



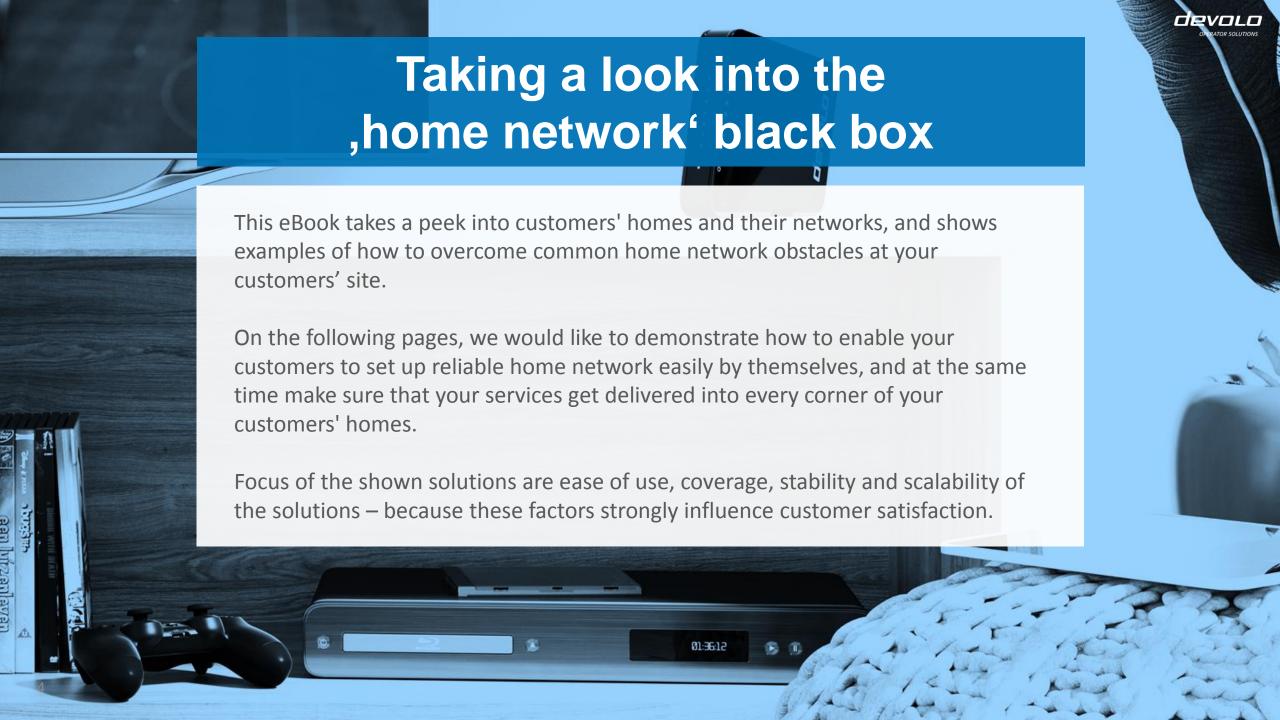


Excellent service quality in unknown territory – your customers' home.

As an operator or Service Provider, it is probably one of your goals to provide your customers the best service quality possible. Why? Because satisfied customers will enable you to reach all of your other goals. But to get and keep satisfied customers, it is important to ensure that the service distribution within customers' homes works smoothly and reliably.

Nowadays, operator technicians often don't 'install' your services at customers homes anymore, but you'll send out devices to enable the connection and distribution of your services within your customers' homes. These devices were tested based on specific scenarios – but tests and scenarios can only reflect a fraction of the characteristics of customers' homes.

The successful distribution of the internet signal, often via Wi-Fi, is influenced by certain characteristics of the home: Is it a detached house or an apartment in a multi-story building? Which materials are the walls made of? Where is the signal entry point into the home, and how is the router positioned? And maybe most importantly: Which method and which devices are used to distribute the internet signal within the home?

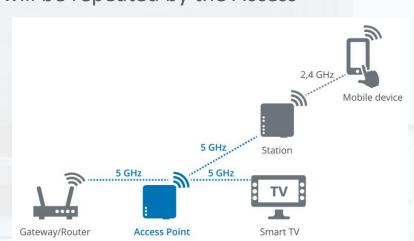






By connecting an OS WiFi Bridge Access Point to the gateway/router in the storage room, and placing it in the hallway, the IPTV signal will be transferred smoothly and reliably via a 5 GHz Wi-Fi network to the Smart TV. By adding an OS WiFi Bridge Station into the kitchen, the internet signal will be repeated by the Access

Point in the hallway, and received by the Station in the kitchen. The Access Point acts like a high-perfomance 5 GHz Repeater. Surfing the internet over the 2.4 GHz band that the Station also provides ensures that the connection between Router, Access Point and Station will be optimal.

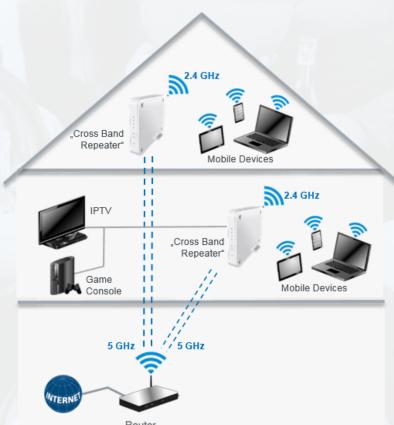






When looking at multi-level detached houses, the scenario is a bit different. While the internet signal enters the house on the ground floor, the Smart TV is based in the living room on the second floor.

The living room is one of the main digital hubs/hotspots within the house: Here, your customers play online games with a video console, stream movies over Netflix, but also surf the internet on their smartphones and tablets. While the children might play in the living room, their dad will work in his home office on the third floor, which means that he, too, would need a reliable and high-performance connection.



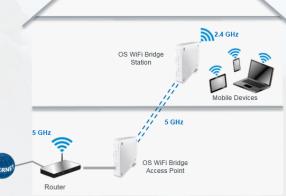


Use Case Scenario 2 – Multi-room IPTV and best Wi-Fi coverage

In this case, two OS WiFi Bridge Stations can be used as Crossband Repeaters. One Station will be placed in the living room, and one in the home office, both connected to the router on the ground floor via a 5 GHz WiFi band. Smart TV, game console, and other devices can be connected to the Station via LAN. To make sure the CPE devices don't interfere with the 5 GHz stream, smartphones and tablets will access the internet through the 2.4 GHz network that the Station also provides.

The same setup will be realized in the home office: The internet signal will be transported from the router to the third floor over a second 5 GHz band, mobile devices will be connected to the Station through a 2.4 GHz network.

Aside from the above discussed cross-band repeating scenario, Access Point and Station are also available as pre-paired ,OS WiFi Bridge' solution. For more information about this scenario, please refer to eBook I ,The Wi-FiUtopia' (downloadable here).









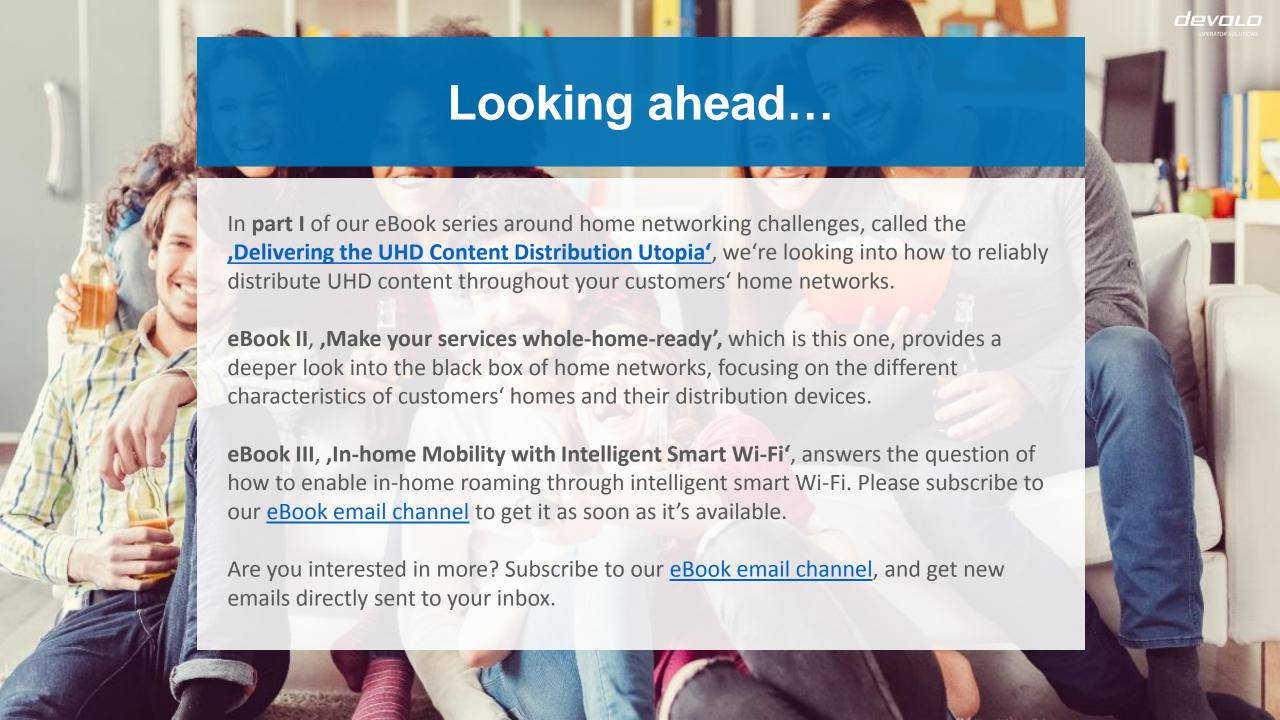
Use Case Scenario 3 – The distributed approach via powerline

But what to do when Wi-Fi signals interfere in big condominiums, walls are metallayered or the layout of apartments or houses is just too complex to get covered by one or even more repeaters?

With the distributed approach using the powerline as a backbone for Wi-Fi applications, your customers will be able to enjoy your services even in these kind of difficult home network environments.

The Wi-Fi challenges can be overruled by transporting the internet signal over the powerline where coverage problems exist. Within certain rooms, additional Wi-Fi hotspots can be provided - without loosing bandwidth or coverage.

The setup is simple: A powerline adapter will be connected to home gateway/router, and an additional adapter will be placed in each room where the service is wanted. Smart TVs or game consoles can be connected through LAN. By using PLC adapters with an integrated Wi-Fi hotspot, such as the PLC 1200+ WiFi ac, mobile devices can access the internet over Wi-Fi.





Contact us

Thank you for your interest in our solutions.

We would be happy to discuss our solutions with you in person to see which challenges your customers face that might be unaddressed at the moment, but could be optimized in the future.

You have multiple options to reach out for us. For more information, you can

Visit www.operator-solutions.com
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