Power management

POWER

Software development
for a Car infotainment system

Customer requirement

On the subject of power management, there were a multitude of work packages in this infotainment system – in this case a head unit (HU). In addition to aspects which were only of relevance within the HU, there were others to be integrated into the complete vehicle.

There was a very tight time schedule for this project which had to be adhered to.

comlet solution

For integration in the vehicle, diverse HU status information had to be communicated to various other control devices. Several so-called power modes were implemented to activate and de-activate the internal HU hardware (e.g. integrated stereo amplifier). In addition varying behavioural patterns were applied for different stress states and temperature conditions. For the last two a hardware connection also had to be put into place. comlet implemented a shutdown interruption. This functionality made it possible to interrupt the shutdown process of the HU and to start up again quickly.

The greatest challenge in this project was to put all of this into practice within the very short time span.

Technologies used:

C, Fujitsu µC der Fujitsu FR70-family, ProOSEK

training
consulting
maintenance
development
testing
integration

::comlet