



EKSELANS BY ITS

# HOTSPOT BY EK

PROFESSIONAL  
CAPTIVE PORTAL AND  
WIFI NETWORK AUDIT



ENTER THE EK WORLD



## PROFESSIONAL CAPTIVE PORTAL AND WIFI NETWORK AUDIT

The professional Ekselans by ITS HotSpot has been designed for installation in business and hotel environments, as well as in any public WiFi network where user authentication and activity registration are required.

Through a simple configuration, the installer is able to define all the necessary parameters to offer various methods of accreditation in WiFi networks (direct registration, email with verification check, tickets with pre-defined passwords, social networks, ...). Likewise, the system allows to define user profiles for assignment of times and connection speed.

In addition to the captive portal, the HotSpot by EK offers a powerful network audit system that allows analyzing internet consumption statistics by connection and user, as well as registering and storing the activity of the different users connected to the WiFi network (device identification, visited domains, connection times, ...), all in strict compliance with the new regulation

### Captive portal

- Simple configuration of the welcome page
- Various access systems: direct registration, tickets with personalized passwords, social networks (Facebook)
- Possibility of defining fields for the access form (name, nationality, room, email, ...)
- Access functionality with email verification system
- Definition of bandwidth and maximum connection time per session
- Creation of websites whitelists
- Possibility of connection to ticket printer for passwords

### Network audit and activity registration

- Activity log of users connected to the WiFi network
- Internal storage of important information such as devices MAC addresses, visited domains, connection times to each domain,...
- Usage statistics of internet resources per user
- Possibility of defining an external cloud back-up (Dropbox, Google Drive, ...)

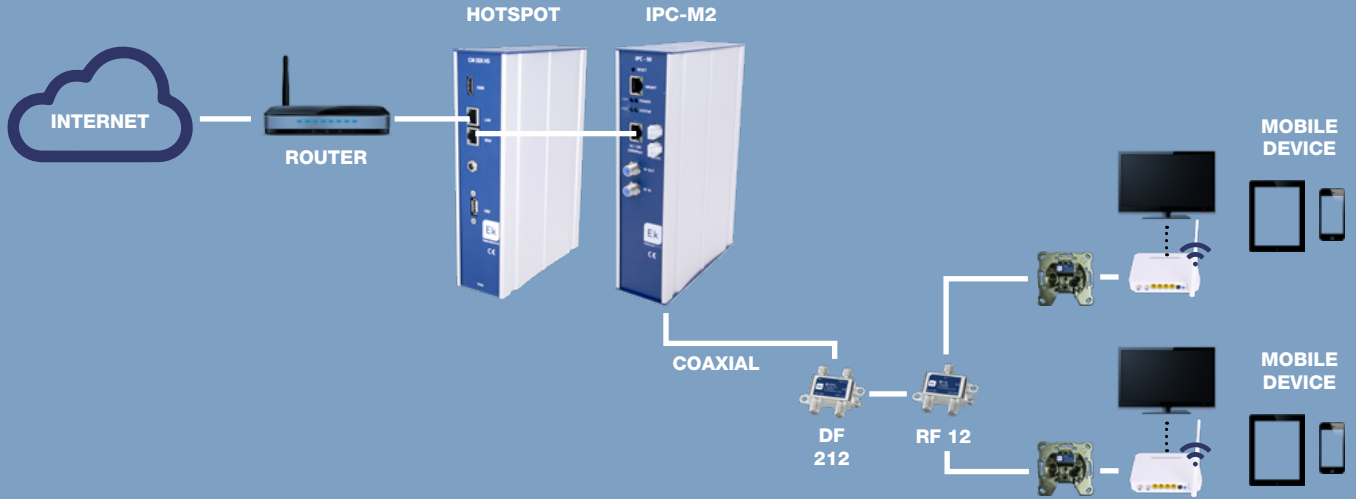




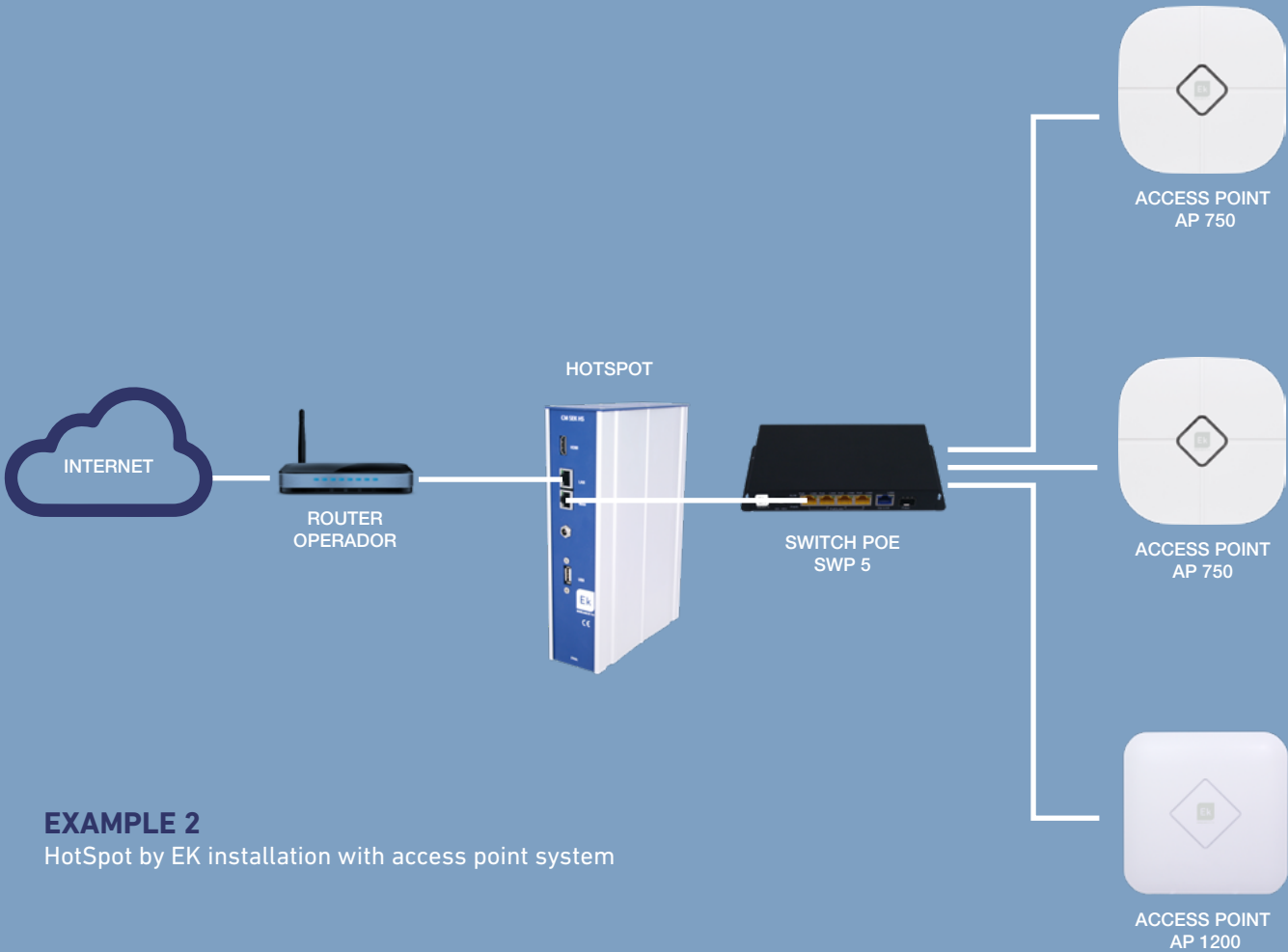
## HOTSPOT by EK

REFERENCE	CM HS
Code	280024
<b>Hardware</b>	
Ethernet interface	Uplink 1 x 10 / 100 / 1000 Mbps RJ45 LAN 1 x 10 / 100 / 1000 Mbps RJ45
HDMI interface	1 x HDMI 1080p
USB interface	1 x USB 2.0
Storage capacity	120 GB SSD
Power supply	DC5V / 2.5A
Compatible power supplies	FA 55 (082010). Plug-in power supply. FA 524 (082009). Modular power supply compatible with EKOAX and CM Headend
<b>General</b>	
Working temperature	-20°C / 45°C
Dimensions	55 mm x 220 mm x 116 mm
Consumption	Max. 12 W
<b>Software</b>	
Programming	Web interface
Assign users and access	- Tickets - Login and password - Direct register - Social networks
Bandwidth limitation	Yes
Creation of different type of users	Customer profiles
DHCP server	Yes
System capacity	More than 400 simultaneous users / No limit of registered users
Activity log	Full audit and registration per user of: -Device MAC address -User name -Assigned IP -Visited domains -Start and end time of each domain visited
Statistics	Activity log / network consumption per user

# INSTALLATION EXAMPLE

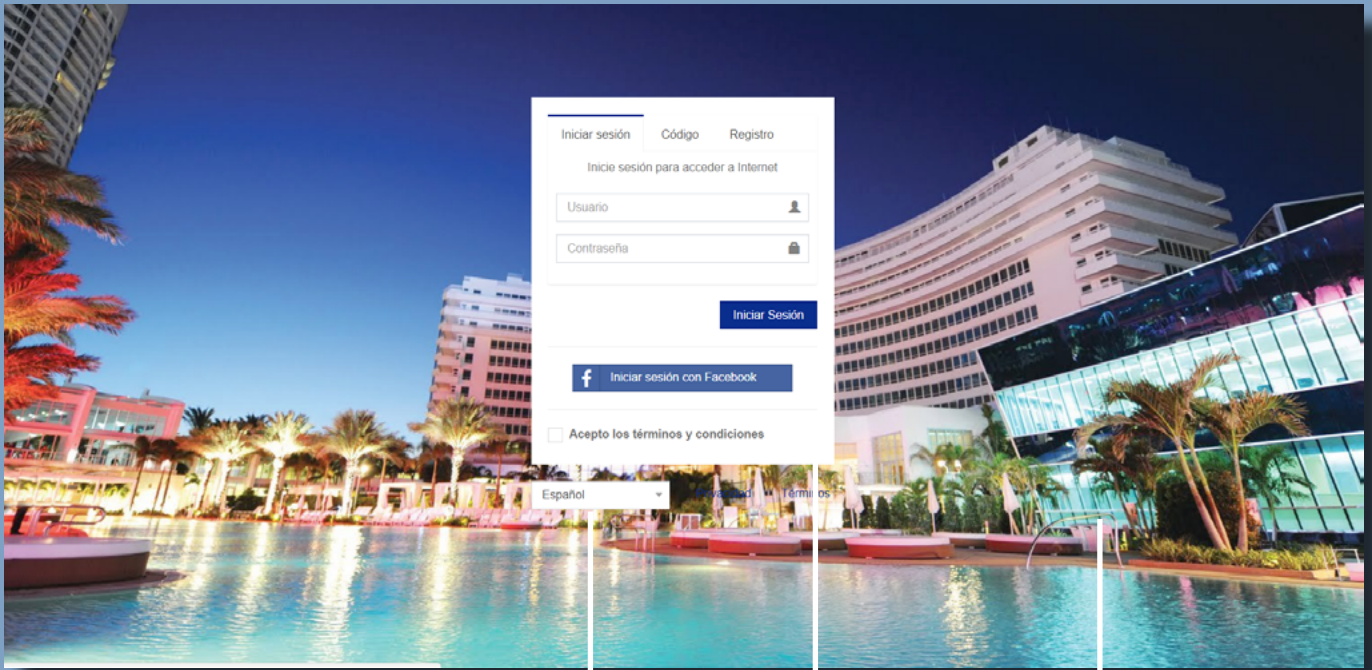


**EXAMPLE 1**  
HotSpot by EK installation with EKOAX system (internet over coax)



**EXAMPLE 2**  
HotSpot by EK installation with access point system

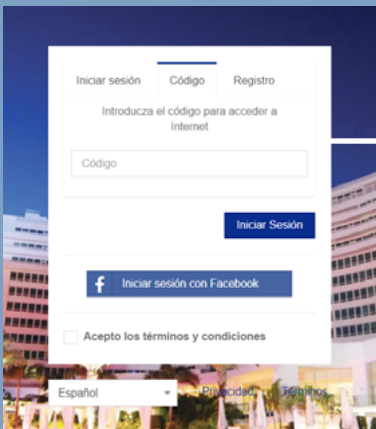
# 1. Example of the welcome page (Captive portal)



language selection

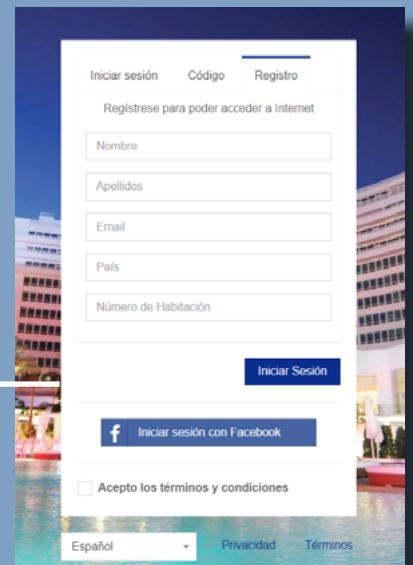
login form using user and password

customizable background

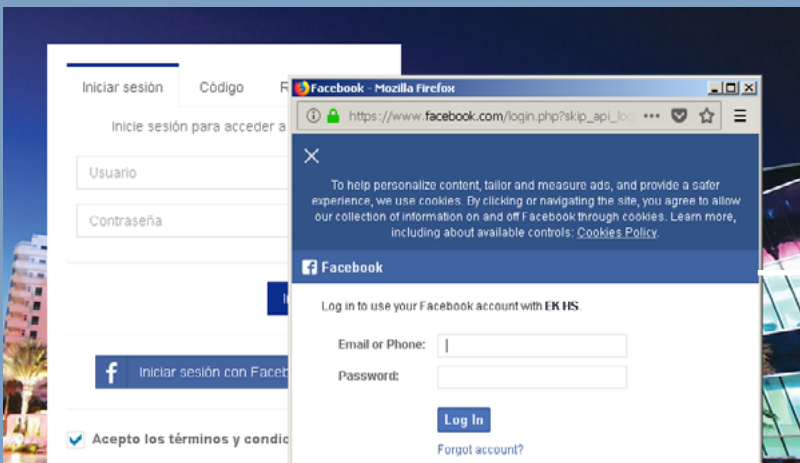


login using access code (Ticket)

login using user registration (customizable fields)



login using social networks (Facebook)



## 2. HotSpot manager. Captive portal internal configuration page

**HotspotManager** admin English

**MANAGEMENT**

- Users

**HOTSPOT**

- Main Configuration
- Email Server Config
- Edit main network conf.
- Edit hotspot network conf.

**Profiles**

- Users
- Status
- Statistics

### Main Configuration

**Status**

Hotspot Running

Stop Hotspot Reboot System Shutdown System

**Network Configuration**

Main Network		Hotspot Network	
Mode: Manual	Netmask: 255.255.0.0	Network: 10.1.0.0	Netmask: 255.255.255.0
Network: 192.168.0.5	IP Address: 192.168.0.244	IP Address: 10.1.0.1	
Gateway: 192.168.0.5	Secondary DNS Server:	Address Pool Start for DHCP:	Address Pool End for DHCP:
Main DNS Server: 8.8.8.8		Main DNS Server: 208.67.222.222	Secondary DNS Server: 208.67.220.220

**Main Configuration**

Hotspot Name: Hotspot by EK

Idle Session Timeout (sec): 300

Default Language: Español

Use Hotspot Url

**Look and Feel**

Main Color: #072584

Show Name

Show Logo

Show Background Image

Show Prelogin Page

Edit Prelogin Page

**Access Mode**

Access with User and Password

Access with Ticket

Access with Facebook

Facebook Application Id

Access with registration

**Registration Configuration**

Basic Registration

Verified Registration (E-mail)

## 3. HotSpot manager. Creation of user profiles

**HotspotManager** admin English

**MANAGEMENT**

- Users

**HOTSPOT**

- Main Configuration
- Profiles
- Create Profile
- Delete Profile

**Users**

- Status
- Statistics

### Profiles

Id	Name	Duration (sec)	Max Upload Bandwidth	Max Download Bandwidth	Max Traffic	Start Date	End Date
1	Basico	-	2 Kb/s	2 Kb/s	1 GB	2018-02-22 00:00:00	2018-05-30 00:00:00
2	Avanzado	-	10 Mb/s	10 Mb/s	10 GB	2018-03-23 00:00:00	2018-05-01 00:00:00
3	VIP	-	5 Mb/s	5 Mb/s	20 GB	2018-04-27 00:00:00	2018-04-27 00:00:00

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## 4. Captive portal. Users management

The screenshot shows the 'Usuarios' (Users) management page in HotspotManager. The interface includes a sidebar with navigation options like 'ADMINISTRACIÓN', 'PUNTO DE ACCESO', and 'Usuarios'. The main area displays a table of users with columns for Id, Nombre, Apellidos, Nombre de usuario, E-mail, Ticket, and Perfil. A form on the right allows for user profile details such as 'Dirección', 'País', 'Teléfono', and 'Número de Habitación'.

Id	Nombre	Apellidos	Nombre de usuario	E-mail	Ticket	Perfil
9	victor	abrate	abrate	victor.abrate@gmail.com	8882944524	Avanzado
10	Autogenerated User					
11	kaka	vaca	kaka7090	amelendez@bc-techs.com	3187856235	Basico
12	1234	kaka	12342338		8153643895	Basico
13	43ret	wertwer	43ret1628		0335127049	Basico
14	lol	lol123	lol9741	victor.abrate@gmail.com	6821372037	Basico
15	lol123456	kakaka	lol1234562880	victor.abrate@bits-partner.com	9787074312	Basico
16	lol12344543	jjjj	lol123445430592	victor.abrate@paco.com	0799140197	Basico
17	Victor	Abrate	Victor5432	victor.abrate@gmail.com	7706910753	Basico
18	Autogenerated User					
19	Autogenerated User					
20	Autogenerated User					
21	Autogenerated User					
22	Autogenerated User					

## 5. Network audit. Statistical analysis of network consumption

The screenshot shows the 'Status' page in HotspotManager. It features a 'Historic' graph for network consumption, which is currently empty. Below the graph are 'Zoom Reset' and 'Clear Graph' buttons. The 'Connected Users' section displays a table with columns for Id, Username, Profile, IP Address, Mac Address, Session Start, Received Bytes, and Sent Bytes.

Id	Username	Profile	IP Address	Mac Address	Session Start	Received Bytes	Sent Bytes
9	abrate	Avanzado	10.1.0.2	00-0F-00-45-E3-81	2018-05-09 09:21:28	78.8 KB	33.9 KB

## 6. Network audit. Statistical analysis of network consumption filtered by user.

Ek HotspotManager admin English

MANAGEMENT

Users

HOTSPOT

Main Configuration

Profiles

Users

Status

Statistics

Generate Statistics Report

Manage Database Backups

### Statistics

Statistics Filter

Date: 2018-05-07 00:00:00 - 2018-05-09 09:23:00

Uri: ALL

Username: ALL

Profiles: ALL

IP Address: ALL

Mac Address: ALL

Set Filter Clear Filter

Username	Profile	IP Address	Mac Address	Session Start	Session Stop	Received Bytes	Sent Bytes
abrate	Avanzado	10.1.0.2	00-0f-00-45-e3-81	2018-05-09 09:21:28	-	78.8 KB	33.9 KB

## 7. Network audit. Users activity log register.

Ek HotspotManager admin Español

ADMINISTRACIÓN

Usuarios

PUNTO DE ACCESO

Configuración principal

Perfiles

Usuarios

Estado

Estadísticas

Gen. Informe de Estadísticas

Gestionar Copias de Seguridad

### Estadísticas

Filtrar estadísticas

Fecha: 2018-05-07 00:00:00 - 2018-05-09 09:24:00

Uri: Todos

Nombre de usuario: Todos

Perfiles: Todos

Dirección IP: Todos

Dirección Mac: Todos

Establecer Filtro Quitar Filtro

Nombre de usuario	Perfil	Dirección IP	Dirección Mac	Inicio de sesión	Final de sesión	Bytes recibidos	Bytes enviados
abrate	Avanzado	10.1.0.2	00-0f-00-45-e3-81	2018-05-09 09:21:28	-	142.8 KB	49.7 KB



## 8. Network audit. Access to the log activity files.

Filename	Creation Date	S...
database_backup_2018022409250...	2018-02-24 09:25:01	11.4 KB
database_backup_2018022509250...	2018-02-25 09:25:01	1.0 KB
database_backup_2018022609250...	2018-02-26 09:25:00	1.0 KB
database_backup_2018022709250...	2018-02-27 09:25:00	1.0 KB



**EKSELANS BY ITS**

ITS Partner O.B.S. S.L  
Av. Corts Catalanes 9-11  
08173 Sant Cugat del Vallès  
Barcelona (Spain)  
Tel: +34 935839543  
info@ekselansbyits.com  
[www.ekselansbyits.com](http://www.ekselansbyits.com)