Making smartphone browsing 20% faster while reducing power consumption by 40%

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Nokia Networks today announced that it has conducted the first live network trial of a software feature that improves smartphone performance on 3G networks. Nokia High Speed Cell FACH cuts smartphone-generated network signaling by up to 80%, boosts response time by up to 65% and achieves up to 20% faster browsing. Up to 40% power savings, contributing to longer smartphone battery life for subscribers, were also shown. The tests were run on the commercial 3G/HSPA network of a major European operator using test devices fitted with Qualcomm Snapdragon processors that support High Speed Cell FACH.

Running applications such as WhatsApp Messenger, Facebook Messenger, web browsing and e-mail, smartphones often send and receive small data packets of just a few hundreds of bytes or a few kbytes. High Speed Cell FACH handles these small data packets more efficiently to improve the overall customer experience and enable operators to support a higher number of smartphones on their networks.

"Smartphones already outsell feature phones and by 2018, smartphone penetration in some developed markets is expected to exceed 90%. With virtually all these smartphones being 3G-enabled, it's important to be able to improve network efficiency under high signaling load," said Thorsten Robrecht, vice president, Mobile Broadband portfolio management at Nokia Networks. "Nokia Networks already offers a unique set of software features to reduce smartphone signaling. High Speed Cell FACH is now the next step."

Part of the Nokia Liquid Radio WCDMA Software Suite, High Speed Cell FACH is already available, so operators can prepare for the market when smartphones support the feature.

High Speed Cell FACH is an important capability that Qualcomm Technologies supports on its latest Snapdragon processors that are now commercially available to smartphone manufacturers. These live network tests produced substantial performance gains that exceeded Qualcomm's expectations, including beating previous laboratory test results.

More information: Click here to download a white paper which has more details about the results of the trial: networks.nokia.com/sites/defau … fach_white_paper.pdf

Provided by Nokia

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