

WBU-ISOG MPEG-2 CONTRIBUTION  
1080i/720p CODEC INTEROPERABILITY PROGRAM

## PROCEDURES TO REPORT INTEROPERABILITY PROBLEMS TO WBU-ISOG

### Background

WBU-ISOG sponsored two rounds of interoperability tests for MPEG-2 Contribution 1080i/720p codecs in March, 2005 and July, 2005. As a result of these tests, WBU-ISOG decided to implement a more formal interoperability program beginning in August, 2006. Six vendors (NTT Electronics, Scientific Atlanta, Snell & Wilcox, Tandberg, Thomson and Tiernan) have signed Participation Agreements and paid fees to participate in this program. Telesat has been appointed as Test Contractor. WBU-ISOG has provided Test Tapes to the Vendors, and the Vendors are creating Transport Streams, according to parameters specified by WBU-ISOG, that are uploaded to a Telesat server. Vendors use these Transport Streams for their own informal interoperability testing. Formal interoperability tests will take place in June 2007 at Telesat.

### Reports to WBU-ISOG of Interoperability Problems

An integral part of the WBU-ISOG Interoperability Program is for broadcasters and carriers to report interoperability problems to WBU-ISOG. Such reports will be posted on the WBU-ISOG website (members only section). Reports will also be forwarded to the Participating Vendors whose codecs are the subject of the report.

### Procedures to Report Interoperability Problems Experienced Between MPEG-2 Contribution 1080i/720p Codecs

Broadcasters and carriers that experience a significant audio or video transmission problem that is likely caused by interoperability issues between a MPEG-2 contribution 1080i/720p encoder and a MPEG-2 contribution 1080i/720p decoder are encouraged to report the problem to WBU-ISOG. The report should provide the information listed below and should be sent to WBU-ISOG [cdarling@nabernet] and to Tom Gibbon, Chair, Interoperability Program [tgibbon@bellboyd.com]. WBU-ISOG will post the report on its website and forward a copy of the report to the vendors whose codecs are the subject of the report.

1. Name of Reporting Broadcaster/Carrier
2. Date of Interoperability Problem
3. Encoder [Vendor name and model number]  
Decoder [Vendor name and model number]
4. Video Format [e.g., 1080i/59.94 , etc.]
5. Audio Format [e.g., 2 CH Audio, MPEG-2; Dolby E 20 bit mode; PCM, etc.]
6. Bit Rate [e.g., 41.47 Mbps @188]
7. Chroma Format [e.g., 4:2:2]
8. Description of Problem [e.g., no video, no audio, video artifacts, degraded audio lip sync issues, etc.]
9. Remedy [e.g., swap in different decoder, change codec settings, etc.]
10. Reason that broadcaster/carrier believes transmission problem caused by interoperability issue [e.g., swap-in of decoder of different vendor cured problem]