TN Telematics News

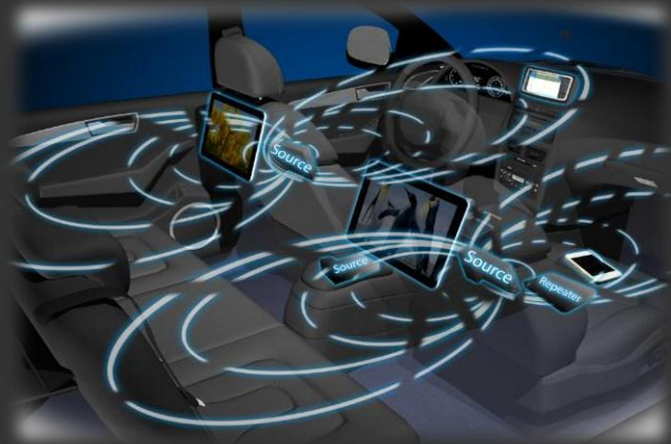## Mercedes-Benz launches 3G capable mbrace2 telematics service in the US

LUXGEN debuts HTC phone screen duplication *[pg 11]*

Delphi working on non-contact wireless charging *[pg 15]*

www.telematicsnews.info

Telematics News

SNAPSHOT: In this bulletin..

Telematics and infotainment [Pgs 4 to 8]

KIA — Kia debuts new UVO system

1 Million+ Peugeot Citroen cars equipped with eCall

BMW — BMW & Mercedes-Benz add YELP! to connected services

Ford — SYNC on 4 Million Ford cars

Mercedes-Benz — Mercedes-Benz Mbrace2 features 3G

Continental — Continental wins GENIVI contract with European OEM

BOSCH — Bosch SoftTec to create automotive apps & cloud solutions

OnStar — US: OnStar announces Atoms Cloud API for 3rd party app integration

China: Chery & SK Telecom to work together on telematics

HARMAN — India: HARMAN shows entry level system with smartphone

Navigation and traffic [Pgs 9 to 10]

telenav — TeleNAV announces new solutions with Ford and Sony

INRIX — EB & INRIX team up to develop next-gen navigation software

Department for Transport — UK Ministers to discuss navigation map updates for vehicles

NAVTEQ — India: NAVTEQ launches real-time traffic services

GARMIN — US: Garmin launches digital traffic service over HD Radio using NAVTEQ

Smartphone and apps [Pgs 13 to 16]

LUXGEN — LUXGEN 5 Sedan features HTC Mode Andoird phone screen duplication

SONY — Sony announces MirrorLink capable infotainment system

Ford — Ford announces support for a range of new apps for AppLink

KENWOOD — JVC Kenwood intros App Link Mode & Smart Remote features

NOKIA — Nokia MirrorLink app available for download

TuneIn Radio — TuneIn Radio app gets Car Mode feature

Airbiquity — Airbiquity announces App Developer Programme for car infotainment

ADAS, Connectivity & more... [Pgs 17 to 19]

DELPHI — Delphi developing non-contact wireless in-vehicle device charging

NFC Forum / Bluetooth — NFC Forum releases details on using NFC for Bluetooth pairing

Valeo — Valeo exhibits innovations at Auto Expo Trade Show – Delhi

VOLVO — Volvo SARTRE Project (Autonomous Driving) enters final phase

Mobileye — US: Mobileye intros smartphone connected driver assistance (ADAS) technology

Analyse intelligent vehicle safety systems with SBD's ADAS research

ADAS feature database – China, EU & USA

Detailed information of the cost, suppliers and system functionality across 45 major brands in 3 key regions

Interactive Safe Car Guide

A technical analysis of the ADAS features offered by BMW and Mercedes in Europe

Opportunities for ADAS in China

An analysis of which OEMs offer systems in China and how Chinese consumers respond to them

Linking ADAS to the infrastructure

An assessment of the process of moving V2X solutions towards the market place

ADAS enabled navigation

Analysing the link between navigation systems and ADAS

How ADAS are offered

Fitment strategies, purchase options and functionality

To have an initial discussion with our experts about ADAS or to discuss any of these reports, contact us on:

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CES: Kia debuts UVO e-Services telematics & smartphone integration

Driver assistance	Maintenance & diagnostics	Information and control
• Crash Notification • eServices Guide • Park Assist • Roadside Assistance	• Automatic Diagnostics • Scheduled Diagnostics • Vehicle Maintenance • Manual Diagnostics	• Speed Alert • Geo Fencing • Curfew Limit • Send2Car

Kia Motors America (KMA) has unveiled UVO eServices, the next iteration of the company's innovative voice-activated infotainment system, during the 2012 Consumer Electronics Show (CES).

UVO eServices represents an evolution from the original UVO system's capabilities, adding a new telematics suite ("eServices") that is powered by a free smartphone app that will provide drivers with an innovative in-vehicle connectivity experience including navigation, diagnostics capabilities and added convenience features.

Powered by Microsoft, UVO is short for "Your Voice," and provides consumers easy-to-use voice and touch-activated experiences to manage music files and hands-free mobile phone operation.

UVO continues to offer drivers hands-free mobile phone management capabilities and hands-free control of music from a variety of media sources, including CD, radio, USB, media player, and the Digital Jukebox. Users will now be able to control the on-board navigation system through voice commands when the vehicle is outfitted with the UVO eServices/navigation package. The functions shown in the figures (above), with the exception of eServices Guide and Crash Notification Assist, are run through the owner's smartphone equipped with the free UVO eServices app.

Although the eServices app is free for download, availability dates and phone details have not yet been released.

Source: Kia Motors America

Telematics and infotainment

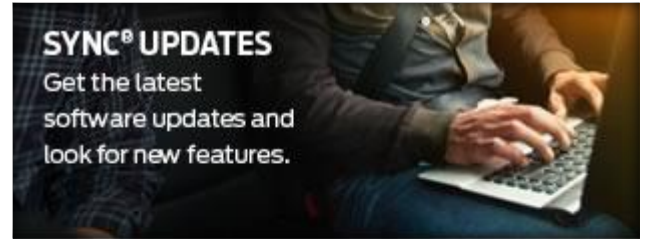## SYNC on 4 million Ford vehicles – Expected to hit 13 million by 2015

Just one year after eclipsing the 3 million mark, Ford has sold the 4 millionth vehicle equipped with SYNC, powered by Microsoft.

Launching globally this year, Ford SYNC powered by Microsoft is forecasted to reach 9 million new customers around the world in the next three years.

Ford internal research has found that customers who bought 2011 models of Ford vehicles treat SYNC as a must-have technology and purchase the system 82 percent of the time. Also, more than 80 percent of SYNC users said they are likely to recommend the system to others.

During the customer clinics held after the initial release of MyFord Touch, customers said they wanted the system to be faster and easier to use with simpler graphics. Ford engineers listened, resulting in a major upgrade to MyFord Touch that will roll out in a few months as 2013 model year vehicles are introduced.

Source: Ford

SYNC® UPDATES
Get the latest software updates and look for new features.

SYNC® WITH MYFORD TOUCH™ OWNERS SUPPORT
Have questions? Get answers.

SYNC® APPLINK™
Control your favorite apps with your voice.

1 million+ Peugeot Citroen vehicles equipped with eCall

Over one million Peugeot and Citroen models featuring the emergency call systems have been sold. 5,500 people in 10 countries have used it to access emergency services. In 2010, PSA Peugeot Citroen made the eCall emergency system accessible with the launch of the Autonomous Telematics Box (ATB); an on board unit which is connected to the vehicle. This unit separates the telematics systems from other functions like hands free telephone control. This offers an independent solution for life, free of any contracts.

Source: PSA

US: BMW and Mercedes add Yelp! to in-car connected services
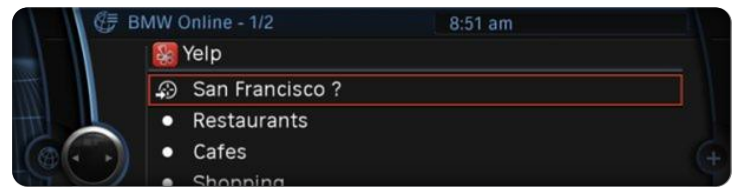
BMW has announced that users of BMW Online in the US can now access Yelp in their vehicles.

With Yelp on board, customers can search for anything from the best local restaurants and boutiques to parking garages and banks.

Along with locations for these businesses are attached details like ratings and reviews which can be heard via the vehicle's text-to-speech features as they become available.

Mercedes Benz has also added Yelp to COMAND Online services in the US. The first launch will be in the new SL Class. Other apps for COMAND on line, including share prices and car park finder (Europe) are set to be launched by Mercedes Ben as well.

Source: BMW, Daimler

Mercedes-Benz mbrace2 features 3G connectivity
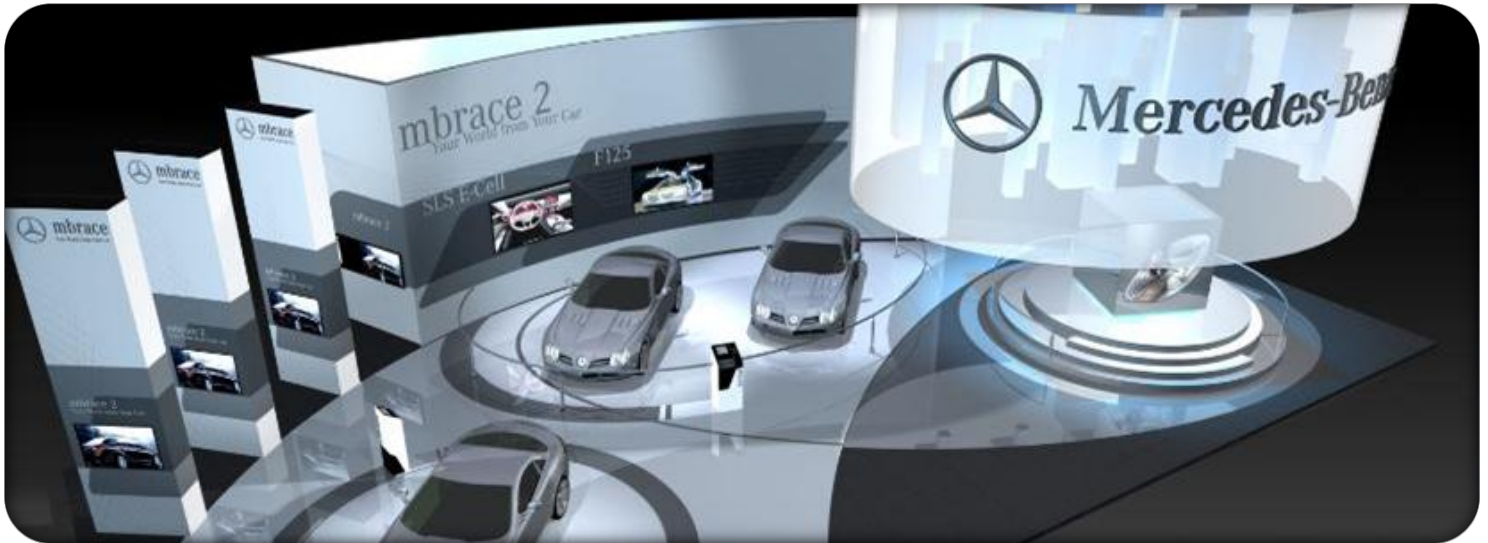
Mercedes showcased its next generation telematics service at CES; Mbrace2. This system is powered by Hughes Telematics and was developed to work seamlessly inside and outside the vehicle. It offers a revamped control module with two all-new categories of services: internet and remote access capabilities.

It also includes a solution to remotely update all software modules via cloud networks so Mbrace2 users always have the latest technology in their vehicles and at their fingertips. New services were added to the Mbrace smartphone application, which is compatible with both iPhone and Android smartphones. This system will be launched in 2012 with the MY13 SL-Class in the spring and will be standard in most MY13 passenger vehicles.

Mbrace2 features 3G network connectivity and enhanced integration with other vehicle networks. The new internet-based service called 'Mercedes-Benz Apps' includes features such as Facebook, Google and general browsing. New remote access capabilities include geo-fences, diagnostics, curfew, driving journal, and speed alerts. All software can be remotely updated 'over the air', making sure customer have the most up to date version of the software for life.

Mbrace2 offers more than 60 features in the categories of safety & security, navigation & destination planning and convenience. These services can be accessed from within the vehicle, smartphone or PC.

In addition to Mbrace2 and the associated smartphone app, Mercedes also announced at CES its latest suite of advanced driver assistance systems as well as the DriveStyle iPhone App. The former is the most comprehensive active safety system which keeps drivers safe by preventing accidents before they happen. The iPhone app, which will be launched later this year, allows drivers to interact with the vehicle rather than the phone which minimises driver distraction. This technology will be included in the new C350 Coupe.

Source: Mercedes-Benz

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Continental has won a GENIVI head unit contract from a European OEM

In October 2014, Continental will begin series production of an internet-capable multimedia head unit for the entire product range of a European automotive manufacturer. By 2018, Continental expects to reach a high volume production.

The multimedia head unit is based on the Linux open source operating system and complies with the GENIVI standard. Various versions of the head unit will be produced; basic versions for compact vehicles and units with added functions for mid-range and luxury vehicles, thus covering all the brands in an automotive manufacturer's portfolio.

In addition to radio, audio management, 3D navigation and connectivity, the basic functions of the multimedia head unit will also include an internet browser and access to internet services such as weather forecasts and traffic information. Drivers can also download new services and updates from a specific package in the form of apps – which third party developers will be allowed to provide through a specialised software development kit. This allows customers to enjoy the latest infotainment features throughout the lifecycle of their vehicles.

The head unit will provide touch screen, handwriting recognition and voice control interfaces; Continental's AutoLinQ Concept already contains these elements. The head unit will also provide the capability to control in-car functions such as air conditioning and sun-roof. It will include Bluetooth, USB and WLAN to make the process of connecting to the car as simple as possible.

Source: Continental

Bosch SoftTec to create automotive apps and cloud connected solutions

Bosch SoftTec GmbH was formed in July 2011. It is a wholly owned subsidiary of Bosch Car Multimedia GmbH with a special focus on software development in the Connected Car Segment. Bosch SoftTec profits from more than 25 years of experience in the field of automotive software development. As an independent company with flat hierarchies, Bosch SoftTec is able to meet the market requirements extremely quickly and flexibly with innovative product solutions for its customers including both OEMs and tier 1 suppliers as well.

Bosch SoftTec offers product solutions in the areas of Embedded, Cloud and Smartphone. This includes a navigation module with a map engine, which is integrated into the corresponding customer system environment with an SDK (Software Development Kit).
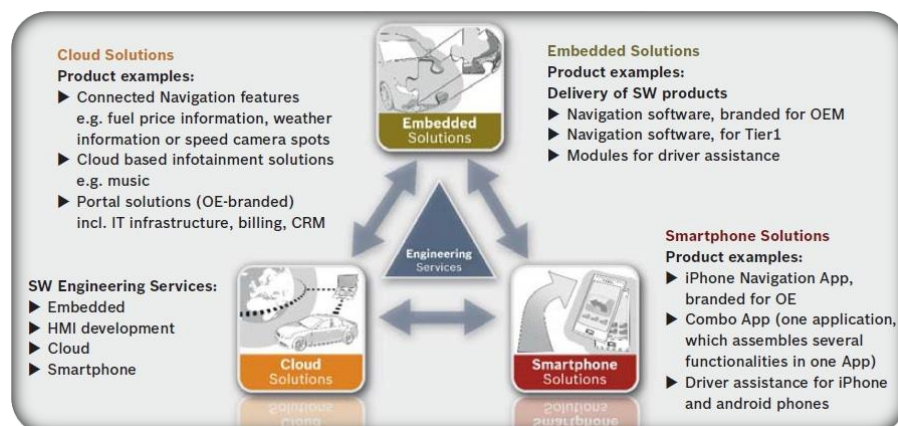
In other words, Bosch navigation is now available as a navigation module for system that have not been originally provided by Bosch.

Portal solutions are offered with or without billing and CRM. In addition, Bosch SoftTec offers telematics services, content and apps for mobile as well as for embedded devices.

Source: Bosch

US: OnStar announces ATOMS cloud API for 3rd party app integration

OnStar will give selected developers access to a proprietary application programme interface (API) to create innovative mobile applications designed to interact with OnStar's suite of services. OnStar services are enabled by its Advanced Telematics Operating Management System. ATOMS is the most powerful automotive cloud platform in the market today – connecting to more than 6 million OnStar customers. Apps created using the API will deliver services and functionality in the same manner. Safe access to the Atoms Cloud Platform is part of the 2012 growth initiative announced by Onstar.
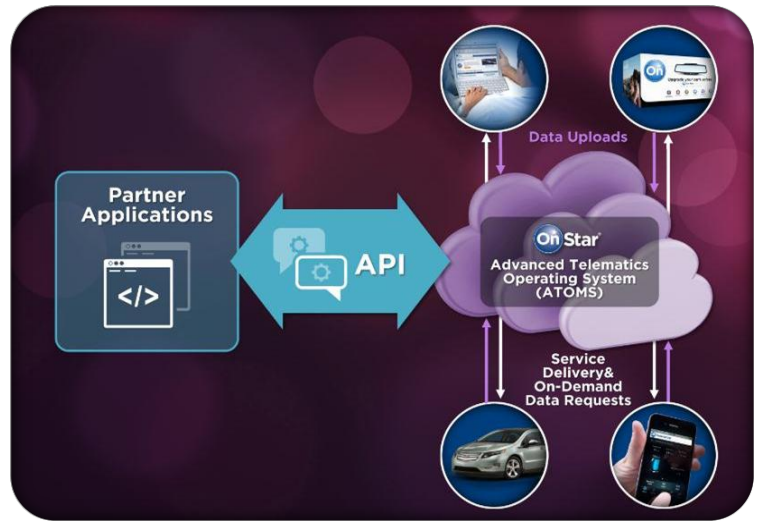
Internal research of OnStar's Customer base revealed that emergency and security services are most important to customers followed by navigation, vehicle information and diagnostics. OnStar will continue to develop and expand services in these areas, but the API could to lead to a further customised experience for many customers.

The first partner to use OnStar's API will be RelayRides; the world's first peer-to-peer (P2P) car sharing marketplace which holds an executive partnership with GM. With RelayRides, millions of GM vehicles will soon be able to leverage OnStar to rent out their idle cars with the owner controlling the rates and availability of the car. By using the OnStar API, RelayRides will allow its renters to use remote features with their smartphones, such as unlocking GM vehicles to access the reserved car. OnStar will make its closed API available in the first half of 2012.

Source: GM

China: Chery & SK Telecom to work together on telematics tech

Chery has recently announced that they will cooperate with Korean mobile phone service provider SK Telecom to boost their competitiveness in the vehicle networking technology.

Chery marked the occasion with a plaque unveiling ceremony at its Central Research Institute, during which representatives from the manufacturer boasted that both parties will do their best to make the concept of Mobile in Vehicle, or MIV, telematics technology a reality.

The MIV service is expected to enable drivers to use their mobile phones to check driving performance and control various vehicle components.

Source: Beijing News, Gasgoo.com

India: HARMAN shows entry-level system with smartphone integration

Harman has introduced a platform for the entry level infotainment market targeting two-wheeler and four-wheeler applications.

This project is led by teams at Harman's India Development Centre, together with Harman's global R&D and innovation resources. The new platform was created using a modular, scalable approach, cutting the typical development time in half.

Using this platform, the car OEM can offer functionalities traditionally reserved for high-end infotainment system, such as turn by turn navigation, internet radio, Harman's AHA Radio and access to many more applications to the user in a highly cost-effective manner.

Source: HARMAN

CES: TeleNav announces new solutions with Ford and Sony

At CES, Telenav has launched Scout, a daily personal navigator that will be seamlessly accessible across the web, smartphones, and in-car systems – offering users an easy and consistent discovery and navigation experience no matter where they are. Scout is available immediately on iPhones via the Apple App Store and at www.scout.me. Scout will also be available in cars later this year.

Scout for Cars gives drivers access to the entire Scout personalized navigation and search service using in-car features and controls. Users simply connect their Scout-equipped phone to a compatible vehicle for an experience similar to a built-in navigation system, but without the high price tag, frustration of re-entering information, or expense of upgrading maps and points-of-interest (POIs).

Scout for Cars will be formatted and displayed on the car's centre stack screen to provide drivers with turn-by-turn directions and voice guidance channelled through the car's speakers. Depending on individual automotive OEM specifications, Scout for Cars can range from full-colour moving maps to basic navigation prompts.

The first implementation of Scout for Cars will be with Ford. Telenav and Ford announced the upcoming launch of Scout for Ford SYNC AppLink. Scout for Ford SYNC AppLink will include turn-by-turn navigation capabilities and is expected to be available in the U.S. later this year.

Source: Telenav

CES: EB and INRIX team up to develop next-gen navigation software
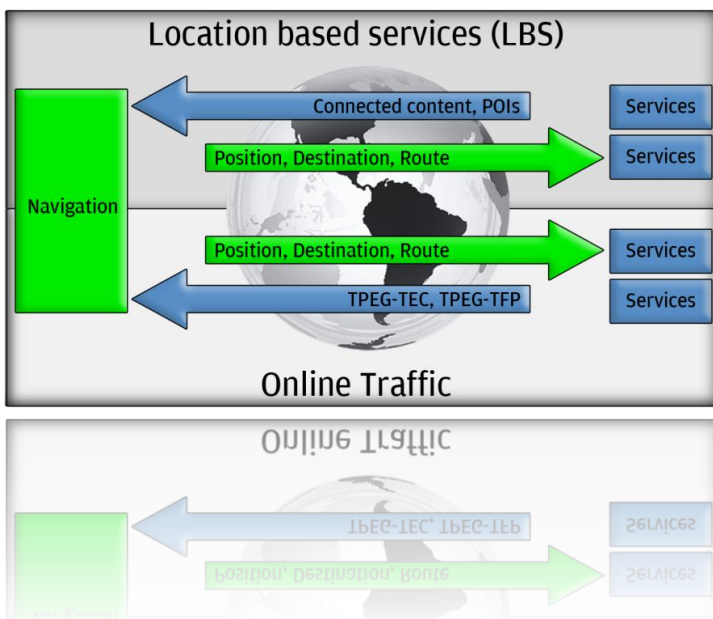
EB (Elektrobit) is developing next-generation navigation systems with a variety of new driver-assistance features.

With real-time traffic data from INRIX, EB street director enables innovative 3-D map displays; speed alerts and speed-limit assistance and traffic-jam information. An upcoming release for EB street director will include an ADAS horizon, enabling applications like real-time accident warnings.

Consumer benefits made possible by EB and INRIX navigation technology include route optimization that considers traffic flow, weather conditions, construction projects and accidents, as well as information about fuel prices and station locations, including charging stations for electric vehicles and diesel-fuel availability.

EB street director supports multiple providers of map-data content to cover world navigation. A new dynamic POI interface feature allows consumers to add, change, or remove POIs while navigation is running and introduce new POI types and icons at runtime. In addition, multiple services can connect to EB street director dynamic POI interface in parallel.

Source: EB (ElektroBit)

UK Ministers to discuss navigation map updates for vehicles

Norman Baker, Local Transport Minister, will host the government's first 'Satnav Summit' to thrash out solutions to end the misery caused when lorry and car drivers follow out of date directions from their satnavs. The minister wants highway authorities, mapping providers and satnav manufacturers to work more closely to ensure everything possible is done to make sure the right vehicles are on the right roads.

At present, it can take months for map updates to make their way from local councils to satnavs. As a result, thousands of drives follow out-of-date maps. Furthermore, some motorists do not update their satnav maps, either because they forget or are not aware that they can.

The summit will take place in early March, a month before local authorities gain important new powers to decide how their roads appear on maps – helping them to better direct traffic. It will be attended by the Association of Directors of Environment, Economy, Planning and Transportation (ADEPT) which represents councils in transport and ITS (UK) which promotes intelligent transport technology and whose membership includes satnav companies.

Source: DOT UK

India: NAVTEQ launches real-time traffic service

NAVTEQ has launched its NAVTEQ Traffic Pro real time traffic service in India, delivering comprehensive, real time traffic information to more than 26 million people in the country's two largest cities by population; Delhi and Mumbai.

Research shows drivers in India who use traffic enabled navigation on a regular basis can spend 18% less time in congestion over those who do not; this is the equivalent of almost three days saved on the road each year.

In addition, the findings show that drivers with real time traffic experience reductions in distance travelled as well as an increased fuel efficiency which could lead to a decrease of 23% in CO2 emissions per driver.

Source: NAVTEQ

US: Garmin launches Digital Traffic service over HD Radio with NAVTEQ

NAVTEQ has announced the delivery of NAVTEQ Traffic over HD Radio used to power the launch of Garmin Digital Traffic. NAVTEQ can now deliver traffic updates approximately every 30 seconds over 270,000 miles of the HD Radio broadcasting system across the United States.

The ultra rich transmission is 4 to 10 times faster than other traffic services, making this the world's most extensive and fastest traffic service available for consumers. The enabled technology is given that NAVTEQ Traffic is now transmitted over a wider radio frequency spectrum broadcasted over 3,400 HD Radio Towers.

NAVTEQ Traffic over HD Radio is included with the Garmin nuvi 3490LMT, and is also compatible with other selected nuvi devices via the Garmin GTM 60 adapter (sold separately).

Source: NAVTEQ

JVC Kenwood intros App Link Mode & Smart Remote features

JVC Mobile Entertainment has introduced 'App Link Mode'; an update to its previous 'External Mode' which offers enhanced smartphone integration features. In App Link Mode, the head unit provides control similar to the iPod/iPhone, offering simultaneous playback and display of App data on the receiver's screen. App Link Mode is included in four new multimedia units.

Compatible third party applications
- MotionX GPS-Drive
- MOG
- INRIX Traffic
- Cobra iRadar
- Tune In Radio
- SonicMax Pro for JVC (Powered by BBE)
- DriveMate Rec
- Pandora Internet Radio

In addition to compatible third party applications, JVC has also launched its Smart Remote app for Android phones. It allows for remote control of compatible JVC receivers with finger gestures. The application displays the head unit's source information and lets the user control by gesture without looking at the smartphone screen. The application works by using simple swipe commands on the smartphone to control key head unit features while providing song data and source display on the smartphone's screen. The application is available on the Android Market for free download.

The new JVC Original Application contains two new features for in-car issue. The 'Drive Data' button records and saves driving session routes that can be later recalled on the iPhone and the 'Here I Am' button allows emails with map data to be sent quickly and easily.

Source: JVC

LUXGEN5 Sedan features 'HTC Mode' Android phone screen duplication

LUXGEN has partnered with HTC to develop the unique THINK+ Touch infotainment System. LUXGEN will become the first car maker to adopt the Android system for the onboard platform. When and HTC smartphone is connected to the THINK+ Touch system, all phone calls will then be controlled directly through the 9" smart touch screen on the central console. The system also facilitates access to Facebook, e-mail and looking up local sites through the touch screen.

In addition to using the touch screen, the system also has shortcut buttons under the screen for convenience. However, the most innovative feature is the access method to the NAVI GPS navigation function while using HTC mode. The user can check maps and set routes using the handset and the hands-free Bluetooth system means users can also make calls using the car's convenient interface.

Source: LUXGEN

Smartphone and apps

EU: Nokia MirrorLink app available for download but users must pay €20!

Nokia has made its Nokia Car Mode app available for download on the Nokia Store. It is currently only available for Nokia Belle devices but will be available for the N9 as well. Nokia Car Mode is an app which provides an optimised user interface (UI) for in-car usage. It provides direct access to key applications such as Nokia Drive (navigation) and music player. There are two versions of this app.

Nokia Car Mode	Nokia Car Mode with MirrorLink
This app offers turn by turn navigation (Nokia Drive), traffic updates, Nokia Music and voice calls while driving, as well as the overall smartphone integration into the car environment.	In addition to the functionalities of Nokia Car Mode, this app gives MirrorLink support which provides seamless connectivity of the smartphone within the car at a cost of £17.99 (€19.99).

CES: Sony announces MirrorLink capable infotainment systems

At CES, Sony introduced a range of in-dash infotainment systems. The new XAV-701HD and XAV-601BT in-dash A/V receivers feature high quality WVGA panel displays with full touch screen capability and universal smartphone connectivity which enables users to control music and apps on their compatible smartphones. Sony plans for the A/V receivers to undergo MirrorLink testing and certification.

MirrorLink is a technology standard developed by the Car Connectivity Consortium that enables streaming of compatible smartphone screen content to in-dash receivers; facilitating control of applications and music on the receiver's touch screen.

The new models also feature Passenger App Control, which allows connection of an iPhone or iPod via USB to project video and compatible applications onto the screen of the receiver. In addition, the receivers support projection and control of GPS by Telenav, a leading navigation application available from the App Store on iTunes.

For map guidance without a smartphone, an optional TomTom navigation system with external GPS unit upgrade is available on the receiver, providing access to pre-loaded maps of the US and Canada.

Source: Sony

Smartphone and apps

CES: Ford announces support for a range of new apps for AppLink

NPR NEWS APP

Ford and NPR have teamed up to adapt the NPR News app for SYNC AppLink, building on NPR's reputation as a leading news source and digital innovator and the strength of its network of local NPR member stations that 34 million people rely on nationwide in the US.

The SYNC AppLink-enabled NPR News app lets Ford Drivers listen to their favourite public radio programmes and stations on their own schedule while on the road. Users can create playlists of stories and programmes to listen to later or select from topics and then call them up with simple voice commands.

SYNC DESTINATIONS (UPDATE)

Ford Motor Company is launching the next version of SYNC Destinations; its free mobile app for SYNC Services users. This app will give Ford vehicle owners the ability to easily send destinations to their vehicles using a smartphone.

Using the first version of SYNC Destinations, Ford owners had the capability to get on-the-go access to their cloud based SYNC Services account. In addition, drivers could add, save and manage destinations or Saved Points like they do using www.syncmyride.com. Locations added SYNC Destinations were easily accessible using SYNS Services in the vehicle.

SCOUT (BY TELENAV)

Ford announced that is has selected Scout by TeleNav (refer to article on page 9) as the personalised navigation service to work with Ford AppLink.

By adding voice control, Scout allows drivers to access and control a full range of functions without looking away from the road. Turn by turn navigation directions are channelled through the car's speakers along with visible cues on the Ford car's radio display.

The new version takes the experience to then next level; the app now combines with SYNC AppLink to leverage the power of smartphone's data connection to download directions into the vehicle using simple voice commands. In addition, the app link provides access to traffic/incident reports without distracting the driver from the road.

Source: Ford

Smartphone and apps   Top stories

TuneIn Radio app gets 'Car Mode' feature

TuneIn has updated its smartphone app dedicated to Android devices, adding a new feature; 'Car Mode'. With this feature, TuneIn becomes the first audio streaming service to offer users the option of listening to their favourite music, sports and news using simple voice commands into an Android based smartphone or tablet. When in car mode, the screen is transformed into an array of extra large buttons, making viewing and control of the app an easier task.
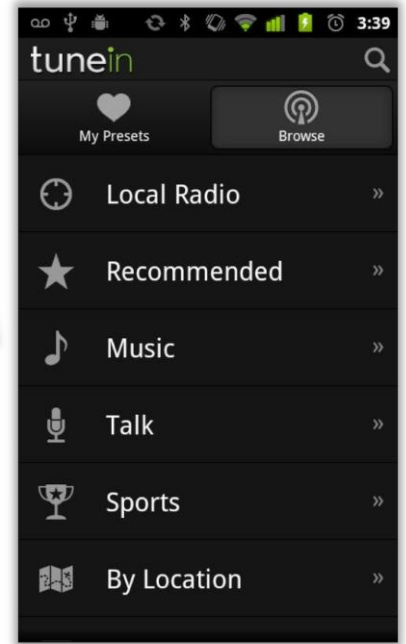
Car Mode allows users to search music files by artist, album or song name. This update also allows users to user Car Mode to search by cities or countries. Users can use commands such as 'Listen to Hawaiian music' or 'Play Adele' and the app will respond by tuning the radio station playing the requested content.

Source: TuneIn, Android Market

Airbiquity announces App Developer Program for car infotainment

Airbiquity has announced the beta version of its 'Application Developer' Programme, set for launch at the Mobile World Congress 2012, providing a full Application Development Kit (ADK) which enables smartphone application developers to creats apps that are compatible with Airbiquity's in-car Mobile Integration Solutions.

The ADK emulates a connected vehicle environment, including its sotware API, a developer version or its smartphone software, as well as access to a developer website and full documentation. These interactive tools ensure that developers can create and test fully functioning smartphone applications for use in vehicles.

The programme will initially support Android based devices with iOS support to follow afterwards. Brands that recently signed up for the beta programme include Glympse, BestParking who joined previously announced brands such as MOG and Slacker Radio as well as other major music, navigation and information applications which are yet to be named.

Once an application is certified for use in a vehicle, automotive manufacturers will be able to safely adapt it in the vehicle so that it does not interfere with driving tasks. The ADK is available for free to the developer community.

Source: Airbiquity

ADAS, Connectivity & more | Top stories

Delphi developing non-contact wireless in-vehicle device charging

Delphi Automotive has displayed its under development Wireless Device Charging System at the Consumer Electronics Show in Las Vegas. The system transmits power over distance to deliver a charge without precise position of the electronic device receiving the charge – i.e. it charges any electronic device within its range.

Delphi is currently in the testing phase of development and plans to have the system ready for production by the model year 2014. The Delphi Wireless Device Charging System makes use of the same magnetic resonance technology as the Delphi Wireless Electric Vehicle Charging System.

Electronic devices simply need to be in proximity to the power source without having to directly be touching it, which means that the system can simultaneously charge multiple devices, as opposed to traditional inductive charging systems.
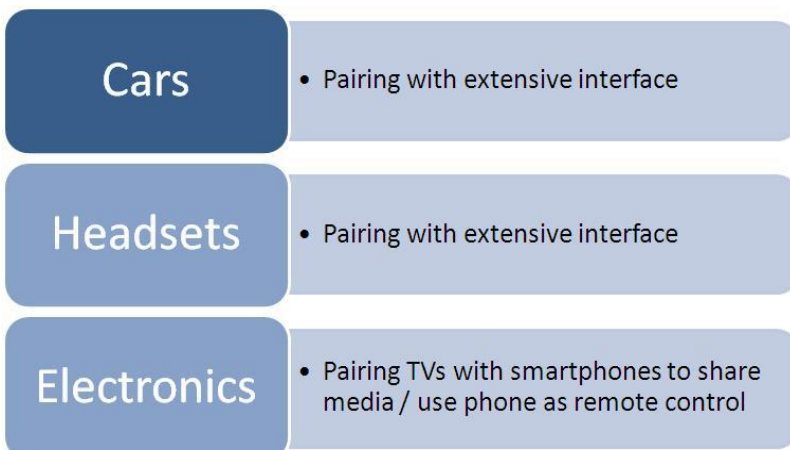
Freeing a driver from charging cords is not only convenient but it actually creates a safer environment for the driver and passengers. This system will give a competitive advantage to OEMs who choose to offer it as an option in their future vehicles.

Source: Delphi

NFC Forum releases details on using NFC for Bluetooth pairing

The NFC Forum and the Bluetooth Special Interest Group (SIG) have announced the publication of Bluetooth Secure Simpler Pairing Using NFC.

This document provides developers with examples – like the ones in the figure below, of how to implement Bluetooth Secure Simple Pairing (SSP using NFC to take maximum advantage of both technologies when they are present in the same device.

Cars
• Pairing with extensive interface

Headsets
• Pairing with extensive interface

Electronics
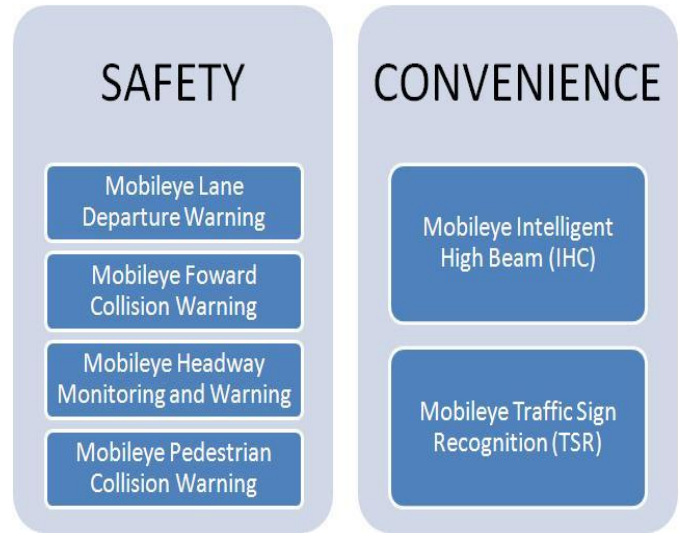• Pairing TVs with smartphones to share media / use phone as remote control

Bluetooth Secure Simple Pairing Using NFC describes the interaction of Bluetooth technology and NFC during SSP in detail and provides examples of both negotiated and static handover in the most feasible use cases involving both technologies.

Source: NFC Forum

US: Mobileye intros smartphone connected driver assistance (ADAS) technology

Mobileye has launched its next gen driver assistance aftermarket systems. Mobileye 5 Series that can connect to the driver's smartphone to provide real time warnings. The Mobileye systems include a smart camera and proprietary algorithms and microprocessor work together to detect and alert drivers to unintended lane departures, imminent collisions, pedestrians and other dangers on the road. It also has the ability to read speed limit signs, intelligently controls hi beams and alerts drivers of the most common form of accidents – rear end collisions. The system uses precise calculations to provide the driver with information to ensure a safer and more convenient driving experience.

SAFETY

- Mobileye Lane Departure Warning
- Mobileye Foward Collision Warning
- Mobileye Headway Monitoring and Warning
- Mobileye Pedestrian Collision Warning

CONVENIENCE

- Mobileye Intelligent High Beam (IHC)
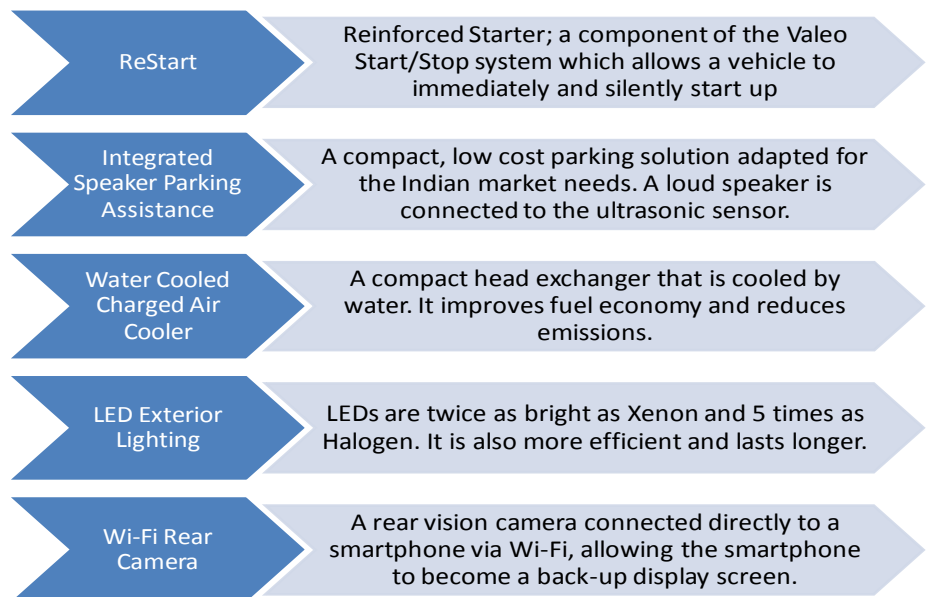- Mobileye Traffic Sign Recognition (TSR)

The new series will include Bluetooth capabilities which will allow for Mobileye 5 Series to work in tandem with the driver's smartphone providing them with visual alerts for critical conditions on the road. In addition, Mobileye Smartphone Applications provides users with the ability to constantly benefit from upgrades and enhancements, including statistic related to the driver experience.

Source: Mobileye

Valeo Exhibits Innovations at Auto Expo Trade Show - Delhi

For the first time, Valeo exhibed its innovative systems at the 2012 Auto Expo trade show in Delhi. The company displayed its innovative CO2 reduction and driving assistance innovations. The most impressive innovations were ReStart, Integrated Speaker Control for Parking Assistance, Water Cooled Charged Air Cooler and LED Exterior Lighting Design as well as a Wi-Fi Rear Camera which was shown in public for the first time.

Source: Valeo

ReStart	Reinforced Starter; a component of the Valeo Start/Stop system which allows a vehicle to immediately and silently start up
Integrated Speaker Parking Assistance	A compact, low cost parking solution adapted for the Indian market needs. A loud speaker is connected to the ultrasonic sensor.
Water Cooled Charged Air Cooler	A compact head exchanger that is cooled by water. It improves fuel economy and reduces emissions.
LED Exterior Lighting	LEDs are twice as bright as Xenon and 5 times as Halogen. It is also more efficient and lasts longer.
Wi-Fi Rear Camera	A rear vision camera connected directly to a smartphone via Wi-Fi, allowing the smartphone to become a back-up display screen.

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Volvo SARTRE project (autonomous driving) enters final phase

Volvo, the only vehicle manufacturer participant in the SARTRE project (Safe Road Trains for the Environment) has successfully completed the first test demonstration of a multiple car platoon. The test fleet included a lead truck followed by three cars driven autonomously at high speeds with very small gaps between the vehicles.

The project is being driven by seven European partners and is the only one of its kind to focus on the development of technology that can be implemented on conventional highways in which platooned traffic operates in a mixed environment with other road users.

The main advantage of road trains is that the car driver has time over to do other things. Road trains promote safer transport since the vehicle platoons are led by a professional driver and inter-vehicle reaction response times are much quicker. Environmental impact is reduced since the cars follow close behind each other and benefit from the lower air drag. The energy saving is expected to be in the region of 20%. Road capacity will also be able to be utilised more efficiently.

Source: Volvo

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	Mobile World Congress More info: http://www.mobileworldcongress.com/be-a-part	Barcelona, Spain	27 February - 01 March 2012
	CeBIT 2012 More info: http://www.cebit.de/7590	Hannover, Germany	06-10 March 2012
	Geneva Motor Show More info: http://www.salon-auto.ch/	Geneva, Switzerland	8-18 March 2012

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