

# Assuring Wi-Fi on the London Eye

## Verifying Telefonica O2's Wi-Fi performance with Landslide™

### Highlights

- An augmented reality app required deployment of Wi-Fi services for the London Eye
- Complex Wi-Fi infrastructure needed to be tested to verify performance before launching the app
- Services needed to be verified in a matter of days with no impact on daily operations
- Spirent used Landslide to evaluate the network from an end user perspective, using realistic traffic and loading
- Spirent's tests showed strong Wi-Fi performance, enabling the app to be launched on time

### The Challenge

Merlin, the management company for the Coca Cola London Eye, was planning to launch an augmented reality app to enhance riders' ability to identify surrounding landmarks. To support the new app, Merlin first needed to enable Wi-Fi connectivity in the Eye's rotating cabins—a novel challenge. Merlin turned to Telefonica O2 to deploy a Wi-Fi system consisting of Wi-Fi access points (APs) mounted near cabins, wireless links to connect the APs to ground-level infrastructure, and various controllers and switches. Before going live with the new app, Merlin needed to make sure Telefonica O2's Wi-Fi network would deliver the performance and reliability required by an augmented reality app.

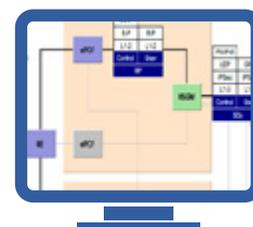


Merlin was launching an augmented reality app that required fast, reliable Wi-Fi connectivity.

### Our Solution: Landslide

Spirent collaborated with Merlin and Telefonica O2 to develop a methodology for verifying the performance of the London Eye in-cabin Wi-Fi services in both loaded and unloaded network conditions. Spirent's Landslide solution was utilized due to its ability to generate both signaling and user traffic for the uplink and downlink. The Landslide C100 platform was used to manage tests and act as a test server.

The E10 platform was used to emulate Wi-Fi clients and evaluate the service from the customer's perspective.



E10



C100

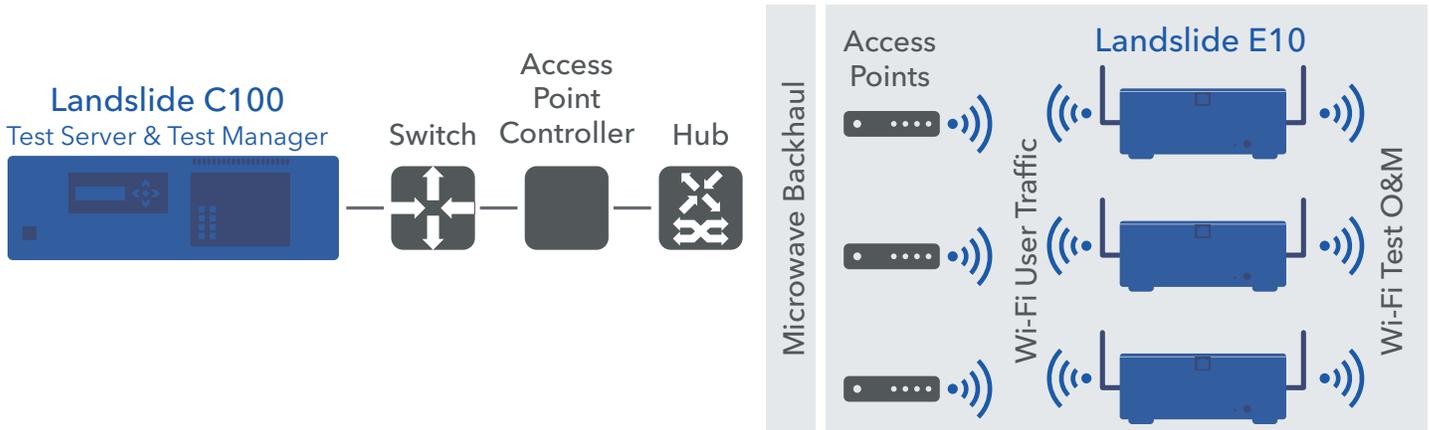
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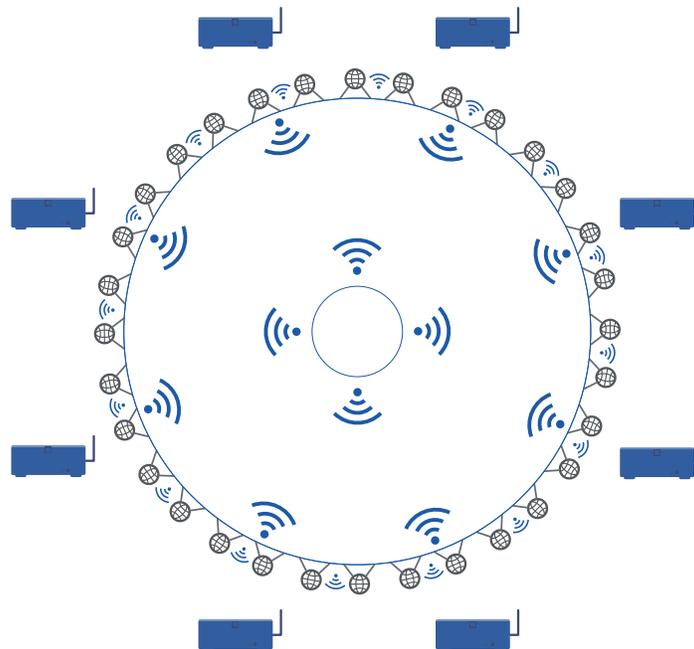
## Wi-Fi Verification System Overview

Landslide verified the total Wi-Fi throughput and packet loss in multiple London Eye cabins while the cabins were stationary and in-motion.



The London Eye is ringed with wireless **Access Points** which provide Wi-Fi service to cabins.

**Access Points** connect to the central **Hub** via wireless links.



Eight **Landslide E10** units were placed in cabins to test **Access Point** performance & reliability.

## Contact Us

For more information, call your Spirent sales representative or visit us on the Web at <https://www.spirent.com/ContactSpirent>.

[www.spirent.com](http://www.spirent.com)

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