </ol>	
TCFW003	10. Firmware Update	Verify the Find My accessory can handle an interruption during the firmware update process when the accessory is Out of Range.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. Applies to accessories that support Firmware Update by UARP. Please download and install the Find My Network Configuration Profile from the MFi Portal Content Center.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Firmware" under the Topics section.</li> <li>4. Select "Firmware Version" under the Topics section to run the test.</li> <li>5. Note down firmware revision and select Clear Results.</li> <li>6. Select the accessory name on top left to return to the previous screen.</li> <li>7. Select "Firmware Settings."</li> <li>8. Select "Choose a File..."</li> <li>9. Select a .UARP file that is stored locally on the iOS device. i.e Files folder</li> <li>10. Select "Update available."</li> <li>11. Select "Update" to the pop up prompt.</li> <li>12. Bring the iOS device out of range of the accessory.</li> <li>13. Bring the iOS device back into of range of the accessory.</li> <li>14. Verify the accessory reconnects with the iOS device.</li> <li>15. From the Find My app, select Play Sound.</li> <li>16. Verify sound is heard from the accessory.</li> <li>17. From the FMCA app, select "Firmware" under the Topics section.</li> <li>18. Select "Firmware Version" under the Topics section to run the test.</li> <li>19. Verify the Firmware version remained the same from step 5.</li> </ol>	

## Firmware Updates Test Cases

Test Case ID	Category	Test Case Description	Test Steps iOS versions older than iOS 17	Pass/Fail
TCFW004	10. Firmware Update	Verify the Find My accessory can handle an interruption during the firmware update process when the accessory power cycled (if applicable).	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. Applies to accessories that support Firmware Update by UARP. Please download and install the Find My Network Configuration Profile from the MFi Portal Content Center.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Firmware" under the Topics section.</li> <li>4. Select "Firmware Version" under the Topics section to run the test.</li> <li>5. Note down firmware revision and select Clear Results.</li> <li>6. Select the accessory name on top left to return to the previous screen.</li> <li>7. Select "Firmware Settings."</li> <li>8. Select "Choose a File..."</li> <li>9. Select a .UARP file that is stored locally on the iOS device. i.e Files folder</li> <li>10. Select "Update available."</li> <li>11. Select "Update" to the pop up prompt.</li> <li>12. Power cycle the accessory. i.e. remove battery or power off</li> <li>13. Verify the accessory reconnects with the iOS device.</li> <li>14. From the Find My app, select Play Sound.</li> <li>15. Verify sound is heard from the accessory.</li> <li>16. From the FMCA app, select "Firmware" under the Topics section.</li> <li>17. Select "Firmware Version" under the Topics section to run the test.</li> <li>18. Verify the Firmware version remained the same from step 5.</li> </ol>	
TCFW005	10. Firmware Update	Verify the Find My accessory can handle an interruption during the firmware update process when the Apple device power cycled.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. Applies to accessories that support Firmware Update by UARP. Please download and install the Find My Network Configuration Profile from the MFi Portal Content Center.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Firmware" under the Topics section.</li> <li>4. Select "Firmware Version" under the Topics section to run the test.</li> <li>5. Note down firmware revision and select Clear Results.</li> <li>6. Select the accessory name on top left to return to the previous screen.</li> <li>7. Select "Firmware Settings."</li> <li>8. Select "Choose a File..."</li> <li>9. Select a .UARP file that is stored locally on the iOS device. i.e Files folder</li> <li>10. Select "Update available."</li> <li>11. Select "Update" to the pop up prompt.</li> <li>12. Power cycle the iOS device.</li> <li>13. Launch the Find My app and verify the accessory reconnects with the iOS device.</li> <li>14. Select Play Sound.</li> <li>15. Verify sound is heard from the accessory.</li> <li>16. From the FMCA app, select "Firmware" under the Topics section.</li> <li>17. Select "Firmware Version" under the Topics section to run the test.</li> <li>18. Verify the Firmware version remained the same from step 5.</li> </ol>	
TCFW006	10. Firmware Update	Verify the Find My accessory can handle an interruption during the firmware update process when Bluetooth is disconnected.	<p><b>Perform this test case with the Find My app and FMCA (Find My Certification Assistant) app using the steps below. Applies to accessories that support Firmware Update by UARP. Please download and install the Find My Network Configuration Profile from the MFi Portal Content Center.</b></p> <ol style="list-style-type: none"> <li>1. Launch the Find My app. Under "Items," select Add Item, select Other Supported Item, and select Connect. Name the item and select Continue to complete the setup to add to Find My.</li> <li>2. Launch the FMCA app. Select the accessory under My Items. <b>Please note:</b> accessories that were unable to successfully pair to a device in Find My will be listed under the "My Items" section as "Find My Pairing issues."</li> <li>3. Select "Firmware" under the Topics section.</li> <li>4. Select "Firmware Version" under the Topics section to run the test.</li> <li>5. Note down firmware revision and select Clear Results.</li> <li>6. Select the accessory name on top left to return to the previous screen.</li> <li>7. Select "Firmware Settings."</li> <li>8. Select "Choose a File..."</li> <li>9. Select a .UARP file that is stored locally on the iOS device. i.e Files folder</li> <li>10. Select "Update available."</li> <li>11. Select "Update" to the pop up prompt.</li> <li>12. Disable Bluetooth from the iOS settings.</li> <li>13. Enable Bluetooth from the iOS settings.</li> <li>14. Verify the accessory reconnects with the iOS device.</li> <li>15. From the Find My app, select Play Sound.</li> <li>16. Verify sound is heard from the accessory.</li> <li>17. From the FMCA app, select "Firmware" under the Topics section.</li> <li>18. Select "Firmware Version" under the Topics section to run the test.</li> <li>19. Verify the Firmware version remained the same from step 5.</li> </ol>	

## Revision History

Release	Type of Change
Release R1	Initial Release
Release R1.1	Edits to TCB002, TCB008, TCG013, TCG014, TCFW002, TCFW003, TCFW004, TCFW005, TCFW006, TCG014, TCUT002
Release R1.2	Edits to TCB005, TCB006, TCG003, TCG008, TCG013, TCKM002, TCFW001, TCFW002, TCFW003, TCFW004, TCFW005, TCFW006, TCSM005, TCSM007, TCUT002, TCUT003
Release R1.3	Edits to TCB002, TCB004, TCB009, TCB010, TCG009, TCP001, TCUT002 Added - TCKM004
Release R1.4	Edits to TCB009, TCG006, TCG010, TCG011, TCG013, TCKM003, TCN001, TCN002, TCP002, TCUT002 Added - TCP006, TCFW007
Release R1.5	Edits to TCB002, TCB004, TCB005, TCB006, TCB007, TCB008, TCB009, TCG002, TCG006, TCG010, TCG012, TCG013, TCG014, TCP002, TCP003, TCP004, TCP005, TCP006, TCKM003, TCUT002, TCUT003 Removed - TCFW007
Release R1.6	Edits to TCB002, TCB008, TCB009, TCB010, TCG002, TCG003, TCG004, TCG006, TCG010, TCG011, TCG014, TCP003, TCP004, TCKM001, TCKM002, TCKM004, TCN001, TCSM001, TCSM002, TCSM003, TCSM004, TCSM005, TCSM006, TCSM007, TCSM008, TCSM009, TCUT002, TCFW001, TCFW002, TCFW003, TCFW004, TCFW005, TCFW006
Release R1.7	Edits to TCB001, TCB005, TCB006, TC007, TCB008, TCB009, TCG007, TCP004, TCP005, TCP006, TCKM004, TCN001, TCSM008, TCFW001
Release R1.7	Edits to TCB001, TCB004, TCB005, TCB006, TC007, TCB008, TCB009, TCG007, TCG011, TCG014, TCP004, TCP005, TCP006, TCKM004, TCN001, TCSM008, TCFW001 Added - TCG015