

Technology

Enjoy unique drive with CTS-V, the most powerful Cadillac ever

All V models now come with optional Carbon Black Sport Package



KUWAIT: Engineered with high performance and everyday usability, the Cadillac 2017 CTS-V. Built with precise craftsmanship and ingenious technology the new 2017 model delivers outstanding performance and track capabilities.

Almost every exterior panel on the Cadillac CTS-V is unique, from the fascia and front fender, to the hood, rear spoiler and rocker molding - and every one was designed to support the car's capability, contributing to lift reduction, enhanced cooling, and improved aero management. The various elements give the sporty line-up an athletic stance, wide body and low height. The 2017 CTS-V provides a more confident feel through the greater aerodynamic performance created by the carbon fiber packages, hood vent and rear dif-

fuser. Furthermore, the Brembo brake system was developed to give the driver durability, consistency and the capability to experience a track-day feel straight from the factory.

The CTS-V dual-purpose capabilities carry over on to its interior, where the design and relationship of key components are focused on performance-driving ergonomics. Handcrafted cut-and-sew elements, decorative stitching and authentic materials all make up the luxury interiors. In addition, the vehicle features technology upgrade for a boosted and more connected ride. The 2017 CTS-V comprehensive collection of technologies includes Apple CarPlay advanced smartphone integration, so the driver can stay connected whilst on the move. CTS-V also comes with a Bose Surround Sound sys-

tem with 13 Speakers providing the ultimate listening experience. The vehicle boasts upgrades in safety and parking assist technology helping drivers spend more time with their eyes on the road and hands on the wheel.

The 2017 Cadillac CTS-V is powered by a supercharged 6.2L V-8 engine SAE certified at 640 horsepower (477 kW) and 630 lb-ft of torque (855 Nm). The new CTS-V is capable of 0-100 performance in 3.7 seconds and a top speed of 320km/h. Cadillac has been a leading luxury auto brand since 1902. Today Cadillac is growing globally, driven by an expanding product portfolio featuring dramatic design and technology. Described as luxurious, having a bold and daring personality, being tough and strong as well as safe and pow-

erful, Cadillac has maintained an iconic presence for over 85 years in the Middle East.

Premium care program

Yusuf Ahmed Alghanim & Sons Automotive furthers Cadillac's superiority by showcasing the company's commitment to enhance customers' unique Cadillac experience by offering customers peace of mind with a comprehensive insurance program. In addition, all Cadillac owners will enjoy service and maintenance for 4 years or 100,000 km, warranty for 4 years or 100,000 km, 24-hour roadside assistance anywhere in the Middle East for 4 years (unlimited mileage) plus a courtesy transportation and a replacement vehicle upon availability.



In this frame from NASA TV, Astronauts Mark Vande Hei and Randy Bresnik, right, emerge from the International Space Station yesterday. The astronauts went out on a spacewalk to grease the robot arm's new hand. — AP

Astronauts go spacewalking to grease robot arm's new hand

CAPE CANAVERAL, Fla: NASA astronauts took another spacewalk outside the International Space Station yesterday, this time to grease the robot arm's new hand.

Commander Randy Bresnik ventured out for the second time in less than a week, along with Mark Vande Hei. The pair replaced the latching mechanism on one end of the 58-foot robot arm last Thursday. The mechanism malfunctioned in August.

Yesterday's work involved using a grease gun, which resembles a caulking gun, to keep the latching mechanism working smoothly. The two-part lube job is expected to spill into next week, in a third spacewalk.

These latches, or hands, are located on each end of the Canadian-built robot arm. They're used to grab arriving US cargo ships and also allow the robot arm to move around the orbiting lab.

Launched in 2001 with the rest of the robot arm, the original latches were showing their age. NASA plans to replace the latching mechanism on the opposite end of the arm early next year.

"I have a little bit of adrenaline going on right now," Vande Hei said as he got to work more than 250 miles above Rio de Janeiro. "That view is amazing." Six men live at the orbiting lab: three Americans, two Russians and one Italian. As the space station approached Italy, Mission Control urged the spacewalkers to take some photos for their crewmate, Paolo Nespoli. — AP

ICT govt and industry leaders gather to discuss ME's digital maturity at Huawei event

KUWAIT: Leading government and subject matter experts gathered in Dubai on Oct. 8 to address prescient regional issues on digital transformation at Huawei's second annual Middle East Innovation Day. Held concurrently to the opening day of GITEX 2017, the leading global ICT solutions provider's Middle East edition of the global event was themed "Exploration, Lights the Way Forward", and hosted a high-profile panel of international and regional government and industry representatives.

Keynote speakers for the event were Ugo Valenti, CEO of Smart City Expo World Congress, Dr. Mohammed A Al Amer, Chairman of the Telecommunications Regulatory Authority Bahrain, Edward Zhou, Vice President of Global Affairs, Huawei Technologies, and Spacelee /Li Xiangyu, Vice President of Public Affairs and Communications, Huawei Middle East.

Dr Al Amer addressed the duty of governments in the region to work to create an environment that enables the digital economy to grow and flourish, identifying the need to foster digital education, enact the proper regulatory framework, and in unifying the concepts of IT and ICT. Other keynotes explored themes such as the importance of the rise in urbanization to the digital project, the importance of industrial digitization and open collaboration, and the state of digital development in the GCC.

Highlight

A key highlight of the event was the launch of an insightful new research report titled, "National Transformation in the Middle East - A Digital Journey."

The joint Huawei-Deloitte white paper assesses the digital transformation initiatives being undertaken by government entities in the GCC region in the context of global trends.

The panel discussion, entitled "ICT Innovation Drives the Middle East region Future" included Jawad Jalal Abbassi, Head of MENA Government and Regulatory Affairs, GSMA; David Garcia-Torre, Director of IoT, Etisalat; Engineer Ahmed Kajoor, IT Director Dubai Municipality; Lloyd Gazzett, Vice President - Business Technology Customer Success, Dubai Airports; Valenti of Smart City Expo World Congress; and Alaa ElShimi, Managing Director and Vice President, Huawei Middle East. The discussion was moderated by Joe Kelly, Vice

President of International Media Affairs for Huawei. Their discussion focused on role of ICT innovations in supporting the development of key sectors and industries, openness and perseverance in driving digital transformation and building sustainable knowledge-based economies in the region. The panel also addressed some of the continued challenges and best practices from across the world to address them.

The panelists explored a variety of topics such as the necessity to keep pace with technological innovation, how to integrate ICT further into pedagogical practices, and the need to integrate data sharing techniques across sectors and industries. They discussed the technological as well as regulatory challenges, identifying solutions and expressing an exciting and hopeful vision for the future of digital transformation in the region. "The 21st Century is fast becoming the century of cities. The growing universality of the cloud, AI and blockchain are nothing short of a revolution in the way we live. This transformation is allowing us to build smart cities, but to truly reach our potential we have to empower cities to be as sustainable, mobile, safe and healthy as possible," said Ugo Valenti of Smart City Expo World Congress.

"Mobile is already playing a significant role in driving efficiencies, productivity and economic growth across the Middle East and North Africa region, contributing to employment as well as innovation," commented Jawad Abbassi, Head of MENA, GSMA. "However, it is crucial that governments put the right regulatory frameworks in place to encourage competition, investment and innovation so that everyone can benefit from the digital age."

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The panel of the Huawei Innovation Day

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Report on Mideast digital journey Released

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"ICT innovation is at the heart of Dubai Municipality's mission to build the most advanced, sustainable city in the world. Developing a smart, integrated IT infrastructure depends on experimentation and exploration, which

in turn depends on building effective partnerships," said Ahmed Kajoor, IT Director at Dubai Municipality. "Our pioneer-ship benefits from the excellent work being done by partners like Huawei and Deloitte, with their work contributing to our understanding of how best to continue building Dubai as a safe, happy, sustainable and competitive city of the future. Both Dubai Municipality and the Dubai government will benefit from the excellent work being done."

Diverse

"It has been fantastic to gather such a diverse and knowledgeable group of experts and leaders to discuss the key issues and challenges of digital transformation in the region. The Middle East is a historic center of exploration and innovation, and we are incredibly excited to leverage this heritage and tackle the challenges faced in order to realize the full spectrum of digital realities here," said Spacelee /Li Xiangyu of Huawei Middle East. "Huawei remains committed to driving the digital ecosystems, and to continue to push for active and open collaboration with local partners in order to serve the region's national visions and deliver on the promise of digital transformation."

Huawei ME Innovation Day is part of a global initiative to address pioneering issues in the world of ICT. The Middle East version continues to be an industry communications platform, accelerate the digitization process and position the Middle East as leading hub of global exploration.



Edward Zhou

NVIDIA unveils next-generation platform for fully autonomous cars

LONDON: Silicon Valley graphics chipmaker NVIDIA unveiled yesterday the first computer chips for developing fully autonomous vehicles and said it had more than 25 customers working to build a new class of driverless cars, robotaxis and long-haul trucks.

Deutsche Post DHL Group, the world's largest mail and

logistics company, and ZF, a top automotive parts supplier, plan to deploy a fleet of autonomous delivery trucks based on the new chips, starting in 2019, NVIDIA said. The third generation of NVIDIA's Drive PX automotive line, code-named Pegasus, is a multi-chip platform the size of a car license plates with datacenter-class processing power.

Pegasus can handle 320 trillion operations per second, representing roughly a 13-fold increase over the calculating power of the current PX 2 line. A single NVIDIA Xavier-class processor can be used for level 3 semi-autonomous driving, while a combination of multiple mobile and graphics processors would run level 5 full-scale driverless cars, the company said.

A level 5 vehicle is capable of navigating roads without any driver input and in its purest form would have no steering wheel or brakes. A level 3 car still needs a steering wheel and a driver who can take over if the car encounters a problem, while level 4 promises driverless

features in dedicated lanes. This dramatic improvement is a pre-condition for developing and testing future autonomous cars, experts said.

Shares of Nvidia were indicated 3.8 percent higher in pre-market US trading at \$192.37. The high-flying stock has gained 80 percent this year. "NVIDIA is one step ahead. But you can be sure you can expect (rival chip-makers) Intel, NXP and Renesas not to be too far behind," said Luca De Ambroggi, principal automotive electronics analyst with industry market research firm IHS Markit.

US computer chip giant Intel and its Mobileye automotive unit are working with German carmaker BMW and US auto supplier Delphi on their own autonomous driving platform due out in 2021.

NXP has agreed to be acquired by Qualcomm to form the world's largest auto electronics supplier. Japanese chipmaker Renesas is a has a strong presence in micro-controllers used to run key car functions.

NVIDIA's automotive director Danny Shapiro said in an interview that many of the first 25 customers using the Pegasus platform would focus on robotaxis, which will be built without steering wheels or brakes and used only on dedicated routes. Bigger name automakers will announce vehicles running on Pegasus at their own product launches in coming months, he said.

The Pegasus line will be available by the middle of 2018 for automakers to begin developing vehicles and testing software algorithms needed to control future driverless cars, NVIDIA executives told a developers' conference in Munich yesterday.

The deal between Deutsche Post, ZF and NVIDIA will include future Deutsche Post StreetScooter delivery trucks. In Munich, the three partners are showcasing a prototype StreetScooter running NVIDIA Drive PX chips used to control sensors including six cameras, one radar and one lidar, or 3D laser camera. — Reuters