

Welcome to the future of car safety!

Volvo is the world-first car-maker to announce equipping its vehicles with the regulated pan-European eCall system.

The cars equipped with eCall take advantage of the precise positioning offered by the European satellite systems (EGNOS and Galileo) to quickly alert emergency services in the event of a road accident, and automatically dial the European emergency number 112.

Moreover, Volvo cars use the same location source as for the in-vehicle navigation.

In Europe alone, around 50 000 cars on the road are already enabled with Galileo satellite navigation capability and this is expected to rise to over 150 000 by the end of this year.

The eCall device in the Volvo vehicles is manufactured by ACTIA Nordic in Sweden and has been successfully tested by NavCert's Laboratory in Germany.



**Space-driven innovation for smarter, greener and safer roads
Volvo Cars Press Launch: 1st car equipped with the eCall**

Join us Tuesday 18.09 at 5 p.m. in the Commercial Theater

Volvo Cars

Protecting and caring for people is at the heart of Volvo Cars' philosophy, as is our commitment to saving lives. At Volvo, we have invented some of the most important breakthroughs in the history of car safety - including the three-point safety belt - saving over a million lives in the process. And there's more to come.

In the words of our founders: *"Cars are driven by people. The guiding principle behind everything we make at Volvo, therefore, is and must remain safety."*

This is why, at Volvo Cars, we don't accept that globally 1.3 million people should die every year in road traffic accidents. Vision 2020 is our way of creating more sustainable personal transport. It's a key element in our sustainability framework, which outlines how our company protects people and the world around us, both now and in the future.



This is why Volvo is a world leader when it comes to car safety. Our cars are packed with advanced features that are all inspired by our Safety Vision 2020.

We are continually working on technology to make future vehicles safer still.

The Volvo On Call system offers useful controls of your Volvo and enables emergency assistance wherever you are, and now, backed up by the pan-European eCall system, which leverages Galileo, GPS and Glonass to ensure the best possible positioning accuracy, our cars will be safer than ever.

Leif Ivarsson, Legal Manager - Telematics & Connectivity

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ACTIA

ACTIA is a leading supplier of Connected Vehicle Technologies. Our customers are world class manufacturers of passenger cars, heavy trucks, busses, material handling trucks and off highway equipment. We develop and manufacture products that includes eCall, bCall, remote software download (OTA), telematics, fleet management, remote supervision, connected diagnostics, V2V, V2X and more.

Already in 1998, ACTIA launched emergency call systems in volume production. In 2018, we were among the first to receive Pan-European eCall certification for our technology developed for Volvo Cars.

ACTIA also offers a standard telematics platform with an SDK where the customers can develop their own applications. This platform is already connected to several large backend / frontend suppliers and can be offered globally. For the aftermarket, ACTIA offer products like remote diagnostics, pay as you drive, geolocation and reporting of usage hours etc.



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WirelessCar

WirelessCar is one of the world's leading Connected Car service providers, counting among its customers Volvo Cars, Jaguar Land Rover, Daimler, Nissan, Subaru, Audi, BMW, Chrysler etc.

WirelessCar services allow OEM's to provide innovative attractive Connected Car services like eCall, bCall, remote control and diagnostics as well as infotainment related services.



Since early 2000, WirelessCar has been an early adopter and a pioneer in eCall management, with numerous eCalls handled over the years for the benefit of individuals and society.

Roughly three million cars are connected to the WirelessCar platform and we process ~ 3000 messages every second to and from vehicles in more than 60 countries.

WirelessCar provides manufacturers of cars with complete and competitive connected car service offerings to end customers anywhere in the world.

Our customers share key resources, which mean low and diminishing cost as well as rapid deployment in new markets. We integrate our services from best-of-breed elements to allow our customers to compete at a leading-edge level.

At ITS Copenhagen WirelessCar supports the demonstration of Volvo Cars implementation of eCall as an important service in their connected car offering - Volvo On Call, which supports both third party supported eCall as well as public eCall over 112.

In case of an emergency the Actia Vehicle Communication master unit in the vehicle transmits a message with position and other relevant data. This is received by the WirelessCar platform and routed to the most relevant emergency response centre, where the accident is displayed to the operator on a map supported by relevant vehicle and owner data.

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NavCert

NavCert provides worldwide technical, verification, validation and certification services in the area of positioning and navigation.

It guarantees high quality and reliability combined with extensive application and market know-how in the area of GNSS and ubiquitous localisation technology.

NavCert runs an ISO 17025 accredited navigation and telematics laboratory and has an agreement to cooperate with TÜV SÜD product services, which allows NavCert to market certifications in the area of GNSS applications and to issue the TÜV SÜD quality logo.

In recent years, NavCert has been working in the area of ITS and eCall. NavCert provides type approval for eCall in cooperation with TÜV, both for the pan-European eCall system and UNECE Accident Emergency Call Systems (AECS). We provide the requirements of eCall and ERA-GLONASS to OEMs as well as manufacturers of components, modules and systems and validate them accordingly.

As NavCert develops all test scripts for GNSS simulators, we were able to provide ACTIA/Volvo with the required testing for eCall type approval at an early stage.

NavCert has already tested the first automotive GNSS receiver according to UN-R144 to ensure that our equipment and our test scripts are functional and validated for this new regulation.



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GNSS.asia

GNSS.asia provides a comprehensive range of support services to the GNSS industry in Europe, assisting them in developing commercial activities in the Asia-Pacific region and establishing industry collaboration with local players.

GNSS.asia aims to leverage industrial cooperation across continents by stimulating industrial partnerships. It supports institutional relations between the EU and Asia, strengthening cooperation on standardisation and legislative actions, while driving GNSS adoption through the promotion of Galileo in the multi-GNSS environments of the Asia-Pacific region.



The GNSS.asia consortium works in close collaboration with key industry associations, research organisations and industry players.

GNSS.asia has assisted European GNSS companies in entering Asian markets and bringing together key European and Asian GNSS players.

GNSS.asia facilitates EU-Asia industrial cooperation through seminars with companies and institutions, workshops and topic events and structured matchmaking and networking sessions.

Are you ready for the Asia-Pacific?

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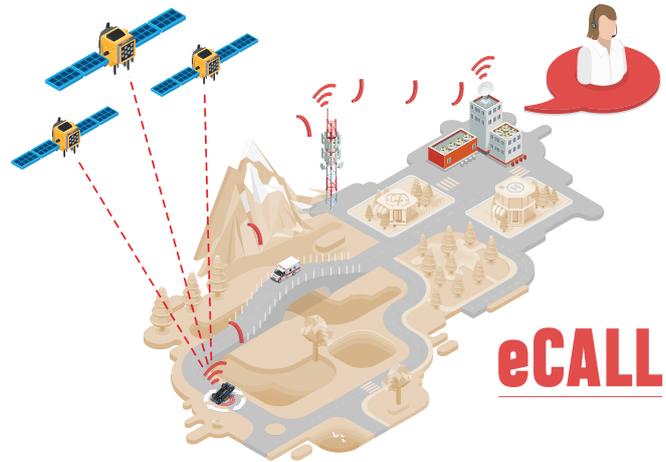
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What is eCall?

On 1 April 2018, the pan-European eCall regulation entered into force, requiring all new car and light van types sold in the EU to be fitted with the eCall emergency system.

eCall devices automatically dial the European emergency number 112 to alert rescue services in the event of an accident. The system sends the exact location to responders, along with the time of the incident and the direction of travel, even if the driver is unconscious or unable to make a phone call, thereby reducing the response time for road accidents and saving more lives. An eCall can also be triggered manually by pushing a button in the car, for example by a witness to a serious accident.

It is estimated that eCall will speed up emergency response times by 40% in urban areas and 50% in the countryside and reduce the number of fatalities by at least 4% and the number of severe injuries by 6%.



GSA

The European GNSS Agency (GSA) manages public interests related to European GNSS programmes. The GSA's mission is to support European Union objectives and achieve the highest return on European GNSS investment, in terms of benefits to users and economic growth and competitiveness. The GSA aims to serve as the essential link between space technology and user needs, translating Galileo and EGNOS signals into valuable, reliable services for European citizens.



Furthermore, the GSA is charged with maximising adoption of European GNSS across user market segments. Thanks to our close work with a broad range of stakeholders, Galileo can now be found in applications and devices ranging from smartphones to wearables and from aircraft to personal vehicles.

In fact, preliminary figures show that some 75 million Galileo-enabled smartphones were sold in 2017, and 95% of the chipsets on the market are Galileo-enabled. Galileo is also being increasingly used in drones to ensure smooth navigation and in Search and Rescue operations to save lives.

Galileo

Galileo is Europe's Global Satellite Navigation System (GNSS), providing improved positioning and timing information and bringing significant benefits for many European services and users. With 26 satellites already in orbit, the constellation is getting close to full operation capability and users around the world can already be guided using the positioning, navigation and timing information provided by Galileo's global satellite constellation.

The advantages of Galileo include improved Open Service accuracy, soon to be augmented by the free High Accuracy Service. Authenticated signals will also contribute to improving the robustness of GNSS services for users.

Forward-looking companies understand the benefits that Galileo brings and are introducing products with Galileo-enabled receivers, chipsets, devices and modules - many of which are already on the market.

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