17.1 5G NR and beamforming, a hot topic

We have been giving you regular updates here on progress with measurements for 5G NR. In the last issue (and on YouTube), we reported that there were two unknowns in the equation for determining the maximum exposure: the extrapolation itself, and the beamforming as the second unknown. Finding a solution to the equation was therefore a long way off.

Now there a new approach to the solution has been proposed by e.g. the IEC: Each of the two unknowns is allocated a separate equation, which means that each equation then only has one unknown. And, as every mathematician and physicist will tell you, that makes life a whole lot easier!

Anyway, beamforming isn't just a problem that is confined to 5G. It has been used for years with LTE. There have now been some attempts here to get to grips with this variable by means of spatial averaging. Beamforming is the subject of an article that was published by IEEE in December 2019, which is an absolute must to read. You can access the article on the IEEE homepage here.

This leaves the way free for extrapolation to maximum load, which means that Narda can make the SRM-3006 5G NR capable.

Software updates:
There's new software and a new firmware release for the Area Monitors AMB-8059 and AMS-8061:

Download the AMB-8059 firmware release here; the AMS-8061 firmware release here.

There's also a new EMF GPS logger PC software for the AMB-8059 available here.

Instrument demonstrations:
Would you like a demonstration of this or another Narda product? Just contact your local Narda sales partner for possibilities.

Seminars:
For beginners, more experienced, and professional users in the field of selective measurement of electromagnetic fields, we offer the **seminar on "Exposure measurements on wireless transmitters using the SRM-3006"**. Register here right away. You can also ask our sales partners about customized seminar dates.

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