

Battery Program Management Document

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1 Overview

1.1 Purpose

The purpose of the CTIA Battery Certification Program (“Program”) is to verify conformance of applicable products to IEEE Std 1725™¹-2006 (“IEEE 1725”), Standard for Rechargeable Batteries for Cellular Telephones. The Program has been implemented in two phases. In the first phase, an interim program was introduced whereby CTIA maintains a registry of systems declared to be compliant with IEEE 1725. In the second phase, a certification program is introduced whereby CTIA certifies systems for compliance to IEEE 1725.

On January 1, 2009, the Program transitioned from Phase One to Phase Two and now consists of the following elements:

- 1) Battery cell manufacturing site authorization based on on-site audit and analysis by a CTIA Authorized Test Lab (CATL) of management controls, process controls, quality systems and technical competence;
- 2) Battery cell product recognition based on testing and analysis by a CATL, and cell vendor declaration of compliance;
- 3) Battery pack product recognition based on testing and analysis by a CATL, and pack vendor declaration of compliance;
- 4) Adapter product recognition based on testing and analysis by a CATL, and adapter vendor declaration of compliance;
- 5) System certification based on use of recognized subsystems, System test and analysis by a CATL, and a System Vendor declaration of compliance

1.2 Scope

This Battery Program Management Document (BPMD) defines the requirements and processes of the Program. For cell, pack and adapter vendors, this document describes the requirements for obtaining and maintaining product recognition. For System Vendors, this document describes the requirements for obtaining and maintaining System certification. For test laboratories, this document describes the requirements to become a CTIA Authorized Testing Laboratory (CATL) and the procedures to evaluate vendors’ products.

1.3 Disclaimer

CTIA and the CATL make no representations that a certified System or a recognized Subsystem will operate free from defect, without error or according to its applicable design and technical standards.

¹ IEEE Std 1725 is a registered trademark of the Institute of Electrical and Electronics Engineers, Inc.

1.4 Definitions

Note: the following definitions may differ from the definitions in IEEE 1725.

Adapter: A device or combination of devices in the power path that transforms the available power from an external source (e.g. a wall outlet, airline or automobile outlet, etc.) to the power used by the host (an adapter is often referred to as a power supply).

Battery/Battery Pack: An assembly of any number of Li-Ion or Li-Ion Polymer cells, associated electronics, battery packaging and connector(s).

CATL Worksheets: A set of Microsoft Excel worksheets, based on the current CRSL, to be completed by the Subsystem vendor and the CATL, serving as a submission form and itemization of compliance results.

CATL: CTIA Authorized Test Lab with scope of Battery Certification. For this Program, the CATL will be authorized by CTIA to perform all the requirements in the CRD (i.e., both testing and auditing).

Cell: Basic manufactured Li-Ion or Li-Ion Polymer unit providing a source of electrical energy by direct conversion of chemical energy that consists of electrodes, separators, electrolyte, container and terminals, and that is designed to be charged electrically.

Certified System: A System approved by CTIA as meeting the requirements of the Program.

Declaration of Compliance: A signed declaration stating that the System or Subsystem complies with all applicable provisions of IEEE 1725.

Host: A device that is powered by a battery and/or charges the battery. Mobile phones and charger-only devices are examples of a host device.

Hybrid: A Subsystem that cannot be assigned to a single Subsystem category, but utilizes multiple categories and may also exhibit characteristics of a Host.

Operator: A provider of Commercial Mobile Radio Services as defined by the FCC.

Recognized Subsystem: A Cell, Battery Pack or Adapter that is in compliance with the requirements of this document.

Subsystem: a Cell, Battery Pack, Adapter or Hybrid.

System: A combination of cell(s), battery pack(s), host, and adapter(s). The System may also include Hybrid devices.

Subsystem Compliance Folder: The Declaration of Compliance, CATL evaluation report and CATL worksheets.

Subsystem Vendor: A supplier of a Subsystem.

System Compliance Folder: The Declaration of Compliance, CATL evaluation report and CATL worksheets.

System Vendor: A supplier of a System. For the purposes of this document, only a Host supplier may be a System Vendor.

2 Roles and Responsibilities

This section describes the roles and responsibilities of the parties involved with the Program and mentioned throughout this document.

2.1 Subsystem Vendor

Vendors shall ensure that their Subsystems are evaluated for compliance to IEEE 1725 by a CATL.

Vendors shall ensure that their Cell manufacturing sites are evaluated for compliance to IEEE 1725 by a CATL.

Subsystem recognition requests shall be submitted to CTIA. Only Subsystem Vendors may submit Subsystem registration requests.

Vendors shall pay a fee to CTIA (see [APPENDIX A: CTIA Recognition and Certification Fees](#)) for recognition of a Subsystem.

Vendors may select any CATL for the evaluation and are responsible for any required contracts and non-disclosure agreements with their suppliers and the CATL. Vendors are free to select different CATLs for evaluation of subsystems and manufacturing site audits or to change CATLs at their option. Any issues regarding the performance of a CATL may be brought to the attention of CTIA.

Vendors shall be responsible for the fees associated with the CATL evaluation. These fees will be independently determined by each CATL.

2.2 System Vendor

System Vendors shall evaluate their system for compliance to IEEE 1725 by using criteria set forth in the CTIA Certification Requirements for Battery System Compliance to IEEE 1725 document (CRD) in accordance with the applicable version of the Certification Requirements Status List (CRSL).

Vendors shall submit System certification requests to CTIA. Only System Vendors may submit System certification requests.

Vendors shall pay a fee to CTIA (see [APPENDIX A: CTIA Recognition and Certification Fees](#)) for certification of a System.

Vendors may select any CATL for the evaluation and are responsible for any required contracts and nondisclosure agreements with their suppliers (e.g., pack vendor, cell vendor, adapter vendor) and the CATL.

Vendors shall be responsible for the fees associated with the CATL evaluation. These fees will be independently determined by each CATL.

2.3 CTIA

As owner of the Program, CTIA defines the requirements for CTIA recognition and certification; administers the overall program; authorizes CATLs; reviews recognition and certification

applications; awards CTIA recognition and certification to the vendor; and maintains product compliance folders for Recognized Subsystems and Certified Systems.

2.4 CATL

CATLs shall evaluate Systems, Subsystems and manufacturing sites using criteria set forth in the CRD in accordance with the applicable version of the CRSL. CATLs must adhere to the requirements as described in **APPENDIX B: CATL Authorization Requirements** and the CATL License and Service Agreement. Interested organizations may contact CTIA Certification Program staff to obtain a copy of this agreement.

CATLs shall inform CTIA of any changes in key personnel involved with the CTIA Battery Certification Program (e.g., project/test manager, lead auditor). These changes will be reviewed by the CATL Review Committee.

CATLs shall attend all face-to-face meetings of the CTIA Certification Program Working Group/Battery Ad-Hoc Group and, on a rolling basis, participate in 2 out of the last 3 CATL conference calls. Should a CATL fail to meet this requirement, their CATL status shall be revoked for a 6-month period². If after 6 months the CATL has attended ALL conference calls and face-to-face meetings, their CATL status shall be reinstated. Should the CATL fail to meet this requirement a second time, their CATL status shall be revoked and they may re-apply for CATL authorization per **APPENDIX B: CATL Authorization Requirements**.

A current listing of CATLs can be found within the CTIA certification database and on the CTIA web site at http://www.ctia.org/business_resources/certification/test_labs/.

² The CATL Review Committee will consider any extenuating circumstances, brought to its attention by the CATL, causing the failure to meet this requirement and has the sole discretion to impose or waive this penalty.

3 Subsystem Recognition Process

3.1 Introduction

To obtain recognition of a Subsystem, the Subsystem vendor submits a recognition request to CTIA. The vendor selects a CATL to evaluate compliance to IEEE Std 1725 using criteria set forth in the CRD in accordance with the applicable version of the CRSL. The CATL evaluates compliance and provides an evaluation report to CTIA. The vendor submits a Declaration of Compliance (see [APPENDIX C: Subsystem Declaration of Compliance](#)) and pays a recognition fee to CTIA. For cells, the manufacturing site(s) must also be evaluated by a CATL and authorized by CTIA. CTIA recognizes the Subsystem when all steps are complete.

See [APPENDIX H: Process Flowchart](#) for an overview of the process.

3.2 Subsystem Recognition Request

Vendors shall submit Subsystem recognition requests via CTIA's online certification database at <https://cpo.ctia.org/>. User login accounts may be requested by selecting "I need a user name and password" on the login page.

The vendor shall select "Initial" Request Type and enter information about the Subsystem.

- For cells, the vendor shall identify the site(s) where the cell is manufactured. If the cell is manufactured in multiple sites, those sites shall all be identified on the request. Only authorized sites may be selected (see Section 3.4 of this document).
- For packs, the vendor shall identify the site(s) where the pack is manufactured. The vendor shall also identify the cell(s) used in the pack. If a cell is already recognized, it will appear on a drop-down list. If a cell is not yet recognized, the vendor shall check the "Pending Recognition" box (the pack can be recognized only after that cell becomes recognized, however).
- For adapters, the vendor shall identify the site(s) where the adapter is manufactured.
- For devices that do not exactly fit the category of pack or adapter (e.g., a battery-powered DC-DC converter, an external battery with self-contained charging circuitry, a hybrid charger/adaptor), the vendor shall select "Hybrid Recognition Request".

Multiple models may be submitted in a single request provided there are no differences that impact the requirements of this Program.

The vendor shall select a CATL and request a start date.

The vendor shall upload a signed and scanned Declaration of Compliance (see [APPENDIX C: Subsystem Declaration of Compliance](#)). Submission of a hardcopy of the declaration by vendor shall not be required

CTIA will invoice the vendor for the CTIA fees as described in [APPENDIX A: CTIA Recognition and Certification Fees](#). Vendor shall inform CTIA if a P.O. number is required on the invoice.

The CATL will receive an e-mail notification of the recognition request. The CATL will log into the database (<https://cpo.ctia.org/>) to review and accept/reject the request. The database will send

an e-mail notification to the submitter once the CATL has accepted/rejected the request. If the request is rejected, the submitter may re-assign the request to another CATL.

Once the request has been accepted by the CATL, the vendor may no longer make changes to the request. The vendor shall contact the CATL or CTIA if any changes need to be made to the data entered.

3.3 CATL Evaluation

The vendor shall provide, as appropriate, declarations, design data, manufacturing data, test data, test reports, audit reports, test samples and device specifications as required for the CATL to complete its evaluation.

For cells, a set of test samples (as defined in the CRD) shall be provided from each manufacturing site.

For packs, a set of test samples (as defined in the CRD) for each combination of pack manufacturing site and cell model shall be submitted.

- Should the pack contain multiple revisions of the cell, only one revision of the cell needs to be considered for testing at the pack level. The vendor shall ensure the cell revision being tested represents the worst-case scenario for pack recognition and is currently recognized. Should the pack contain multiple cell models, each cell model shall be tested at the pack level.
- Should pack manufacturing sites use identical processes, as reviewed and agreed upon by the CATL, a full set of test samples from each site may not be required. To make this determination, the pack assembler shall provide 2 battery packs from each alternative pack manufacturing site for inspection, along with a declaration that the assembly and test processes are identical between the manufacturing sites.

If a pack and cell are undergoing parallel recognition at different CATLs, the pack vendor shall supply a signed declaration to the CATL conducting the pack review. The declaration shall indicate that the cell evaluated within the pack is identical to the cell that achieved recognition.

The CATL shall use the Certification Requirements Status List (CRSL) to determine the applicable recognition steps.

After accepting the request, the CATL shall work with the vendor to conduct an evaluation, which might include testing samples, reviewing supplied evidence or conducting an on-site audit³. The evaluation may start only after the vendor has entered the request into the database and the CATL has accepted the request.

Non-compliances will be resolved between the CATL and the vendor.

Should the CATL identify a potential problem with a requirement, it shall issue a Change Request (CR), with adequate justification, proposing a change in category status. The CR shall be sent to all active CATLs for review. The CATLs shall have 5 business days to comment on the CR. Comments arguing against the change shall include adequate justification. Upon mutual resolution of any comments, the requirement may be changed.

Test results from similar products may be used at the CATL's judgment. The CATL shall provide justification in the evaluation report for using these results.

³ An on-site audit may be required to evaluate a subsystem. The audit is product-specific and augments the manufacturing site authorization audit.

Upon completion of the evaluation, the CATL shall log into CTIA's online certification database and:

- Enter the CRSL version used for the evaluation (the version to be used is one that is active on the date the evaluation report is uploaded to the database)
- Verify the Subsystem information (correcting and updating as necessary). If the vendor selected the "Hybrid Recognition Request" type when entering the subsystem request, the CATL will categorize the device as a pack, adapter or both (and will enter any additional required information).
- Enter the start and end dates of the review
- Upload the CATL evaluation report and the completed CATL Worksheets (the report and worksheets shall not contain any confidential/proprietary technical information). The vendor may then view and download these documents via the database.

The CATL evaluation report shall have a cover page with the company logo and shall include the following information:

- 1) Subsystem Vendor name, model number, revision number and capacity (as appropriate) for each Subsystem evaluated
- 2) Review date(s)
- 3) IEEE 1725 and CRSL versions
- 4) Summary of review
- 5) Person(s) who conducted evaluation
- 6) Contact point
- 7) Lab accreditation identifier (issued by accreditation body), CATL authorization code
- 8) Signature of authorized representative

CATL evaluation reports, CATL worksheets, and declarations will be accessible by the vendor via CTIA's online certification database and retained by CTIA for a period of 5 years from the date of recognition, after which all documentation will be destroyed.

Unless authorized by the Subsystem Vendor, the Compliance Folder will be maintained in confidence by CTIA.

3.4 Cell Manufacturing Site Authorization

Cell vendors shall select a CATL to audit their manufacturing sites in accordance with the applicable version of the CRSL. The vendor shall determine what constitutes the manufacturing site and provide a description to the CATL.

Vendors shall submit manufacturing site audit requests via CTIA's online certification database at <https://cpo.ctia.org/>. The vendor shall select "Initial" Request Type and enter information about the manufacturing site. The vendor shall select a CATL and request a start date.

Upon completion of the audit, the CATL shall log into CTIA's online certification database and:

- Enter the CRSL version used for the audit (the version to be used is one that is active on the date the audit report is uploaded to the database)
- Verify the site information (correcting and updating as necessary)
- Enter the start and end dates of the audit
- Link the audit request to another audit request, if necessary
- Upload a summary audit report, which will include:
 - Cell Manufacturing Site name
 - Cell Manufacturing Site address
 - A judgment of whether the site audited complies with IEEE Std 1725 using criteria set forth in the CRD
 - Review date(s)
 - IEEE 1725 and CRSL versions
 - Summary of review
 - Detail whether this audit is linked to another site audit
 - Person(s) who conducted audit

CTIA will authorize those sites that are in compliance, as recommended by a CATL.

Cells can only be recognized once the sites where they are manufactured are authorized by CTIA.

Once authorized, the vendor shall evaluate all manufacturing process changes to determine if any processes within the scope of IEEE 1725 have been changed. Processes within the scope of IEEE 1725 that have been changed shall be communicated to the CATL by the vendor, along with applicable supporting evidence. The CATL shall determine whether another audit is required to assist in its evaluation of the supporting evidence. Should an audit be required, the vendor shall submit a site audit request via CTIA's online certification database at <https://cpo.ctia.org/>, selecting the "Update/Renewal" Request Type. Upon completion of the evaluation, the CATL shall log into CTIA's online certification database and upload a summary report, which will include the information above. If, in the CATL's judgment, the sites no longer comply, cells manufactured at those sites may no longer be submitted for recognition.

Manufacturing sites shall be re-audited on an annual basis (i.e., 12 months from the last full audit, which is identified in the certification database as "Date Authorized"). The vendor shall submit a site audit request via CTIA's online certification database at <https://cpo.ctia.org/>, selecting the "Update/Renewal" Request Type.

Sites not re-audited after the 12-month period will be removed from the list of authorized cell manufacturing sites; cells manufactured at those sites may no longer be submitted for recognition.

3.5 Recognition

Upon completion of the following items, a Subsystem will be recognized:

- CATL evaluation report and completed CATL Worksheets uploaded by the CATL
- Signed Declaration of Compliance uploaded by the vendor
- Manufacturing site authorization (for cells)
- Payment of the CTIA recognition fees
- Fully executed Subsystem Recognition Agreement (see [APPENDIX D: Subsystem Recognition Agreement](#))

3.6 Changes to Recognized Subsystems

Once a Subsystem is recognized, the vendor shall evaluate any changes within the Subsystem that fall within the scope of IEEE 1725 to determine whether the changes impact the recognition. Changes that do impact the recognition shall be submitted as an ECO (by logging into the CTIA certification database, selecting Submit New Request and choosing "ECO" Request Type), identifying the new Revision # of the Subsystem. Supporting evidence shall be provided to the CATL.

Once a Subsystem is recognized, any required changes to the subsystem model number in the certification database shall be submitted as a new request.

3.7 De-Listing

Subsystem vendors may at any time request de-listing of a recognized Subsystem. One reason for doing this would be to remove from the database drop-down selections products that are no longer on the market. Another reason would be to notify CTIA of Subsystems that are no longer in compliance. The vendor shall send an e-mail to certification@ctia.org and include the manufacturer name, model #, revision # and reason for requesting de-listing.

If the reason is that the product is no longer on the market, CTIA will remove the Subsystem from the recognized Subsystem drop-down selections in the certification database so that it can no longer be chosen when a new request is entered. The Subsystem will still appear on the Subsystem recognition list.

If the reason is that the product is no longer in compliance, CTIA will withdraw the recognition as well as remove the Subsystem from the Subsystem recognition list and recognized Subsystem drop-down selections in the certification database. CTIA will make its best effort to contact the vendors and operators listed in its certification database who may be impacted

3.8 Re-Labeled Subsystems

A re-labeled Subsystem is defined as a Subsystem that is identical to a currently recognized Subsystem, but has a different vendor name and may (or may not) have a different model number.

The re-labeling vendor may recognize a re-labeled Subsystem by entering the Subsystem into CTIA's online certification database as an Initial recognition request:

- The re-labeled vendor name and model number shall be entered
- The CATL used for the originally recognized Subsystem shall be chosen
- The CATL shall evaluate any requirements that may be affected by the re-labeling (e.g., traceability) and upload the CATL evaluation report of the originally recognized Subsystem along with two additional documents:
 - A Product Equality Letter from the re-labeling vendor. This letter shall state that the re-labeled Subsystem is the same as the originally recognized Subsystem (referenced by vendor name and model number as it appears in CTIA's online certification database) and that no changes have been made other than the vendor name and possibly model number. The letter shall be signed and dated.
 - An Authorization of Use Letter from the vendor of the originally recognized Subsystem. This letter shall state that the vendor of the originally recognized Subsystem allows the CATL to use the evaluation report from this Subsystem for recognition of the relabeled Subsystem. The letter shall be signed and dated.

3.9 Embedded Packs

There are two options for the evaluation of embedded (non-user replaceable) packs:

- The pack may be recognized following the procedures in Section 3 of this document. In this case, the pack must meet all the requirements of the pack section of the CRSL, including Sections 5.23 and 5.48. During the System certification request submission, the host vendor will find the pack listed in the recognized pack drop-down list.

In this option, compliance is not dependent on the Host.

- The pack may be evaluated during the System Certification Request (see Section 4.2 of this document). The pack must meet all the requirements of the pack section of the CRSL. In this case, the pack is not recognized and the System Vendor must check the "Unrecognized Embedded Pack" checkbox during the System certification request submission.

In this option, compliance is dependent on the Host.

3.10 Embedded Adapters

Embedded (non-user replaceable) adapters cannot be recognized and shall be evaluated as part of the System certification request (see Section 4.2 of this document).

4 System Certification Process

4.1 Introduction

To certify a System, the System Vendor submits a certification request to CTIA. The System must be comprised of recognized Subsystems. The vendor selects a CATL to evaluate compliance to IEEE Std 1725 using criteria set forth in the CRD in accordance with the applicable version of the CRSL. The CATL evaluates compliance and provides an evaluation report to CTIA. The vendor submits a Declaration of Compliance (see [APPENDIX E: System Declaration of Compliance](#)) and pays a certification fee to CTIA. CTIA certifies the System when all steps are complete.

See [APPENDIX H: Process Flowchart](#) for an overview of the process.

4.2 Certification Request

System Vendors shall submit certification requests via CTIA's online certification database at <https://cpo.ctia.org/>. User login accounts may be requested by selecting "I need a user name and password" on the login page.

Only System Vendors may submit System certification requests.

Systems shall be certified based on the host. Multiple models may be submitted in a single request provided there are no differences that impact the requirements of this Program. Any subsequent additions or changes to the System shall be entered as ECOs (see Section 4.5 of this document).

A new System may be certified using the supporting evidence of a previously certified System provided there are no differences that impact the requirements of this Program. The System Vendor shall provide a declaration to the CATL stating that the two Systems are identical in terms of the Program requirements. The declaration shall reference the host model number of the new System and the previously certified System. The CATL shall submit updated CATL Worksheets and CATL Evaluation Report referencing the model number of the new host. The evaluation report shall indicate that the evaluation from the previous System was used and shall include the justification provided by the System Vendor. The CRD version of the previously certified system will therefore apply to this new System, even if that CRD version is now expired. The Declaration of Compliance submitted by the System Vendor must reference the new model number.

The System Vendor shall select Battery System Certification Request and then select "Initial" Request Type. The System Vendor shall then enter information about the System, including selecting the recognized Subsystems that are part of the System. Recognized Subsystems will appear on drop-down lists for selection. If a subsystem is not yet recognized, the System Vendor shall check the "Pending Recognition" box (the System can be certified only after those subsystems become recognized, however).

- If the Host includes an unrecognized embedded (non-user replaceable) pack, the vendor shall check "Unrecognized Embedded Pack" and enter the manufacturer name and model number of the pack. The vendor shall identify the site(s) where the pack is manufactured. The vendor shall also identify the cell(s) used in the pack. If a cell is already recognized, it will appear on a drop-down list. If a cell is not yet recognized, the vendor shall check the "Pending Recognition" box (the System can be certified only after that cell becomes recognized, however). The unrecognized

embedded pack must meet all the requirements of the pack section of the CRSL, including sections 5.23 and 5.48 which shall be performed at the Host level.

- If the Host includes an embedded adapter, the vendor shall check “Embedded Adapter” and enter the manufacturer name and model number of the embedded adapter. As the adapter is an integral part of the Host and may not have a model number of its own, any identifying information may be entered.

The System Vendor shall select a CATL and request a start date.

The System Vendor shall also select the operators allowed to view the contents of the System Compliance Folder once the System is certified. Viewing the System Compliance Folder also allows for viewing of the Subsystem compliance folders.

The System Vendor shall upload a signed and scanned Declaration of Compliance (see [APPENDIX E: System Declaration of Compliance](#)). Submission of a hardcopy of the declaration by vendor shall not be required

CTIA will invoice the System Vendor for the CTIA fees as described in [APPENDIX A: CTIA Recognition and Certification Fees](#).

The CATL will receive an e-mail notification of the certification request. The CATL will log into the database (<https://cpo.ctia.org/>) to review and accept/reject the request. The database will send an e-mail notification to the submitter once the CATL has accepted/rejected the request. If the request is rejected, the submitter may re-assign the request to another CATL.

Once the request has been accepted by the CATL, the vendor may no longer make changes to the request. The vendor shall contact the CATL or CTIA if any changes need to be made to the data entered.

4.3 CATL Evaluation

The vendor shall provide, as appropriate, declarations, design data, manufacturing data, test data, test reports, audit reports, test samples and device specifications as required for the CATL to complete its evaluation.

Test samples covering all iterations of the System should be submitted. If all iterations are not submitted, justification shall be documented in the CATL evaluation report.

The CATL shall use the Certification Requirements Status List (CRSL) to determine the applicable recognition steps.

After accepting the request, the CATL shall work with the vendor to conduct an evaluation, which might include testing samples, reviewing supplied evidence or conducting an on-site audit⁴. The evaluation may start only after the vendor has entered the request into the database and the CATL has accepted the request.

Non-compliances will be resolved between the CATL and the vendor.

Should the CATL identify a potential problem with a requirement, it shall issue a Change Request (CR), with adequate justification, proposing a change in category status. The CR shall be sent to all active CATLs for review. The CATLs shall have 5 business days to comment on

⁴ An on-site audit may be required to evaluate a subsystem. The audit is product-specific and augments the manufacturing site authorization audit.

the CR. Comments arguing against the change shall include adequate justification. Upon mutual resolution of any comments, the requirement may be changed.

Test results from similar products may be used at the CATL's judgment. The CATL shall provide justification in the evaluation report for using these results.

Upon completion of the evaluation, the CATL shall log into CTIA's online certification database and:

- Enter the CRSL version used for the evaluation (the version to be used is one that is active on the date the evaluation report is uploaded to the database)
- Verify the System information (correcting and updating as necessary)
- Enter the start and end dates of the review
- Upload the CATL evaluation report and the completed CATL Worksheets (the report and worksheets shall not contain any confidential/proprietary technical information). The vendor may then view and download these documents via the database.

The CATL evaluation report shall have a cover page with the company logo and shall include the following information:

- 1) System Vendor name
- 2) Model number(s) of host
- 3) Hardware version of host
- 4) Software version of host
- 5) Vendor names and model numbers of system components (batteries, cells, adapters). Should a Subsystem contain multiple model numbers, the specific model numbers used within the System shall be clearly identified.
- 6) Review date(s)
- 7) IEEE 1725 and CRSL versions
- 8) Summary of review
- 9) Person(s) who conducted review
- 10) Contact point
- 11) Lab accreditation identifier (issued by accreditation body), CATL authorization code

CATL evaluation reports, CATL worksheets, and declarations will be accessible by the vendor via CTIA's online certification database and retained by CTIA for a period of 5 years from the date of recognition, after which all documentation will be destroyed.

Unless authorized by the Subsystem Vendor, the Compliance Folder will be maintained in confidence by CTIA.

4.4 Certification

Upon completion of the following items, the System will be certified:

- CATL evaluation report and completed CATL Worksheets uploaded by the CATL
- Signed Declaration of Compliance uploaded by the System Vendor
- Fully executed System Certification Agreement (see [APPENDIX F: Battery System Certification Agreement](#))

4.5 Changes to Certified Systems

Once a System is certified, the System Vendor shall evaluate any changes within the Subsystems that fall within the scope of IEEE 1725 to determine whether the changes impact the System certification. Changes that do impact the certification shall be submitted as an ECO (by logging into the CTIA certification database, selecting Battery System Certification Request and choosing "ECO" Request Type). Supporting evidence shall be provided to the CATL.

Changes could include, for example:

- Changes to system components (e.g., new revisions)
- Addition or removal of system components
- New HW/SW revisions of the host

The System Vendor shall upload to the database a signed and scanned updated Declaration of Compliance.

Once CTIA approves the CATL evaluation report, CTIA will upload a System Certification Agreement Amendment (see [APPENDIX G: Battery System Certification Agreement Amendment](#)) to the database. The vendor will be notified via e-mail. The vendor shall print, sign, scan and re-upload the agreement. CTIA will then approve the ECO request.

Once a System is certified, any required changes to the host model number entered into the certification database shall be submitted as a new request.

5 Certification Database

Certified Systems will be available for view, via CTIA's certification database, to

- The System Vendor
- The CATL that certified the System
- Operators authorized by the System Vendor to view the certified System

System information that can be viewed will include:

- Host vendor name and model number
- HW/SW version of the host
- Battery vendor name(s) and model number(s)
- Cell vendor name(s) and model number(s)
- Adapter vendor name(s) and model number(s)
- Date certified
- Declaration of Compliance
- CATL evaluation report

Recognized Subsystems will be available for view, via CTIA's certification database, to

- All System Vendors
- All Subsystem Vendors
- All Operators
- All CATLs

Subsystem information that can be viewed will include:

- Vendor name and model number
- Capacity (for Cells and Packs)
- Manufacturing Sites
- Revision #
- CRSL version used for the evaluation
- Date recognized

Note: The Subsystem Vendor can view all information entered in the database for their Subsystems, including the CATL evaluation reports and Declarations of Compliance.

Authorized cell manufacturing site detail will be available for view, via CTIA's certification database, to

- Cell Vendors (can view only their own sites)
- All CATLs (can view all sites)

Site information that can be viewed will include:

- Vendor name, site name and address
- Comments
- CRSL version used for the evaluation
- Date authorized

APPENDIX A: CTIA Recognition and Certification Fees

The fee for Subsystem recognition is:
\$2,500 for Cell, Pack or Hybrid– Initial
\$750 for Adapter - Initial
\$0 for Cell, Pack or Adapter - ECO

There is no fee for System certification.

These fees are separate from the fees charged by the CATL to evaluate compliance of Subsystems or Systems.

APPENDIX B: CATL Authorization Requirements

Overview

The CTIA Authorized Testing Laboratories (CATL) must be accredited under ISO/IEC 17025, “General Requirements for the Competence of Testing and Calibration Laboratories”, with the scope of accreditation being “CTIA Certification Requirements for Battery System Compliance to IEEE 1725”⁵. The purpose of this accreditation is: (1) to ensure labs have a quality system and are technically competent to perform testing, and (2) to ensure ongoing lab compliance with Program requirements and industry standards. The ISO/IEC 17025 accreditation must be granted by an ILAC (International Laboratory Accreditation Cooperation) member accreditation body.

The lab must also be assessed by a CATL Review Committee composed of CTIA-appointed representatives from Operator, System Vendor, Pack and Cell organizations as well as CTIA. There are two Operator representatives, two System Vendor representatives, one Pack representative and one Cell representative on the committee.

CATL Requirements

The CATL shall have the equipment and personnel necessary to validate all the recognition/certification steps identified in the CRSL. If the lab is unable to perform all requirements in the CRSL, the exceptions must be sub-contracted, per ISO/IEC 17025 guidelines, to another CATL. Personnel shall include one or more auditors who, either individually or as a team, have the following qualifications:

- 1) Relevant technical degree, or equivalent, with at least three (3) years relevant professional work experience and related product knowledge;
- 2) Professional auditor certification (e.g., American Society for Quality or equivalent) or completion of a certified Quality Management System (QMS) Auditor course from a recognized source (e.g. RABQSA or equivalent) and 2 years auditing experience; or 10 years of relevant auditing experience;
- 3) Being free from any internal and external commercial, financial, or other pressures and influences that may adversely affect the quality of his work;
- 4) Experience managing confidential information;
- 5) Experience in auditing Cell and Battery Pack manufacturing sites or equivalent processes;
- 6) Proficiency in reading and writing English language documentation;
- 7) Comprehensive understanding of the CTIA Certification Requirements for Battery System Compliance to IEEE 1725, CTIA BPMD and IEEE Std 1725

Assessment Process

- 1) The lab shall submit an application package to CTIA consisting of⁶:
 - a) Details demonstrating that lab meets the CATL Requirements above
 - b) Identification of the accreditation body to be used for ISO/IEC 17025 accreditation
 - If the lab is already accredited by this accreditation body (for other testing scopes), the lab shall inform CTIA of that accreditation body's procedure for expanding the lab's accreditation scope to include CTIA test plans.
 - If the lab is not already accredited by this accreditation body, the lab shall inform CTIA of the scheduled date of the ISO/IEC 17025 assessment
 - c) Written test procedures providing specific and detailed hardware, software, laboratory techniques, test methodology, and criteria used during the product evaluation. The test procedures shall include detailed information about the test equipment hardware and software and a step-by-step test execution procedure. If the lab is unable to perform all requirements in the CRSL, the exceptions must be sub-contracted, per ISO/IEC 17025 guidelines, to another CATL. Proof of such subcontracting agreement must be provided to CTIA. The CATL Review Committee may reject a lab's application if it feels the number of tests being outsourced is too high.
 - d) A full set of test reports covering all components of a System of the laboratory's choice. The test reports will be reviewed for completeness per Section 3.3 of this document.
- 2) After reviewing the application package for completeness, CTIA will forward the package to the CATL Review Committee.
- 3) The CATL Review Committee, which meets during the CTIA Certification Program Battery Working Group Meetings⁷, will review the procedures for:
 - Completeness - all required testing is covered in detail
 - Adequacy – the procedures appear to be correct for carrying out the testing required
- 4) At the end of the review, the CATL Review Committee will document any deficiencies and identify what the lab must do to resolve each deficiency. CTIA will forward the deficiencies list to the lab.
- 5) The lab shall resolve all deficiencies.

⁶ The package shall be submitted at least three weeks before the next CATL Review Committee meeting in order to be reviewed during that meeting

⁷ All representatives are required to be in attendance to review the applications. If a representative cannot be in attendance, that representative must appoint another representative from a like organization.

CATL Authorization Decision

CATL authorization will be granted after all deficiencies have been addressed and the lab has received accreditation to CTIA's test plan by the accreditation body. The accreditation scope does not need to reference the revisions or published dates of the CRD. CTIA will depend on ISO/IEC-17025 to ensure labs always use the latest revision of the CRD.

CATL License and Service Agreement

CTIA will grant CTIA Authorized Testing Laboratory status to the laboratory after the accreditation is granted and all requirements in the *CATL License and Service Agreement* are satisfied.

CATL Logo

The CTIA Authorized Testing Laboratory logo identifies a laboratory as authorized by CTIA to conduct certification testing:



Laboratories licensed by CTIA as CTIA Authorized Testing Laboratories (CATLs) are issued a CATL logo with a unique laboratory identifier number. Digital files for reproduction of the logo will be supplied to CATLs shortly after their authorization.

Declaration of Compliance

WHEREAS, _____,
[full name of Declarer]

a _____ corporation, with principal offices located at
[full address of Declarer]

(hereinafter the “Declarer”), has developed the following subsystem that meets the terms and conditions of IEEE 1725™, as further defined by:

Cell or Battery or Adapter Model Name(s) & Number(s):

(hereinafter the “Subsystem”);

WHEREAS, the Declarer issues this Declaration of Compliance in order to certify to CTIA that the Subsystem complies with all applicable provisions of IEEE 1725;

WHEREAS, for purposes of the CTIA Battery Certification Program, the Compliance Folder shall include this declaration, the CTIA Authorized Test Lab evaluation report and the CTIA Authorized Test Lab worksheets; and

WHEREAS, the Compliance Folder constitutes evidence demonstrating compliance of the Subsystem to IEEE 1725 and is maintained by CTIA.

NOW THEREFORE, the Declarer undertakes and certifies that the Subsystem, as manufactured and marketed, complies with all applicable provisions of IEEE 1725 and the current version of the CTIA Battery Program Management Document (BPMD);

FURTHERMORE, Declarer further undertakes and certifies that this Declaration of Compliance constitutes an essential element of CTIA’s Battery Certification Program, and acknowledges responsibility for compliance with all applicable provisions; and

FURTHERMORE, Declarer authorizes CTIA to audit the Compliance Folder.

I HAVE READ THE ABOVE DECLARATION OF COMPLIANCE, AND HEREBY AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. I AM AN OFFICIAL REPRESENTATIVE OF DECLARER, AND DULY AUTHORIZED TO CERTIFY AND ACT ON ITS BEHALF.

IN WITNESS WHEREOF, the undersigned has executed this Declaration of Compliance in his/her representative capacity on behalf of the Declarer, this _____ day of _____, 201_.

ATTESTED BY:

By: _____
Signature of Authorized Representative

Name:

Title:

APPENDIX D: Subsystem Recognition Agreement

BATTERY SUBSYSTEM RECOGNITION AGREEMENT

THIS AGREEMENT is made in Washington, D.C.,

this ____ day of _____, _____
(month) (year)

by and between

CTIA – The Wireless Association®
(“CTIA”)

and

("SUBMITTER")

RECITALS

Submitter has entered into a voluntary relationship with CTIA for the testing of certain battery subsystems manufactured by or for the Submitter, and Submitter has demonstrated to CTIA's satisfaction that the:

Cell or Battery or Adapter Model Name(s) &
Number(s): _____ ("Cell or Battery or Adapter")

meets CTIA's requirements for Recognition under CTIA's Battery Certification Program.

For these reasons, and of other good and lawful reasons and in consideration of the covenants set forth below, the parties agree as follows:

SECTION ONE RECOGNITION

1.1 The Recitals are hereby incorporated in the same manner as if the same were repeated herein. Submitter is hereby granted a non-exclusive license to represent the specified Cell or Battery or Adapter (hereinafter "Subsystem") as meeting CTIA's requirements for Recognition based on the guidelines set forth in the CTIA Battery Certification Program Management Document, incorporated herein. CTIA warrants that it has full power and authority to grant the rights herein granted.

1.2 CTIA will permit the use of appropriate references to CTIA and its Battery Certification Program solely in connection with the specified Subsystem.

1.3 References to CTIA and the CTIA Battery Certification Program shall not be misleading as to the extent of Recognition.

1.4 Submitter shall be entitled to state that the specified Subsystem meets CTIA's requirements for Recognition for as long as the specified Subsystem meets such requirements. Submitter shall discontinue use of CTIA's mark and reference to CTIA's Battery Certification Program upon receipt of written notice from CTIA to cease such use.

SECTION TWO COMPLIANCE

2.1 The specified Subsystem shall comply with all of CTIA's requirements for Recognition.

2.2 Submitter agrees that any tests or sampling of the specified Subsystem conducted by CTIA is only a check as to whether the specified Subsystem complies with CTIA's requirements for Recognition and in no way relieves the Submitter of its responsibility for the Subsystem.

SECTION THREE CORRECTIVE ACTION

3.1 Should CTIA conduct any assessments or examinations of the specified Subsystem that disclose units of the specified Subsystem do not comply with CTIA's requirements for Recognition, CTIA retains the right to revoke Recognition of the specified Subsystem. CTIA agrees to provide Submitter in a timely manner with the results of any assessments or examinations that disclose the specified Subsystem does not comply with the requirements of Recognition. Submitter shall comply with all applicable laws and regulations governing a recall of the specified Subsystem.

3.2 Submitter agrees that it will cooperate with and assist CTIA in ascertaining the facts needed to determine that the specified Subsystem complies with CTIA's Recognition requirements.

3.3 Submitter agrees that with prior written notice to Submitter, CTIA may notify vendors, authorities, potential users and others of any improper or unauthorized reference to CTIA, when in CTIA's opinion such notification is necessary in the interest of the public or for CTIA's own protection.

SECTION FOUR TERMINATION

4.1 This Agreement shall continue so long as the specified Subsystem meets the requirements as set forth in the CTIA Battery Certification Program Management Document, unless termination rights provided for in this Agreement are exercised.

4.2 If Submitter fails to comply with any of the terms and conditions of this Agreement, CTIA may immediately terminate or suspend this Agreement upon written notice to Submitter.

4.3 Upon termination of this Agreement, the license granted under Section 1.1. shall be canceled.

4.4 Termination of this Agreement by whatever means shall not affect any liability of the parties existing as of the date of such termination, and shall not relieve Submitter of its obligation to indemnify CTIA hereunder.

SECTION FIVE INDEMNIFICATION

5.1 Submitter indemnifies and holds harmless CTIA, its officers, directors, employees, members and agents, against any and all liability, loss, cost damage, claims, suits or expenses (including reasonable attorneys' fees and costs) of any kind whatsoever, arising in any way from any negligent or willful acts or omission related to or in breach of this Agreement by Submitter or its agents or employees, or from Submitter's use, marketing, or sale of the specified Subsystem, including but not limited to third party claims for injury or damage allegedly caused by the performance or failure to perform of the specified Subsystem or false or misleading advertising or marketing in connection with the specified Subsystem during the period of this Agreement or thereafter. Conversely, CTIA indemnifies and holds harmless Submitter, its officers, directors, employees, members, and agents against any and all liability, loss, cost, damage, claims, suits, or expenses (including reasonable attorneys' fees and costs) of any kind whatsoever, arising in any way from any negligent or willful acts or omission related to or in breach of this Agreement by CTIA, its agents or employees.

5.2 Submitter shall defend CTIA against claim to which its indemnity relates, provided that:

- (i) CTIA provides Submitter with notice of the claim promptly after CTIA becomes aware of such claim, and the notice shall state the facts giving rise to such claim;
- (ii) Submitter controls the defense or settlement of such claim, and Submitter shall not settle or otherwise dispose of such claim without CTIA's prior written consent;
- (iii) CTIA cooperates with Submitter in every reasonable way to facilitate the defense or settlement of such claim; and
- (iv) CTIA does not settle or otherwise dispose of such claim without Submitter's prior written consent, and such consent shall not be unreasonably withheld or delayed.

5.3 CTIA shall defend Submitter against claim to which its indemnity relates, provided that:

- (i) Submitter provides CTIA with notice of the claim promptly after Submitter becomes aware of such claim, and the notice shall state the facts giving rise to such claim;
- (ii) CTIA controls the defense or settlement of such claim, and CTIA shall not settle or otherwise dispose of such claim without Submitter's prior written consent;
- (iii) Submitter cooperates with CTIA in every reasonable way to facilitate the defense or settlement of such claim; and
- (iv) Submitter does not settle or otherwise dispose of such claim without CTIA's prior written consent, and such consent shall not be unreasonably withheld or delayed.

**SECTION SIX
LIMITATION OF LIABILITY**

6.1 Submitter acknowledges and agrees that CTIA shall not be responsible for the loss, damage, or claim in connection with the use or marketing of the specified Subsystem, whether liability is asserted in contract or tort (including negligence or strict liability). In no event will either party be liable to the other party, or to any third party, for the loss of profits, loss of use, loss of production, loss of goodwill, or incidental, indirect, or consequential damages of any kind.

6.2 In no event will Submitter be liable to CTIA, or to any third party, for special, incidental or consequential damages (including, without limitation, loss or use, time or data, inconvenience, commercial loss, lost profits or savings) to the full extent such may be disclaimed by law, even if Submitter has been advised of the possibility of such damages.

**SECTION SEVEN
NO APPROVAL**

7.1 This Agreement does not constitute CTIA's guarantee or warranty of the specified Subsystem and no representation of any kind by Submitter in connection with its use of the specified Subsystem or otherwise will directly or indirectly, explicitly or implicitly convey or suggest any such guarantee or warranty. CTIA may require that a statement disclaiming any CTIA guarantee or warranty must be included in the marketing and informational materials accompanying the specified Subsystem.

**SECTION EIGHT
INSURANCE**

8.1 Submitter will maintain during the period of this Agreement liability insurance of at least two million dollars in policy limits covering claims or suits arising from the specified Subsystem and will include CTIA as an additional insured on the policy as to matters covered by this Agreement, and Submitter shall furnish to CTIA evidence of that insurance.

[REST OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, CTIA and Submitter have executed this Agreement as of the dates set forth below.

CTIA – The Wireless Association[®]	SUBMITTER
By: _____ Robert Mesirov Vice President, Operations	By: _____ Name: Title:
By: _____ Mark Sargent Assistant Vice President, Certification Programs	
Date:	Date:

Declaration of Compliance

WHEREAS, _____,
[full name of declarer]

a _____ corporation, with principal offices located at
[full address of declarer]

(hereinafter the “Declarer”), has developed the following system, that meets the terms and conditions of IEEE 1725™, as further defined by:

Host Manufacturer Name, Model Name & Number:

Cell Manufacturer Name, Model Name(s) & Number(s):

Battery Manufacturer Name, Model Name & Number(s):

Adapter Manufacturer Name, Model Name & Number(s):

(hereinafter the “System”);

WHEREAS, the Declarer wishes to certify to CTIA and the Declarer’s carrier customer, based on the Declarer’s own testing and analysis of the relevant test results, that the System and associated documentation complies with all applicable provisions of IEEE 1725 (hereinafter “IEEE 1725 Compliant”);

WHEREAS, the Declarer issues this Declaration of Compliance, in order to so certify that the System complies with all applicable provisions of IEEE 1725;

WHEREAS, for purposes of the CTIA Battery Certification Program, the System Compliance Folder constitutes evidence demonstrating compliance of the System to IEEE 1725: and

WHEREAS the System Compliance Folder is maintained by CTIA.

NOW THEREFORE, the Declarer undertakes and certifies that the System, as manufactured and marketed, complies with all applicable provisions of IEEE 1725 and the current version of the CTIA Battery Program Management Document (BPMD);

FURTHERMORE, Declarer further undertakes and certifies that this Declaration of Compliance constitutes an essential element of CTIA’s registration of the System on CTIA’s Registry of Battery Systems, and acknowledges responsibility for compliance with all applicable provisions.

Declarer authorizes CTIA to audit the System Compliance Folder.

I HAVE READ THE ABOVE DECLARATION AND HEREBY AGREE TO ITS TERMS AND CONDITIONS.

IN WITNESS WHEREOF, the undersigned has executed this Declaration in his/her representative capacity on behalf of the Submitter, this _____ day of _____, 201__.

ATTESTED BY DECLARER

By: _____

Name:

Title:

APPENDIX F: Battery System Certification Agreement

BATTERY SYSTEM CERTIFICATION AGREEMENT

THIS AGREEMENT is made in Washington, D.C.,

this ____ day of _____, _____
(month) (year)

by and between

CTIA – The Wireless Association®
(“CTIA”)

and

("SUBMITTER")

RECITALS

Submitter has entered into a voluntary relationship with CTIA for the testing of certain battery systems manufactured by or for the Submitter, and Submitter has demonstrated to CTIA's satisfaction that the

Host Manufacturer Name, Model Name & Number:

Cell Manufacturer Name, Model Name(s) & Number(s):

Battery Manufacturer Name, Model Name & Number(s):

Adapter Manufacturer Name, Model Name & Number(s):

meets CTIA's requirements for Certification under CTIA's Battery Certification Program.

For these reasons, and of other good and lawful reasons and in consideration of the covenants set forth below, the parties agree as follows:

SECTION ONE CERTIFICATION

1.1 The Recitals are hereby incorporated in the same manner as if the same were repeated herein. Submitter is hereby granted a non-exclusive license to represent the specified battery system (hereinafter "System") as meeting CTIA's requirements for Certification based on the guidelines set forth in the CTIA Battery Certification Program Management Document, incorporated herein. CTIA warrants that it has full power and authority to grant the rights herein granted.

1.2 CTIA will permit the use of appropriate references to CTIA and its Battery Certification Program solely in connection with the specified System.

1.3 References to CTIA and the CTIA Battery Certification Program shall not be misleading as to the extent of certification.

1.4 Submitter shall be entitled to state that the specified System meets CTIA's requirements for battery certification for as long as the specified product meets such requirements. Submitter shall discontinue use of CTIA's mark and reference to CTIA's Battery Certification Program upon receipt of written notice from CTIA to cease such use.

SECTION TWO COMPLIANCE

2.1 The specified System shall comply with all of CTIA's requirements for battery certification.

2.2 Submitter agrees that any tests or sampling of the specified System conducted by CTIA is only a check as to whether the specified System complies with CTIA's requirements for battery certification and in no way relieves the Submitter of its responsibility for the System.

SECTION THREE CORRECTIVE ACTION

3.1 Should CTIA conduct any assessments or examinations of the specified System that disclose units of the specified System do not comply with CTIA's requirements for battery certification, CTIA retains the right to revoke certification of the specified System. CTIA agrees to provide Submitter in a timely manner with the results of any assessments or examinations that disclose the unit(s) of the specified System which do not comply with the requirements of certification. Submitter shall comply with all applicable laws and regulations governing a recall of any unit of the specified System or the specified System itself.

3.2 Submitter agrees that it will cooperate with and assist CTIA in ascertaining the facts needed to determine that the specified System complies with CTIA's battery certification requirements.

3.3 Submitter agrees that with prior written notice to Submitter, CTIA may notify vendors, authorities, potential users and others of any improper or unauthorized reference to CTIA, when in CTIA's opinion such notification is necessary in the interest of the public or for CTIA's own protection.

SECTION FOUR TERMINATION

4.1 This Agreement shall continue so long as the specified System meets the requirements as set forth in the CTIA Battery Certification Program Management Document, unless termination rights provided for in this Agreement are exercised.

4.2 If Submitter fails to comply with any of the terms and conditions of this Agreement, CTIA may immediately terminate or suspend this Agreement upon written notice to Submitter.

4.3 Upon termination of this Agreement, the license granted under Section 1.1. shall be canceled.

4.4 Termination of this Agreement by whatever means shall not affect any liability of the parties existing as of the date of such termination, and shall not relieve Submitter of its obligation to indemnify CTIA hereunder.

SECTION FIVE INDEMNIFICATION

5.1 Submitter indemnifies and holds harmless CTIA, its officers, directors, employees, members and agents, against any and all liability, loss, cost damage, claims, suits or expenses (including reasonable attorneys' fees and costs) of any kind whatsoever, arising in any way from any negligent or willful acts or omission related to or in breach of this Agreement by Submitter or its agents or employees, or from Submitter's use, marketing, or sale of the specified System, including but not limited to third party claims for injury or damage allegedly caused by the performance or failure to perform of the specified System or false or misleading advertising or marketing in connection with the specified System during the period of this Agreement or thereafter. Conversely, CTIA indemnifies and holds harmless Submitter, its officers, directors, employees, members, and agents against any and all liability, loss, cost, damage, claims, suits, or expenses (including reasonable attorneys' fees and costs) of any kind whatsoever, arising in any way from any negligent or willful acts or omission related to or in breach of this Agreement by CTIA, its agents or employees.

5.2 Submitter shall defend CTIA against claim to which its indemnity relates, provided that:

- (i) CTIA provides Submitter with notice of the claim promptly after CTIA becomes aware of such claim, and the notice shall state the facts giving rise to such claim;
- (ii) Submitter controls the defense or settlement of such claim, and Submitter shall not settle or otherwise dispose of such claim without CTIA's prior written consent;
- (iii) CTIA cooperates with Submitter in every reasonable way to facilitate the defense or settlement of such claim; and
- (iv) CTIA does not settle or otherwise dispose of such claim without Submitter's prior written consent, and such consent shall not be unreasonably withheld or delayed.

5.3 CTIA shall defend Submitter against claim to which its indemnity relates, provided that:

- (i) Submitter provides CTIA with notice of the claim promptly after Submitter becomes aware of such claim, and the notice shall state the facts giving rise to such claim;
- (ii) CTIA controls the defense or settlement of such claim, and CTIA shall not settle or otherwise dispose of such claim without Submitter's prior written consent;
- (iii) Submitter cooperates with CTIA in every reasonable way to facilitate the defense or settlement of such claim; and
- (iv) Submitter does not settle or otherwise dispose of such claim without CTIA's prior written consent, and such consent shall not be unreasonably withheld or delayed.

**SECTION SIX
LIMITATION OF LIABILITY**

6.1 Submitter acknowledges and agrees that CTIA shall not be responsible for the loss, damage, or claim in connection with the use or marketing of the specified System, whether liability is asserted in contract or tort (including negligence or strict liability). In no event will either party be liable to the other party, or to any third party, for the loss of profits, loss of use, loss of production, loss of goodwill, or incidental, indirect, or consequential damages of any kind.

6.2 In no event will Submitter be liable to CTIA, or to any third party, for special, incidental or consequential damages (including, without limitation, loss or use, time or data, inconvenience, commercial loss, lost profits or savings) to the full extent such may be disclaimed by law, even if Submitter has been advised of the possibility of such damages.

**SECTION SEVEN
NO APPROVAL**

7.1 This Agreement does not constitute CTIA's guarantee or warranty of the specified System and no representation of any kind by Submitter in connection with its use of the specified System or otherwise will directly or indirectly, explicitly or implicitly convey or suggest any such guarantee or warranty. CTIA may require that a statement disclaiming any CTIA guarantee or warranty must be included in the marketing and informational materials accompanying the specified System.

**SECTION EIGHT
INSURANCE**

8.1 Submitter will maintain during the period of this Agreement liability insurance of at least two million dollars in policy limits covering claims or suits arising from the specified System and will include CTIA as an additional insured on the policy as to matters covered by this Agreement, and Submitter shall furnish to CTIA evidence of that insurance.

[REST OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, CTIA and Submitter have executed this Agreement as of the dates set forth below.

CTIA – The Wireless Association®	SUBMITTER
By: _____ Robert Mesirow Vice President, Operations	By: _____ Name: Title:
By: _____ Mark Sargent Assistant Vice President, Certification Programs	
Date:	Date:

APPENDIX G: Battery System Certification Agreement Amendment

<enter amendment #> AMENDMENT TO AGREEMENT BETWEEN
CTIA – THE WIRELESS ASSOCIATION®
AND _____

This <enter amendment #> Amendment to the Battery System Certification Agreement (“Agreement”) dated _____, between CTIA – The Wireless Association® (“CTIA”) and _____ (“Submitter”) is entered into on this ___ day of _____, _____ (“Effective Date”) between CTIA and Submitter.

WHEREAS, CTIA and Submitter entered into the Agreement, wherein Submitter demonstrated to CTIA’s satisfaction that the

- o Host Manufacturer Name, Model Name & Number:
- o Cell Manufacturer Name, Model Name(s) & Number(s):
- o Battery Manufacturer Name, Model Name(s) & Number(s):
- o Adapter Manufacturer Name, Model Name(s) & Number(s):

meets CTIA’s requirements for Certification under CTIA’s Battery Certification Program;

WHEREAS, the Submitter has modified the certified Battery System by <adding or removing>

- o Host Manufacturer Name, Model Name & Number:
- o Cell Manufacturer Name, Model Name(s) & Number(s):
- o Battery Manufacturer Name, Model Name(s) & Number(s):
- o Adapter Manufacturer Name, Model Name(s) & Number(s):

WHEREAS, the Battery System with the modification(s) continues to meet CTIA’s requirements

NOW, THEREFORE in consideration of the mutual covenants contained herein and other good and valuable consideration, receipt of which is hereby acknowledged, the parties agree as follows:

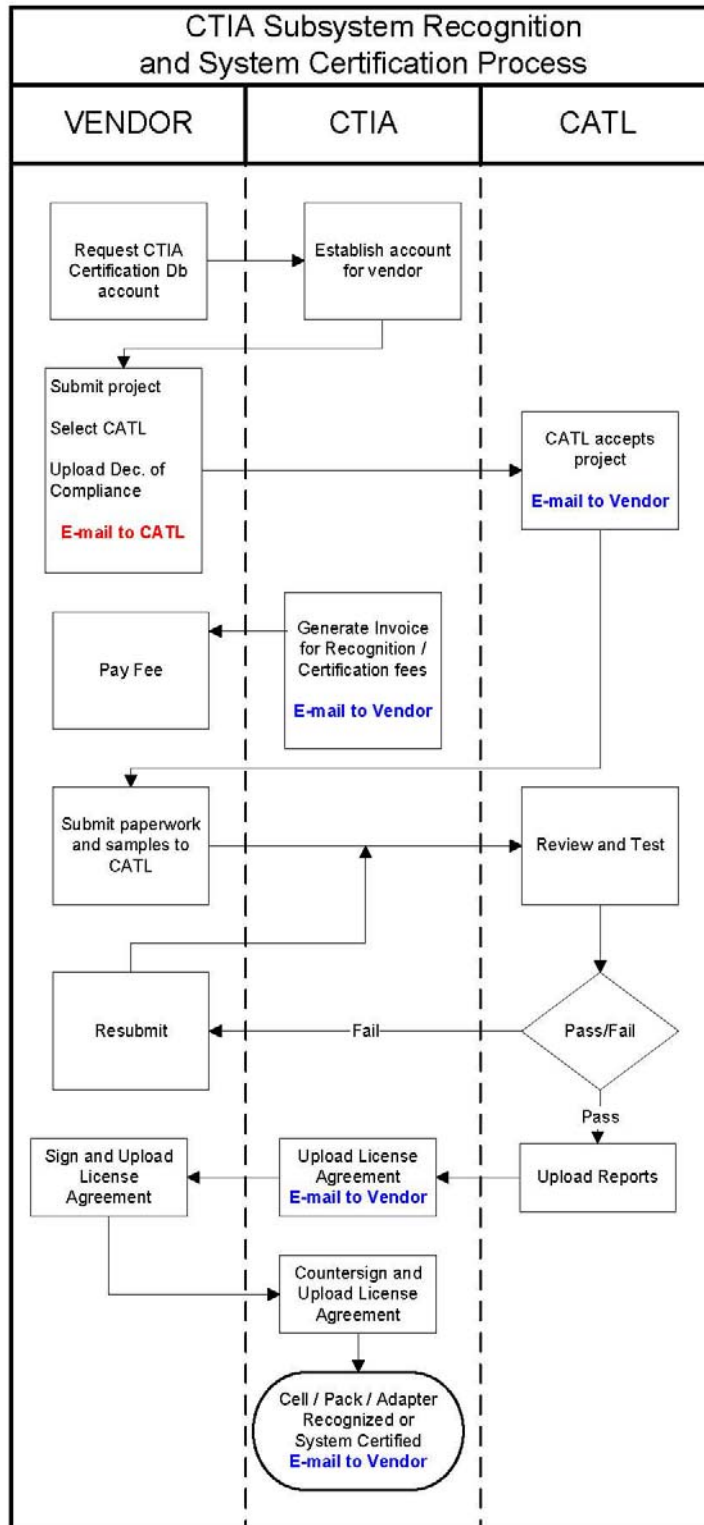
1. Terms used in this <enter amendment #> Amendment and not otherwise defined shall have the same meaning as set forth in the Agreement.
2. The first paragraph in the Recitals Section of the Agreement is hereby amended to include the modified Battery System as defined above.
3. This <enter amendment #> Amendment shall also be filed in the Compliance Folder as defined in the Battery Program Management Document.

4. Except as specifically modified by this <enter amendment #> Amendment, the terms and conditions of the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the Parties have caused this Amendment to be duly executed as of the date first written above.

CTIA – The Wireless Association®	SUBMITTER
By: _____ Robert Mesriow Vice President, Operations	By: _____ Name: Title:
By: _____ Mark Sargent Assistant Vice President, Certification Programs	
Date:	Date:

APPENDIX H: Process Flowchart



APPENDIX I: Change History

Revision	Date	Description of Changes
Rev 1.0	October 2006	<ul style="list-style-type: none"> Initial publication
Rev 1.1	December 2006	<ul style="list-style-type: none"> Added BCRO Worksheets System Vendor supporting evidence no longer provided to CTIA Updated CRSL definitions Updated registration process
Rev 1.2	February 2007	<ul style="list-style-type: none"> Clarified that the BCRO evaluation report and the completed BCRO Worksheets shall not contain any confidential/proprietary technical information about the System Updated Declaration of Compliance and Submitter's Declaration
Rev 1.3	March 2007	<ul style="list-style-type: none"> Updated Indemnification clause of Battery Registration Agreement
Rev 1.4	April 2007	<ul style="list-style-type: none"> Clarified examples of supporting evidence
Rev 1.5	July 2007	<ul style="list-style-type: none"> Corrected typographical errors in Battery Registration Agreement: first paragraph of Indemnification section and second paragraph of Limitation of Liability section Added note that definitions may differ from definitions in IEEE 1725 Added process for submitting multiple host models in a single request
Rev 1.6	October 2007	<ul style="list-style-type: none"> Added process for allowing use of supporting evidence and evaluation data of previously registered Systems Corrected typographical errors in Battery Registration Agreement: second paragraph of Limitation of Liability section and No Approval section Updated Corrective Action and Indemnification sections of Battery Registration Agreement Updated signature area of Battery Registration Agreement
Rev 2.0	January 2008	<ul style="list-style-type: none"> Updated to incorporate transition from Phase One to Phase Two
Rev 2.1	March 2008	<ul style="list-style-type: none"> Corrected hyperlink references Updated Subsystem Vendor and CATL Roles & Responsibilities Updated Subsystem Recognition and System Registration Processes Clarified no recognition fee for ECO
Rev 2.2	July 2008	<ul style="list-style-type: none"> Added battery pack recognition Added certification database process for cell manufacturing site authorization Updated cell recognition process to include identifying the manufacturing site(s) Added that vendor can contact CATL/BCRO if changes are needed to data entered in a request Clarified that non-compliances will be resolved between the CATL/BCRO and the vendor Clarified that documents uploaded to the database by CATL or BCRO are available to vendor

		<ul style="list-style-type: none"> • Updated Subsystem Recognition Agreement and System Registration Agreement execution processes
Rev 2.3	October 2008	<ul style="list-style-type: none"> • Added adapter recognition and system certification • Modified pack recognition request process • Defined test samples required for cells and packs • Updated Subsystem Declaration of Compliance and Subsystem Recognition Agreement to include battery and adapter
Rev 3.0	January 2009	<ul style="list-style-type: none"> • Removed System Registration (Phase One) procedures • Updated definition of Adapter • Updated Subsystem Recognition Process - CATL Evaluation section to address packs with multiple cell revisions and to address parallel recognition of packs and cells • Updated System Certification Process - CATL Evaluation to clarify samples required
Rev 3.1	March 2009	<ul style="list-style-type: none"> • Updated Subsystem Recognition Process - CATL Evaluation section to address packs with multiple cell models • Clarified cell manufacturing site re-audit requirement • Added subsystem de-recognition process
Rev 3.2	September 2009	<ul style="list-style-type: none"> • Added instructions for vendor to inform CTIA if P.O. number is required on certification fee invoice • Renamed De-Recognition section to De-Listing and revised procedures. • Clarified that multiple models of a subsystem may be submitted in a single request • Added process for re-labeled subsystems • Updated System ECO process • Added Battery System Certification Agreement Amendment • Included provisions for embedded battery packs and adapters
Rev 3.3	November 2009	<ul style="list-style-type: none"> • Updated definitions • Added process flowchart • Changed "Other Recognition Request" to "Hybrid Recognition Request" • Clarified de-listing process • Clarified System Certification Requests with embedded packs or adapters • Added Hybrid to Subsystem Recognition fee schedule
Rev 3.4	February 2010	<ul style="list-style-type: none"> • Updated process for re-labeled subsystems • Added Embedded Packs and Embedded Adapters sections to Subsystem Recognition process • Updated process for certification of systems with embedded packs and embedded adapters
Rev 3.5	April 2010	<ul style="list-style-type: none"> • Updated Scope • Added meeting attendance requirements for CATLs • Added to Cell Manufacturing Site Authorization section: Sites not re-audited after the 12-month period will be removed from the list of authorized cell manufacturing sites; cells manufactured at those sites may no longer be submitted for recognition. • Clarified that changes to subsystem or host model numbers requires the submission of a new request