

# Fire departament vehicles

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Pohlheim has a VW Crafter with special construction and recently replaced the old UMTS router with the new RUT955, which will have LTE connectivity.



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## Summary

Replacing an obsolete router with the LTE router RUT955 without changing the external antenna that is mounted on the roof of the car and also connecting an additional antenna inside the vehicle.

## Customer profile

Pohlheim

## Challenge

2010 we obtained a new command vehicle, a VW Crafter with a special construction. This vehicle contains a lot of radio sets, a fax machine, workplaces for two firefighters with telephones, computers and working materials like maps, plans and other material to help the head of operations on his work. Now nearly ten years have passed and the technique in the vehicle has become outdated so we wanted to replace the old UMTS router with a LTE device. The old router had only one antenna, so there was only one attached on the roof. As most LTE routers are using a MIMO technology, this could have become a problem as mounting a second antenna would cause a lot effort. A problem with the former router was that you had to access the device configuration to activate the WiFi. The WiFi wasn't shut on normally because it has no encryption for faster access.

## Solution

After long research, we decided to buy a Teltonika RUT955. It fits in the location of the former router as it is very small. The LTE is very fast in comparison to the old UMTS. We decided to try using the old roof antenna as the main antenna and mounting the auxiliary antenna as well as the WiFi antennas into the vehicle. This worked out fine so we hadn't got to buy a new MIMO antenna and lay new cables. We have installed an extra button which fits perfectly in our dashboard and attached it to the IO interface of the RUT955, the light in the switch lights up if the WiFi is enabled even if it wasn't enabled by switching it. If we have to access the internet in an area where no or no good LTE connection is possible but f.i. a citizen offers us to use his internet connection, we can simply plug an ethernet cable into a special port on the side of the radio set dashboard, it automatically connects to this network and disables mobile internet, this is also useful to do updates in the firehouse without using the mobile internet data volume. It is also possible to connect to another network via WiFi even if the WiFi Hotspot of the RUT955 is enabled.

## Attachments



## Benefits

Changing the old router to the RUT955 did not require replacing the external antenna that is mounted on the roof. There was also the possibility of attaching another antenna. If necessary, it is possible to connect a WAN cable, it automatically connects to this network and disables the mobile internet, this is also useful to do updates in the firehouse without using the mobile internet data volume.

## External links

- [Pohlheim homepage](#)
- [RUT955 homepage](#)