

## ETSI Plugtests™

ETSI specializes in running interoperability test events for a wide range of telecommunication, Internet, broadcasting and multimedia converging standards. Plugtests™ events are open to all companies, organizations, working and study groups implementing a standard. We have experience in organizing events ranging from 30 to 500 engineers on sites from 100 - 3000m<sup>2</sup>.

For information about ETSI's Plugtests™ and upcoming events, please visit

<http://www.etsi.org/plugtests>

or e-mail [plugtests@etsi.org](mailto:plugtests@etsi.org)

## About ETSI

ETSI is one of the world's leading standards development organizations for Information and Communication Technologies (ICT). Founded initially to serve European needs, ETSI has grown rapidly to become highly-respected as a producer of technical standards for worldwide use. In addition to our global focus, ETSI is formally recognized by the European Union as a European Standardization Organization and is thus deemed competent to produce Community Specifications.

ETSI membership is composed of manufacturers and network operators – all the “big names” and many smaller companies too – plus ANSPs, national administrations, ministries, regulators, universities, research groups, consultancies and user organizations. A powerful and dynamic mix of skills, resources and ambitions, all working together to bring the very best ICT solutions to the global marketplace. Geographically, our membership of over 700 companies and organizations is drawn from more than 60 countries on 5 continents.

ETSI is independent of all other organizations and structures, a key feature for ensuring neutrality and trustworthiness. That brings benefits not only in the acceptance of our standards and other publications, but also in our growing range of ancillary services, such as interoperability testing. And because standardization inevitably draws upon the bright ideas of our members, we have an Intellectual Property Rights (IPR) policy in place that has become the model for many other organizations.

ETSI's standardization activities are open to all interested companies and organizations. Your company can be part of this dynamic organization. For more information about how you can be involved, please visit

<http://www.etsi.org/membership>

For details about ETSI's current activities in support of the Single European Sky, please visit

<http://portal.etsi.org/Aero>

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World Class Standards

# ATM VoIP Plugtests™ events



[www.etsi.org](http://www.etsi.org)

## VoIP technology fulfils Voice ATM requirements

The convergence of Voice and Data in networks is becoming increasingly common: that includes within the Air Traffic Management voice communication infrastructure. The European Commission's SESAR Programme (Single European Sky ATM Research) foresees Voice over IP (VoIP) technology fulfilling and improving operational and technical Air Traffic Management communication requirements, including voice/data convergence, specific quality of service (QoS), security and safety requirements.

## EUROCAE WG67

### - defines standards guaranteeing ATM VoIP interoperability

Work on VoIP applications for ground-ground ATS voice communications and the ground-ground part of air-ground ATS voice communications is being carried out by EUROCAE working group 67 (WG67). In particular, WG67 defines interoperable interfaces between Voice Communication Systems (VCS), voice recording systems, supervision systems, ground radio stations and all-IP network elements to guarantee safe and secure voice communications in an Air Traffic Management environment. Participants in the WG include system and equipment suppliers, the main European Air Navigation Service Providers (ANSPs), FAA and Eurocontrol.

## ETSI Plugtests™ events

At the request of WG67, ETSI has been running a series of Plugtests™ interoperability testing events. These Plugtests™ events are intended to reinforce ATM VoIP interoperability by identifying areas for improvement, and detecting possible errors and ambiguities within the current standards at the earliest stage. The Single European Sky initiative, aimed at creating a single upper airspace, is in a similar situation to that faced by GSM™ in the early 90's which sought (and succeeded!) to create a single means of mobile communication.

Plugtests™ testing, integrated into an official certification programme led by a 3<sup>rd</sup> party (in the case of GSM this is the GCF), can provide an effective solution for ensuring interoperability. The ultimate goal is to accelerate the process of providing ATM VoIP products to the market as contributions to the implementation of the future European ATM system as defined in the framework of SESAR.



## ETSI Plugtests™ event#4, 15-24 June 2011

This latest Plugtests™ VoIP for ATM event will be based on the EUROCONTROL updated test specifications for Radio/Telephone/Recorders and Gateways according to the latest EUROCAE Radio & Telephone documents (September 2010).

### Previous events:

#### ETSI Plugtests™ event#1, April 2008

The first Plugtests™ ATM VoIP event focused on testing basic SIP-call interoperability between voice-communication systems (VCS), and between voice-communication systems and ground radio stations (GRS).

#### ETSI Plugtests™ event#2, March 2009

The next ATM VoIP Plugtests™ event was based on the approved ED documents. It entailed testing basic SIP-call interoperability and additional features such as Supplementary Services and Voice Quality between voice-communication systems (VCS) and between voice-communication systems and ground radio stations (GRS).

#### ETSI Plugtests™ event#3, March 2010

This Plugtests™ ATM event focused on Gateways between ATM voice legacy interfaces (analogue or QSIG-based) and new VoIP interfaces. The Gateways are necessary to enable a soft transition from legacy VCS to VoIP VCS. Tests were divided into two groups for Incoming and Outgoing Gateway and further divided into 3 sub-groups relating to Direct Access Call, Call Interruption and Call Intrusion tests.



For more information about these ATM-related ETSI Plugtests™ events, please visit:

[http://www.etsi.org/plugtests/ATM\\_Voip/ATM\\_Voip.htm](http://www.etsi.org/plugtests/ATM_Voip/ATM_Voip.htm)

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