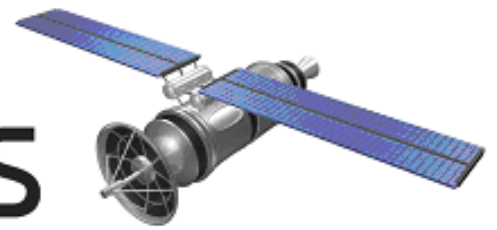# FutureHorizons
The Global Semiconductor Industry Analysts

FH MONDAY

16 May 2022

The magical Apple car is again closer to reality

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AMD's Xilinx platform enables open radios for Meta project

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Intel's Project Amber intros a service-based trust authority

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BT, Toshiba boost security for EY with quantum key distribution network

U.K. telecom provider BT and Toshiba announced what they claimed is the first trial of a commercial quantum-secured metro network, in London, the first customer on that network being multinational professional services firm EY.

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Qualcomm launches Wi-Fi 7 capable chips in bid against Broadcom

The fight is on for Wi-Fi 7 chip superiority, especially between Broadcom and Qualcomm. As with many next-generation breakthroughs involving the chip industry, consumers may not notice or care, especially with Wi-Fi 7 laptops and other products not shipping until late 2003 or early 2004.

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The magical Apple car is again closer to reality

Reports have surfaced for a decade saying Apple is working on producing an electric vehicle, likely a self-driving car, even as Apple has remained mum, officially, on any specifics on the topic.

The reportage on an Apple car picked up again recently with Apple's hiring of longtime Ford engineer Desi Ujkashevic to join the Apple Car team.   At Ford, her roles included auto safety engineering and she helped develop the Ford Escape Explorer, Fiesta and Focus with work on EVs.

A complete recap of Apple's long history of creating a car was recently regurgitated by MacRumors noting hundreds of Apple employees are working on developing a self-driving Apple-branded car for consumers.

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More than a year and a half later, Xilinx is now owned by AMD, and Facebook is part of newly-named parent organization Meta Platforms, and the project, called Evenstar, is now led by Meta Connectivity. The names have changed, but the project continues to advance, with an announcement from AMD this week that its Xilinx Zynq UltraScale+ RF system-on-a-chip platform has enabled the development of multiple Evenstar radio units (RUs) to expand 4G/5G network infrastructure options with new RAN reference design options.

Intel's Project Amber intros a service-based trust authority

Intel on Wednesday unveiled an independent trust authority in the form of a service, code-named Project Amber, to assist with growing security needs of organizations.

Project Amber will provide companies with remote verification of the trustworthiness of a compute asset in the cloud or at the edge and in on-premise locations. It will operate as a service independent of the infrastructure provider hosting confidential work.

Intel said it is working with software vendors to enable trust services that include Project Amber. At first, Project Amber intends to support confidential compute workloads as bare metal containers, virtual machines and containers running in virtual machines using Intel trusted execution environments.

BT, Toshiba boost security for EY with quantum key distribution network

U.K. telecom provider BT and Toshiba announced what they claimed is the first trial of a commercial quantum-secured metro network, in London, the first customer on that network being multinational professional services firm EY.

The network uses quantum key distribution (QKD) technology, designed to protect fiber network links from the threat of cybersecurity attacks, particularly those employing quantum computers. EY, the first announced commercial customer to use QKD to secure live data transmission between its own sites, is using the network to connect two offices in London, one in the Canary Wharf area and the other in London Bridge. Its involvement is a major sign that quantum-secure communications for corporate customers are getting much closer to reality.

Qualcomm launches Wi-Fi 7 capable chips in bid against Broadcom

The fight is on for Wi-Fi 7 chip superiority, especially between Broadcom and Qualcomm. As with many next-generation breakthroughs involving the chip industry, consumers may not notice or care, especially with Wi-Fi 7 laptops and other products not shipping until late 2003 or early 2004.

It's important to remember that the Wi-Fi 7 standard is not yet finalized. Still, chipmakers require years of research and development to prep for when the curtain finally lifts on a new standard.

For Wi-Fi 7's impact on industrial and enterprise customers who install Wi-Fi access points and routers for critical connectivity, some analysts are taking notice how Broadcom and Qualcomm, primarily, will differentiate themselves.