

March 1, 2018

## 5TONIC Showcases Innovation Momentum toward 5G

*Members gear up for next generation networks with CommScope OneCell deployment*

BARCELONA, Spain--(BUSINESS WIRE)-- While widespread deployment of wireless 5G technology is still a few years off, there is much to be done behind the scenes to ensure mobile networks and operators are ready for the change. In support of its members, 5TONIC, an open research and innovation laboratory, is demonstrating use cases for next generation wireless technologies such as smart factory applications.

This press release features multimedia. View the full release here:

<http://www.businesswire.com/news/home/20180301005321/en/>



To further the development of 5G, 5TONIC has deployed the OneCell C-RAN small cell solution from CommScope, which forms a single "super cell" indoors and eliminates handovers and border interference. (Photo: Business Wire)

The concepts employed in OneCell architecture are being considered in 5G standardization.

OneCell brings a new way to deliver high-performance mobile service to subscribers in high density venues like stadiums, sports arenas, campuses as well as mid to large enterprises. The C-RAN small cell architecture incorporates advances such as switched Ethernet fronthaul that allow systems to be designed, installed and tested in a fraction of the time that legacy solutions typically require.

### Driving smarter connectivity for tomorrow's generation

With OneCell, consumers in a large venue have continuous voice and mobile data access as the small cell system distributes capacity to multiple users. As an LTE system that already incorporates many 5G architectural elements, such as C-RAN over Ethernet front-haul and cell virtualization, OneCell is designed to streamline operators' LTE-to-5G network evolution path, including the coexistence of the two technologies for many years to come.

"This year we will see significant progress in defining 5G both as a standard and for real-world implementations. The initial hype has deflated, a necessary step towards the practical discernment of how we all are going to make 5G a reality," said Ben Cardwell, senior vice president, CommScope Mobility Solutions. "Working within the 5TONIC consortium allows us to test our innovations within an ecosystem. This accelerates everyone's progress and ensures that it is focused on real-world use cases."

5TONIC will be available to share more insight on future generation technologies at [Mobile World Congress 2018](#) in the CommScope stand 2J30 in Hall 2.

"5TONIC sees 2018 as a time for our members to focus on tangible results toward 5G," said Arturo Azcorra, vice-chairman of 5TONIC and IMDEA Networks director. "Our innovation lab is a central hub for knowledge sharing, industry collaboration, and the development of future products and services."

"For example, we are already seeing the tangible benefits of cell virtualization, which dramatically improves spectrum efficiency and is now being considered for potential inclusion in 5G standards."

To further the development of 5G, 5TONIC has deployed the [OneCell® C-RAN small cell solution](#) from CommScope. OneCell forms a single "super cell" indoors and eliminates handovers and border interference across large areas, creating a high performing LTE experience for end-users.

## **About 5TONIC:**

5TONIC is an international 5G-technology research and innovation lab in which industry and academia come together to kickstart technology and innovative business ventures. The lab was founded by Telefónica and IMDEA Networks Institute (Madrid), which hosts the main site. 5TONIC researches, field-tests and demonstrates the technologies and equipment needed to support 5G communications, services and applications. 5TONIC combines full members and partners from the telecommunications sector and others.

## **About CommScope:**

[CommScope](#) (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what's next and push the boundaries of what's possible. Discover more at <http://www.commscope.com>.

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## **News Media Contacts:**

Kevin Taylor, Robertson Taylor PR

+447 850 858 291

or

Jocelyn Penque, CommScope

+44 0 797 060 530 5 or [publicrelations@commscope.com](mailto:publicrelations@commscope.com)

Source: CommScope

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