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### **World's first ACAP Interoperability Test**

Bundang, Korea, March 25, 2005 – TTA facilitated ACAP Interoperability Test during Interoperability ON(ION) for the first time in the world from 22nd to 25th of March, 2005.

The Advanced Common Application Platform (ACAP) Interoperability Test is intended to verify interoperability among multi-vendor data broadcasting products based on ACAP specification, and to verify successful re-transmission of ACAP applications over OCAP-based digital cable receiver to confirm the compatibility between ACAP applications and OCAP-based receivers.

For this test, TTA provided the ACAP end-to-end broadcast testbed system. The ACAP head-end system consisted of HDTV VCR, HD encoder, PSIP server, Data injector, Remultiplexer, TS analyzer, HD decoder, 8 VSB modulator, and two 8 VSB players. The testbed emitted ACAP RF signal, containing three physical channels, for end-user receivers to be tested.

Korean Terrestrial Broadcasters, such as KBS, MBC, EBS, SBS, provided their ACAP streams and those programs contained associated and independent applications. Futech Creator and ETRI provided 8VSB players for ACAP head-end transmission.

Aircode, Samsung Electronics, LG Electronics and I-set participated and tested ACAP interoperability among applications, data injector, PSIP server and receivers.

The first ACAP/OCAP compatibility test proved that transmission and presentation of terrestrial ACAP data contents through cable and on OCAP receivers were successful. 8VSB RF signal, containing ACAP applications, was fed into 8VSB demodulator that output ASI signal. The ASI signal that contained ACAP applications was input to QAM modulator, where the signal was converted into 256 QAM RF on 213MHz, which was

then delivered to an OCAP receiver. The behavior of ACAP applications on OCAP receiver was almost same as the one on ACAP receiver.

With commercial service of terrestrial data broadcast approaching, all the participants expressed that this event was very useful and hoped TTA host similar events frequently.

#### **About TTA**

Telecommunications Technology Association (TTA) is a standardization, test and certification body in the field of information, communication and broadcast technology.

#### **About Korea's Data Broadcast Standard**

Korea's standard for data broadcast over the air is based on DASE and is now under the revision process at TTA to accommodate ACAP standard of ATSC, while its counterpart for data broadcast over cable and satellite is respectively based on OCAP and MHP.

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