

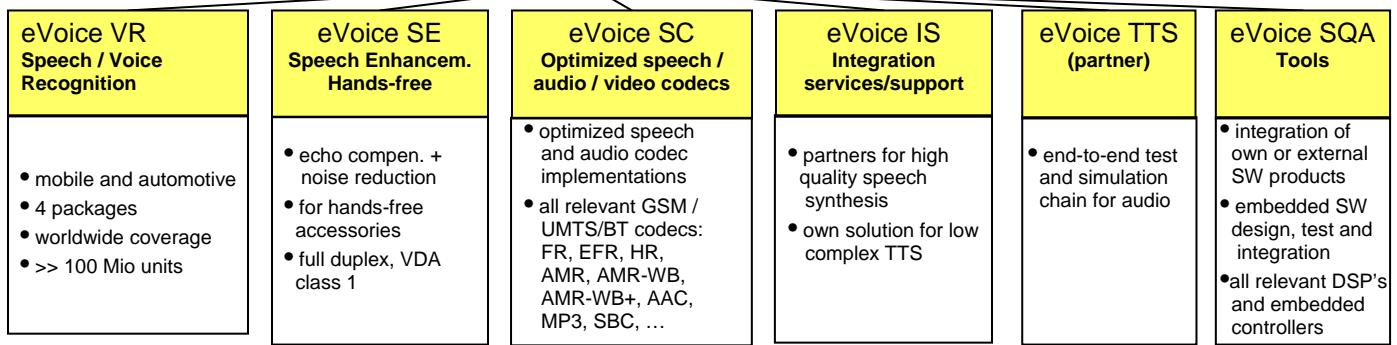
eVoice SE – Evolution from an Aftermarket to an OEM Hands-free Solution

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Teleca is an international consulting company, specialized in mobile communications and with its daughter company AUSystems addressing the automotive industry. Teleca is ideally positioned to cover all aspects and issues of telematics and networked automotives such as nomadic devices in automotives, 2G / 3G and Long Term Evolution of mobile networks, in-car communication with Bluetooth and other radio communication technologies, DRM, WiFi and WiMax.

This contribution highlights Teleca's offer in the area of voice user interfaces and speech and multimedia solutions. Teleca eVoice is a family of speech technology products covering all aspects of voice user interfaces and speech communication in automotives and mobile communications. One of the main building blocks is e.g. eVoice VR, the speech recognition product available in different packages spreading from low complex speaker dependent to large vocabulary speaker independent technology. eVoice SE is a full duplex hands free solution for car accessories, with source codecs eVoice SC Teleca is able to offer all relevant speech and audio codecs.

Teleca Speech Technologies - eVoice



In the remainder of the presentation experiences shall be given from the design of a full duplex hands-free solution for the aftermarket segment and the subsequent evolution towards an OEM suitable solution. eVoice SE is a combined acoustic echo

compensation and noise reduction solution. Core development has been done for a Bluetooth aftermarket hands free accessory for a mobile communications customer. Whereas the requirements contain VDA type 1 compatibility (highest possible audio quality), low cost, 16 Bit accuracy for high portability and as far as possible self configuration to minimize user interaction, the highest challenge was to cope with non-linearity caused by cost minimized audio components (loudspeaker, microphone). Partly contradicting requirements had to be fulfilled with additive function modules such as e.g. equalizers to realize a competitive solution for OEM customers.