



# TN Telematics News

October 2012

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Information Service



## TN at the 2012 Paris Motor Show: Glamorous as always but did it impress?

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Insight: HTML 5 - Silver bullet or just another option?



TomTom offers TPEG traffic for automotive navigation



Exclusive Interview:  
RadioDNS Hybrid Radio  
~ All you need to know



Insight: EU to become the fastest growing market for ADAS



# Connected Car Guide - Government Edition



This 170-page guide to legislation affecting telematics and navigation will help you:

- Understand what legislation is having the most impact on the automotive telematics world
- Plan your strategy by learning about the opportunities and threats generated by mandates and requirements
- Gain clear explanations of the legislative processes, responsible government departments and time plans
- Benefit from recommendations on how to turn legislation into a business opportunity

For more information, please contact us:

[enquiries@sbd.co.uk](mailto:enquiries@sbd.co.uk)

[www.sbd.co.uk](http://www.sbd.co.uk)

+44 1908 305104

Telematics and infotainment



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## Paris Motor Show 2012

The 2012 Paris Motor was just as glamorous as always, but it definitely failed to impress and surprise.

2013 is almost here and one would expect vehicle manufacturers to be showing-off their next generation connected car services at their stands in Paris. But that was certainly not the case at the motor show this time!

Although a few vehicle manufacturers did have a small stand for infotainment services and at a higher level, connected services are becoming a common place; the services shown in Paris were not positioned to create any form of 'wow' factor for visitors.

It is almost unbelievable that car makers are still not promoting services to make their cars more attractive & enhance the overall ownership experience, and seem to continue to treat services as a money making scheme.

Having said that, one cannot ignore some of the recent developments in the CE world, which may have had an impact on car makers and their plans – Apple being the latest and biggest headache. Even those car makers who had spent the last year or so developing clever iPhone integration solutions could not really promote their products because the first question they got asked was if their solution was compatible with the new iPhone 5 and the answer was no!

We have created a special report for our clients with videos of systems shown at Paris, but at a high level, here are some of the trends we noticed:

### ▼ Smartphone integration continues, but OEMs are now cautious

Opel showed its Intellilink smartphone integration, featuring iPhone Siri integration, on the Adam with the new LG head unit. Mercedes-Benz launched its Digital Drive Style app for iPhone, with Garmin navigation, Twitter, Facebook and Aupeo onboard. However, unlike the Opel solution, the Mercedes system does not work with Android phones.

In addition to the problems with the latest iPhone, Android phones also pose certain challenges to OEMs in terms of interoperability due to OS implementation differences. The compatibility problems are causing OEMs to reassess the potential of smartphones, to double check if they can live up to the recent hype in terms of capabilities.

However, phones will continue to play a very important role outside the car. For example, Audi gave us an exclusive sneak preview into their next-gen smartphone app for Audi Connect, which will have graphic-rich features, new services such as sending destinations to the car. Audi have also launched a very interesting 'picture destinations' feature that can use images from Google Street View.

**SBD Portal**

Paris Motor Show Report

*SBD clients: click or scan the QR code*

**SBD Portal**

Extract of videos from the SBD Portal

Opel IntelliLink interview

**YouTube**

▼ Onboard apps and browsers gaining traction

Renault showed the production version of its R-Link system running the Android OS, but details on service pricing were not released. Although Renault has a few minor bugs to fix, the system was responsive, easy to use with a rich interface. Parrot also showcased its multi-tiered OEM product running Android and expects to go live with around 40 apps.

Peugeot was one of the few OEMs that had a working demo of its infotainment system with all the services active. Peugeot Connect Apps makes use of a 3G dongle from Bouygues Telecom. The apps are basically widgets that provide a number of services from parking information to travel guides. Other popular social networking apps are expected to be added soon. Audi continues to add new browser apps, such as train timings and city events in addition to Facebook and Twitter.



▼ Other highlights

The VW group launched its new modular platform, powered by eSolutions, on the new VW Golf and the Seat brand. The system features a new touch screen with multi-touch and a proximity sensor for enhanced HMI.

Peiker showed its wireless charging solution at the Orange stand; Nokia showed its cloud platform with new services such as automatic payment for parking. Ford launched its MyFord Touch system and showcased its latest emergency assistance feature. Bluetooth-based eCall was also shown by Mercedes-Benz, which makes use of a Bosch call centre. Garmin launched its new OEM product for Suzuki and TomTom launched its OEM product on the new Mazda 6.

▼ ADAS now a mass market product

We have been reporting that ADAS is moving to mass market for several years now. But with driver assistance systems already available on so many mass market models, with more new ones at Paris being introduced on the likes of the new generation Volkswagen Golf as well as the new Volvo V40 which is packed with almost all the ADAS available on the market. It is safe to say that ADAS is now a mass market product.



## HTML 5 – Silver bullet or just another option?

As OEMs continue to push towards an app-based future, SBD investigates whether any clearer answers are emerging from the industry about the role that HTML5 will eventually play.

We have attended various events over the last month that have either partially or fully been focused on the ever-growing saga of how OEMs should develop infotainment platforms. Open or proprietary? Native or cloud-based? Genivi or Android? The list of alternatives goes on and on. SBD will soon publish a simplified guide to all these alternatives that we hope will clarify the decision-making process for OEMs and suppliers. One of the key sections within the report focuses on the future of HTML5.

HTML5 has garnered significant interest amongst OEMs (particularly the Germans), many of whom see it as a potential silver bullet that can help them overcome some of the challenges that have plagued the automotive industry's push towards an app-based future. HTML5, some argue, can finally allow OEMs to safely detach apps from the much deeper OS layers, and in doing so make it easier for app developers to do their job whilst helping OEMs avoid the risks associated with developing OS-specific app stores.

But is it really a silver bullet? Well the answer is: maybe in 3 years but not yet. For HTML5 to become a success it must first be widely adopted within the CE world. Whilst some major players such as Google and Apple have made an early start in supporting HTML5 browsers, other major players such as Facebook are sending a decidedly more mixed message to app developers. Ultimately no smartphone manufacturer or platform provider wants to adopt a solution that could negatively impact their ability to monopolise and profit from native app downloads.

Additionally, some of the OEMs that SBD spoke to at the various conferences raised concerns about the poor performance (e.g. refresh rates) that they have experienced in early HTML5 prototypes compared to native apps. Various app developers also spoke about similar performance and development problems faced during early implementations of HTML5 apps. So as app developers continue to claim that we're at least 3 years away from HTML5 apps being competitive against native apps, it would take a brave OEM to launch an HTML5-based platform today.

Even as HTML5 matures, none of the speakers at any of the events we attended claimed that it would (or even could) fully replace the need for native apps in the car. Nissan, QNX and various others agreed that HTML5 (if adopted by OEMs) would be largely limited to infotainment and navigation apps, whilst safety-critical apps would continue to be native. No-one expected an HTML5-only platform to emerge.

So it looks like HTML5 is yet another incremental solution that can be added to the long and expensive list of technologies that OEMs may need to implement in future platforms. The question remains whether it is financially viable to continue raising the requirements (and costs) of in-car platforms at a time when consumer willingness to pay remains relatively low.



## Sirius XM becomes 'Telematics Service Provider' for Nissan

Sirius XM has just released a plan to introduce itself as a telematics service provider – Nissan is set to become the first OEM to benefit from these services.

Sirius XM Radio and Nissan North America has announced that Nissan selected SiriusXM as the exclusive provider of a comprehensive suite of premium telematics services for Nissan branded vehicles.

Several of SiriusXM's offerings are firsts for the Nissan brand, including 24/7 emergency support for accidents, stolen vehicle tracking and roadside assistance. Customers will also enjoy the simplicity of a consolidated bill for their audio entertainment and a central site to manage subscriptions.

Looking ahead, SiriusXM has the ability to combine satellite and cellular networks to expand coverage beyond traditional cellular-based telematics services. This blend would also create the potential for personalized services and next-generation audio offerings that could unlock SiriusXM's vast catalog of entertainment assets.



Source: Sirius

**SIRIUS XM**

## Cinterion develops global M2M module for Verizon

Cinterion has announced the launch of PXS8, the first industrial-grade multimode M2M module to enable global roaming for voice and data communications.

The new module opens up new business opportunities for global enterprises looking to launch M2M solutions on Verizon Wireless' network. Developed for use on Verizon Wireless network and its international roaming partners, the new module supports both global 2G and 3G standards, eliminating the need for multiple designs for worldwide M2M solutions. Verizon's M2M customers can now benefit from moving 3G service across the Verizon Wireless networks and abroad with one M2M module and one solution design.

Offering global high-speed connectivity and a surface mount, ultra-slim form factor, the PXS8 is ideal for data rich and space constrained M2M applications such as industrial PDAs, global tracking and tracing, video surveillance or onboard vehicle Internet solutions. With the latest long-life chipset technology and a footprint prepared for forthcoming LTE modules, the new module provides a flexible path to the future for M2M applications requiring next-generation LTE mobile broadband connectivity.

Source: Cinterion

## Peugeot Connect Apps to use Sierra Wireless & Bouygues Telecom

PSA Peugeot Citroen, in collaboration with Bouygues Telecom, selected Sierra Wireless to provide the innovative 3G USB key that powers the Peugeot Connect Apps system.

Designed specifically for automotive use, this key incorporates 3G wireless connectivity, GPS positioning and advanced processing capabilities in a compact, plug-and-play form factor.

When the 3G key is plugged into the vehicle, it enables access to the Peugeot Connect Apps service, operated by Bouygues Telecom. This service provides drivers with valuable real-time information on traffic conditions, weather, and navigation, as well as information about parking, fuel stations, hotels, restaurants, tourist attractions, and other services nearby.

PSA Peugeot Citroen and Bouygues Telecom selected Sierra Wireless based on the company's ability to bring innovative products to the market, its expertise in providing connectivity for automotive applications, and its extensive experience with 3G networks worldwide. Peugeot Connect Apps will be available in new Peugeot vehicles in 17 countries, starting this fall with the Peugeot 208.

Source: Sierra Wireless



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## Ertico confirms EC plan for eCall legislation

Ertico has announced the European Commission's recommendation to support EU wide eCall services.



Ertico has announced that the European Commission has published its Recommendation on support for an "EU wide eCall service" in electronic communication networks for the transmission of in-vehicle emergency calls based on the European standards developed by the European Standardisation Organisations (including E112 and TPS) and an Impact Assessment on the implementation of harmonised "EU wide eCall services". The Impact Assessment concludes that:

- For the EU27 a regulatory approach is most effective and efficient. It is therefore recommended as the preferred option by the European Commission for the implementation of the "EU wide eCall service"
- The "EU wide eCall service" for passenger cars and light-duty vehicles will be included in an Annex to the Type Approval Directive, which is currently under preparation by the European Commission to take effect from 2015 for new type approved vehicles

The Impact Assessment was followed by a draft report from the Committee on Internal Market and Consumer Protection & Committee on Transport and Tourism supporting the conclusions of the Impact Assessment. This report can be accessed [here](#).

*Source: Ertico*

**SBD COMMENT:** This announcement by Ertico is considered to be a significant precursor to the emergence of the long-awaited Type Approval legislation mandating eCall. This legislation is being circulated within the EC, but has not yet emerged in public. Details of the processes leading to eCall mandates in Europe and Russia are included in SBD's quarterly [Connected Car Guide ~ Government edition](#).

## Automotive Grade Linux Workgroup launched

The Linux Foundation has announced the Automotive Grade Linux Workgroup which will advance automotive device developments



The Linux Foundation, the nonprofit organization dedicated to accelerating the growth of Linux, announced the Automotive Grade Linux Workgroup (AGL). The Workgroup will facilitate widespread industry collaboration that advances automotive device development, providing a community reference platform that companies can use for creating products.

Jaguar Land Rover, Nissan and Toyota are among the first carmakers to participate in the Automotive Grade Linux Workgroup. Other members include Aisin AW, DENSO Corporation, Feuerlabs, Fujitsu, HARMAN, Intel, NEC, NVIDIA, Samsung and others.

A major shift is underway in the automotive industry. Carmakers are using new technologies to meet consumer expectations for the same connectivity in cars as what is today the norm in homes and offices. From dashboard computing to In-Vehicle-Infotainment (IVI), automobiles are becoming the latest wireless devices – on wheels. By leveraging the \$10B collective investment already made in the Linux kernel and taking advantage of the technology contributions from the consumer electronics and enterprise computing markets, carmakers can use Linux and open source technologies to accelerate innovation.

The Automotive Grade Linux Workgroup will work with the Tizen project as the reference distribution optimized for a broad set of automotive applications ranging from Instrumentation Cluster to In-Vehicle-Infotainment (IVI) and more. The Linux Foundation will host this effort, providing a neutral environment for collaboration among the Linux kernel community, other open source software communities and the automotive industry.

*Source: Linux*



## Cadillac SRX CUE system gets Blu-ray rear seat entertainment

The 2013 Cadillac SRX will offer an entertainment package featuring a Blu-Ray DVD player that extends CUE to the rear seats with a kid-tested gaming remote for each of the two 8" displays.



With CUE, users can pair of up to 10 Bluetooth-enabled devices at once, including mobile phones, SD cards, USBs, and MP3 players. For the first time, rear-seat passengers can connect to and manage their own music players and playlists. A special connector cable sold separately allows watching movies stored in media players.

The addition of Blu-ray allows families the same video quality on the road as they're accustomed to at home. Front-seat passengers will be able to watch videos via the 8" touchscreen CUE display on the center-stack while the vehicle is in park. With audio playing throughout the vehicle's speakers, the SRX becomes a home-theatre on wheels. A dual-play capability feature allows one user to play a video game on one monitor while another user watches a movie or listens to the radio on the other.

The rear-seat entertainment package also gets an all-new cordless remote control, designed for familiarity and ease of use. Shaped like a video game remote control, it mimics the layout of buttons to help young users access their favorite media more easily. A quick-reference sheet will also be provided so users know what each button on the remote will do.

The SRX gets a pair of updated wireless headphones designed to fit more comfortably than previous versions as well as the ability to toggle between what is being played on either back-seat monitor. Users can also adjust volume directly on the headphones themselves. The rear-seat entertainment package will be available as an option on Luxury (with navigation,) Performance and Premium SRX trim models and will retail for \$1,595.

Source: Cadillac

## PLDS and H2i collaborate on gesture recognition

Philips & Lite-On Digital Solutions (PLDS), an automotive infotainment supplier, has selected H2i, to provide a gesture recognition infrared system allowing new interaction, even on inert surfaces.



H2i's solution is a unique infrared-based technology for creating mechanics-free touchless interfaces, gesture control, writing recognition, and proximity sensing applications. H2i offers OEM and automobile equipment manufacturers a cost-effective, hi-tech interface solution for today's demanding vehicle cockpit control systems.

PLDS, with a portfolio of CD and DVD drives as well as new developments for the automotive industry, selected H2i's technology for a new generation of infotainment system.

H2i's gesture control module is available as an SDK for partners to easily integrate into their own products. The solution provides high speed gesture recognition up to 3 m/s in all light conditions.

The gesture recognition technology will be demonstrated at the Telematics Update event in Munich at the end of October.

Source: PLDS

## Renault launches Twizy Way ~ Car pooling using telematics

After a trial phase, Twizy Way by Renault is now opening up its car-sharing solution to the general public.

In partnership with the urban community of Saint-Quentin-en-Yvelines, Twizy Way by Renault is a private service with public interest, which costs the taxpayer nothing, as operating (maintenance, vehicle charging, assistance, etc.) and parking are taken care of by Renault. The towns covered by the service (Montigny-le-Bretonneux, Guyancourt, Voisins-le-Bretonneux, and part of Trappes) have granted authorisation for use of the public domain and are helping to promote the service.

A store will be inaugurated within the next few days to complete the set-up. This store will be located in the station at Saint-Quentin-en-Yvelines, and will provide information, take registrations and take care of vehicle handover (a temporary store is open outside the station in the meantime).

The service is open to anyone who has held a class B driving license for over 2 years. After payment of a €15 registration fee (a one-off payment), the user will receive a magnetic card giving access to some 50 Twizy vehicles, distributed all over the urban community of Saint-Quentin-en-Yvelines.

One of the concept's main benefits is the fact that users don't have to worry about charging the vehicle or about parking. Users enjoy complete freedom as they can leave the vehicle in any car park within the service zone. They can pick up the vehicle where they find it and leave it where they like, 24 hours a day, 7 days a week.

With Twizy Way by Renault, the user pays only for actual use. There is no minimum amount. The price is €0.29/minute or €11.90 for a full hour's use.

Twizy Way by Renault is transparent - there are no hidden costs. Everything is included in the price - rental, energy, insurance, vehicle maintenance and parking within the service zone.

Users can instantly find out where the nearest available Renault Twizy is parked in real-time using a smartphone application or the web.



Using Twizy couldn't be easier - users can pick one up immediately by flashing the QR code on the vehicle, or they can book the Twizy of their choice on the web or using their smartphone, no more than 15 minutes before using it. Anything is possible and everything is easy with Twizy Way by Renault.

Every vehicle in the Twizy Way by Renault fleet is fitted with:

- A badge reader to enable start-up and to measure journey time
- A geolocation system to identify the Twizys available for rent and indicate their level of charge
- An emergency call button (24/7) connecting to a dedicated call centre
- A QR Code which is flashed using a smartphone for immediate departure.

Source: Renault



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## TomTom offers TPEG traffic for automotive navigation

TomTom announces a new delivery technology that allows integration of TomTom HD Traffic in navigation solutions for automotive market.

## TomTom releases Android map and navi app

The TomTom Navigation app for Android now is available to download from Google Play for the first time.



TomTom has announced the availability of a new delivery technology that enables further integration of its real-time traffic product, TomTom HD Traffic, in navigation solutions for the automotive market.

TomTom has developed TPEG1 (an industry standard maintained by TISA2) over IP service to deliver HD Traffic to automotive in-dash devices developed by other Tier-1s. This new technology will boost the number of devices compatible with TomTom HD Traffic and ultimately lead to further growth of the user community.

Ralf-Peter Schäfer, Head of TomTom Traffic Product Unit, said: "We are very pleased to accelerate the availability of TomTom HD Traffic using common standards such as TPEG and OpenLR to provide premium traffic information for the entire road network."

TPEG is becoming widely adopted in the automotive area to deliver traffic information, both via radio broadcast and via IP for connected devices (e.g. GPRS, 3G, LTE). TomTom offers TPEG delivery via IP, leveraging the two-way IP communication channel to bring a service tailored to the device's location.

Additionally, TISA has approved the OpenLR3 location referencing technology for use in TPEG. This ensures that the detailed road coverage which is available on TomTom devices can also be offered to third-party devices. OpenLR enables traffic information not only for major roads which are included in the standard TMC tables, but also lower class roads. OpenLR is open source and carries no license fees. The TPEG2-OLR specification is now available on the TISA website.

Source: TomTom

The TomTom Navigation app for Android has been designed especially for drivers. The latest TomTom maps are included and stored offline. The app includes free quarterly map updates which ensure that drivers always have the latest map on their smartphone.

### ▼ Pricing and Availability:

TomTom Navigation app for Android is available now at a special introductory offer from the Google Play store, priced at €34.99. The app is compatible with all devices running Android OS 2.2 and needs 3.7GB for map storage and 215MB free at all time.

### ▼ Features of TomTom Navigation for Android:

- Fully off-line and navigable map.
- Users will receive four free map updates per year for the life of the app.
- IQ Routes.
- HD Traffic live traffic updates; available via an in-app purchase.
- Speed Cameras locations; available via in-app purchase.
- TomTom Places search results designed for drivers.
- Multitasking support. Clear turn-by-turn guidance while on the phone.
- Spoken instructions now include street names.

### ▼ TomTom Hands-free Car Kit for Smartphones:

- Hands-free calling via Bluetooth.
- Sound Boost. Seamlessly integrates with the app for clear voice instructions with the built-in speakers.

Source: TomTom

## Toyota uses DAB traffic info in Belgium

Toyota has announced most of its cars sold in Belgium will carry traffic information on DAB, powered by be-mobile.

Toyota has announced that all of its Land Cruiser V8, Grand Prius+ Lounge version, Prius Solar Premium version cars sold in Belgium will carry traffic information for their in-car systems on DAB, powered by be-mobile and using the RTBF DAB network in French-speaking Belgium (and the VRT DAB network in Flanders).

DAB represents a major industry advancement for real time traffic information; larger traffic data volumes can be processed which in turn ensures more accurate, more detailed and more precise information. DAB also vastly increases the speed at which traffic information is updated. The over-riding advantages to the end customer include:

- More accurate flow prediction of arrival/travel times
- Real-time mobile radar & traffic alert warnings
- Parking advice: closest parking lot, available places etc.
- Public transport timetables
- Weather updates

In French-speaking Belgium, "DAB/DAB+, the digital radio broadcasting standard of the future, marks a major milestone in the continuing digital revolution," remarked Francis Goffin Director - General of RTBF Radio.

"DAB/DAB+ means an enriched (with metadata, text and visuals), enlarged (more stations) and high quality radio offer, which also means high quality traffic information. DAB/DAB+ not only brings phenomenal digital sound quality without interference while driving but also, as be-mobile and Toyota Belgium show, a host of other features which complement the listening experience, such as accurate and precise traffic information directly integrated in the car's navigation system. As a public service broadcaster, the RTBF is proud that its DAB/DAB+ network can contribute to greater safety on the road".

Cedric Van Rossum, Sr. Manager for Toyota Belgium, said "teaming up with be-mobile has enabled us to offer next-generation traffic mobility data directly to our in-built car navigation systems. Available as standard in

Land Cruiser V8, Grand Prius+ Lounge version and Prius Solar Premium versions sold in Belgium, be-mobile's service enables safer, cleaner, and more fuel efficient journeys for all of our customers."

*Source: be-mobile*

**SBD COMMENT:** Be-mobile has grown to become one of the leading global traffic information suppliers with services in South America, Middle East and Asia in addition to Europe. Its services are delivered by a variety of technologies including RDS TMC, DAB TPEG and XML, [according to SBD's Global benchmark of real-time traffic information services.](#)

## Toyota Auris features new version of Harman Touch & Go

The Toyota Auris will be the first to include the latest Touch & Go navigation, developed by Harman, which adds functions such as junction view, tunnel view and wider language support.

The latest version of the Toyota Touch & Go multimedia satellite navigation system is as easy to use as ever. The new Touch & Go system comes with an improved application platform with applications in all supported languages and ability to run in the background. In addition the system features enhanced navigation features including junction view and tunnel view with more intuitive message displays. The update will be available for all current users when they purchase a map update and is free of charge to Toyota Touch & Go Plus users as part of the three-year free update program.

The new Touch & Go multimedia system in the Toyota Auris goes on sale later this year.



In other news from Harman, it announced that a major European-based automaker will be integrating the HALOsonic™ External Sound Synthesis (ESS) solution in a line of plug-in hybrid vehicles. Harman's HALOsonic ESS solution is a potentially life-saving technology that generates sound outside the vehicle, particularly targeted at hybrid or electric vehicles that are virtually silent at low speeds.

*Source: Harman*

## Dacia offers low-cost navigation with connectivity

Dacia is offering an embedded navigation system in its new 2013 Logan and Sandero models.



Dacia is offering an embedded navigation system in its new Logan and Sandero models. The low-cost division of Renault is set to price the system at approximately €450.

The Media Nav system fits into the central fascia and includes in-car navigation, radio, Bluetooth handsfree kit connection and audio streaming, all controlled via a 7-inch touchscreen.

Navigating the system is based on a menu page. Occupants can also hook up their nomad devices via the USB and jack sockets mounted on the central fascia for enhanced access and ergonomics, and play them using the touch controls on the screen or the buttons on the steering wheel.

The intuitive touchscreen features 2D and "Birdview" 3D graphics. Customers can update and add mapping content using the USB socket and Naviextra website.

In addition to the Media Nav system, Dacia is offering a Plug&Radio multimedia solution in the new Logan and Sandero models. Plug&Radio consists of a wide screen and MP3-compatible CD player, plus Bluetooth technology, fascia jack and USB sockets, and steering wheel mounted controls.

With Bluetooth technology drivers can make hands-free calls, with synchronised contacts book and call history, and listen to their favourite tunes via audio streaming on the car's speakers.

Source: Dacia

## Amazon develops Maps API

A new API on the Amazon Mobile App SDK tab is now available.

When Amazon announced Kindle Fire HD, the company also made their own Maps API available to their developer community. The API makes it easy for people to integrate mapping functionality into apps that run on the all-new Kindle Fire and Kindle Fire HD. These new devices will also support location based services through the Android location API.

The Amazon Maps API provides a simple migration path for developers who are already using the native Google Maps API on Android. Amazon's Maps API offers two core features:

### ▼ Interactive Maps

A Map View can be embedded in an app for customers to pan, zoom and fling around the world. The option to display a user's current location, switch between standard maps and satellite view, and more is also available.

### ▼ Custom Overlays

The locations of businesses, landmarks and other points of interest can be displayed with customised markers and pins.

Source: Amazon



## Recently published reports...

**SBD**

SBD clients: Click or scan the QR code to view this report

**Connected Car Guide**  
Government edition  
(Q3 2012)

ARD/CON/528  
Last update: September 2012

Click to continue

The Connected Car Guide ~ Government edition provides a country-by-country analysis of how and where legislation is impacting on automotive connected services. The report identifies the threats and opportunities generated by government mandates, licensing requirements and policies within the following markets: Europe, USA, China, Russia, Brazil and other markets.

This report is a live resource that will be updated with new information each quarter. Please contact SBD if you would like additional information relating to other legislation or markets to be included within future editions.

## Other research you may have missed...

### Paris Motor Show Report

2012  
PARIS  
MONDIAL DE L'AUTOMOBILE  
29 SEPT - 14 OCT

LE FUTUR, MAINTENANT.

10H-20H — NOCTURNES JEUDI & VENDREDI JUSQU'À 22H  
Paris expo Porte de Versailles

BILLETTS EN VENTE — MAGASINS AUCHAN, CARREFOUR, CORA, E. LECLERC, FNAC, GALERIES LAFAYETTE, GÉANT, SYSTÈME U, VIRGIN MEGASTORE

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### SBD's Connected Car Guide...

**Connected Car Guide**  
OE Services in USA,  
Europe and China

SBD/TEL/0760  
Last update: March 2012

Click to continue

...new Q3 edition

USA

EU

China

### CarIT Congress - Mobility 3.0

...including presentations from VW & Daimler

CarIT Congress - Mobility 3.0

Paris Motor Show Report

- Connected Car
- Safe Car
- Secure Car

sbdportal.com



## Coming soon in October...

**Short range wireless tech**  
A report on the future of short-range wireless communications in the car.



**Automotive App Guide**  
A comprehensive guide on apps within the automotive industry, updated for Q3.



**Automotive OS strategies**  
A guide of how to choose the right OS strategy for in-car infotainment systems



SBD attended the TU Japan event in Tokyo, that included presentations from Nissan, Toyota and Honda on their future telematics plans. SBD will soon publish a report summarising the key points made by each speaker and other interesting items discussed during the 3-day event.



## Full Connected Car report plan...

		Q2 2012	Q3 2012	Q4 2012	Q1 2013
Automotive App Guide (Q2 update)	ARD/CON/531	Ready			
Speech technology in automotive Guide	SBD/TEL/3620	Ready			
Navigation 3.0: A vision for next-generation in-car navigation	SBD/TEL/3660	Ready			
Integrating the Cloud into the car	SBD/TEL/3710	Ready			
Global Government Guide (Q2 update)	ARD/CON/528	Ready			
The impact of telematics insurance on the automotive industry	ARD/CON/516	Ready			
Connected Car Guide - OE Services (Q3 update)	ARD/CON/526	Ready			
Global Government Guide (Q3 update)	ARD/CON/528		Ready		
Choosing the right automotive OS strategy	SBD/TEL/3630			Soon!	
Emerging short-range wireless technologies	ARD/CON/510			Soon!	
End User Survey of consumer needs in South East Asia	ARD/CON/539			Soon!	
Analysing the readiness for telematics in South East Asia	ARD/CON/513			Soon!	
The evolving value chain for telematics in China	ARD/CON/512			Soon!	
Automotive App Guide (Q3 update)	ARD/CON/531			Soon!	
The future of Remote Vehicle Operation	ARD/SEC/518			Planned	
Global forecast of broadcast and cellular connectivity in the car	ARD/CON/536			Planned	
Connected Car Guide - OE Services (Q4 update)	ARD/CON/526			Planned	
Managing driver distraction inside connected cars	ARD/CON/509			Planned	
New technologies and partnerships for smartphone integration	ARD/CON/511			Planned	
HMI technical Guide	ARD/CON/530			Planned	
Global Government Guide (Q4 update)	ARD/CON/528			Planned	
Developing telematics to comply with data privacy laws	ARD/CON/514				Planned
Global Traffic Information Guide	ARD/CON/527				Planned
Global Navigation Guide	ARD/CON/529				Planned
Automotive App Guide (Q4 update)	ARD/CON/531				Planned
CE trends outside of the car and their impact inside the car	ARD/CON/508				Planned
Connected Car Guide - OE Services (Q1 update)	ARD/CON/526				Planned
Global Government Guide (Q1 update)	ARD/CON/528				Planned
Seamlessly integrating the car with the home and the cloud	ARD/CON/515				Planned
Automotive App Guide (Q1 update)	ARD/CON/531				Planned
Overcoming the threat of over-the-air electronic hacking	ARD/SEC/522				Planned

## Exclusive interview: RadioDNS Hybrid Radio ~ All you need to know

In an exclusive interview with Telematics News, James Cridland from RadioDNS discusses their technology, benefits and potential use in cars.



RadioDNS  
Demonstration



**Telematics News (TN):** *What is the goal of RadioDNS? Why do we need this technology?*

**James:** Broadcast radio, whether FM, DAB or HD, is loved by listeners because it's reliable, free, and works excellently on the move. The internet is good for additional, personalised information, impossible to provide over broadcast radio: but it's inefficient, unreliable and expensive to use as a mainstream broadcast medium. RadioDNS is open technology that lets traditional broadcast radio and the internet work together: enhancing the listener experience, and making radio better.

Of most interest in-car is the possibility of service-following: so if you drive away from a city, the car radio can switch away from a failing FM signal to the internet when it needs to; and switch back to FM when FM is available again. Automatically switching between these different platforms ensures no driver distraction, and is good news for broadcasters too.

Tagging means you can press one button on your steering-wheel to bookmark a piece of radio you'd like to hear more about: from a news story to a commercial message or a song. Later, when it's safe to do so, you can review what you tagged by visiting a radio station's website or mobile app.

Additionally, RadioDNS is currently used in a variety of home radio receivers for images and additional information while you're listening.

**TN:** *What hardware, software and infrastructure are needed for RadioDNS to work?*

**James:** RadioDNS and its associated applications have been specifically built to be really simple to implement by broadcasters and OEMs alike. The technology isn't new - it's built on the DNS system that makes the internet work. A receiver manufacturer will probably find they already have all the building blocks to use RadioDNS; and there are no patent or licence fees. The specifications are freely available at [radiodns.org](http://radiodns.org)

Mobile phones increasingly include FM chips; and as long as there is an API to make the FM tuner visible to the host OS (like Android or Windows Mobile), then it's easy to implement. Our experience is that more mobile phone manufacturers understand the benefits of broadcast radio, and of documenting an API into the FM chip, to enable smarter apps.

Clearly, broadcasters also need to produce information for RadioDNS applications to find. Getting into the RadioDNS nameserver is currently free, and providing relevant information is quick and simple; and there are many third parties who can offer to do this for broadcasters.

**TN:** *Digital radio and internet radio have similar features; could you briefly explain the key differences of using RadioDNS?*

**James:** All types of broadcasting radio - whether FM, DAB, DAB+ or HD, offers the capability of some data for receivers to use; and RadioDNS doesn't replace that. Instead, RadioDNS allows extra information to be provided over the internet to enhance the experience; and using a back-channel where appropriate.

As one example, with RadioDNS I can request an image from a broadcaster that is the right dimensions for my dashboard display. With broadcast programme associated data like DAB's slideshow feature, you're forced to use the image being broadcast, which may not resize correctly.



Click here or scan the QR code to see the rest of this interview, including a video demonstration of RadioDNS in action



## Livio Connect works with GENIVI Compliant Tizen IVI platform

Livio has revealed a demonstration of Livio Connected mobile phone applications operating on an Intel Atom processor-based platform running Tizen IVI at the Automotive Linux Summit.



### Livio Radio More Music. Less Work.

Livio has revealed a demonstration of Livio Connected mobile phone applications operating on an Intel Atom processor-based platform running Tizen IVI at the Automotive Linux Summit, a global event hosted by the Linux Foundation.

Tizen provides a powerful environment for application developers, based on HTML5. Designed for automotive OEMs, Tizen IVI allows developers to use HTML5 and related web technologies to write applications that run across multiple car stereos.

Livio Connect is a technology that connects apps to cars easily and quickly for software and hardware developers.

“Getting Tizen IVI Livio Connected is our first example of how we’re working with standards for connecting apps to cars. Drivers bring their smartphones into cars and we’re providing a scalable and safe integration solution,” said Livio founder and CEO Jake Sigal. “We see Tizen IVI running on the Intel processors as a scalable platform for any car stereo system.”

“Because Tizen IVI is already GENIVI compliant, this combination with Livio creates an opportunity for GENIVI car OEM’s to quickly and safely get apps into the dashboard,” said GENIVI Director of Marketing and Treasurer, Joel Hoffmann.

Source: Livio

## Opel launches IntelliLink in ADAM

‘IntelliLink’, Opel’s new infotainment system, has its debut in the ADAM, offering drivers a high degree of convenience and flexibility by bringing owners’ smartphone capabilities into the vehicle.

The IntelliLink infotainment system brings content from the smartphone onto the seven-inch, high resolution, full colour touch-screen display. Connectivity is provided via USB or Bluetooth for mass storage devices, including MP3 players, iPod, iPad, etc. The system enables personal playlists, photo galleries, phone books, other stored media and data to be accessed easily via the touch-screen in the car. Videos and photos can also be viewed on the screen when the ADAM is stationary.



Selected apps that are compatible for smartphones using both Android and Apple iOS can be downloaded from the internet. For example, a navigation system app will be made available, which offers maps for Western and Eastern Europe. This app will be available in the car via the IntelliLink touch-screen allowing owners to follow guidance whilst driving.

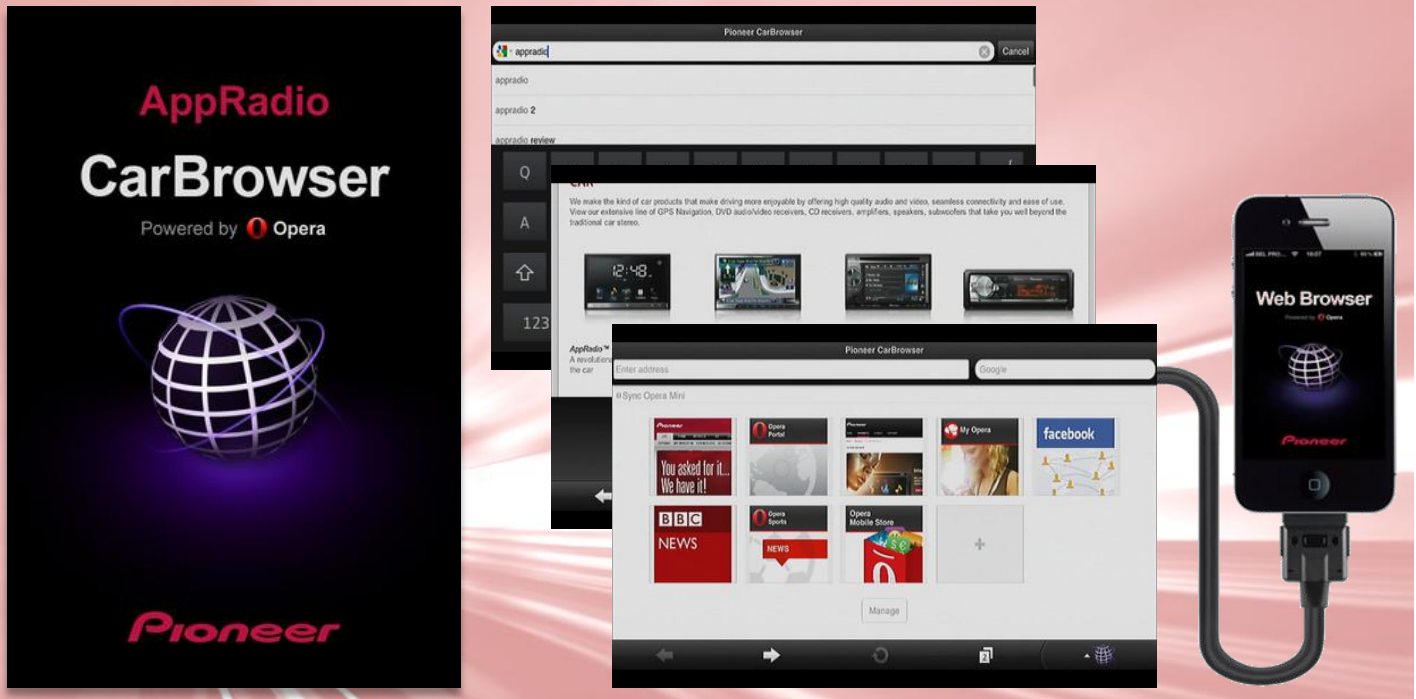
Another useful App which will be offered for IntelliLink is Stitcher, a global podcast internet radio that lets users listen to programs live or after they have been broadcast. Once Stitcher is downloaded onto the smartphone, the ADAM owner can access more than 10,000 podcasts on demand, radio shows and live stations around the world via the IntelliLink touch-screen.

Another debut for ADAM is Advanced Park Assist II, a system which has never been seen before in an Opel production car. Drivers engage the system with a button on the dashboard and it tells them when they reach a parking space large enough to accommodate the car. The system then automatically steers them into the parking space, with the driver only needing to control the brake, clutch and gears. APA II uses ultrasonic sensors in combination with Side Blind Spot Alert (SBSA).

Source: Opel

## Pioneer AppRadio adds Opera Browser with car-centric apps

Opera Software, announced the release of the Pioneer CarBrowser, available on the iPhone 4 and iPhone 4S and compatible with Pioneer's AppRadio and AppRadio Mode featured in-car stereo systems..



Combined with numerous Pioneer receiver models, the Pioneer CarBrowser provides complete in-vehicle access to the Internet.

Users can check restaurant reviews, compare prices at the mall, or research weather forecasts for future road-trips – all before leaving the driveway or parking lot. With the Pioneer CarBrowser, Internet contents are easily viewable on Pioneer's large 6.1- or 7-inch touchscreen displays, and optimized for the in-car environment.

Opera Mini is the most popular mobile web browser, with more than 187 million users worldwide. Powered by Opera technology, the browser shrinks down webpages resulting in faster loading and savings on data charges. The Pioneer CarBrowser offers the same great performance as Opera Mini for smartphones and tablets, and with the Opera Link tool, users can also automatically sync their favorite websites from their computer or mobile device into the car.

In-car infotainment has come a long way since the introduction of the dashboard radio. Household technologies like the phone and TV have already been integrated into the car. Now the in-car experience has been further enhanced with the ability to access the web.

Although car manufacturers are aggressively offering limited in-vehicle access to the Internet through various apps, they're generally "walled gardens", and consumers are clamoring for a more open Internet experience. The Pioneer CarBrowser powered by Opera Mini provides the best Internet encounter with virtually no limitations. To ensure safety, the Pioneer CarBrowser can only be used when the vehicle is parked and the handbrake is fully engaged.

Opera Software also provides the web browsing capability for the in-dash computer system in Ford trucks and vans. Opera Mini shares many helpful features with Opera's desktop web browser, including tabbed browsing, password manager and Speed Dial shortcuts.

The Pioneer CarBrowser is available for a special introductory price of US\$1.99 (normally US\$3.99) in the iTunes App Store.

Source: Pioneer

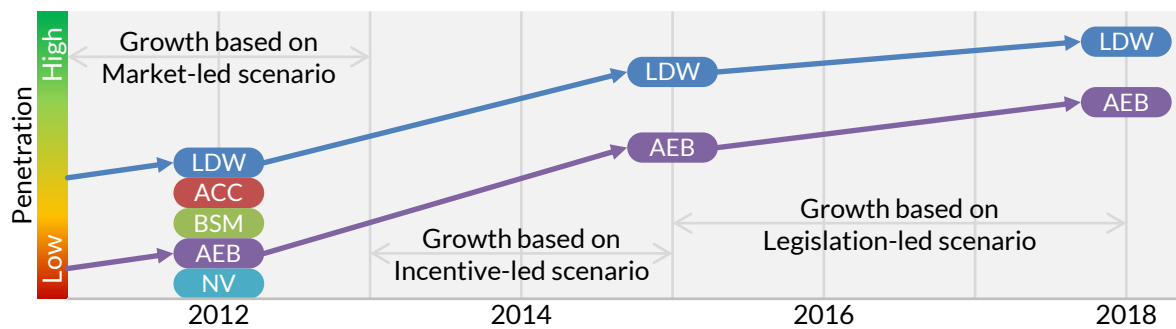
## Europe to become the fastest growing market for ADAS

Despite their huge potential to save lives, ADAS systems have so far failed to contribute significantly to the drop in road fatalities - due primarily due stubbornly low penetration rates over the last decade. But this is poised to change, as costs begin to fall, consumer interest continues to grow, (most importantly) EuroNCAP inclusion of some ADAS applications within it's star ratings kicks into place.

It is easy to assume that this headwind will lead to a blanket-increase in market penetration for all types of ADAS; however this may not be the case. There is still some uncertainty in the market, and there is still a lack of common direction and strategy amongst OEMs. For this reason, SBD has developed an ADAS forecast based on three scenarios taking into consideration the various factors that support the growth of different ADAS systems in the market.

- **Market-led:** In this scenario, it is assumed that the market grows purely based on consumer demand.
- **Incentive-led scenario:** In this scenario, it is assumed that the market growth is supported either by an information campaign from the EU or included within the EuroNCAP ratings
- **Mandate-led scenario:** In this scenario, it is assumed that the market growth is supported by announcement of legislation for ADAS application.

Based on the scenario forecast developed by analysing current and future system availability across OEMs, the total market for ADAS is expected to grow at a CAGR of 25% and reach €9 billion revenues by 2018.



Buoyed by the inclusion within the proposed Euro NCAP ratings, Lane Departure Warning and Autonomous Emergency Braking (AEB) are expected to grow fastest among all ADAS applications. The market for LDW is expected to grow at a CAGR of 36% and reach 34.8% market penetration by 2018 under the incentive scenario. The revenues of LDW are expected to reach €1.6 billion by 2018.

The availability of AEB-City on low-segment vehicles heralds a change in OEM mind-sets that were traditionally pushing ADAS into higher segment vehicles. The Paris Motor Show was the opportune moment for OEMs to announce their plans on ADAS. Volkswagen unveiled the new Golf with ACC as standard on higher variants. The Golf also has Lane keep assist/lane departure warning and city emergency braking (AEB-city) fitted as options. The addition of standard-fit ADAS systems to high variants of the popular Golf model has the potential to significantly grow the market for ADAS in Europe.

The EuroNCAP inclusion of ADAS systems came unexpectedly quickly in Europe and caught many OEMs by surprise. However, we are seeing a significant push amongst OEMs to develop and deploy low-cost ADAS systems across their entire model range over the coming years. Europe is about to become the fastest-growing ADAS market globally.



EU ADAS Forecast  
2011-2018

SBD clients: click or scan the QR code

## VW Golf features advanced driver assistance pack for €1690

Volkswagen has released pricing information for its driver assistance pack on the new Golf.



The pack will be offered as an option in the Comfortline and Highline equipment lines and will include:

- ACC adaptive cruise control
- “Front Assist” surroundings monitoring system with City Emergency Braking function
- Bi-xenon headlights with LED daytime running lights and cornering lights
- “Dynamic Light Assist” dynamic main beam control
- Light and sight pack
- “Lane Assist” lane-keeping assistant
- Anti-theft warning system “Plus”
- Traffic sign detection

This pack is available in the new Golf starting at 1690 euros. The driver assistance pack offers an attractive price advantage to customers compared to ordering the options separately. They save up to 605 euros in the Comfortline and up to 415 euros in the Highline.

**NOTE:** The new Golf also features a new infotainment system, which is covered in our [Paris Motor Show Report](#).

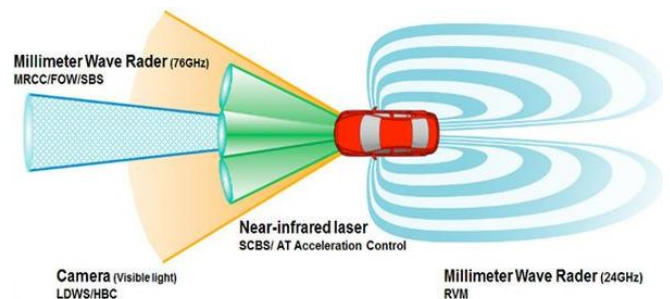
Source: Volkswagen

## New Mazda 6 gets i-ACTIVSENSE ~ host of ADAS features

Mazda will incorporate “i-ACTIVSENSE” technologies into the all-new Mazda6 (known as Atenza in Japan) to be launched later this year.



i-ACTIVSENSE is a series of Mazda’s advanced safety technologies designed to aid the driver in recognizing hazards, avoiding collisions and reducing the severity of accidents when they cannot be avoided.



Mazda’s i-ACTIVSENSE is an umbrella term covering a series of advanced safety technologies, developed in line with Mazda Proactive Safety, which make use of detection devices such as milliwave radars and cameras. They includes active safety technologies that support safe driving by helping the driver to recognize potential hazards, and pre-crash safety technologies which help to avert collisions or reduce their severity in situations where they cannot be avoided.

Features include:

- Adaptive cruise control
- Collision warning
- Lane departure warning
- Blind spot monitoring, adaptive lighting
- Collision avoidance

Source: Mazda

## ABI confirms insurance group drop for AEB

Association of British Insurers (ABI) signals potential for reduced premiums with the introduction of Autonomous Emergency Braking into group ratings.

UK insurance industry adopts findings and adjusts group ratings to reflect the significant potential to prevent collisions and reduce accident repair costs.

Following accident risk assessment work by Thatcham, the UK motor insurance repair research centre, the Association of British Insurers (ABI) are introducing important changes to their Group Rating system. As a result, motorists who buy cars fitted as standard with Autonomous Emergency Braking (AEB) technologies could immediately benefit from a one to five point drop in insurance group. This is the first time that the UK insurance industry has adopted research data on a new vehicle safety system without needing to run extensive market trials.

Group ratings reflecting the changes will be available to the insurance industry for the first time from 20th October 2012 and will be updated as car manufacturers continue to introduce further AEB systems to models as a standard fit. The technologies use various highly developed laser, RADAR and camera sensors to monitor the road ahead, warn drivers of a potential hazard and, ultimately, apply full braking pressure independently of the driver to help prevent a collision or mitigate the severity of the impact.

AEB has been identified internationally by road safety and insurance organisations as having the potential to reduce massively the number of low speed front-to-rear shunts and accidents involving pedestrians. Analysis of research studies in Europe and the USA suggests that once widely adopted in the UK, the technology could lower both the number and the cost of collision claims. Additionally the latest generation AEB systems have the potential to prevent some 2,700 pedestrian casualties annually as well as some 160,000 whiplash injury claims, which have added significantly to insurance costs in recent years.

Since 2007 Thatcham has been part of an international group of research centres that set about defining a set of test procedures that could be used by consumer test organisations and the insurance industry to measure the effectiveness of AEB systems on new vehicles and the influence they will have on future accident damage and third party claims. Thatcham-developed test procedures in particular the vehicle to vehicle test – has now been adopted by the Euro NCAP organisation which gives new vehicles their safety star ratings.

While developing the tests, Thatcham has also accumulated and analysed data from around the world, sufficient to convince the UK insurance industry that it could reduce premiums for cars fitted with AEB without running extensive field trials. In particular the Insurance Institute for Highway Safety (IIHS) in the USA ran a major study on Volvo's XC60, the first car to be fitted with standard AEB – its City Safety system. Claims data analyses showed that claims were made about a quarter less often for the XC60 than other similar 4X4s showing that, overall, many of the lower speed front-to-rear traffic shunts were being prevented. The cost of collision claims was lower too, with the average third party loss payment per claim some 27% lower than for all other 4X4s.

The expected one to five point drop in insurance group ratings in the UK for cars fitted with AEB is expected to benefit the owners of larger, more expensive, cars most because these potentially cause more third party damage and are more expensive to repair. However, even a reduction by two groups could significantly reduce insurance premiums for a family car owner.

Thatcham's Chief Executive, Peter Shaw added, "This is a fantastic example of the insurance industry not only embracing and encouraging important new safety technology, but also looking after their policyholders."

Source: Thatcham



## Mitsubishi develops new “e-Assist” Technology

Mitsubishi Motors Corporation (MMC) has developed “e-Assist,” a new active safety system.



This safety system uses millimeter-wavelength radar as well as a camera to further increase driving safety and peace of mind. MMC will use the e-Assist system for the first time on the all-new and fully redesigned Outlander SUV which is to be released this October in Japan.

Comprising the three functions detailed below, e-Assist supports safer driving on occasions when accidents are more likely to occur, such as on long-distance journeys or when driving in poor visibility at night or in bad weather conditions.

1. Adaptive Cruise Control System (ACC): This radar-based system maintains a safe distance with the vehicle in front, even in slow-moving heavy traffic.
2. Forward Collision Mitigation System (FCM): This radar-based system automatically applies the brakes when there is a sudden reduction in the distance with the vehicle in front and helps avoid a collision or reduce impact damage in the event of a collision.
3. Lane Departure Warning System (LDW): This camera-based system alerts the driver when the vehicle starts to drift from its lane, aiding driver concentration.

With the all-new e-Assist system, MMC reaffirms its dedication to continuing its research into and development of advanced safety technologies and incorporating them in its production models.

Application of the e-Assist system is not restricted to conventional internal combustion engine-powered vehicles but can also be used with the MMC’s Plug-in Hybrid EV System and MMC plans to install e-Assist in the Outlander PHEV which is due to be launched first in Japan at the beginning of 2013. [Learn more here.](#)

Source: MMC

## TRW pushes camera technology for active safety

TRW Automotive has outlined plans to invest in a third generation camera technology in anticipation of increasing regulatory focus for forward collision warning and lane keeping systems in North America.



TRW’s next generation camera will build on the current feature set of its production S-Cam (headlight control, lane detection, traffic sign recognition and vehicle detection & classification for automatic emergency braking), with focus on improved pedestrian detection functionality as this becomes a key safety target throughout Europe and the United States.



The development is a continuation of the successful partnership between TRW and Mobileye in place for TRW’s current production S-Cam forward-looking camera, available today in the European and Asian markets and within the next year in the US market.

Legislation in Europe will require fitment of Automatic Emergency Braking and Lane Departure Warning initially in trucks and buses. Private cars are expected to follow. While in the USA, NHTSA is using its SaferCar NCAP new car assessment programme to encourage fitment on a voluntary basis. More details are available at SBD’s Safe Car Guide ~ Government and Market Watch report. Please [click here to find out more.](#)

Source: TRW



# CONNECTED CAR SERVICES QUICK REFERENCE GUIDE



## HOW TO USE THIS REFERENCE GUIDE:

- This Reference Guide covers all vehicle manufacturers in 3 markets: EU, US and China
- The following service categories are covered for each market:



- The following connectivity options are included:

	EMBEDDED SIM CARD	TETHERING	SMARTPHONE INTEGRATION
Available services			
Planned services			
New services (from last month)			

## DATA TAKEN FROM SBD'S CONNECTED CAR GUIDE:

	Tethered	Smartphone
Live	Apps	Link
CT80 BMW Live, BMW Professional Audio & BT kit	421-60 Music interface & Professional navigation & App software	NIA iPhone cost extra
Lifetime	Lifetime	30 Days

Connected Car Guide (Europe)

## SBD'S INTERACTIVE CONNECTED SERVICES GUIDE

- Service availability by model
- Pricing
- Service architecture
- Future outlook
- Video demos

Contact: [enquiries@sbd.co.uk](mailto:enquiries@sbd.co.uk)



Safety



Security



Maint.



Navi.



Drive



Infotain.



Conven.



Insur.



EV



Urban

Brand	Safety	Security	Maint.	Navi.	Drive	Infotain.	Conven.	Insur.	EV	Urban
ALFA ROMEO										
AUDI										
BMW										
CHEVROLET										
CITROEN										
FIAT										
FORD										
HONDA										
HYUNDAI										
INFINITI										
JAGUAR										
JEEP										
KIA										
LANCIA										
LAND ROVER										
LEXUS										
MAZDA										
MERCEDES-BENZ										
MINI										
MITSUBISHI										
NISSAN										
OPEL/VAUXHALL										
PEUGEOT										
PORSCHE										
RENAULT										
SAAB										
SEAT										
SKODA										
SMART										
SUZUKI										
TOYOTA										
VOLKSWAGEN										
VOLVO										





Safety



Security



Maint.



Navi.



Drive



Infotain.



Conven.



Insur.



EV



Urban

Brand	Safety	Security	Maint.	Navi.	Drive	Infotain.	Conven.	Insur.	EV	Urban
ACURA										
AUDI										
BMW										
CHRYSLER										
DODGE										
FORD										
GM										
HONDA										
HYUNDAI										
INFINITI										
JAGUAR										
JEEP										
KIA										
LAND ROVER										
LEXUS										
LINCOLN										
MAZDA										
MERCEDES-BENZ										
MINI										
MITSUBISHI										
NISSAN										
PORSCHE										
SAAB										
SCION										
SMART										
SUBARU										
SUZUKI										
TOYOTA										
VOLKSWAGEN										
VOLVO										



Safety



Security



Maint.



Navi.



Drive



Infotain.



Conven.



Insur.



EV



Urban

	Safety	Security	Maint.	Navi.	Drive	Infotain.	Conven.	Insur.	EV	Urban
AUDI										
BMW										
BYD										
CHANG'AN										
CHERY										
FAW										
FORD										
GAC GROUP										
GEELY										
GM										
HAWTAI										
HONDA										
HYUNDAI										
LUXGEN										
MERCEDES-BENZ										
MINI										
Nissan										
PSA										
ROEWE										
SGM										
TOYOTA/LEXUS										
VOLKSWAGEN										
VOLVO										

## Other OEMs in China without services

		ACURA	BESTURN	CHANA
CHANGFENG	DONGFENG	GREAT WALL	INFINITI	JAGUAR
BRILLIANCE	KIA	LIFAN	SAIC	SKODA
SANGYONG	SUBARU	SUZUKI	ZOTYE	ZX AUTO

UPCOMING EVENTS

**FEATURED** since 2008  
汽车产业信息化拥抱移动互联网时代  
全球最大Telematics国际论坛 打造中国车联网创新驱动力  
International forum tailor-made for vehicle OEMs in China

**Shanghai, China**  
4-6 December

**FEATURED** **2012 CCC Summit and Technical Workshop**

**Tokyo, Japan**  
7-8 November

EVENT	ABOUT	VENUE	DATE
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Nov. 28-29, 2012 - Paris	Future of turn-by-turn GPS navigation For more info <a href="#">click here</a>	Paris, France	28 Nov– 29 Nov 2012
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	Global GSMA Connected Car Forum For more info <a href="#">click here</a>	London, UK	28 Nov 2012
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Top videos this month

[www.youtube.com/telematicsnews](http://www.youtube.com/telematicsnews)



Cadillac announces 'Virtual Bumper' tech

RadioDNS Demonstration

Cadillac SRX Blu-ray rear seat entertainment

Extract of videos from the SBD Portal



2012 Paris Motor Show - Opel IntelliLink

2012 Paris Motor Show - Renault R-Link

2012 Paris Motor Show - VW Golf

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CONNECTED CAR SERVICES QUICK REFERENCE GUIDE

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