



DV-TIDE Headend Simulator

Cable headends are designed as production systems to deliver television programming and data to thousands of cable devices on a cable network. Headends are great for cable operators, but do not meet the specific testing needs of engineers. enableTV has developed the DV-TIDE Desktop Headend Simulator to allow engineers to test and integrate their devices and applications without being connected to a production headend.

The DV-TIDE Headend Simulator lets you test and integrate your devices and applications without a connection to a headend.

A Portable Headend Solution

DV-TIDE is a PC-based headend solution that delivers MPEG-2 transport streams, interactive applications, and SI information to cable devices via RF. DV-TIDE provides a low-cost solution for delivering headend functionality to support development teams, testing groups, and tradeshow demonstrations.

DV-TIDE gives engineers the ability to create and repeat identical test conditions on demand, automate a series of tests, and address boundary and error conditions that cannot be tested with a production headend. DV-TIDE is quickly configurable and can easily target individual test points for defect isolation.

DV-TIDE Standard Features Standard Configuration

- 2 RU rackable DV-TIDE with 1 RF out

Service Information Delivery

- SI-based on ISO 13818 and ATSC A/65 C
- EAS messaging based on SCTE 18
- Dynamic insertion or pre-generated
- In-band insertion of SCTE 65 tables

Application Delivery

- Object carousel via DSM-CC
- In-band delivery of bound OCAP applications
- PSIP data insertion supported in-band
- Unbound applications over interaction channel

Video Broadcast

- In-the-clear or pre-encrypted content
- Synthetic or captured MPEG-2 transport streams
- Manipulation of MPEG-2 transport stream tables
- Multiple-program or single-program transport streams
- 38mbps output per QAM
- 4 QAM 256 outputs on adjacent channels
- Realtime multiplexing of transport streams with dynamic PID re-mapping
- Supports ITU-TJU.83 Annex A, B and C
- Cisco CMTS (UBR7225) for DSG - required for SI/XAIT delivery

VOD System Capability

- Live VOD delivery over RF
- Server and ISA client application included
- Trickplay support
- ISA and RTSP support

User Interface

- Control and monitor in real time via web interface
- Support log capability
- SOAP API
- Comprehensive User Guide



The enableTV Advantage

enableTV is focused on delivering sustainable interactive television technology and services to network operators, CE manufacturers, and content programmers. We have years of experience with ETV and tru2way and can develop, test, and deploy interactive services across multiple devices and networks. Our expertise includes software engineering, platform porting, application development, testing, technical writing, and training.

DV-TIDE Advanced Features Configurations & Expandability

- Host system controls multiple DV-TIDE client systems
- Combined channel map spans multiple DV-TIDE systems
- Multiple RF-out configurations:
1 RF: 4 QAM; 2 RF: 8 QAM; 3 RF: 12 QAM;
4 RF; 16 QAM
- Standard 2RU Configuration upgradeable to multi-RF output

Imminent Roadmap

- Limited QPSK interaction
- Set-top authorization

DV-TIDE Benefits

For the Operator

- Offload some types of testing from your headends
- Verify many functional aspects of a cable device
- Perform verification exercises faster
- Physically easy to move where it is needed

For CE Manufacturers

- Reduce your dependency on the MSO's labs and resources by enabling more testing in your lab
- Accelerate your progress through development stages
- Find and fix problems earlier in the cycle
- Demonstrate capabilities to potential customers

- Perform smoke tests on your factory floors

For Software Technology Providers

- Validate a significant amount of your work without a cable headend or cable device
- Perform tests at your desk
- Demonstrate your product at tradeshows

For Other Technology Providers

- Use the configurable MPEG-2 video pump with DSM-CC carousel streaming
- Create a broadcast stream configured to your needs
- Repeat conditions with specified bitrate/format resolution

Customers & Relationships

Time Warner Cable	Cisco
Comcast	Motorola
Cox	ARRIS
Charter	NDS
Canoe	CableLabs
TVWorks	EchoStar
Guideworks	Thomson
Comcast Media Center	S&T
OpenTV	STMicroelectronics
Intel	Sigma

