

# R&S®LANCOM Public Spot 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

# R&S®LANCOM Public Spot Option

## 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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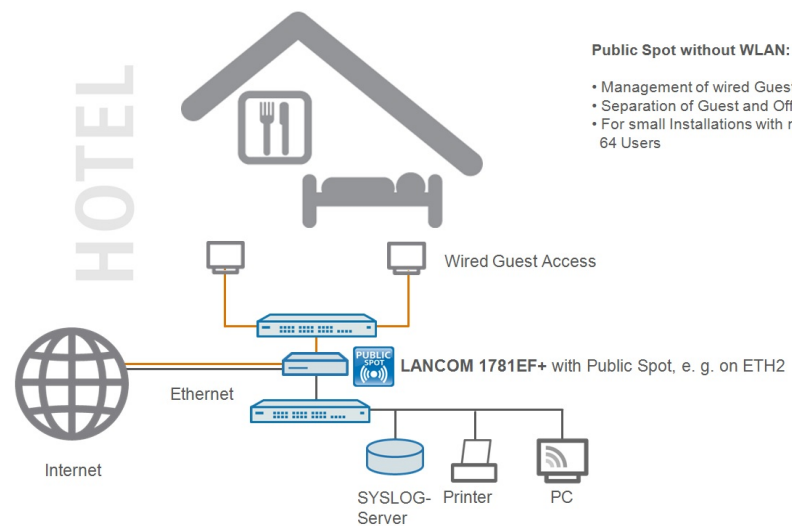
Technical details	
<b>Supported devices</b>	<ul style="list-style-type: none"> <li>▶ R&amp;S® LANCOM 1800 series</li> <li>▶ R&amp;S® LANCOM 1900-series</li> <li>▶ R&amp;S® LANCOM 2100EF</li> <li>▶ R&amp;S® LANCOM 17xx-series (as of LCOS 8.5)</li> <li>▶ R&amp;S® LANCOM 88x-series</li> <li>▶ R&amp;S® LANCOM IAP-5G</li> <li>▶ R&amp;S® LANCOM IGR-750EF-5G</li> <li>▶ R&amp;S® LANCOM access points</li> </ul>
<b>Number of supported users</b>	<ul style="list-style-type: none"> <li>▶ R&amp;S® LANCOM 1900 serie, R&amp;S® LANCOM 2100EF 256 simultaneously configured user accounts</li> <li>▶ R&amp;S® LANCOM 1800 series, R&amp;S® LANCOM 17xx series, R&amp;S® LANCOM 88x series 128 simultaneously configured user accounts</li> <li>▶ R&amp;S® LANCOM IAP-5G, R&amp;S® LANCOM IGR-750EF-5G, R&amp;S® LANCOM access points (as of LCOS 8.5) 64 simultaneously configured user accounts</li> </ul>
<b>Login via web portal (Captive Portal)</b>	Login to the hotspot after entry of username and password via a web portal (freely definable)
<b>Self-service login to the hotspot (Smart Ticket)</b>	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
<b>Voucher print</b>	With just a few mouseclicks tickets with login credentials for the hotspot can be generated and be printed with any office printer. The voucher can be individually designed.
<b>Easy Public Spot login with one click</b>	After accepting the terms of use, the user gets a WLAN guest access for a definable period
<b>WISPr</b>	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.
<b>Re-login</b>	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.
<b>MAC-based authentication</b>	Users can be authenticated for access to the Public Spot via their MAC address
<b>Walled Garden functionality</b>	Enables a free access to selected websites, even without activation of the guest access (e.g. sponsoring, corporate or hotel websites)
<b>Bandwidth management</b>	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
<b>Support of volume- and time-based accounts</b>	Validity of a hotspot access can be defined with regard to download volume limitation per user or to a limited time period
<b>Redirection to advertisement websites</b>	The Public Spot user can be redirected to advertisement websites of the provider at configurable time intervals
<b>Dynamic VLAN allocation</b>	Allocation of Public Spot users to individually configurable networks
<b>Idle timeout-based disconnect</b>	Connection will be disconnected after x minutes without Internet access
<b>Disconnection at WLAN logout</b>	Automatic logout from the hotspot if the client is no longer seen in the WLAN, function only available for WLAN devices
<b>Multi login</b>	Allows Public Spot users to login to one hotspot account with multiple devices
External data interfaces	
<b>RADIUS server interface</b>	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
<b>SYSLOG</b>	R&S® LANCOM devices are equipped with an integrated SYSLOG. Alternatively, R&S® LANCOM devices can be connected to external SYSLOG servers
<b>XML</b>	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

# R&S® LANCOM Public Spot Option

External data interfaces	
<b>FIAS (optional)</b>	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
Security	
<b>Support of HTTPS encryption for user authentication</b>	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	
<b>Required devices/software</b>	<ul style="list-style-type: none"> <li>▶ R&amp;S® LANCOM access point/WLAN router</li> <li>▶ PC with web browser (optional – MAC, Windows, Linux)</li> <li>▶ Network connection to Public Spot gateway</li> <li>▶ Printer with connection to the PC (optional)</li> </ul>
Configuration	
<b>LANconfig/web interface</b>	Manual configuration incl. expert settings via proprietary R&S® LANCOM configuration tool or web interface
<b>Voucher wizard</b>	With this wizard you can comfortably create vouchers with login credentials for the hotspot. The wizard can be started via a desktop shortcut.
Documentation	
<b>Public Spot manual</b>	Comprehensive manual for the configuration of R&S® LANCOM hotspots, including practical examples, available free-of-charge via <a href="http://www.rohde-schwarz.com/networks-and-cybersecurity">www.rohde-schwarz.com/networks-and-cybersecurity</a>
Item number(s)	
<b>R&amp;S® LANCOM Public Spot Option</b>	60642
<b>R&amp;S® LANCOM Public Spot Option (10 bulk)</b>	61312
Two exemplary scenarios	

## LANCOM Hotspot Solution (wired)

Exemplary scenario 1

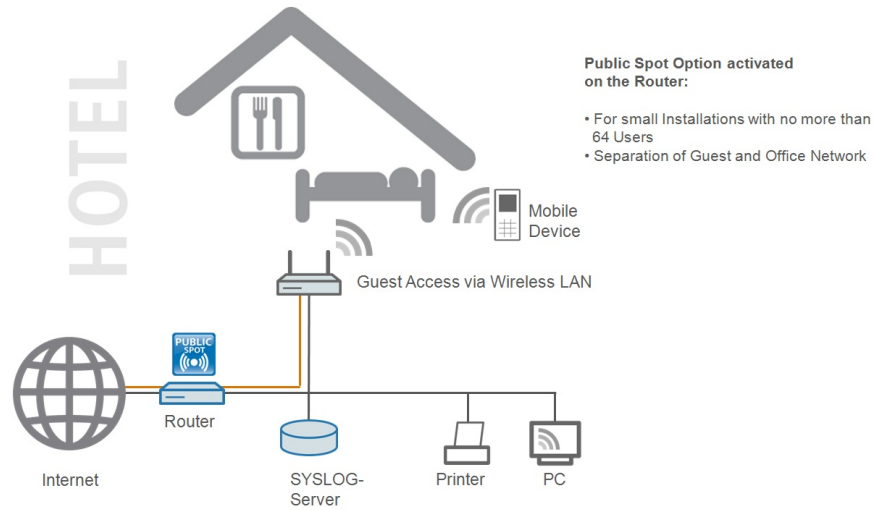


# R&S® LANCOM Public Spot Option

Two exemplary scenarios

## LANCOM Hotspot Solution with Wireless LAN

Exemplary scenario 2



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