

## Compliance & Interoperability Working Group

### 1394 Compliance and Interoperability Workshop Guidelines

### **Overview**

The 1394 Compliance and Interoperability Workshop is a 1394 Trade Association event organized by the Compliance and Interoperability Working Group. The primary goals of the event are:

- Provide an environment for the compliance and interoperability testing of 1394 hardware and software products from 1394 Trade Association member and non-member companies.
- Support and promote a positive end user experience with 1394 products.
- Provide an opportunity for developers to meet on a regular basis to discuss interoperability issues and concerns.

The workshop will be a 2-3 day event. During this time representatives from participating companies will be able to test the operation of their products with products from the other participants. Interoperability testing sessions will be private and between two companies at a time. Three mandatory suites will be provided for earning the Compliance Logo.

### **Description**

The workshop will have three main activities in the following order:

#### *Participant registration and test session scheduling.*

Representatives from the participating companies will register for the workshop. Individual testing sessions, two companies per session, will be scheduled by the organizers. Pre-registration of attendees and devices on the 1394ta.org website is STRONGLY encouraged.

Registrants will be required to provide details about their product and register as either a stationary or roaming tester. Stationary testers will be required to reserve a room at the plugfest hotel. Registrants must provide the product name, H/W version, S/W version, etc. This information will be exchanged during the test sessions. Stationary testers include PC platforms, centralized consumer electronics (e.g. set tops, VCRs, etc.). Roaming testers include application specific products (e.g. camcorders, video conferencing cameras, scanners, storage etc.).

#### *Individual interoperability test sessions.*

During the test session the two scheduled participants will meet in private (usually a hotel room) to execute any interoperability tests mutually agreed upon. The test session must meet the Interoperability Test Procedure Requirements outlined later in this document. Detailed results of the tests will be private.

Each company will have the opportunity to participate in multiple test sessions during the workshop. It is expected that these test sessions will take most of the workshop time (3-4 days) and that the participants will testing almost all of that time. Test sessions will be 30-45 minutes in length with 10 minutes in each hour reserved for moving between test suites.

Participants with the larger, less mobile, products under test, e.g. desktop PC's, will be registered as '*stationary testers*' and will set up the products and test environments in individual hotel rooms (or suites). Participants registered as '*roaming testers*', i.e. registrants with products that can be carried, will move from room to room between test sessions.

### ***Compliance Logo test Suites(mandatory for earning the Compliance Logo)***

In addition to the individual company testing rooms (suites), there will be other test suites provided by the 1394TA. Availability will begin at the 3q2002 plugfest. Passing these are required for earning the Compliance logo. The functional operability tests for AV products will not be available at the 3q2002 plugfests. AV products may wish to attend the 3q2002 plugfest in order to complete 3 of the 4 suites.

- 1394 Base Electrical. This node would test the most basic functions required of all 1394 devices. Draft specification is available.
- Network Interoperability Typical consumer user configurations would be available for testing. Details to be determined.
- Functional Operability, e.g. validation of correct functional operation.

### ***Informal test session***

There will also be a general informal test session in the middle of the workshop. All workshop attendees will be invited and encouraged to participate. The purpose of this session will be to connect as many devices as possible on a single 1394 bus and test the limits of bus enumeration and operation. The procedures and results will be informal.

All attendees are encouraged to bring as many 1394 devices as they have available. The more devices the more exciting and challenging the group test session becomes.

### ***Procedures and Guidelines***

1. At this time, there are no restrictions on the type or maturity of 1394 product that may be brought to the workshop. Products may be evaluation systems, prototypes, pre-production, or production devices. Products may be silicon devices, systems, hardware or software. Products do not have to be complete or fully functional.
2. Participating companies must be members of the 1394 Trade Association in good standing or non-member companies with 1394 products and have agreed to and signed these plugfest participation guidelines.
3. The workshop is not a public event. Members of the press may not attend nor report on the procedures or results of the workshop.
4. Workshop participants agree not to disclose or publish workshop results.
5. Participants are expected to bring all the hardware and software, including device drivers or diagnostic equipment, required to test their product.
6. The individual test sessions are private. Mutual information exchange is at the discretion of the participants. NDA's (non disclosure agreements) are not required, but may be used at the option of the participants. Participants should respect the privacy of the test sessions and wait until their scheduled time before entering a test suite.
7. Testing procedures are at the discretion of the participants. It is expected that test procedures will depend on the types of devices under test and may change from session to session.
8. Session test results will be reported as *pass/fail/not-applicable*. These results will be used to monitor the overall progress of the workshop and interoperability in general. No detailed session results will be required.
9. The reported test result for each session will be determined and mutually agreed upon by the two session participants. If both parties cannot agree on a session outcome, then the outcome shall be reported as *not-applicable*.
10. Any device or system registered for Compliance Logo testing that demonstrates a *passing* outcome for 80% or more of the scheduled interoperability sessions and passes testing in the three mandatory Compliance test suites will be placed on the Workshop Compliance and Interoperability List. This list will be available to 1394 TA members upon request. The list is not public. Sessions that result in a *not-applicable* outcome will not be used in compiling overall results. The results for each participating product will be reviewed by the organizers. The organizers reserve the right to drop a product from the listing if inconsistent results are present. For example, a product that completes the interoperability testing with half its tests sessions recorded as not-applicable and the other half passing would be considered suspect and possibly dropped from the list at the sole discretion of the organizers.
11. The primary purpose of the workshop is to test compliance and interoperability. The general testing session at the end of the workshop will be open to all workshop registrants. Participation is encouraged, but is not required. It is expected that all participants will be able to view all the products tested during this session.

## ***Interoperability Test Procedure Requirements***

Although the specific interoperability tests used during a session will be determined by the participating company(ies), the following guidelines should be followed.

1. *Enumeration*: The roaming device is attached to the stationary device while both devices are operational. Self ID should complete correctly and enumeration specific to each device should complete correctly.
2. *S/W and Driver load*: In the case of PC-based systems software and drivers should be loaded upon successful enumeration.
3. *Operation*: Demonstrate basic end user operation.
4. *Unplug & Plug*: Demonstrate clean disconnect and reconnect. If more than one port is available on the stationary product, use different ports.
5. *Repeat Operation*: Repeat basic operation.

Please do not register at the hotel on your own. Once you register with the 1394TA, the organizers will assume that you and your company are participating in the workshop. Therefore you will be assigned a suite in one of our blocked rooms. The Workshop organizers have reserved a block of rooms for workshop participants in one location of the hotel in order to facilitate testing logistics.

The hotel can provide additional tables if needed. Please submit your request directly to [tinal@1394ta.org](mailto:tinal@1394ta.org).

## ***Registration***

All attendees of the plugfest must register prior to arrival at the event. Attendees are required to register themselves as well as their devices on the web site, [www.1394ta.org](http://www.1394ta.org). There is a \$100 fee for each member company attendee to cover the cost of breaks, lunches and meeting rooms.

Guests of the plugfest who are NOT members of the 1394 Trade Association, are required to register as a company before their device or attendees can be registered. Upon company registration and payment of the \$300 fee, you will receive a code that will allow attendee and device registration.

For the present there is no limit to the number of times that a non-1394TA member company can attend a plugfest. Non-1394TA member must first provide a signed statement confirming they have read and will comply with the plugfest guidelines document published on the Trade Association's web site.

Workshop participants are expected to provide all their own equipment and products for testing.

## ***Costs***

- Workshop participants are expected to provide their own travel, lodging, and living expenses for both lodging and testing rooms.
- Non-1394TA member companies with product(s) to plugfest may attend for a nominal fee of \$300.
- Each plugfest participant will be charged a nominal fee of \$100 to cover general meeting room, lunch and other incidental expenses.
- A testing fee of \$500 will be charged to 1394TA member companies per product which is submitted for testing in the three required Compliance Logo suites. The testing fee for non-member companies is \$1500 per product which is submitted for testing in the three required Compliance Logo suites.

## ***Organization Contacts***

Organizing sub-committee:

Dave Thompson, LSI                      Dave.Thompson@lsi.com  
Richard Mourn, Quantum Parametrics                      [rmourn@quantumparametrics.com](mailto:rmourn@quantumparametrics.com)

## ***Planned Participants***

As participants register their device, a list, including company name and device registered will be available on the web page. Please check the web site regularly for updated information.