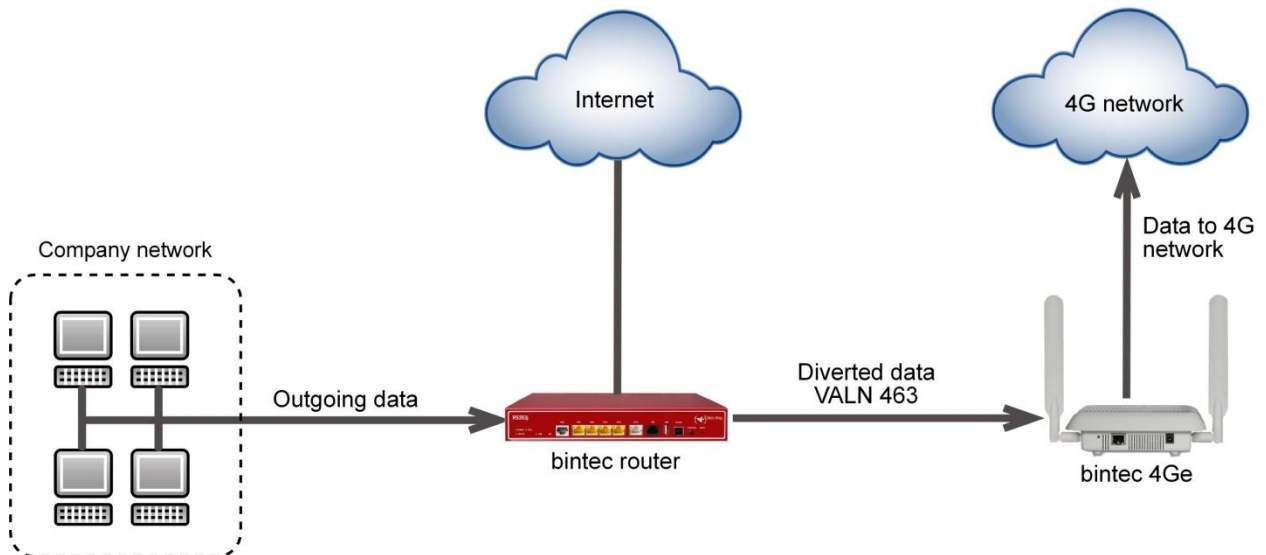# General configuration guide for the bintec 4Ge

The **bintec 4Ge** adds mobile UMTS/LTE data connectivity to an existing router. You can power the device either via PoE (Power over Ethernet) or a plug-in AC adapter. The SIM-card that allows access to the mobile network is inserted directly into the **bintec 4Ge's** externally accessible SIM card slot.



The **bintec 4Ge** operates in DHCP client mode. The configuration parameters are sent as ASCII values from the connected router using DHCP option 43. The **bintec 4Ge** can be operated on a PoE switch or connected directly to the Ethernet port of a router. The connected LAN must have an active DHCP server that can provide an ASCII value as option 43 (vendor-specific string).

Most UMTS/LTE carriers only require the APN and SIM card PIN for configuration, for example:

**antenna&apn=internet.provider&pin=1234**

Optionally, you can pass a username and password to the **bintec 4Ge** for authentication on an APN using the parameters "usr" and "pwd":

**&usr=internet&pwd=internet**

With the optional "mode" parameter, you can specify the network type. The available values are auto, gprs, wcdma, gprsp, wcdmap, and lte.

**&mode=auto**

As soon as the configuration parameters have been sent to the **bintec 4Ge**, initialization of the UMTS/LTE modem begins. Next, the connection to the mobile network is established. This connection is made available at the **bintec 4Ge's** LAN interface as VLAN 463. The IP address issued by the mobile network carrier is assigned via DHCP to the connected router (over VLAN 463). A subinterface in client mode with VLAN ID 463 must be created on this router.