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## **IMTC Completes SuperOp! 2013 Interoperability Testing with Mobile Videoconferencing, Telepresence and MPEG DASH Interoperability Testing**

### **Premier annual multimedia industry testing event draws 26 leading companies**

**SAN RAMON, Calif. – June 20, 2013 --** The International Multimedia Telecommunications Consortium (IMTC) announces the successful completion of SuperOp! 2013, the premier interoperability testing event of the telecommunications industry for multimedia communication standards and products.

SuperOp!, organized and conducted by the IMTC, is a significant annual testing event for the multimedia communications, videoconferencing and telepresence industries. The 2013 edition brought together more than 85 engineers from 26 leading companies developing unified communications, video communication products and services worldwide.

SuperOp! 2013, which took place in Porto, Portugal, April 29 – May 3, 2013, covered equipment and service interoperability on combinations of IP and 3G/4G networks, and covered a broad range of technologies such as OVCC profile, H.264 SVC, Voice over LTE, RCS, DASH and traditional RTSP Streaming, HD videoconferencing, TIP and Telepresence, as well as full spectrum of SIP and H.323-based videoconferencing systems.

**SuperOp! SuperConnect**, the culmination event of a week-long testing exercise, showcased the success of the work by connecting all interoperable videoconferencing equipment in one conference call with more than 45 endpoints that included room systems, three-screen telepresence systems and a variety of mobile and software video clients. The backbone of the conference was six MCUs and one SBC. SIP, H.323 and TIP were used for signaling, and codecs included all variants of H.264: AVC, High Profile and, for the first time ever, interoperable H.264 SVC implementations.

"Open standards are key to ensuring true interoperability across vendors and technologies that are essential to enabling rich-media communications," said Patrick Luthi, IMTC Vice President and Cisco's Collaboration Standards Manager. "This year's SuperOp! showcased that, with standards, we can successfully bring together a variety of video clients and systems. IMTC is uniquely positioned to lead these interoperability efforts and Cisco is honored to be sponsoring SuperOp! 2013."

For the first time, **IMTC and Open Mobile Alliance (OMA)** jointly arranged for the Rich Communication Suite (RCS 1.2.2) testing at SuperOp! 2013. RCS clients from Intel, Nokia and Sony Mobile Communications participated in the testing with RCS servers provided by Interop Technologies and Telefonica Spain.

The **IMS Activity Group** successfully completed interoperability testing on Voice over LTE requirements of GSMA IR.92 and GSMA IR.94 "IMS profile for Conversational Video Service." Representatives from Ericsson, Huawei, Intel, Radvision, Sony Mobile Communications, ST-Ericsson and Vodafone were present on site. The testing was conducted against a Huawei IMS infrastructure from its lab in Italy, and

live LTE / EPC access and network infrastructure provided by Vodafone. IMS clients from Intel, Radvision, Sony Mobile Communications and ST-Ericsson participated in the testing.

The **SIP Parity Activity Group** testing featured more than 27 product teams from companies including BlueJeans, Cisco, Huawei, LG, Lifesize, Magor Corporation, OPAL, Pexip, Polycom, Radvision, an Avaya Company, Siemens Enterprise Communications, Sonus, Teliris and Vidyo. Testing focused on various aspects of video conferencing/Telepresence interoperability, with the IMTC SIP Parity best practice documents and associated test cases documents providing a framework within which to test. Interworking among teams was very broad, extending above and beyond that described within the best practice documents. Hundreds of test cases involving thousands of calls were made. Highlights included H.264 SVC video interoperability and a continued increase in interoperable implementations of RTCP feedback/AVPF for I-frame requests as well as bandwidth changes, BFCP via UDP, and SRTP.

Functionality included H.264-AVC and H.264-SVC HD video, SIP/H.323 interworking, SIP UDP/TCP interworking, BFCP via UDP for content sharing, BFCP via UDP/TCP interworking, H.239 for content sharing, BFCP/H.239 interworking, BFCP via UDP/TIP interworking, point-to-point and multipoint calls, basic call, hold/resume, transfer, TLS signaling security, and SRTP media encryption, as well as via H.235, Composition, RTCP Feedback/AVPF (RFC 4585 and RFC 5104).

The focus of **TIP (Telepresence Interoperability Protocol) Activity Group** testing was on new features of TIP Version 8, as well as functionality and compatibility with older versions. TIP Version 6, Version 7 and Version 8 were tested with participation from Cisco, Huawei, Polycom, Radvision, an Avaya Company, and Teliris. Over 50 test cases from the IMTC TIP Test Plan were executed across 20 different endpoints, four MCUs and four SIP registrars. The testing was used to verify multivendor TIP implementation for TIP V8- V7 feature parity, content sharing and pre-emption, encryption support, CFR (Constant Frame Rate) and AFR (Adaptive Frame Rate) support on endpoints and MCUs, audio and video quality verification, and optimized IDR generation and handling use cases.

The **CTI (Carrier Telepresence Interop) AG** testing was conducted with Open Visual Communications Consortium based on OVCC test requirements. AT&T, Cisco, Huawei, Lifesize, Polycom, Radvision, an Avaya Company, Sonus and Teliris participated in the CTI testing emulating Telepresence Service Provider use cases. Cisco VCS Expressway/VCS-Control was used to simulate media termination and Firewall Traversal for Service Provider Peering Points. Cisco, Huawei, Polycom and Radvision MCUs were used for testing and endpoints from Cisco, Huawei, Polycom, Lifesize and Radvision joined each MCU via VCS-C/E peering. In 65 test cases, the test teams tested AVC/SVC/TIP, H.323/SIP, encryption support, content sharing with BFCP/TIP/H239, and audio and video quality verification. This testing was the first cooperative step between IMTC and OVCC and more CTI sessions within and outside SuperOp! are anticipated.

The **Packet Switch Streaming Activity Group** (PSS AG) completed the transition from RTSP/RTP to HTTP streaming technologies. The group extended tests on HLS and Smooth Streaming and focused on MPEG-DASH ISO Base Media File Format Live profile. Fraunhofer (Server /Client), Nexstreaming (Client), PacketVideo (Client) and Orange (Server/Client) participated face to face in the SuperOp! 2013 activities in Porto, and NXP Software (Client), Qualcomm (Client), RealNetworks (Client) and Sony Mobile (Client) participated remotely.

IMTC's SuperOp! 2013 was hosted by IMTC with event management from Global Inventures. Sponsors included Cisco, LG, Polycom and Vidyo. The next SuperOp! interoperability testing event is planned for Spring 2014, with exact dates and location to be announced at a later date.

IMTC is also very pleased to announce we will celebrate our 20th anniversary with an exciting Anniversary Forum event, "Today and tomorrow of visual communications, building on 20 years of technology breakthroughs," including keynote presentations, technology updates and seminars, award

ceremony and reception. The forum is scheduled for Oct. 8-10, 2013. For more details and to register for the 20<sup>th</sup> Anniversary Forum event please follow this link: <http://imtc.org/forum2013/>

**About the International Multimedia Telecommunications Consortium (IMTC)**

The IMTC is an industry-leading, non-profit organization whose mission is to promote and facilitate the development and use of interoperable, real-time, multimedia telecommunication products and services based on open international standards. The IMTC hosts interoperability testing events and demonstrations throughout the world. IMTC has hosted numerous events to test IMS, VoLTE, SIP, H.323, 3G-324M, TIP, 3G PS Streaming, and other Voice over IP products and services with each other. The IMTC Board of Directors includes representatives from AT&T, Cisco Systems, Ericsson, Huawei, Intel, LifeSize Communications, Nokia, Polycom, Qualcomm, Radvision an Avaya Company, Samsung, Siemens Enterprise Communications and Vidyo. Membership is open to any interested party, including vendors of audio, document, and video conferencing hardware and software; academic institutions; government agencies; and non-profit organizations. The IMTC is making "Rich Media happen Anywhere, Anytime." Further information can be found at <http://www.imtc.org>.