Press Release
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FRITZ!Box with LTE (Long Term Evolution)

AVM with FRITZ!Box – Partner at LTE-Friendly-User-Test by O_2

- FRITZ!Box with new LTE wireless standard used at O_2 for the first time
- With LTE, AVM is focussing on current broadband technology performance features
- Stationary end devices manage high data rates for home network

Berlin/Munich. **AVM, the communication specialist from Berlin, is partnering Telefónica O_2 Germany's LTE-Friendly-User-Test. Several familiar technologies from DSL, cable and WLAN are applied in the FRITZ!Box with integrated LTE. Due to the fact that LTE data rates can be compared to those of a VDSL or cable connection, AVM – as market leader in broadband end devices – is also focussing on stationary end devices for LTE. This is the only way of using LTE's full potential in a home network, which includes simultaneous use of LTE broadband for several users and 24-hour availability.**

Distribution in a Home Network with Stationary LTE End Devices

Data rates comparable to VDSL and cable require the corresponding end devices for distribution in a home network. Data access by several computers via LTE and data traffic via WLAN in the home network require end devices with a corresponding processor output. Broadband routers such as the FRITZ!Box serve this function and are ready at any time. An additional advantage is the incorporation of telephony and connection options for a wide range of telephone end devices.

New Standard LTE Fully Relies on IP

With the introduction of the upcoming LTE mobile phone standard, mobile phone providers are relying on the technical advantages offered by broadband networks such as DSL and cable. The fourth generation of the wireless network standard is fully based

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on the Internet protocol. Apart from the orientation towards IP, OFDM (Orthogonal Frequency Division Multiplex), a modulation procedure already known from DSL and WLAN, will be used. And by using MIMO technology, LTE is applying a further procedure known from WLAN technology. Several antennas increase data rates, which are currently a maximum of 100 Mbit/s for downloads and 50 Mbit/s for uploads. This makes LTE's data rates comparable to broadband via VDSL and cable.

Broadband Internet Also for Rural Areas

A fast Internet connection has become standard in numerous German households. But there are still several areas in Germany without a broadband connection or with transmission rates of below 1 Mbit/s. These areas can obtain a fast broadband Internet connection with the LTE mobile phone network. Amongst others, the LTE network is based on the previous TV frequency of 800 MHz. This makes it ideal for supplying scarcely populated rural areas with fast Internet.

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