

**CableLabs®**

**ETV Interop**

**October 4-8, 2010**

**Request for Information**

**August 23, 2010**

**Responses due September 13, 2010**

**Cable Television Laboratories, Inc.**

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## Objective

In order to ensure interoperable implementations of the ETV Specifications, CableLabs is hosting an Interoperability Event (“Interop”) to provide vendors an opportunity to test pre-production and development versions of hardware devices and software applications. The interop will provide a variety of manufacturers, application developers and implementers an opportunity to work together in CableLabs’ laboratory environment to develop and test interoperable solutions.

CableLabs is currently seeking information from ETV application developers, user agent developers, and support and test equipment manufacturers that are prepared to bring forward their expertise and participate in the ETV Interop being hosted by CableLabs in Louisville, CO during the week of October 4-8, 2010.

## Tentative Schedule:

|                       |  |
|-----------------------|--|
| Monday, October 4:    | Arrival, orientation, setup                            |
| Tuesday, October 5:   | Interoperability among participants                    |
| Wednesday, October 6: | Interoperability among participants                    |
| Thursday, October 7:  | Demo Day   |
| Friday, October 8:    | Summarize results, debrief, tear down, and travel home |

Demo Day: CableLabs may invite cable operators and other guests to attend demonstrations from the Interop. Participants will have the opportunity to showcase their work.

## Goals for the Interop

- Prove out the latest ECs for the CODF Specification
- Evaluate interoperability of ETV Applications across ETV User Agents (I04/I05)
- Evaluate progress of I06:
  - ETV User Agents at I06
  - Streamer/Carousel implementations of I06 signaling
  - ETV Application Authoring Tools at I06
  - Any I06 ETV apps that may be available

## Use Cases

The following use cases have been identified by representatives from MSOs, Canoe, and CableLabs. CableLabs is seeking vendors to assist in creating test cases for these scenarios. CableLabs will also provide I06 test applications to support many of the use cases.

1. Stream third party I04 applications (from interop vendors) on the plant and evaluate their functionality across all ETV User Agents in the interop.
2. Stream an I06 ETV Application and verify that I04/I05 User Agents are not impacted, and properly ignore the I06 application.
3. Stream an I04 application and verify that I06 ETV User Agents can properly run them.
4. Stream both I04 and I06 apps in the same service and verify that I04/I05 ETV UAs properly run the I04 application, and I06 ETV UAs can properly run both applications.
5. Evaluate if ETV User Agents properly use an I04 data resource in an I06 app (note this is not an explicit requirement in the specification but a desired interoperability feature).
6. Stream I04 and I06 apps in separate data carousel PIDs.
7. Persistence in I06 – run various apps and evaluate different persistence scenarios:
  - a. App sets persistent state item with specific expiration; run second app (new app id, same orgid), to verify that item is accessible. Wait the expiration period. Run second app again to verify item is no longer available.
  - b. App sets persistent state item. Run second app with different orgid to verify item is not accessible.
  - c. App sets persistent state item with session attribute set to FALSE. Cycle power on STB, evaluate if persistent item is still available within expiration period. Wait expiration period, verify persistent item is not available after expiration.
8. CoDF Use Cases:
  - a. Insert a 22-byte value (i.e. SAFI PEID GUID) into CoDF to populate the app instance id in the signaling descriptor, and verify an EBIF app can extract and process the PEID.
  - b. Run back to back applications (ex. back to back advertisements – same app template with different dynamic text and/or graphics) with same app id, org id, and different app instance id. Verify that ETV UAs detect the difference and play out the new app.
  - c. Schedule application control codes around a pre-defined time window (such as a commercial break – i.e. AUTOSTART during program, SUSPEND during commercial, AUTOSTART when program resumes)
  - d. Construct and execute CoDF with various combinations of signaling and app resource versions:
    - i. EISS ETV-AM I04 descriptors signaling EBIF I04 application
    - ii. EISS ETV-AM I04 descriptors signaling EBIF I06 application

- iii. EISS ETV-AM I06 descriptors signaling EBIF I04 application
- iv. I04 EISS/ I04 application and I06 EISS/I06 application on the same service.

## ***Confidentiality***

CableLabs may share your responses to this RFI with its member companies. While CableLabs does not intend to share your responses with any other manufacturers or developers, if your response contains confidential information, CableLabs can offer no assurances that the confidentiality of such will be maintained.

Participation in the Interop event will not be confidential. Limited provisions are made to limit the scope of use of certain software and content provided by your company, and other companies participating in the Interop. Execution of Attachment B, *Limited Use of Software and Content in CableLabs Interops* is a required prerequisite for participating in a CableLabs Interop. By participating in the CableLabs Interop, you and your company agree to the terms and conditions of Attachment B.

In conjunction with CableLabs' ongoing publicity efforts to grow the application developer community, CableLabs may digitally record certain aspects of this Interop event. While every effort to maintain your company's proprietary technology will be respected, you may be photographed or videotaped as a participant and may be requested to provide commentary or testimonial remarks. CableLabs may also invite cable operators or members of the industry press to observe the Interop. While your interaction with these parties is voluntary, CableLabs will not be responsible for maintaining the confidentiality of your participation in the Interop or development efforts.

By participating in this Interop, you agree to the terms herein and you hereby authorize CableLabs to record, use, copy and distribute your participation in the event without payment, duty of accounting, or attribution.

## **Information Requested**

**Deadline for responses is September 13, 2010.**

Please e-mail your responses to Sheila Keller at [s.keller@cablelabs.com](mailto:s.keller@cablelabs.com)

Address specific questions to:

Debbie Fitzgerald ([d.fitzgerald@cablelabs.com](mailto:d.fitzgerald@cablelabs.com))

# CableLabs®

## ETV Interop Registration

Please e-mail this page to Sheila Keller: [s.keller@cablelabs.com](mailto:s.keller@cablelabs.com) by September 13, 2010:

1. **Company Name:**
2. **Primary Contact:**
3. **Address:**
4. **Email Address:**
5. **Contact names and EMAIL addresses of the company representatives who should be on email distribution list for Interop:**
  
6. **Attendees**  
Please provide name and contact information for all attendees from your organization. Due to space constraints, CableLabs will limit the number of participants from a given company to a **maximum of three (3)** people per company.  
  
Participant # 1 Name: Participant # 1 E-mail:  
  
Participant # 2 Name: Participant # 2 E-mail:  
  
Participant # 3 Name: Participant # 3 E-mail:
  
7. **Please describe what capabilities and equipment you are bringing to the interop. For example, ETV Application(s), Carousel, Multiplexer, User Agent, etc.**
  
8. **Will you plan to provide a formal demonstration on demo day (in the conference room)? If so, please provide a brief description of your demonstration.**
  
9. **Equipment Needs: PLEASE COMPLETE AND RETURN ATTACHMENT A.**
  
10. **Limited Use of Software and Content in CableLabs Interop Events:**  
Please sign and return this form (Attachment B) if your organization is a first-time participant in a CableLabs Interop Lab Event.

**(ATTACHMENT A)**  
**CABLELABS EQUIPMENT INSTALLATION REQUEST**

**For Technical Lab Support questions please contact:  
I.johnson@cablelabs.com**

Please provide a technical support contact for your company here:

**Power:**

Vendor Equipment Power Requirements: (volts/amps/watts), we typically provide 120VAC, 10 AMPS. Any additional needs will require contact with Cablelabs Technical Lab Support for accommodations.

**Lab Materials:**

Typically the lab contains most materials needed (wires, cables, power cords). Additional equipment may be requested such as, Settop Boxes, (please specify type and model), CableCards, Television Monitors (~21"), VGA Monitors (~21"), Servers, Computers. This equipment may have limited availability. All remaining equipment not reserved in advance will be supplied as first come first serve. You may issue requests to reserve equipment here:

**Arriving Settop Boxes:**

Should you decide to bring your own STBs to be placed on the plant; please list STB Model, MAC and Serial Numbers here and or Number and type of CableCards supplied:

**Work Space:**

Typically 6' of bench work space is provided for use as lab work space. Additional space for cabinets, server racks, large televisions, or any other large components should be listed here:

**Headend Connectivity:**

Please describe any headend connectivity needed (Motorola plant, Cisco plant, Conax, Harmonic GbE transport):

**IP connectivity:**

Generally the lab will provide typical bi-directional access from the lab to the internet. To make your equipment within the lab environment publically visible to the internet; special requirements are needed. Please contact CableLabs Technical Lab Support with regard to any additional requirements and specify any concerns here.

**Equipment Shipping:**

Do you plan to ship equipment in ahead of time? If so, please estimate the size of the shipment. (Shipments should arrive no earlier than **Tuesday, September 28, 2010**. Vendors are allowed to come into the lab from noon to 5 PM Friday before the Interop for early setup and configuration). Return shipping is the responsibility of the vendor. **Arrangements must be made for pickup prior to leaving the event.**

Shipments should be sent to:

CableLabs  
Attn: ETV Interop/ Mark Woodworth  
858 Coal Creek Circle  
Louisville, CO 80027  
303-661-9100

## ATTACHMENT B

### LIMITED USE OF SOFTWARE AND CONTENT IN CABLELABS INTEROP EVENTS

CableLabs offers various opportunities for the cable vendor community to participate in “Interop” events to demonstrate progress towards compliance with CableLabs specifications, and general interoperability of devices, software, and content on CableLabs-specified platforms.

By its nature, participation in a CableLabs Interop is not confidential to the extent that materials can be publicly viewed and retained in memory. However, participants in the Interop (“Participants”) may have an interest in preventing other participants (“Other Participants”) from copying or using their software and content (“Interop Materials”) outside of the context of the Interop event. (Physical theft of hardware is prohibited under the Rules of Engagement in all CableLabs activities, including Interop events). Participants are free to license, or otherwise make available, their software and content to each other, or any party, under private agreements as they see fit.

By participating in a CableLabs Interop, Participant agrees to the following terms and conditions with respect to Participant’s Interop Material, as well as Interop Material of Other Participants.

- 1 Limited License for Participant’s Interop materials.
  - 1.1 To CableLabs. Participant hereby grants to CableLabs a non-exclusive, non-transferable, non-sublicensable, royalty-free license to use, copy, and modify any Interop Materials made available by Participant for the purpose of testing, certification, and interoperability activities conducted by CableLabs at the CableLabs facility.
  - 1.2 To Other Participants. Participant hereby grants to Other Participants a non-exclusive, non-transferable, non-sublicensable, royalty-free limited license to use and copy any Interop Materials made available by Participant for the purpose of testing and interoperability activities, but only for the duration of Participant’s participation in any CableLabs-sponsored Interop event, and only at the CableLabs facility.
  - 1.3 No Warranty. INTEROP MATERIALS ARE PROVIDED "AS IS" WITHOUT ANY WARRANTIES OR INDEMNITIES OF ANY KIND, EITHER EXPRESS OR IMPLIED. PARTICIPANT HEREBY DISCLAIMS ANY AND ALL WARRANTIES AND INDEMNITIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NO DAMAGE TO DEVICES OR CORRUPTION OF DATA OR SOFTWARE, OR NONINFRINGEMENT.
  - 1.4 Ownership; No Other License Granted. As between Participant, CableLabs, and any Other Participant, the Interop Materials provided by Participant are the exclusive property of Participant, and all right, title and interest shall remain with Participant. Participant grants no rights to any party other than those expressly granted above.
- 2 Use of Other Participant’s Interop Materials.
  - 2.1 Participant agrees that any use of Other Participant’s Interop Materials, if any, is strictly limited to use of such Interop Materials within the scope of the license granted above by such Other Participants. Specifically, Participant agrees that no use or copying of Interop Materials of Other Participants is allowed outside of the current Cablelabs Interop event or outside of the CableLabs facility.

- 2.2 Participant agrees to delete and destroy any tangible copies (including captured streams, copies, CDs, DVDs, etc.) of each Other Participant’s Interop Materials prior to the end of the Interop event, and not to remove any such copies from the Cablelabs facility.
- 2.3 Participant shall not remove, distort, relocate, resize, or otherwise modify in any way any notices that appear on the Interop Materials of Other Participants.
- 2.4 Participant shall not reverse engineer, disassemble or decompile the Interop Materials of Other Participants or alter, modify or enhance the Interop Materials of Other Participants, in whole or in part.
- 3 Third party Beneficiaries. Participant agrees that each Other Participant is a third party beneficiary of this Agreement with respect to the Interop Materials provided by such Other Participant.
- 4 Limitation of Liability. EXCEPT FOR INTENTIONAL OR WILLFUL BREACHES OF THIS AGREEMENT, NO PARTY SHALL BE LIABLE TO THE OTHER PARTY, OR ANY THIRD PARTY BENEFICIARY FOR ANY INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES, INCLUDING, BUT NOT LIMITED TO, AMOUNTS REPRESENTING LOSS OF PROFITS, LOSS OF DATA, CORRUPTION OF SOFTWARE, OR LOSS OF BUSINESS OPPORTUNITY, REGARDLESS OF THE LEGAL BASIS OR THEORY OF SUCH CLAIM. AND, EXCEPT FOR INTENTIONAL OR WILLFUL BREACHES OF THIS AGREEMENT, IN NO EVENT SHALL ANY PARTY BE LIABLE TO THE OTHER, OR ANY THIRD PARTY, WITH RESPECT TO ANY CLAIM PERTAINING TO THIS AGREEMENT, IN AN AGGREGATE AMOUNT IN EXCESS OF TEN THOUSAND DOLLARS (\$10,000). THIS SECTION DOES NOT IN ANY WAY LIMIT THE AVAILABILITY OF ANY INJUNCTIVE RELIEF THAT MAY BE SOUGHT AGAINST PARTICIPANT BY CABLELABS OR ANY THIRD PARTY BENEFICIARY UNDER THIS AGREEMENT.
- 5 Remedies/Injunctive Relief. Among other remedies, breach of this Agreement may result in CableLabs barring Participant from participating in future CableLabs Interops. In addition, Participant acknowledges that material breach of this Agreement will cause CableLabs, and/or the Third Party Beneficiaries, to suffer immediate and irreparable harm, damage for which money alone cannot fully compensate. Participant therefore agrees that upon such material breach, CableLabs or any Third Party Beneficiary shall be entitled to entry of a temporary restraining order, preliminary injunction, permanent injunction or other injunctive relief, without posting any bond or other security, compelling Participant to comply with the obligations hereunder.

By and on behalf of Participant, the above terms and conditions are agreed to as a condition of participating in the Cablelabs Interop event.

|   |
|---|
| <p><b>PARTICIPANT COMPANY NAME:</b> _____</p> <p>Signature: _____</p> <p>Printed Name: _____</p> <p>Title: _____</p> <p>Date: _____</p> |
|---|