

R&S®LANCOM Public Spot XL Option

Maximum freedom of design for guest Internet access

The R&S®LANCOM Public Spot Option provides reliable and secure Internet access for guests, visitors, partners or customers, all based on a common infrastructure. The guest network is at all times strictly and securely separated from the hotel's internal network. There is no need for any additional hardware components, which makes the R&S®LANCOM Public Spot Option the optimal solution for the provision of secure hotspots.

- ▶ Secure separation of guest access from the internal network
- ▶ Flexible configuration of authentication at the hotspot
- ▶ Choice of models for online time and validity period of the guest access accounts
- ▶ Voucher and portal layout can be customized to the individual design of the company
- ▶ Connection to external servers or property management systems via XML, FIAS or RADIUS interfaces
- ▶ Available in two variants: Public Spot Option and Public Spot XL option
- ▶ Upgradeable with the R&S®LANCOM Public Spot PMS Accounting Plus option for connection to hotel billing systems
- ▶ Simply upgrade your existing device and save on hardware components

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Secure separation of guest access from the company LAN

The R&S®LANCOM hotspot solution operates on a single network infrastructure. The company and guest networks are securely separated from one another, and company data remains securely protected from unauthorized access. Integrity of this type yields enormous cost savings not only because it upgrades your existing hardware, but also because managing just one infrastructure reduces the administrative overhead.

A choice of login procedures

The R&S®LANCOM Public Spot solution offers a variety of options for guest authentication, including self-authentication by e-mail or SMS, printed voucher, confirmation of the terms and conditions, and others. This gives hotspot operators the choice of access provision that best suits their solution.

Flexible online time and validity

The R&S®LANCOM Public Spot Option offers flexibility in the design of the hotspot, particularly with regard to the available online time and the validity period. You can issue vouchers for a few hours, for entire days, or even for weeks. You can also specify a data volume limit after which access expires or the bandwidth is reduced. This gives you maximum flexibility and control.

Voucher layout and login portal in your corporate design

The R&S®LANCOM Public Spot Option offers a huge variety of configurations to facilitate an individual design. For example, the hotspot login page can be adapted to the corporate design of the hotspot operator. You can create your own banners, greeting messages, or even your own customized login pages. Strong branding for your hotspot.

Flexible interface structure

The R&S®LANCOM Public Spot Option offers a wide range of interfaces (API) for combination with external server solutions. XML, RADIUS or FIAS are used to connect it to external servers or property management systems (PMS). For example, the hotel can bill Internet charges directly to the room, or user authentication can be based on the guest's room number.

Easy upgrades

The R&S®LANCOM software options turn a simple network into a customized and cost-efficient solution that meets your individual needs. Simply install them on your existing hardware and you upgrade your network with the desired feature. The advantage: No additional hardware components are required. The costs and the administration overhead of the entire network are reduced. Genuine added value comes in terms of the system's future viability, because the options transform a network into a customized and scalable networking solution.

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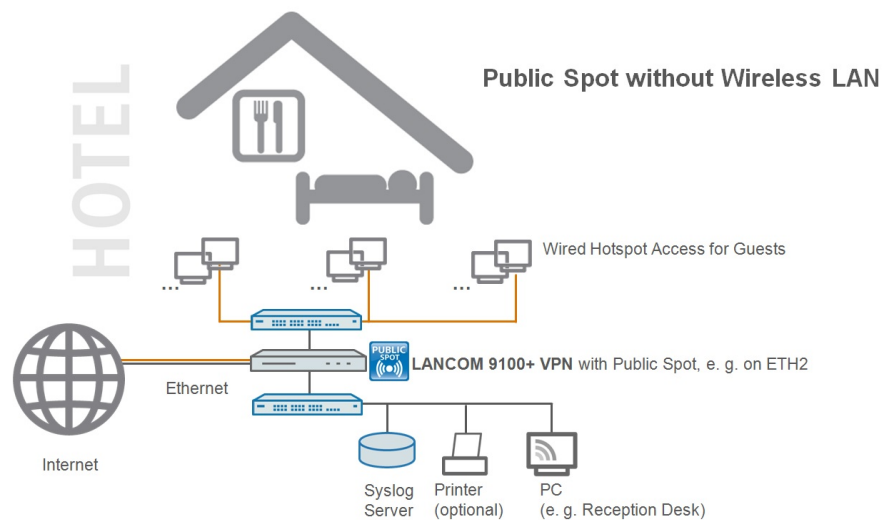
Technical details	
Supported devices*	<ul style="list-style-type: none"> ▶ R&S® LANCOM ISG-8000 ▶ R&S® LANCOM ISG-5000 ▶ R&S® LANCOM WLC-2000
Number of supported users***	ca. 2.500 concurrent user
Login via web portal (Captive Portal)	Login to the hotspot after entry of username and password via a web portal (freely definable)
Self-service login to the hotspot (Smart Ticket)	Login credentials to the public spot network are sent to the user through SMS or e-mail. The e-mail is sent via SMTP. The sms is transmitted via the integrated 3G/4G modem, an e-mail-2-SMS gateway or a 3G/4G router in the network
Voucher print	With just a few mouseclicks a ticket with login credentials for the hotspot can be generated and be printed with any office printer. The voucher can be individually designed.
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Easy Public Spot login with one click	After accepting the terms of use, the user gets a WLAN guest access for a definable period
WISPr	Wireless Internet Service Provider roaming allows smart clients to connect to a Public Spot without the need of manual input of login credentials on a website.
Re-login	The Public Spot identifies known WLAN clients for an automatic authentication. After an initial authentication, the hotspot stores the relevant client information so that there is no need for an additional manual entering of login credentials - significantly increased comfort for regular guests.
MAC-based authentication	Users can be authenticated for access to the Public Spot via their MAC address
Walled Garden functionality	Enables a free access to selected websites, even without activation of the guest access (e.g. sponsoring, corporate or hotel websites)
Bandwidth management	The available bandwidth for Public Spot user groups (e.g. "gold", "silver", "bronze") can be individually configured: An ideal functionality for preferring "premium users" and for limiting the bandwidth of standard accounts
Support of volume- and time-based accounts	Validity of a hotspot access can be defined with regard to download volume limitation per user or to a limited time period
Redirection to advertisement websites	The Public Spot user can be redirected to advertisement websites of the provider at configurable time intervals
Dynamic VLAN allocation	Allocation of Public Spot users to individually configurable networks
Idle timeout-based disconnect	Connection will be disconnected after x minutes without Internet access
Multi login	Allows Public Spot users to login to one hotspot account with multiple devices
*) Note	The R&S® LANCOM Public Spot XL Option is not suitable for the R&S® LANCOM WLC-4006(+). The R&S® LANCOM WLC-4006(+) is equipped with a R&S® LANCOM Public Spot Option ex factory, supporting up to 256 users.
***) Note	Measurement is based on a device role as a dedicated Public Spot gateway without NAT.
External data interfaces	
RADIUS server interface	By default the Public Spot records session-specific data for later billing on an internal RADIUS server. The forwarding to an external RADIUS server can be configured on a device with Public Spot, if required
SYSLOG	R&S® LANCOM devices are equipped with an integrated SYSLOG. Alternatively, R&S® LANCOM devices can be connected to external SYSLOG servers
XML	In order to provide further authentication szenarios apart from login with username and password, the R&S® LANCOM Public Spot solution can be connected to external servers via an XML interface
FIAS (optional)	Enables a direct communication between the R&S® LANCOM Public Spot and a Property Management System (PMS) which supports the FIAS protocol as supported by Micros Fidelio. The interface can only be operated in combination with the R&S® LANCOM Public Spot PMS Accounting Plus Option

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Security	
Support of HTTPS encryption for user authentication	Hotspot users are provided an encrypted login to the R&S® LANCOM Public Spot in order to effectively prevent Man-in-the-Middle attacks during login procedures. For this purpose, a signed certificate by a trusted certification authority must be imported into the device
Device and system requirements	
Required devices/software	<ul style="list-style-type: none"> ▶ R&S® LANCOM access point/WLAN router ▶ PC with web browser (optional – MAC, Windows, Linux) ▶ Network connection to Public Spot gateway ▶ Printer with connection to the PC (optional)
Configuration	
LANconfig/web interface	Manual configuration incl. expert settings via proprietary R&S® LANCOM configuration tool or web interface
Voucher wizard	With this wizard you can comfortably create vouchers with login credentials for the hotspot. The wizard can be started via a desktop shortcut.
Documentation	
Public Spot manual	Comprehensive manual for the configuration of R&S® LANCOM hotspots, including practical examples, available free-of-charge via www.rohde-schwarz.com/networks-and-cybersecurity
Item number(s)	
R&S® LANCOM Public Spot XL Option	61624
Two exemplary scenarios	

LANCOM Hotspot Solution with Central Site Gateway:

Exemplary scenario 1

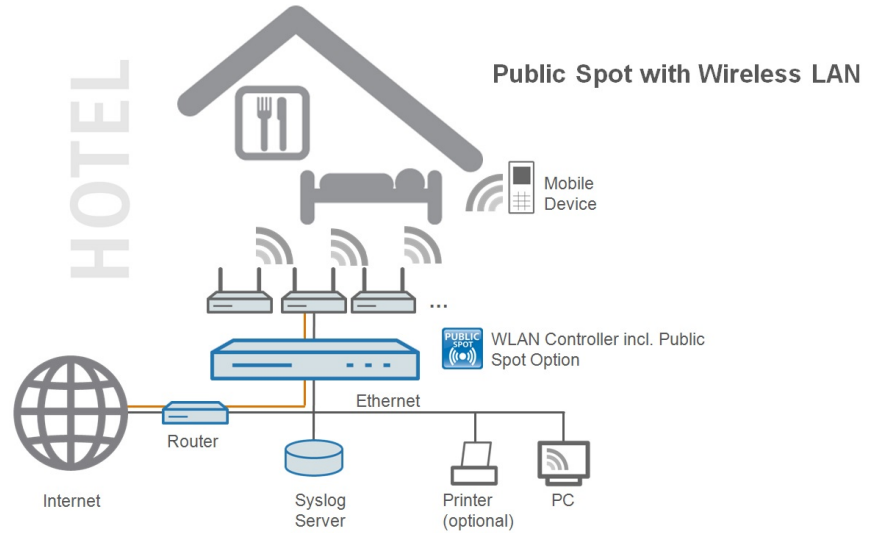


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Two exemplary scenarios

LANCOM Hotspot Solution with Controller:

Exemplary scenario 2



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