

## **Renesas Mobile Set to Double Operators' GSM Capacity Following First Pre-Commercial Test of VAMOS II**

Renesas Mobile Corporation today announced that it has undertaken the world's first pre-commercial trial of the latest version of Voice Services over Adaptive Multi-user Orthogonal Sub-channel (VAMOS II), the next step in the evolution of GSM technology. Held on a test network in Beijing, and using ZTE infrastructure equipment, the successful trial involved a complete implementation of VAMOS II on Renesas Mobile's smartphone reference platform RRP11B. The results showed a twofold increase in available network capacity including pairing with legacy terminals.

VAMOS is a new technology designed to significantly increase operators' voice capacity on existing networks by enabling them to accommodate up to four speech users on a single GSM channel. VAMOS II, the focus of the recent trial, represents a considerable advance over its predecessor, and brings immediate benefits to operators on deployment. Operators' available capacity is increased as VAMOS II terminals require less power to maintain voice call quality. In addition, VAMOS II maximises the number of users on each channel as it permits a greater number of combinations of handset types (i.e. VAMOS I, VAMOS II or non-VAMOS) to be used simultaneously.

"VAMOS II delivers tangible benefits to operators and end users," said Heikki Tenhunen, senior vice president at Renesas Mobile. "Many of those benefits are felt immediately as a result of the resource and spectrum optimisation it delivers, but as the penetration of VAMOS II capable handsets increases, the capacity benefits continue to grow."

Pu Yingchun, ZTE vice president said "ZTE is highly committed to technology innovation, particularly in areas where we can add value to our customers. We already have VAMOS-capable devices in the market and now we have successfully demonstrated VAMOS II. This will increase network capacity further and allow operators to use available spectrum much more effectively, which will give them great flexibility for future network evolution."

The Renesas Mobile modem team's unrivalled experience enables Renesas Mobile to continue to deliver leading multimode modems and remain at the forefront of cellular technology development. The team has, for the last 30 years, played a pivotal role in the definition, implementation and global acceptance of cellular standards and has contributed significantly to the development of the VAMOS standard since its inception. Today, all of Renesas Mobile's platforms fully support VAMOS II. The Renesas Mobile modem team was the first to contribute VAMOS receiver performance values in 3GPP.

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