

# **Joint Compatibility Discussions**

**Consumer Electronics Manufacturers Association**

**National Cable Television Association**

**FCC Roundtable Meeting**

**May 20, 1999**

# Consumer Expectations

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- Subscriber / Consumer Expectations
  - ◆ Ability to purchase cable programming services
  - ◆ Ability to use the DTV receiver's features
  
- These expectations are the goals of the NCTA/CEMA activities by providing:
  - ◆ Access to in-the-clear programming carried on cable
  - ◆ Platform for premium cable programming services
  - ◆ Maintain DTV receiver features and functions

# **Joint Approach**

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- Consumer electronics and cable industries are meeting to resolve compatibility issues
- Discussing “cable ready” television receivers and set-top box compatibility

# Cable Ready DTV

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- Basic functionality
  - ◆ “One-way”
  - ◆ Consensus between the industries on the approach
  
- Supports current one-way cable services
  - ◆ In-the-clear programming
  - ◆ Premium cable programming services (separable security module required)
  - ◆ Pay-per-view (separable security module required)

# Standards-Based

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- NCTA / CEMA activities are based on citing and recognizing a set of stable, well-defined and accepted industry standards
  - ◆ Maintained by known standards development organizations
  - ◆ Revised through due process

# Standards

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- ATSC A/53 -- “ATSC Digital Television Standard”
  - ◆ Provides a basic platform for digital receivers
  
- EIA-23 -- “RF Interface Specification for Television Receiver Devices”
  - ◆ Coordinates the cable RF signals and cable television set RF performance
  
- EIA-542 -- “Cable Television Identification Plan”
  - ◆ Coordinates cable frequency slots and receiver tuning

# Standards

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- SCTE DVS-031 -- “Digital Television Standards for Cable Television” and ATSC A/53.
  - ◆ Coordinates modulation and demodulation using 64/256 QAM and 8/16 VSB
  
- SCTE DVS-093 -- “Digital Video Service Multiplex and Transport System Standard for Cable Television”
  - ◆ Defines and coordinates the MPEG transport
  
- ATSC A/53 (Table 3) and SCTE DVS-033 -- “SCTE Video Compression Formats”
  - ◆ Coordinates the compression display formats

# Standards

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- SCTE DVS-234, ATSC A/56, ATSC A/65
  - ◆ Coordinates service information protocol using the above standards
  
- NCTA/EIA/JEC DSS 99 02 -- “Emergency Messaging Protocol”
  - ◆ Coordinates receiver and cable system activities to communicate emergency information
  
- EIA-679 and SCTE DVS-131 -- Separable Security Module Interface
  - ◆ Supports premium cable programming services

# Summary Status

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<u>Item</u>	<u>Status</u>
ATSC & SCTE platform standards for DTVs	Agreement
RF Interface Specifications: EIA-23	On-going discussions
Cable channel tuning : EIA-542	Agreement
64/256 QAM, 8/16 VSB: DVS-031, ATSC A/53	Agreement
MPEG-2 packetization: SCTE DVS-093	Agreement
Video display formats: ATSC A/53, DVS-033	On-going discussions
Service information: DVS-234, ATSC A/56, A/65	On-going discussions
Emergency messaging: JEC DSS 99 02	Finalizing document
Separable security module interface: EIA-679, SCTE DVS-131	On-going discussions

# Next Steps

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- NCTA - CEMA Compatibility Meeting -- June 18
  - ◆ RF performance of DTVs
  - ◆ Interface for expanded services: 1394 et al.
  - ◆ System information
  
- NCTA - CEMA “Cable Services” meeting -- July 15
  
- CableLabs Briefing for Consumer Electronics Industry
  - ◆ Detailed OpenCable update to the consumer electronics industry -- July 27