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Multimode base stations include macro and distributed base stations for different scenarios for fast deployment and low costs. Chinese networking giant Huawei has unveiled its 5G SingleRAN Pro, which it said combines 5G, 4G, 3G, and 2G across one network, with an automatic intelligent management system and a mobile cloud network architecture. By supporting 5G while maintaining compatibility with the previous protocol generations, Huawei said the platform ensures carriers' "current investment will not be wasted once 5G arrives". It uses a multi-Radio Access Technology baseband with a multi-band, multi-channel antenna and radio frequency unit with Massive Multiple-Input Multiple-Output (Massive MIMO). Huawei's Mobile Cloud network architecture then allows operators to use the same software for on-demand centralised base station deployment (CRAN), distributed base station deployment (DRAN), and CU-DU split deployment, while also cloudifying spectrum resources. "CloudAIR is featured to enable on-demand rapid spectrum allocation," the networking giant added, explaining that this improves spectral efficiency for carriers. Air interface capacity is also cloudified on the 5G SingleRAN Pro, enabling network slicing. Lastly, Huawei claimed its automated artificial intelligence-based wireless network management system "simplifies" network operation and maintenance. Huawei Wireless Solution chief marketing officer Dr Peter Zhou said SingleRAN Pro was developed as a result of experience gained in deploying hundreds of networks globally over the last 10 years, and will "significantly" reduce carriers' capex in rolling out 5G networks. Meanwhile, Huawei has also announced gaining the European Union certification authority's verification requirements for its C-band Massive MIMO Active Antenna Unit 5G New Radio (5G NR) products, achieving TÜV SÜD's CE-type examination certificate. "Obtaining this EU mandatory certificate indicates that Huawei's 5G products have won official approval for commercial use. It also represents a significant step towards realising large-scale commercial 5G deployment," Huawei said. "Huawei strictly followed related regulations during each step of 5G product development, from component selection to product design. After multiple rounds of meticulous assessment and inspection, Huawei's 5G products passed TÜV SÜD's verification at the first attempt, meeting all stringent CE requirements." Huawei in February also announced the launch of its first 5G customer premises equipment (CPE), a commercial terminal device supporting 3GPP 5G standards. The CPE involves a Huawei-developed Balong 5G01 chipset, which it labelled as being the world's first commercial 3GPP 5G chipset supporting download speeds of up to 2.3Gbps across sub-6GHz and millimetre-wave (mmWave) spectrum bands. "The Balong 5G01 makes Huawei the first company offering an end-to-end 5G solution through its network, devices, and chipset-level capabilities," the Chinese networking giant said during Mobile World Congress (MWC) 2018. According to Huawei Consumer Business Group CEO Richard Yu, Huawei had invested \$600 million in 5G R&D since 2009 across network architecture, spectrum, field verification, and other trials. Following the standardisation of 5G NR specs in December, Huawei – along with Ericsson, Intel, Nokia, Samsung, AT&T, BT, China Mobile, China Telecom, China Unicom, Deutsche Telekom, Fujitsu, KT Corporation, LG Electronics, LG Uplus, MediaTek, NEC Corporation, NTT DoCoMo, Orange, Qualcomm, SK Telecom, Sony Mobile Communications, Sprint, TIM, Telefonica, Telia Company, T-Mobile USA, Verizon, Vodafone, and ZTE – announced the beginning of the full-scale development of 5G NR including large-scale trials and commercial deployment. "Huawei will keep working with global partners to bring 5G into the period of large-scale global commercial deployment from 2018," president of Huawei's 5G product line Yang Chaobin said at the time. In October, Huawei and LG U+ had announced completing dual-connectivity technology verification during a 5G trial in Seoul, providing 20Gbps downlink speeds by simultaneously linking two 5G base stations; while in November, Huawei additionally demonstrated separate uplink-downlink (UL/DL) decoupling technology across a 5G-LTE network deployment in London as part of its strategic partnership with BT. Huawei has been trialling 5G with carriers worldwide, including Singaporean telcos StarHub and M1, Canadian telco Telus, British telco EE, and Australian provider Optus. Related Coverage MWC 2018: Huawei unveils first 5G customer premises equipment Huawei's commercial 5G terminal device comes in mmWave and sub-6GHz models, and supports theoretical speeds of up to 2.3Gbps. Huawei Australia CTO outlines 5G plans Huawei Australia's new CTO has told ZDNet that he will look to use his 5G knowledge and experience to form a collaborative ecosystem while pushing discussions with the federal government. Huawei Australia CEO pushing more government 5G discussions Huawei is holding increasing discussions with Australia's government, with new CEO George Huang praising the federal government 5G working group. Huawei demos 5G uplink-downlink decoupling tech Huawei has showcased its ability to improve 5G coverage, capacity, and user experience by carrying uplink data via 4G LTE bands and downlink data on 5G bands. 5G will power digital transformation (TechRepublic) Expect better throughput, coverage, and capacity says Tech Mahindra's Manish Vyas, as communication companies continue to invest billions of dollars on 5G. Report: The US will have 100 million 5G connections by 2023 (TechRepublic) 5G will aid the growth of video streaming, the internet of things, and augmented reality. Mobile device computing policy (Tech Pro Research) Mobile devices offer convenience and flexibility for the modern workforce - but they also bring associated risks and support issues. This policy establishes guidelines to help ensure safe and productive mobility. Page 2 SingleBTS effectively drives the development of the mobile network, presenting a network with concepts of "Convergence, Broadband, Green, and Evolution" and aiding operators in constructing a better future-oriented mobile network. The SingleBTS series adopt the cutting-edge modular design by combining multiple modes and using the same types of moduli for different base station models. The base stations are applicable to various installation scenarios. In addition, the three basic modules of the SingleBTS series are characterized by small size, high integration, low power consumption, and easy and fast deployment. This significantly reduces the network construction costs and OPEX of operators in terms of site acquisition, capacity expansion, and environment protection. The base stations enable the construction of a future-oriented network and smooth evolution to the Long Term Evolution (LTE) system. The innovative design and flexible combinations of the function modules and auxiliary devices result in diversify multi-mode base station products. Furthermore, operators can install modules of different modes in one cabinet to form multiple base station products adapting to different scenarios. This accelerates introduction of new frequency bands and radio technologies and effectively addresses the requirements for a multi-mode mobile network. The series, based on IP switch and multi-carrier technologies, support bandwidth of over 100 Mbps at transmission ports. This ensures the compatibility with the growing mobile data services and ensures higher data transmission rates for users. The optimized hardware and system architecture of the SingleBTS, together with the innovative technologies for the PA and power consumption management, enable operators to implement energy saving and emission reduction and to construct a green communication network through temperature control and green energy utilization. "Many MNOs employ a multi-vendor RAN strategy, not just for cost-cutting reasons, but also to avoid single-vendor lock-in; however, the latter is encouraged by Huawei through its new SingleRAN Pro solution." Huawei held its annual global analyst summit in Shenzhen, China in April 2018; it announced its 5G-oriented SingleRAN Pro solution on the eve of the summit. SingleRAN Pro is an update to the 2008 SingleRAN product launched in the early days of LTE. The telecom industry's current market situation is, however, quite different to that of 10 years ago, and the consolidation of various generations of radio access technologies (RATs) into a single platform is just one of the concerns faced by mobile network operators (MNOs). While SingleRAN Pro addresses some of the fundamental technology concerns from MNOs, such as spectral efficiency, cloud-RAN and network optimisation, it does not allay important business concerns regarding the upcoming challenges of deploying 5G in an existing multi-vendor RAN architecture environment.

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