



The time to build tru2way™ devices is here. Building a solution is not a trivial task, and many hardware and software decisions need to be made. Once you build your device, you will need to test it before it can be deployed. Vidiom's vCert™ Automated Test System provides a pre-configured, turnkey system that can help you reduce your time-to-market and take the complexity out of the tru2way device testing process.

Testing for Compliance

CableLabs provides a certification process for tru2way devices. Devices are tested for OCAP compliance using the OCAP Conformance Test Plan (CTP) and Automated Test Environment (ATE). Device manufacturers are required to pre-certify their devices before participating in an OCAP Certification Wave at CableLabs.

To pre-certify a device, a manufacturer must acquire the ATE package, hardware and software, and then build their test system. As CableLabs updates their ATE hardware and software, manufacturers are required to update their systems to maintain compliance. Managing this complicated effort requires a team of dedicated resources with specialized skill sets.

Vidiom's answer for pre-certification testing is vCert; an Automated Test System that provides a turnkey system for testing your tru2way devices without building and managing your own ATE. Vidiom's test engineers have worked with CableLabs to design and develop the ATE package and written a number of the test suites used in the certification process.

The vCert system includes a custom user interface for managing your devices and test runs, a database for storing the results and the documentation and services to support it. Using vCert, now you can run all of the CTP tests on multiple devices simultaneously prior to entering a Certification Wave at CableLabs.

Testing for Deployment

Passing the CableLabs CTP allows you to certify your tru2way device; however, much more testing is needed to make sure your tru2way device is ready for deployment on a cable operator's network.

To thoroughly test your tru2way device, Vidiom expanded vCert to support the standard JUnit test format as well as Vidiom's auto-Xlet format. vCert includes JUnit tests that complement the CTP and allows you to add your own JUnit tests to the vCert test suite.

The auto-Xlet test format provides an editable XML script file for each test case that allows you to configure the remote control events used to drive the Xlet tests. The vCert system then interprets the scripts and delivers the events in-band to the device. All of the results are stored in the vCert database and can be viewed through the vCert UI or output to a number of configurable report formats. Vidiom provides suites of pre-configured auto-Xlet tests including:

- DVR
- Tuning
- File access
- Graphics speed

vCert can run multiple tests on multiple tru2way devices. vCert was designed with an open architecture that lets you create your own test case managers and test subsystems, giving you complete control over your device testing processes and procedures. vCert is the industry's only OCAP automated test system that allows you to use your existing test suites and provides capabilities for porting your test systems into the vCert environment.

vCert allows you to test tru2way devices for compliance and deployment.



The Vidiom Advantage

Vidiom Systems, Inc. is a leading provider of standards-based iTV solutions and services to the cable, consumer electronics and content industries. Our expertise includes software engineering, platform porting, application development, integration and deployment, testing, technical writing, and training. We have years of experience with tru2way, ETV, OCAP and IPTV and can design, build and deploy your solution for interactive television. Founded in 1997, Vidiom Systems is headquartered in Broomfield, Colorado, and has additional engineering offices in Portland, Oregon, and Des Moines, Iowa. Vidiom Systems is a member of the ADB Group of companies (www.adbholdings.com).

Pre-configured System

Vidiom has integrated all of the required components for you into a solution that can be easily updated, so that you can stay in step with the evolving CableLabs ATE and OCAP specifications.

The vCert system includes the following hardware:

- Dell™ Windows™ server
- HP ProLiant™ server
- Monitor, keyboard and mouse
- RAID5 controller
- Three hot-swappable 36GB RAID drives
- Two DVB-ASI mux/tranceive cards
- Two QAM modulators
- Two upconverters
- Two RF elimination filters
- 100 Mbps Ethernet switch
- IP controlled power subsystem
- Half-height equipment rack (optional)
- All cabling and connectors

The vCert system includes the following third party software:

- OpenLDAP server
- Apache web server
- MySQL community server
- JasperReports
- Red Hat Enterprise Linux 3 (RHEL 3)
- Java SE Runtime
- Strategy & Technology software including: SoftOC, TSMux, and Sendoob

Testing Services

Vidiom understands that not all device manufacturers are prepared to do their own OCAP device testing. That is why Vidiom offers testing services to help manufacturers navigate the OCAP device testing and pre-certification process. Vidiom's engineering lab has access to headends, allowing us to test devices in-house. Vidiom can extend these testing services all the way through the CableLabs Certification Wave by representing manufacturers at certification events.

Product Support

Vidiom offers a comprehensive product support program for the vCert Automated Test System that includes:

- Product installation services and user training
- Experienced support engineers who are available to help you resolve your product issues
- Hardware and software support
- An online, searchable knowledge database with automated incident reporting and tracking so you can find the answers you are looking for and track the status of your incidents
- Online community forums where you can ask questions, share experiences and learn from other users
- A Support News web page to keep you up-to-date on tips, tricks and workarounds for known issues



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