

Schedule B



QUALIFICATION POLICY

Certification Program March 2017



HDBaseT Alliance

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Qualification Policy

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INTRODUCTION

The HDBaseT Alliance Qualification Policy is a high-level guide to the certification program and should serve as a framework to understand program terminology, procedures and policies. This document will require updates as the program grows and matures. Relevant supporting documents will be referenced in the appropriate sections within this document and will offer additional details regarding the outlined policies and processes.

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ROLES AND RESPONSIBILITIES

HDBaseT Alliance Board of Directors (BoD)

As defined in the HDBaseT Alliance Bylaws, the HDBaseT Alliance Board of Directors (BoD), facilitates the Certification Program by:

- Providing strategy and business direction to the Technical Committee (TC), Certification Subcommittee (CS), and Certification Program Manager (CPM).
- Review and approval of TC and CS recommendations for policy changes which impact the Trademark License Agreement

HDBaseT Alliance Technical Committee (TC)

The HDBaseT Alliance Technical Committee (TC) is responsible for the development of all technical components of the Certification Program, including:

- HDBaseT Technology specification writing
- HDBaseT Compliance Test Specification (CTS) development
- HDBaseT Test equipment definition and development

The TC also acts as the clearing house for CS and CPM recommendations to the BoD, including:

- Review and approve CS and CPM recommendations for policy changes which do not impact the Trademark License Agreement
- Review CS and CPM recommendations for policy changes which impact the Trademark License Agreement and recommend to the BoD for final approval

HDBaseT Alliance Certification Subcommittee (CS)

The HDBaseT Alliance Certification Subcommittee (CS) is responsible to develop and oversee the HDBaseT Alliance Certification Program. Reporting to the TC, the CS is responsible for all activities related to certification, including but not limited to:

- Development and maintenance of HDBaseT Alliance Qualification Policy
- Oversee certification related expenditures and provide recommendations related to certification program budget needs such as:
 - a. Legal counsel for Cease & Desist letters concerning incorrect logo use
 - b. Development of CTS defined test equipment
 - c. Expenses related to the Audit of a Recognized Test Facility (RTF)
- Provide frequent reviews and audits of program rules procedures and processes, and recommend changes as appropriate
- Review and approval of Recognized Test Facility (RTF) applications
- Process Test Session Reports
- Award certification benefits to applying companies as appropriate and add products to Certified Products List

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- Implement certification business strategies as determined by the BoD and recommend changes as appropriate
- Review Exception Requests and direct CPM communications with requesting company per the Exception Request Policy

Certification Program Manager (CPM)

The Certification Program Manager (CPM) acts under the direction of the CS to manage the development and implementation of the HDBaseT Certification Program. The responsibilities of the CPM include:

- Maintenance of administrative and process documents
- Manage and document Exception Requests
- Acting as the primary contact to certification related vendors
- Provide updates and reports to CS
- Manage day-to-day operations of the program
- Receive reports, monitor market and notify the CS of HDBaseT Mark misuse related to HDBaseT Certified Products, as defined in the Trademark Use Policy

Certification Program Administrator (CPA)

The Certification Program Administrator (CPA) acts under the direction of the CPM to administer the approved Certification Program, and acts as the primary contact for vendors interested in having products certified. The responsibilities of the CPA include:

- Answer first tier member and non-member questions regarding HDBaseT Certification and Certified Products
- Escalate questions for CPM or CS
- Report Program interest to the CPM
- Administer program procedures including:
 - a. Accept and review RTF Applications
 - b. Maintain RTF Directory on the HDBaseT Website
 - c. Verify test results
 - d. Add products to Certified Products List
 - e. Collect executed Trademark License Agreements

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RECOGNIZED TEST FACILITY DIRECTORY

The HDBaseT Alliance will maintain a Recognized Test Facility (RTF) Directory that is available on the CTS Automation System.

BASIC STEPS FOR TEST FACILITY RECOGNITION

Recognition Process

The HDBaseT Alliance will maintain a Recognized Test Facility (RTF). A testing facility must be initiated and/or approved by a Promoter Member of the HDBaseT Alliance in good standing with a proven ability to support testing of third party products using the correct combination of products and software recognized as the HDBaseT Certification “Golden Unit” for specification 1.0 and 2.0 or any other future specification. The equipment list to assemble an approved Golden Unit will be made available to interested Promoter members by the HDBaseT Alliance BOD, upon request.

The designated RTF shall set the product testing online rules at the testing facility for the applicable products; details on the RTF facility and testing process will be made available by the HDBaseT Alliance to members, following completion of the membership process.

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TEST CODE OF CONDUCT

HDBaseT Alliance Member companies will submit products to RTF for testing. Both the RTF and submitting member companies are expected to adhere to the Test Code of Conduct. The guidelines below are documented to preserve the integrity and credibility of the HDBaseT Alliance Certification Program. The Test Code of Conduct applies to all parties involved in HDBaseT Certification, including but not limited to staff, volunteers, Directors and third-party service providers.

According to the Test Code of Conduct, all parties shall:

1. Comply with the HDBaseT Alliance bylaws, policies, procedures and supporting documents
2. Adhere to all applicable laws, regulations and statutes
3. Respect confidentiality agreements, anti-trust laws and HDBaseT Alliance anti-trust guidelines
4. Perform tasks fairly, accurately and honestly
5. In the case of vendors wishing to accompany a product during testing, a professional work environment should be maintained avoiding any behavior that unreasonably interferes with other's ability to carry out responsibilities
6. Disclose any conflicts of interest or relationships that could become conflicts of interest

The HDBaseT Alliance reserves the right to pose sanctions on parties which are found to have failed to comply with the Test Code of Conduct. Such corrective actions for RTF can include, but are not limited to, removal from the RTF Directory, suspension of membership privileges and termination of membership. Consequences for submitting member companies can include but are not limited to, banishment from participation in future testing, suspension of membership privileges and termination of membership. In the case where RTF or submitting member company membership is terminated, immediate notice will be provided to the remaining HDBaseT Membership.

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BENEFIT OF THE HDBaseT ALLIANCE CERTIFICATION PROGRAM

The primary HDBaseT Alliance Certification Program benefits are:

Use of the HDBaseT Alliance Logo on Certified Products

Per the Trademark License Agreement, products that have met the criteria outlined in this document may use the HDBaseT Alliance Logo in accordance to the guidelines set-out in the Trademark Use Policy. Certified vendors may use the HDBaseT Alliance Logo:

- On Certified Products or products that include Certified Portions;
- On marketing material for Certified Products or products that include Certified Portions; and
- On directions or other packaging for Certified Products or products that include Certified Portions.

Use of the HDBaseT Alliance Power Over HDBaseT (PoH) Logo on Certified Products

Per the HDBaseT Alliance Trademark Use Policy, products that have met the criteria outlined in this document may use the HDBaseT Alliance PoH Logo together with the HDBaseT Alliance Logo, in accordance to the guidelines set-out in the Trademark Use Policy. Please note that products that declare support of PoH (30 or 100 watts) must declare this functionality on the appropriate CDF and be confirmed by the RTF. Once certified, vendors may use the HDBaseT Alliance PoH Logo and HDBaseT Alliance Logo as follows:

- On PoH Certified Products or products that include PoH Certified Portions
- On marketing material for PoH Certified Products or products that include PoH Certified Portions
- On directions or other packaging for PoH Certified Products or products that include PoH Certified Portions

Inclusion of Products on the Certified Products List

Companies that have successfully certified products will also benefit from HDBaseT certification related marketing efforts. The HDBaseT Alliance website includes a Certified Products List that features all granted certified products. Each listing includes:

- Member company name
- Link to member company website
- Member company sales contact information
- Product type
- Product name & model
- Product definition
- Short product description
- Date certification was granted
- HDBaseT Certification Program revision (i.e. 1.0, 1.1, etc.)

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Access to Member Only Information

The Alliance will also maintain a section in the HDBaseT Alliance Members SharePoint Repository to host member-only Certification related documents. The page will include all information necessary to pursue recognition of a Certified Product including:

- Qualification Policy
- Compliance Test Specification
- Trademark License Agreement
- Trademark Use Policy
- RTF Resources
- Vendor and RTF Test Packets
- Revision history of program

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Member and Non-Member Access to HDBaseT Alliance Support

The HDBaseT Alliance Certification Program is available to HDBaseT Alliance members only. The CPM and CPA are available to both members and non-members who have questions about the program. The CPM will monitor interest from non-members and work with the CS to determine the program's policy regarding non-member participation in the future.

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BASIC STEPS FOR PRODUCT RECOGNITION

1) Pre-Testing

- A member company interested in having their product certified will review the Member Certification Packet available on the HDBaseT Alliance member SharePoint repository, or by request to admin@hdbaset.org
- The member company which chooses to participate in the HDBaseT Certification Program, will review the list of RTF available on the HDBaseT website or by request to admin@hdbaset.org and begin conversations to schedule testing with their preferred RTF
 - These conversations will likely include exchange of the Capabilities Declaration Form (CDF) found on pages 98-105 of the Compliance Test Specification. This form allows the RTF to more accurately estimate the time and expense required to support a member request.
- When the RTF and member agree on the testing schedule and cost
 - The RTF will provide the member with a unique Test Session Code (TSC) and will notify the HDBaseT Administration. The TSC will include a unique prefix for the RTF followed by a running number

2) Testing

- During testing the submitting member company may assign an employee to physically accompany a product through testing, however, it is expected that most members will ship products to the RTF and allow RTF staff to perform all required work.
- It is important to understand that the RTF is not be expected to provide debugging unless they suspect a flaw in the Golden Unit (a reference unit free of bugs) or have otherwise contracted with the member to provide such assistance.
- The RTF is expected to provide testing updates to the CPM via HDBaseT Administration no less frequently than every seven (7) days with:
 - The TSC under test
 - Test cases still pending results
 - Any issues that may affect passing status
 - Estimated date to complete testing

3) Post-Testing

- The RTF will email test results to the CPA via HDBaseT Administration and copy the member company
 - Failing results end the process and close the Test Session Code
 - Member companies may arrange new testing with the RTF, but must schedule this new testing session with the chosen RTF and resubmit the RTF selection form.
- For a passing test result, the member company will submit the Application Form.
- The CPA will verify receipt of the application, provide the member with a draft of the products appearance on the Certified Products list and provide a copy of the Trademark License Agreement to the member company.
- After the Trademark License Agreement has been received and the draft product listing has been approved, the CPA will provide the vendor with the HDBaseT Alliance logo and with the Trademark Use Policy. Thereafter, the product will be added to the Certified Products List.
- The CPM will send a final confirmation email to the member company when their product is visible on the HDBaseT Alliance Certified products List

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PRODUCTS SUBJECT TO TESTING

HDBaseT Certified Products List

The product types that are eligible for the HDBaseT Certified Products List are:

- HDBaseT Source device
- HDBaseT Sink device
- HDBaseT TX Extender device
- HDBaseT RX Extender device

HDBaseT Recommended Cable List

A subset of tests has been defined to add member cable products to the HDBaseT Recommended Cable list. The process to qualify a cable for the Recommended Cable List is identical to the above detailed Basic Steps for Product Recognition.

Use of the HDBaseT Alliance Recommended Cables Logo on Recommended Cables

Per the HDBaseT Trademark Use Policy, products that have met the criteria outlined in this document may use the HDBaseT Alliance Recommended Cables Logo in accordance to the guidelines set-out in the Trademark Use Policy. Certified vendors may use the HDBaseT Alliance Recommended Logo:

- On directions or packaging for Recommended Cables or products that include Recommended Portions
- On marketing material for Recommended Cables or products that include Recommended Cables

Certification Program for Power over HDBaseT (PoH) Cables

A subset of tests has been defined in cooperation with UL LLC, intended to add member cable products into the HDBaseT Certified PoH Cable list.

In order to qualify for the HDBaseT (PoH) Cables Certification program, the cable is first required to be an **HDBaseT Recommended Cable**. The qualification for a cable for the Certified PoH Cable List is done through UL. More information can be found at: http://industries.ul.com/wp-content/uploads/sites/2/2014/01/UL_HDBaseT_sellsheet_letter_v5_WEB.pdf.

Use of the HDBaseT Alliance PoH Logo on PoH Certified Cables

Per the HDBaseT Trademark Use Policy, products that have met the criteria outlined in this document may use the HDBaseT Alliance PoH Logo in accordance to the guidelines set-out in the Trademark Use Policy. Certified vendors may use the HDBaseT Alliance PoH Logo:

- On directions or packaging for Recommended Cables or products that include Recommended Portions
- On marketing material for Recommended Cables or products that include Recommended Cables

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Similar Product Recognition

HDBaseT Alliance enables member companies to submit one product to RTF testing for a group of similar products. Similar products may advance directly to the Post Testing phase, as described above in the Basic Steps for Product Recognition, should they submit the following additional materials:

- Provide a complete CDF, as found in pages 98-105 of the Compliance Test Specification to the CPA via HDBaseT Administration
- Reference the previously certified product in the space provided on the application form
- Each similar product must submit a unique application

A similar product is defined as having the same HDBaseT features, characteristics and behaviors and in comparison to the previously certified product must meet the following criteria:

- Identical or reduced CDF
- Identical HDBaseT chip-set
- Identical board layout
- No other major HW changes that may affect HDBaseT performance

NOTE: It is the responsibility of the member to guarantee that similar products have the same HDBaseT behavior and characteristics.

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HDBaseT Vendor ID

Each member is assigned with a unique vendor identification no. (“Vendor ID”) for incorporation into product development, which is a requirement for passing Certification from the Alliance as assurance for interoperability. A member without this Vendor ID should contact HDBaseT Administration for the assigned number. Also, any members with questions on implementation should contact their chip provider to ensure Vendor ID numbers are implemented correctly on products to be tested.

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COSTS OF THE HDBaseT CERTIFICATION PROGRAM

Cost of testing with RTF

The HDBaseT Alliance has agreed that it is sensible for RTF to charge a fee for product testing services. This fee is reasonably expected to include:

- Fulfillment of all RTF duties as outlined in the RTF Test Packet and RTF Application Packet
- Complete testing of all applicable tests outlined in the Compliance Test Specification
- Delivery of test results to the HDBaseT Alliance and Vendor within 5 business days of the stated testing start date, receipt of TSC or receipt of product to be tested (whichever occurs last).

For more information on the various RTF please refer to the HDBaseT Alliance Website (<http://www.hdbaset.org>).

EXCEPTION REQUESTS

A member may request an exception to a failed test result to reverse the decision and deem member's product as if it had passed the test. The process to address these requests is:

- Requesting of Exception from CPM
 - The member may submit a request for exception within 30 days of result submission. This request can be in the form of an email or official letter and should include:
 - TSC
 - Identify the test to be excused
 - Describe justification for the exception
- Review of request
 - The CPM will review the exception request. The company name will not be disclosed. Then the CPM will consult with the CS for technical guidance
- Grant of Exception
 - In the case where the CS agrees to the requested exception the CPM will notify the member and proceed with collecting the member application and payment
 - The CPM will add the new exceptions to the Exception List which will be created and maintained by the CPM for an equivalent use in future applications
- Mandatory update to member product marketing
 - In the case where the exception requested applies to an optional feature, and the CS is of the opinion that the fail result is valid, it may be determined that a product can receive recognition by removing all claims of integrating the optional feature
 - The CPM will notify the member of this result and provide appropriate instructions

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- Additional Testing
 - The CS may decide that additional testing is necessary before making a verdict. In this case the product will be retested at no additional cost to the member by either a CS company or another designated RTF
 - Pending the results of additional testing the CS will determine the correct next steps
- Rejection
 - Upon review the CS may find no valid argument or adequate justification for an exception.
 - In this case the CPM will notify the vendor of the need to make corrections to their product and submit it for testing under a new Test Session code
- RTF Notification
 - In the case where an exception is granted, it will be clearly recorded and provided to all RTF to ensure the exception is considered in future tests.
 - The CPM will also review received results to verify the exception has been considered in any previous fail circumstance.