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We have a team of dedicated and skilled analysts and reporters who make sure the latest, hottest topics, like LTE, 5G, IoT, Broadband, etc., are covered through posts on our website and in our cutting edge quarterly networking magazine, "Korea Communication Review." Netmanias has over 51,000 subscribers who are actively working in the networking industry and over 250,000 unique visitors per year.



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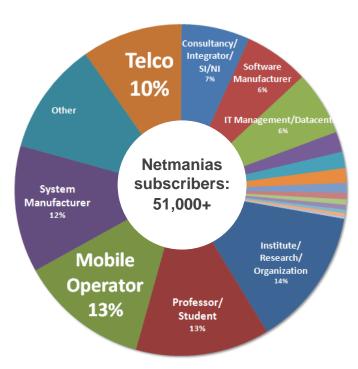


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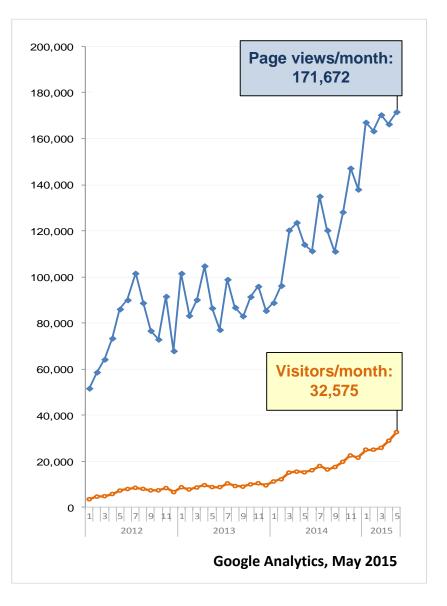


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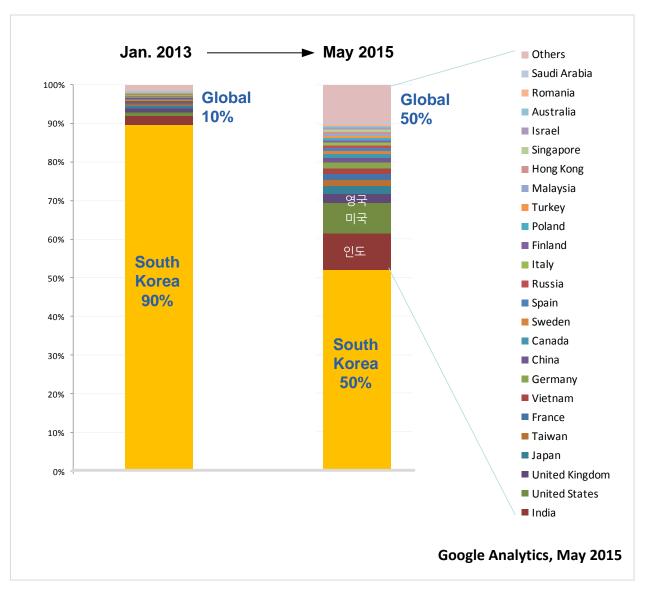
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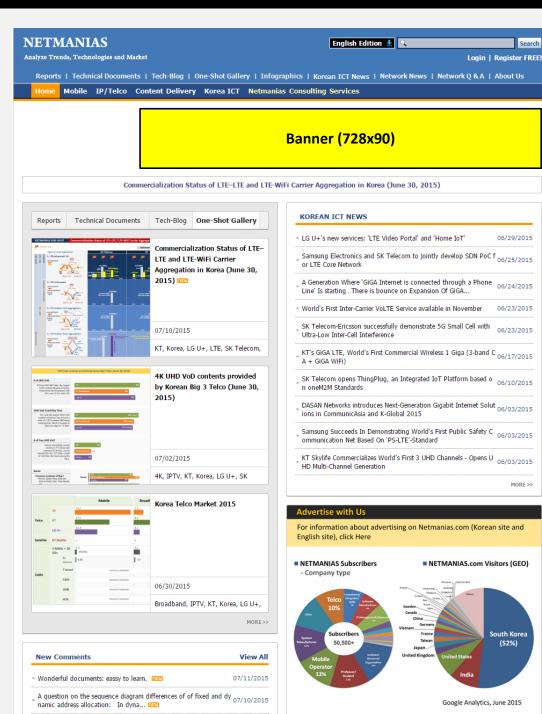


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month - 7 n GHz and an (CA) of 20 f	d demonstration of LTE in Unlicensed spectrum ("LTE- months after its first demonstration where it showed 3 iother 20 MHz at 5.8 GHz, LG U+ successfully achieved MHz at 2.6 GHz and 60 MHz (3 x 20 MHz) at 5.8 GHz. With LTE-U not even standardized yet, Korean operators are technology. LG U+ has been apparently leading the race so f Telecom and KT, who also showcased 450 Mbps LTE-U, with Samsung/Qualcomm in March, respectively. LG U+, with two currently working on commercialization of the technology.	00 Mbps through CA of 20 MHz at 2.6 d 600 Mbps through carrier aggregation already in fierce competition in the new ar, tightly followed by its competitors SK Ericsson/Qualcomm in February, and with	Share Tweet I Like Statistics Date 06/15/20 Pages Views 1,11 Downloads Statistics
	Then why are all the operators so obsessed with LTE-U demo First, let's see what is going on in the Korean communication pretty mature. As of 2015 Q1, it has i) 66% of LTE subscript accounts for 96% of its total mobile data usage, and iii) 3.4 (subscriber. The operators all have 40 MHz of LTE bandwidth (DL), and si (as of 2015 Q1). So far, they all somehow have managed to (1)-20-30-340 MHz), offering faster speeds through CA. Bi the end of the year, an auction for 700 MHz, 2.1GHz and 2.6 wideband (20MHz) frequency, the 3 operators will have to co with local over-the-air broadcasters requesting UHD channel Besides, the Korean government's policies on frequency alloc are imposing a big burden on the operators. LTE-U is a radio access technology that is designed to use 5 far, for LTE purpose as well. So, the technology will allow the supplementary band (of more than dozens of MHz) for LTE, a like licensed bands do. For the operators who are under press frequency shortage, and high costs of frequency, LTE-U cert:	n market now. Korean LTE market is already ion, ii) 120 PB of LTE data usage, which GB of monthly average data usage per LTE upport up to 300 Mbps through 3-band CA secure additional LTE frequencies gradually ut, they are about to face a harder battle. At 5GHz bands is scheduled. Especially, to get a mpete not only with each other, but also s, a possible 4th mobile operator, etc. cation and the astronomical frequency costs GHz unlicensed band, mostly used for WiFi so band to serve pretty well as a although not as a dedicated, primary band sure to deal with issues like growing traffic,	Banner (200x550)
the LTE-U d	The output power is limited to low power in the 5 GHz unlice be the first place where commercialized LTE-U will be employ building solutions are expected to be the first target of the n hance to discuss with a member of LG U+ Access Netv lemonstration last month. Below we will briefly review onstration, target areas, and commercialization plan, c	nsed band. So small cells are most likely to ved. Also, indoor/outdoor hotspots or in- ew technology deployment. work Development Team who conducted what we learned from him about their	Advertise with Us

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I TE-U demonstration

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	KT 황창규 회장이 작년 5월 20일 KT 비 <mark>전으로 기가토피아(GiGAtopia)를</mark> 제창했다. 핵심 포인트는 유무선 기가 액세스망 을 실현하겠다는 것과 이를 위해 3년간 4.5조원을 투자하겠다는 것이다. 기가토피아라는 비전을 선언한지 1년이 넘은 지 금, 그 동안 KT가 어떠한 혁신들을 이루어 냈는 지 경리해보자.	Date 07/16/2015 Views 1,015 Downloads 0 Comments 3
	무엇을 하겠다고 했나?	
	작년 5월 KT가 제시한 기가토피아: 속도전 선포 - 빠른 것은 여전히 옳다.	
	 기가 인터넷: 기존 100Mbps인 가정에 기가급 인터넷 접속 속도를 제공하겠다 · 기가 FTTH: 광케이블이나 UTP가 인입되어 있는 가구는 1Gbps, 500Mbps를 제공하겠다. · 기가 와이어: 전화선만 인입되어 있는 가구도 대략 300Mbps를 제공하겠다. · 기가 와이파이 홈: 댁내 기가급의 와이파이 속도를 제공하겠다. · 기가 LTE-A: 모바일 단말의 데이터 속도를 LTE-A기술을 통해 기존 150Mbps에서 300Mbps급으로 개선시키겠다. · 기가 패스: 모바일 단말의 데이터 속도를 와이파이와 연동시켜 기존 150Mbps에서 450Mbps로 개선시키겠다. 	Banner (200x550)
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	 ■ 유선속도 ● 무선속도 • 기가 인터넷 (GIGA FTTH, GiGA UTP, GiGA Wire): 작년 10월 국내 최초로 기가인터넷(E-PON과 Ethernet) 	

 기가 인터넷 (GIGA FTTH, GIGA UTP, GIGA Wire): 작년 10월 국내 최초로 기가인터넷(E+PON과 Ethernet Switch기반)을 상용화했다. 1Gbps와 500Mbps의 인터넷 속도를 제공한다. 서비스 개시 후, 2개월 만에 가입자 10만, 2015년 3월 가입자수 20만, 4월엔 30만을 들파했다.

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Korea Communication Review Q3 2015



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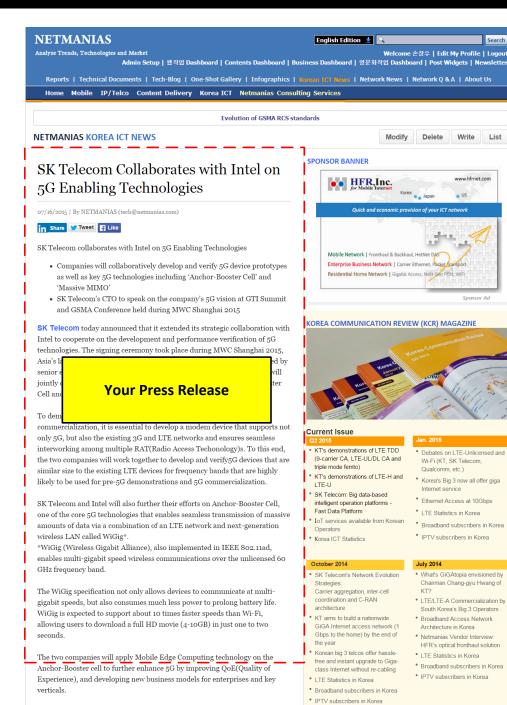
- > World's most advanced broadband wired/wireless services by Korean operators
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Currently, 5,000 copies of KCR are distributed all around the world every quarter.

47 Korea Communication Review • Q3 2015 united object outdoor cell work indoor as well, allowing its but also good capacity. In addition, installing coverage to extend indoors. process should be fast and inexpensive. To satisfy all these requirements. SK Telecom's DAS is Benefits: DAS distributes RF signals to antennas. evolving to ensure: and can deliver different Radio Access Technologies (RAT) like CDMA, WCDMA, LTE, etc., all through a Cheaper and faster installation using UTP single optic/RF cable (technology-neutral). Plus, cabling: To save costs of cabling, which often is since a single cell covers both indoors and outdoors. the No. 1 cost-increasing factor in DAS installano quality degradation is caused by inter-cell tion, economical and scalable standardized UTP interference or handover. cables are used instead of RF cables. Drawbacks: DAS has too many components · Remote management: A smart antenna unit Size is just one of its many surprises. (attenuator, donor unit, remote unit, splitter, with both antennas and RF transmission control coupler, booster, etc.), which means complicated modules is introduced. A smart antenna unit installation, longer construction period, and higher reports radio signal measurements and status construction costs. But, what is even worse is that it information, and remotely performs tasks like has poor scalability which will make it hard to configuration, status check, fault management increase capacity when needed in the future - a etc., allowing for remote optimization · Increased capacity: MIMO and CA are serious drawback in this era of soaring data traffic. Also, all antennas used in DAS require individual supported for increased capacity. MIMO requi power adjustment. Besides, if any of them fails, it is more antennas because it allows different types of hard to detect the one that failed. Because outdoor radio signals to be sent within the same frequency cell resources are shared, high-speed data usage band. CA combines radio signals from different can be limited. frequency bands, and thus requires more frequency bands. Although in need of more In-building solution I: DAS Evolution frequency hands than MIMO, it can take Because LTE serves more data than voice, DAS advantage of SISO mode, doubling the speeds at should be able to provide not only good coverage, devices In-building # of CO = 400 C-RAN: Centralized/Cloud RAN # of BBU Marco Cell = 300 BBU: Baseband Unit RRH: Remote Radio Head # of RRHs > 180,000 Conventional DA SCAN: Smart Cloud Access Network Your Full-page ad **RF** cable - - -LTE Place your full-page ad in KCR Passive antenna m SK Telecom's CC every quarter DAS Evolution UTP cable - - - - -Please visit SK Telecom stand of Tens of BBUs ting 100s of RR MWC Shanghai 2015: W5.D70 - - - -[UO Smart Beam Laser] MU: Master Unit RU: Remote Unit ► HD Quality 1280 X720 Resolution East and Accurate Auto Focus · Convenient Wireless connectivity Figure 2. Architecture of DAS evolution

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3-1 in Netmanias Web Page (Korean and English)



SK Telecom and Intel also agreed to develop and verify 'Massive MIMO (Multiple-Input Multiple-Output),' a multiple antenna technology that

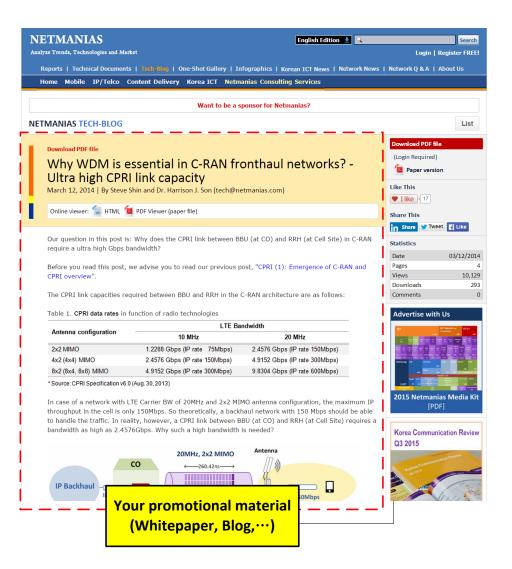
© Netmanias Consulting • www.netmanias.com Korea Communication Review • Q3 2015 **Samsung Electronics** AdaptiV Core and SK Telecom to The AdaptiV EPC pulls UI/Client EMS jointly develop SDN PoC together software-based virtualized network for LTE core network functions (VNFs) running on API 06/25 | By NETMANIAS (tech@netmanias.com) a KVM hypervisor, and can use standard Commercial Management Off The Shelf (COTS) general-Samsung Electronics announced on the Engines purpose hardware, or 25th that it will partner with SK Telecom, OS/Hyperviso specialized purpose built to develop a Software Defined Samsung servers, depending API Networking (SDN) Proof of Concept on the operator's specific (PoC) for an LTE core network. Both requirements. AdaptiV EPO **CognitiV Cloud manage** companies have recently announced their plans to develop virtualized, Network software-based networking solutions. AdaptiV solutions are also supported by Samsung's Cogniti\ CognitiV Cloud Manager SDN is one of the hottest, and most interested next generation technologies. and many global players have been EMAS paying keen attention to developm new SDN solutions and services. Original SDN is designed to separate contr **Your Press Release** data plane in network equipme order to create more efficien transmission routes An SDN-enabled Evolved Packet system for flexible and scalable management of (EPC) solution is known for the ability to processing, storage and offer optimized traffic routes according network resources. to types of subscribers and services, without having to go through the core Source: Samsung network Using this solution, operators can equipment and standardization by lower the risk of data leakage because it determine the shortest routes for data delivery, improve QoE, and reduce allows for delivering of important, October undesired network overload. In addition, confidential data directly via base Jin-hyo Park, Head of Network Techthey can handle network fault fast and stations nearby, instead of delivering nology Center at SK Telecom noted, through the public Internet network. "SDN is one of the key next generation keep investment costs down. So, it can be useful for large-scaled technologies for innovation of network What is great about SDN is that it can organizations like corporations, hospital, and cloud infrastructure of operators." He continued, "We are planning to public institutions, etc. offer different and flexible network accommodate services to each subscriber according to Also, because SDN makes sure data effectively evertheir selected plans (Network as a travel via the shortest routes near the increasing mobile data traffic through Service), while still using the current new EPC equipment development, and base station, lower latency can be network (Network Slicing). achieved. This will make many realoffer differentiated multimedia service Because of these benefits, large-scale time, latency-critical data services to be experiences." organizations like corporations, available in the coming 5G era, like "Software-based technologies such as universities, public institutions, etc. can cloud games, remote driving, etc., a Network Function Virtualization (NFV) enjoy the convenience of using private reality and SDN are key enablers for innovative network services through the networks services and efficient network already built by operators, without the The two companies plan to lead the operations," said Dong-Soo Park, hassle of building a new network next generation network innovation in Executive Vice President and Head of the global market, through cooperation R&D for Network Business at Samsung themselves. Plus, SDN is expected to significantly in development of SDN-enabled EPC Electronics.

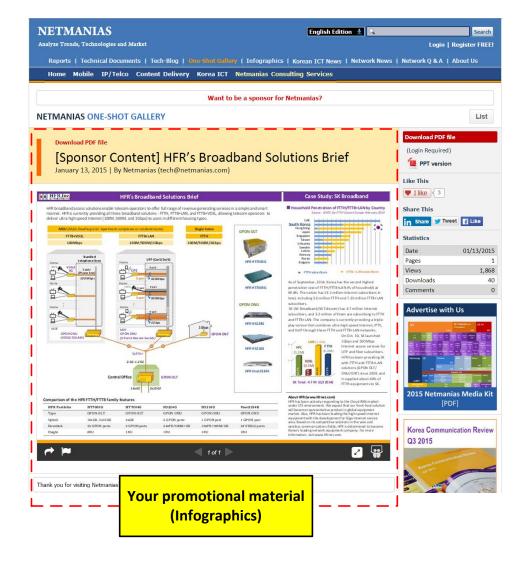
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Netmanias Newsletter

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NETMANIAS Analyze Trends, Technologies and Market Netmanias Newsletter 2015/06/16 Connect with Netmanias LinkedIn | Slideshare | Facebook | Twitter LATEST NETMANIAS CONTENTS Hear from CTOs of Korean Telcos (3) SK Telecom: Dr. Jinsung Choi 'SK Telecom's 5G Evolution Strategies' What are your key investment areas this year? There are some criticisms that the term 'platform' is too abstract. What are current development status and strategies of 5G? There are some skeptisms about 5G as well. What do you think about the doubt that OFDM technologies, which have been very effective until in LTE, will no longer be effective in 5G? Is there any LTE-A technology under development? Netmanias Blog | 06/16/2015 LG U+ achieved 600Mbps in its second LTE-U demonstration In its second demonstration of LTE in Unlicensed spectrum ("LTE-U", LAA in 3GPP term) conducted last month - 7 months after its first demonstration where it showed 300 Mbps through CA of 20 MHz at 2.6 GHz and another 20 MHz at 5.8 GHz 20, LG U+ successfully achieved 600 Mbps through carrier aggregation (CA) of 20 MHz at 2.6 GHz and 60 MHz (3 x 20 MHz) at 5.8 GHz. Netmanias Blog | 06/15/2015 Your banner or promotional materials

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