

A proactive approach to potential interference in Europe

Region

Europe

Challenges

Risk of interference with air traffic control signals operating at 2700 MHz.

CommScope solution

Tower mounted amplifier with integrated interference mitigation filter (IMF) technology for use in 2600 MHz LTE networks.



A European wireless operator was awarded the 2600 MHz band for LTE, which runs up to 2690 MHz—extremely close to the 2700 MHz frequency used by radar for air traffic control. They realized that, if left unaddressed, the situation could present a safety issue for air traffic and a possible media disaster for them.

Because this issue was relatively new in the region, the availability

of targeted and customized interference solutions was limited. So the operator turned to CommScope, a global leader in customized interference mitigation solutions.

One of the largest wireless providers in Europe knew they couldn't afford an interference problem. They decided to get proactive.



Working closely with the customer to understand their network architectures, site designs, and deployment challenges, CommScope developed an innovative solution: a 2600 MHz LTE filter integrated within CommScope's tower-mounted amplifier (TMA). The core integration allows the operator to minimize the number of components and costs as well as reduce the interconnection points and the potential for passive intermodulation (PIM).

During field testing, the prototypes performed as expected, preventing spurious out-of-band transmissions from the mobile operator from leaking into the 2700 MHz band used by air traffic control.

The filtering TMAs were then strategically deployed across the network and have continued to prove successful. As the operator's network evolves, CommScope remains involved, helping to monitor and address interference issues in this fast-changing RF environment.

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