

## Case study

# How fire departments nowadays fight hazards with information

The lack of information complicates the work of the emergency services - Enable fast and secure communication with the CAR-A-WAN.112  
A case study of three fire departments from Hessen.

The fire departments of the Hessian community of Reiskirchen, as well as the cities of Grünberg and Alsfeld, use the combined WiFi mobile router CAR-A-WAN.112 of IPmotion to connect their command vehicles to the Internet.

In addition to radio and telephone, communication between emergency forces, local authorities and tactical units is increasingly taking place via e-mail, web and apps. This requires reliable and broadband access to the Internet.

The Reiskirchen volunteer fire brigade recognized this already in 2012 and put a CAR-A-WAN v4 with two-module technology into service for information gathering and research, which was upgraded from 3G to LTE in 2016. The VPN connection is used for access to the municipal server, the FAX box and software for managing larger fire department operations.

**The municipal fire inspector of Reiskirchen, Jan Feldbusch:** „In the course of the digitization process, an Internet connection is mandatory in the command vehicle.

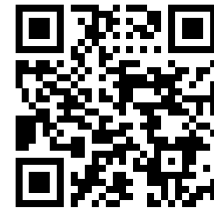
Through the VPN connection, all data is stored centrally on the municipal server and synchronized with the fire department plans for immediate access in the command vehicle."

The city of Grünberg purchased the CAR-A-WAN.112 Plus LTE v4 in 2017. The router was test-equipped with the ability to automatically switch to Wi-Fi coverage in the police station without PCs and tablets having to change the network configuration or even being disconnected for a short time.

**Jörg Sprankel, fire inspector of the city of Grünberg:** „The operating system of the in the command vehicle permanently installed PCs and the specialist applications require regular Internet access to ensure that they are functional and up-to-date. By giving priority to "WiFi over mobile communications" in the CAR-A-WAN, we have been able to significantly reduce mobile communications costs, because updates of the permanently installed Windows PCs no longer use the SIM cards, but are carried out indirectly via the VDSL line in the guardhouse.“

These experiences have been incorporated into the new CAR-A-WAN.112 Plus LTE-A v6, which supports the function called "StationLink" ex works. Last year Alsfeld and Reiskirchen acquired the new technology with new vehicles through the company REDCAR.

For the city of Alsfeld and the volunteer fire departments supported by it, the expandability of the CAR-A-WAN.112 router was also important. "An additional SSD as integrated network storage in the router is very helpful in the command vehicle for workstation backups," says Christoph Schweiner, the responsible IT employee. "This saves an additional device in the vehicle and reduces complexity."



Contact for the study and further information on request: [info@ipmotion.de](mailto:info@ipmotion.de)  
Further information is available at <https://www.ipmotion.de/produkte/car-a-wan-112/>



.automotive



.112



.marine



.coach



.rail



.agrar