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JUL 11, 2019 | 3 min.

Hannes Ekström

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(NR) access, an
5G subscriptior

The first rollout
broadband to provide higher da
with the 3GPP specification tha
under NSA operation – meanin
So service providers who want t
5G coverage is established, imp

But industry digitalization is what is going to pave the way for new reven
service providers. And 5G use cases requiring ultra-low latency and much
will only be feasible with the SA 5G NR and the 3GPP core network archit
Core (5GC).

This means that there are service providers who prefer to go straight from 4G to standalone 5G, which offers greater possibilities to tap new 5G use cases, especially for enterprises. Together with industry peers who have already deployed NSA 5G, they can start to benefit from the advantages of standalone 5G, which is the eventual architecture of all 5G radio networks.

Two sides of the same coin

There have been discussions on the pros and cons of these two 5G tracks, sometimes to the point of rebuffing one option for the other. But that should not be the case; it is not an "either or" selection between NSA and SA but rather a matter-of-time perspective. It all boils down to the specific business goals and requirements of the service provider.

For service providers who are looking to deliver mainly high-speed connectivity to consumers with 5G-enabled devices already today, NSA mode makes the most sense, because it allows them to leverage their existing network assets rather than deploy a completely new end-to-end 5G network.

However, for those who have their sights set on new services such as smart factories, a straight-up 5G wireless technology that is no longer dependent on an existing 4G network could make more sense. Considered as the ultimate 5G, Standalone NR – coupled with cloud-native 5G Core – will provide better support for all use cases and unlock the power of the next-generation mobile technology. Thanks to network evolution we're entering a

new era of ultra-fast connectivity, the most rapid response times ever, and a whole host of

the value they bring...

Non-standalon

- Be first to l
- Introduce r
- Maximizes
- LTE anchor
- 5G Evolved
- Provides ec
- Enables vic
- Opens up o

Standalone 5G

- Target 5G c
- Simplified RAN and device
- New cloud-native 5G Core
- Brings ultra-low latency
- The only option to provide s
- Supports advanced networ
- Facilitates a wider range of use cases for new devices

Given the two 5G deployment options outlined above, the question remai need standalone 5G if we can move forward on the strength of existing L assets which have served us so well? There's no doubt that answer is yes. Standalon NR is a key enabler for service providers to develop their offering.

Ericsson's new SA 5G NR software enables service providers to launch standalone 5G commercially. Combined with our 5G dual-mode Cloud Core solutions, the new 5G NR software, which can be installed on existing Ericsson Radio System hardware, will open up new business opportunities for service providers. With wider deployment options, they can choose the path to 5G that suits them best.

Expanding network coverage – a major challenge

Despite the benefits of standalone 5G, there is one significant challenge involved in its deployment that cannot be underestimated. With limited 5G coverage on the mid-band, providing full 5G coverage may involve building many sites, which is a time-consuming and costly process.

Recognizing that, Ericsson has launched Inter-band NR Carrier Aggregation, a software feature that expands the coverage and capacity of NR on mid- and high bands when combined with NR on low bands. This will improve speeds indoors and in areas with poor coverage.

We're embracing the challenge with open arms. And with our unique 5G NR software solutions, we're helping surmount it. Because believe it or not, these latest complements

our 5G platform ensure a smooth, cost-efficient way to expand the 5G network. As long as

which upgrades an existing LTE low-band carrier, to operate NR and LTE simultaneously. Again, with sof

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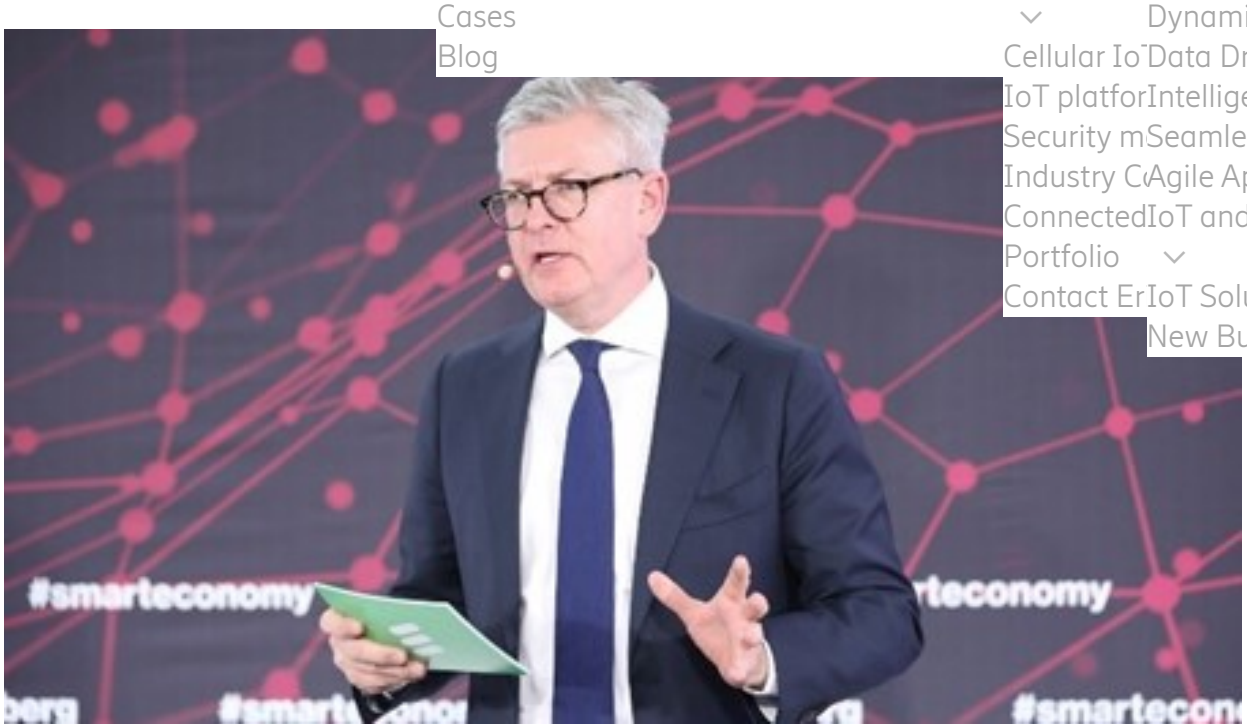

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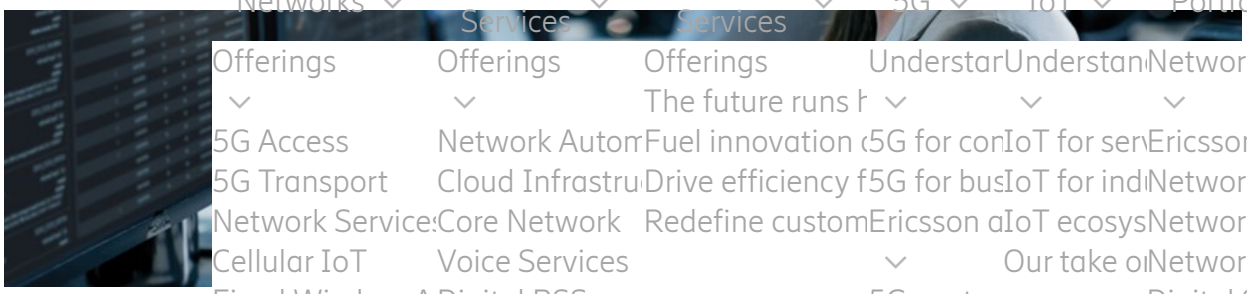

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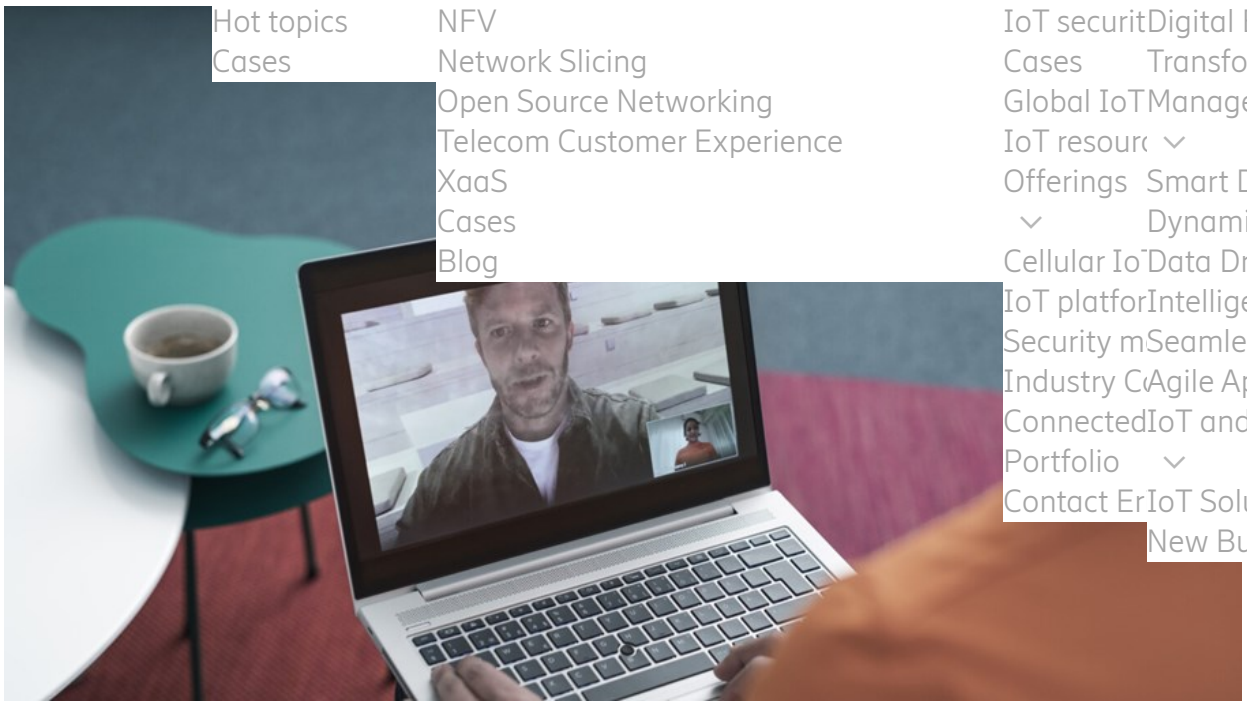

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