

# White Paper: Current Activity in 5G

Submitted by mziemba on Tue, 03/04/2014 - 3:54pm Agilent Technologies

Even as LTE and LTE Advanced (4th Generation cellular systems) are being deployed, work is already starting on their successor: 5G. This paper describes the needs that demand continued development of mobile and fixed-line communications systems, and explains some background on who is involved and what is currently happening in bringing 5G from theory to reality.

### Current Situation

If we're all to use our mobile devices to work and play anywhere, we want access to streaming services and all our own "stuff", instantly, on devices as small as a smartphone or as large as the screen in an auditorium - properly formatted for the size of the screen, of course. We're already socially networked, 24 hours per day, 7 days a week. We want to be able to share versions of our stuff - photos, video, data, whatever - with friends, colleagues, and customers - wherever they may be.

In the same way, we don't want to buy software applications we don't need. Instead, we want to rent the applications we need to process our data for just as long as we need them. This is the vision of true "cloud computing", as opposed to just cloud storage, and its reality depends almost entirely on high-speed connectivity.

This need for high-speed connectivity is a common denominator as we look ahead to fifth-generation or 5G networks. Achieving 24/7 access to, and sharing of, all our "stuff" requires that we continue on our current path: going far beyond simple voice and data services, and moving to a future state of "everything everywhere and always connected".

To view the full white paper, click here.

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