

USER MANUAL

EK CAST MINI 280055

Chromecast devices management miniserver for a maximum of 25 users (L CAST management system included).

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USER MANUAL EK CAST MINI

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Introduction.

Description.

Chromecast[™] devices management mini server for a maximum of 25 users (L CAST management system included).

EK CAST enhances the multimedia entertainment experience of guests in the hotel room, allowing them to enjoy both their own multimedia content and their streaming providers on the television.

Main features.

- Flexible configuration of the guest user interface shown on the television which allows to configure logos, colours, background, weather information and pictures carrousel with customized text messages as a digital signage system.
- Configuration of the maximum number of users which can be linked to the same Chromecast™ device.
- Configuration of the terms and privacy policy.
- Configuration of domain and HTTPS
- Automatic and manual detection of new Chromecast™ devices in the network.
- Status monitoring of Chromecast[™] devices.
- Remote activation and deactivation of Chromecast™ devices.
- Option to unlink user devices from the Chromecast™.
- Option to arrange the Chromecast[™] devices by groups.
- Real-time information about the number of users connected to each Chromecast™ device, about the contents which the guests are reproducing and the loaded applications.
- Usage report generation of last 7 days in PDF format.
- Exportation of raw data in CSV or XLS format for subsequent analysis for marketing purposes.

Contents.

- 1. 1 X EK CAST MINI.
- 2. 1 x 5Vdc 6A power supply.

Interfaces, connection and access to the equipment.

Interfaces.

HDMI port: it is not useful for the user. It 1. only must be used by TAS. 2. ETH1 port: LAN port to be connected to the Chromecast[™] network. 3. ETH2 port: WAN port to be connected to the Internet output. C+ MINI 4. USB port: it is not useful for the user. It only must be used by TAS. 5. 5Vdc power connector: it is used to power the equipment. 6. Reset: Used to reset the equipment. It should be only used in case of malfunction of the equipment. 7. SD: Without use.



Connection.

It is mandatory, in order to install the EK CAST service correctly, to take into account that the network must be ready to manage the mDNS traffic properly and not block it.

The WAN port (ETH2) should be connected to the main network with Internet connection. The LAN port (ETH1) should be connected to the network where the Chromecast[™] devices will be connected. The main network and the Chromecast[™] network must be completely separated by means of two VLANs with the following requirements:

- The first VLAN (VLAN BB in the below picture) could be the native VLAN, it should be available in the WAN port of the equipment, and it must have Internet connection. It is also needed a DHCP server in this VLAN which will provide IPs to all the devices of the guests (PCs, tablets and mobile phones).
- The second VLAN (VLAN AA in the below picture) should be available in the LAN port of the equipment. It is also needed a DHCP server in this VLAN (the equipment is able to work as a DHCP server) and it must have Internet connection; this DHCP server will provide IPs to all Chromecast[™] devices managed by the EK CAST. Only the Chromecast[™] devices should connect to this VLAN.



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Access to the equipment

1. Connect the ethernet port of the PC which will be used to configure the EK CAST MINI with the WAN port of the EK CAST MINI. In the back of the EK CAST MINI there is a sticker with its IP address, usually 172.16.5.209. Configure the PC network adapter with a static IP in the subnet that the EK CAST MINI, for example 172.16.5.10. This step can also be done connecting the PC in the same switch which the EK CAST MINI is connected to; both the PC and the EK CAST MINI should be connected to ports assigned to the same untagged VLAN.

Internet Pr	otocol Version 4 (TCP/I	Pv4) Properties	×
General			
You can this capa for the a	get IP settings assigned a bility. Otherwise, you ne ppropriate IP settings.	automatically if your network supports ed to ask your network administrator	
Oob	ain an IP address autom	atically	
Use	the following IP address		
IP add	ress:	172 . 16 . 5 . 10	
Subne	t mask:	255.255.255.0	
Defau	It gateway:		
Ob	tain DNS server address a	automatically	
O Use	the following DNS server	r addresses:	
Prefe	red DNS server:		
Altern	ate DNS server:		
Va	lidate settings upon exit	Advanced	
		OK Cancel	1

 Open the EK CAST MINI assigned IP address adding the port number 9090 in a web browser. For example, if the EK CAST MINI address is 172.16.5.209 the URL to write in the browser will be http://172.16.5.209;9090.

EKSELANS	K BY ITS
EK NetworkC	Configurato
Sign in to get access t	to Internet service
User	1
Password	a
English	•

3. Enter the default user and password: admin / password



Equipment configuration

An IP address in the WAN interface of the EK CAST MINI must be configure within the main network. This will allow the access to the server from the main network and the remote update of the equipment. EK CAST MINI must have an internet connection to work properly.

Once logged in the equipment, the following screen will be shown:

EKNetworkConfigurator	= 1	(2	admin - 3 English - V3.1
o€ Settings 6 ✓ O Edit Network Config	Running 3		i i i i i i i i i i i i i i i i i i i
Reboot System Shutdown System Network Restart	Serial Number Serial Number:		-
	Actions 6		
	Reboot System Shutdown System	Network Restart	
	Network Configuration 3		-
	IP Address: 192,168,20,26 Netmask: 255,255,255,0 Main DNS Servert 8,8,8,8	Gateway: 192.158.20.254 Secondary DNS Server: 8.8.4.4	
	Copyright © 2020 ITS Partner (0.8.5) 5.1 All rights reserved.		

- 1. Drop down button: it allows to show or to hide the settings in the left menu.
- 2. **User**: user used to login in the current session. It is important not to lose the password because only the "admin" user can change the password of all the users.
- 3. Language: current language selected for the Network Configurator user interface manager.
- 4. Version: current version of the Network Configurator tool.
- 5. **Status**: it shown the EK CAST MINI status. When the status is "Running" it means the EK CAST MINI is running perfectly; if another status is shown, connection and network configuration should be reviewed.
- 6. Settings:
 - Edit Network Config: it allows to set the network configuration parameters.
 - **Reboot System:** it reboots the equipment.
 - Shutdown System: it switches off the EK CAST mini gracefully. This is the correct way to switch off the equipment.
 - Network restart: it restarts the network ports.
- 7. Serial number: Serial number or license number assigned to the equipment.
- 8. Actions: Direct access to the operations available in the Settings menu.

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- 9. **Network Configuration**: it shows the current network configuration. In order to configure the equipment to work in a network, the next steps should be followed:
 - 1. Select "Edit Network Config" in the left menu.

EKNetworkConfigurator	≡	admin 👻	English 🗸	V3.1
C Edit Network Config	Running			
O Reboot System O Shutdown System	Serial Number			-
Network nestart	Actions			-
	Reboot System Shutdown System Network Restart			
	Network Configuration			-
	Mode: Kanual IP Address: 152.168.20.26 Gateway: 192.168.20.25 Netmask: 252.552.52.50 Gateway: 192.168.20.254 Main DNS Server: 8.8.8 Secondary DNS Server: 8.4.4			

2. Configure an IP inside the local network, with the right subnet mask and gateway in order to provide Internet connection to the equipment. Once all these parameters are configured, press the Save button to save configuration. The following picture is just an example, the parameter values should be adapted to each local network configuration.

Network Configuration	×
Manual	
IP Address	
192.168.20.26	
Netmask	Gateway
255.255.255.0 2	192.168.20.254 3
Main DNS Server	Secondary DNS Server
8.8.8	8.8.4.4
Save 4	Cancel

3. Accept configuration



① 192.168.10.26:9090

A wrong network configuration can cause the system to be unnacesible. Do you want to proceed with the changes?



4. Once configured the network parameters of EK CAST MINI, connect PC again to the main network enabling DHCP or setting manually the previous IP address, netmask and gateway. Then, connect the EK CAST MINI WAN port to the main network. Now the EK CAST MINI will be accessible through the IP address configured in step 2.

If the configuration is properly done, after some minutes, on the main window, the "Running" word and the green colour will be shown in the Status area.

EKNetworkConfigurator	≡	admin 🔻	English	~	V3.1
♥\$ Settings ✓ ● Edit Network Config	Running				
 Reboot System Shutdown System Network Restart 	Serial Number Serial Number				-
	Actions				-
	Reboot System Shutdown System Network Restart				
	Network Configuration				-
	Mode: Manual IP Address: 192.168.20.26 Netmask: 255.255.255.0 Gateway: 192.168.20.254 Main DNS Server: 8.8.8 Secondary DNS Server: 8.8.4.4				
	Copyright © 2020 ITS Partner (0.B.S) S.L., All rights reserved.				

Access to the configuration interface and general view.

Access to the configuration interface

After the system is properly configured and running, it is possible to access to the configuration interface of the EK CAST MINI in the URL https://configured_lps/manager. For example, <a href="https://transform.com/htt

	EKSELANS EVITS	
	EK Cast	
	Sign in to start your session	1
User		£
Password		-
English		
		Sign In

User: admin Password: Admin123.



Main Information.

It includes all the information related to the CPU, memory, network bandwidth, logged user, language and SW version which is shown on the top of the main window.

Ek EKCast	= 1	Aem: 40.3% Cpu: 1.8%	Network Sent: 10.0 Kbps admin - English - Engl
MANAGEMENT	Main Configuration	2 3	4 5 6
≢ Device Settings <			
🚢 Users 🔹 🔇	Enable captcha at login	Look and Feel	Banner and Widgets
CAST MANAGER	Site name	Default Language	Weather information
📽 Main Configuration	Ek Cast	English	✓ Image Slider
🖨 Devices <	Max. simultaneous paired users	Main Color	Coypright
🗠 Statistics 🔇	5		Copyright © 2021 ITS
	Enable automatic daily unpair	Text Color	Partner (O.B.S) S.L. All rights reserved.
	Time	#11111	
	16:37:00 (3)	Show Name	
		Show Logo	
	Ticket Type	Background Color #d9dadb	
	Numeric Alphanumeric	Background Image	
	Ticket Length		
	6		
	Terms and Privacy	Ek 🔤 🚎	
	Edit Terms Edit Privacy	EKSELANS BY ITS	
		Change Logo Change Icon Change Bg Image	
			Save
	Copyright © 2021 ITS Partner (O.B.S) S.L. All rights reserved.		

- 1. Drop down button: it allows to show or to hide the left menu.
- 2. Mem: it shows the current memory used by the system.
- 3. CPU: it shows the total CPU load and the load of each core.
- 4. Network: it shows the current network traffic.
- 5. Admin: this menu shows the current version of EK CAST MINI and allows to modify the password of the current user and to logout.

Network Sent: 6.3 Kbps Recv: 4.2 Kbps		admin 🔻
	V1.3.4	

6. Language: it allows to select the language used in the EK CAST MINI user interface manager.

Management.

It is possible to modify the network configuration of EK CAST MINI, the users who can access to the manager and the permissions of them.

Device settings.

When **Device settings** is select in the left menu, the WAN and LAN general information of the EK CAST MINI is shown on the main window. In the **Device settings** menu the following submenus are available:

- Edit WAN Network Config: it allows to modify the WAN network configuration.
- Edit LAN Network Config: it allows to modify the LAN network configuration.
- Domain and local DNS server: it allows to configure a domain and to use the device as a DNS server.
- **Reboot System**: it allows to reboot the EK CAST MINI device.
- Shutdown System: it allows to shutdown the EK CAST MINI gracefully.

Ek	EK Cast	≡	Mem: 38.9%	Cpu: 2%		Network	Sent: 3.9 Kbps Recv: 480 bps	admin 🔻	English 🔻
MANAGEMEN	er	Device Settings							
O Edit W/	AN Network Config	Actions 1	2						-
O Edit LA O Domain	AN Network Config In and Local DNS Server	Reboot System	Shutdown System						
O Https C O Reboot	Configuration It System	Network Configuration							-
O Shutdo	own System	WAN Network		LAN Net	work				7
CAST MANAG	SER	Mode: Manual IP Address: 192.168.10.26		Mode: N	Manual ress: 192.168.20.26				
Se Main Co		Netmask: 255.255.255.0 Main DNS Server: 8.8.8.8	Gateway: 192.168.10.254 Secondary DNS Server: 8.8.4.4	Netmas Main DI	sk: 255.255.255.0 NS Server: 8.8.8.8	Gate	way: 192.168.20.254 ondary DNS Server: 8	.8.4.4	
🖿 Statisti		Disable access to EKCast manager from WAN Netw	ork: No						
		DHCP Server: Enabled Address Pool Start for DHCP: 192.168.10.40 Gateway: 192.168.10.254 Main DNS Server: 192.168.10.26	Address Pool End for DHCP: 192.168.10.254 Secondary DNS Server: 8.8.4.4	DHCP S Addres: Gatewa Main DI	erver: Enabled s Pool Start for DHCP: 192.168.20.5 ny: 192.168.20.254 NS Server: 8.8.8.8	0 Add Seco	ress Pool End for DHG ondary DNS Server: 8	CP: 192.168.20.25	0
		Domain Url: ekcast.cc local DNS server: Enabled Use Https Connection: Disabled							
		Copyright © 2021 ITS Partner (O.B.S) S.L. All rights rese	rved.						

- 1. Reboot System: this button reboots the EK CAST MINI equipment.
- 2. **Shutdown System:** this button switches off the EK CAST MINI equipment gracefully. It is strongly recommended to use always this button to shutdown the equipment.
- 3. WAN network: this area shows all the WAN network configuration.
- 4. LAN network: this area shows all the LAN network configuration.



Edit WAN network configuration

This is the same network configuration set with the Network Configuration tool (via the port 9090) which can also be reconfigured through this menu.

Ek EKCast		Mem: 39.7%	Cou: 1.4%	· •	Sent: 4.2 Kbps admin - English - English -
	Device Settings	Network Configuration	×		·
≢ Device Settings 🗸 🗸	Device Settings				
O Edit WAN Network Config	Actions	WAN Network			
O Edit LAN Network Config	Reboot System	Automatic (DHCP)	• Manual		
O Domain and Local DNS Server					
Https Configuration	Network Configuration	IP Address	Netmask		
O Shutdown System		192.168.10.26	255.255.255.0		
191 11	WAN Network	Gateway 2			
New USEIS	Mode: Manual	192.168.10.254			
CAST MANAGER	IP Address: 192.168.10.26	Main DNS Server	Secondary DNS Server	;	
🕸 Main Configuration	Netmask: 255.255.255.0	8.8.8.8	8.8.4.4		Gateway: 192.168.20.254
🖨 Devices 📢					
	Disable access to EKCast manager from WAN	DHCP Server			
🛍 Statistics 🛛 🔇		Address Pool Start for DHCP	Address Pool End for DHCP		
	DHCP Server: Enabled	192.168.10.40	192.168.10.254	CD: 192 168 20 50	Addrore Dool End for DHCD: 193-168-30-360
	Address Pool Start for DHCP: 192.168.10.40 Gateway: 192.168.10.254	Gateway		CF. 152.108.20.50	Autress Pool End for Biter, 152,108,20,250
	Main DNS Server: 192.168.10.26	192.168.10.254	Secondary DNS Server		Secondary DNS Server: 8.8.4.4
		102 168 10 26	9 9 4 4		
	Domain Url: ekcast.cc	192.106.10.20	0.0.4.4		
	local DNS server: Enabled				
	Use Https Connection: Disabled	Disable access to EKCast manager from WA	N Network		
		Save	Cancel		
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- 1. Connection mode.
 - Automatic (DHCP): EK CAST MINI will get all the IP configuration from a DHCP server.
 - Manual: All the IP configuration must be configured manually.
- 2. Network parameters:
 - o IP Address: the IP address of the EK CAST MINI through the WAN port.
 - Netmask: the subnet mask of the EK CAST MINI in the WAN port.
 - o Gateway: the EK CAST MINI gateway in the WAN port.
 - Main DNS Server: the main domain name system server to be used through the WAN port.
 - Secondary DNS Server: the secondary domain name system server through the WAN port.
- 3. DHCP server: if it is enabled (ticked) the EK CAST MINI will work as a DHCP server and the following parameters can be configured:
 - Address Pool Start for DHCP: the first IP address which will be assigned by the DHCP server.
 - Address Poll End for DHCP: the last IP address which will be assigned by the DHCP server.
 - **Gateway:** the gateway to be configured in the devices which will receive an IP address by the DHCP server.
 - Main DNS Server: the main domain name system server which will be configure in the devices which will receive an IP address by the DHCP server.
 - Secondary DNS Server: the secondary domain name system server which will be configure in the devices which will receive an IP address by the DHCP server.



4. Disable access to EKCast manager from WAN Network: if it is ticked, the access to the EK CAST MINI from the WAN interface is blocked. To enable this option is recommended for security reasons.

Edit LAN network configuration

This is the network configuration which will be used in the network where the Chromecast™ devices will be connected.

EK EKCast	≡ .	Mem: 39.7%	Cnu: 1.6%	N	etwork Sent: 4.2 Kbps admin ▼ English ▼ English ▼
MANAGEMENT	Device Settings	Network Configuration	×		
E Device Settings ✓ C Edit WAN Network Config	Actions	LAN Network			
 C Edit LAN Network Config Domain and Local DNS Server 	Reboot System	Automatic (DHCP)	Manual		
 Https Configuration Reboot System 	Network Configuration	IP Address	Netmask		
O Shutdown System	WAN Network	192.168.20.26	255.255.255.0		
🚢 Users 🛛 ⊀	Mode: Manual	192.168.20.254	2		
CAST MANAGER	IP Address: 192.168.10.26	Main DNS Server	Secondary DNS Server	,	
🕸 Main Configuration	Netmask: 255.255.255.0 Main DNS Server: 8.8.8.8	8.8.8.8	8.8.4.4		Gateway: 192.168.20.254 Secondary DNS Server: 8.8.4.4
🖨 Devices 🛛 ≮	Disable access to EKCast manager from WAN	DHCP Server			
🛍 Statistics <		Address Pool Start for DHCP	Address Pool End for DHCP		
	DHCP Server: Enabled	192.168.20.50	192.168.20.250		
	Address Pool Start for DHCP: 192.168.10.40	Gateway		CP: 192.168.20.50	Address Pool End for DHCP: 192.168.20.250
	Main DNS Server: 192.168.10.26	192.168.20.254			Secondary DNS Server: 8.8.4.4
			8 8 4 4		
	Domain Url: ekcast.cc	0.0.0.0	0.0.4.4		
	local DNS server: Enabled Use Https Connection: Disabled	Save	Cancel		
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- 1. Connection mode.
 - Automatic (DHCP): EK CAST MINI will get all the IP configuration from a DHCP server.
 - Manual: All the IP configuration must be configured manually.
- 2. Network parameters:
 - o IP Address: the IP address of the EK CAST MINI through the LAN port.
 - Netmask: the subnet mask of the EK CAST MINI in the LAN port.
 - o Gateway: the EK CAST MINI gateway in the LAN port.
 - o Main DNS Server: the main domain name system server through the LAN port.
 - Secondary DNS Server: the secondary domain name system server through the LAN ort.
- 3. DHCP server: if it is enabled (ticked) the EK CAST MINI will work as a DHCP server for the Chromecast[™] devices network and the following parameters can be configured:
 - Address Pool Start for DHCP: the first IP address which will be assigned by the DHCP server.
 - Address Poll End for DHCP: the last IP address which will be assigned by the DHCP server.
 - Gateway: the gateway to be configured in the Chromecast™ devices which will receive an IP address by the DHCP server.
 - Main DNS Server: the main domain name system server which will be configure in the Chromecast™ devices which will receive an IP address by the DHCP server.
 - Secondary DNS Server: the secondary domain name system server which will be configure in the Chromecast[™] devices which will receive an IP address by the DHCP server.



Domain and local DNS server

Through this menu, it is possible to configure an URL, instead of an IP, to access the EK CAST MINI web front-end and to link the guests' devices to the Chromecast™ devices. This URL will appear on the televisions once the Chromecast™ devices have been added and enabled. If this URL is not configured, the EK CAST MINI IP address will be shown instead.

Ek EKCast	≡	Mem: 39.8%	Сри: 2.2%	Network Sent: 4.2 Kbps admin English English
MANAGEMENT	Device Settings	Domain and Local DNS Server	×	
幸 Device Settings v O Edit WAN Network Config	Actions	Use domain name instead of 1p Address		
O Edit LAN Network Config O Domain and Local DNS Server	Reboot System	2		
O Https Configuration O Reboot System	Network Configuration	Save	Cancel	
O Shutdown System	WAN Network			
CAST MANAGER	Mode: Manual IP Address: 192.168.10.26		Mode: Manual IP Address: 192.168.20.26	
🕰 Main Configuration	Main DNS Server: 8.8.8.8	Secondary DNS Server: 8.8.4.4	Main DNS Server: 8.8.8.8	Secondary DNS Server: 8.8.4.4
Devices <	Disable access to EKCast manager from WAN	I Network: No		
	DHCP Server: Enabled Address Pool Start for DHCP: 192.168.10.40 Gateway: 192.168.10.254 Main DNS Server: 192.168.10.26	Address Pool End for DHCP: 192.168.10.254 Secondary DHS Server: 8.8.4.4	DHCP Server: Enabled Address Pool Start for DHCP: 192.168.20.50 Gateway: 192.168.20.254 Main DNS Server: 8.3.8.8	Address Pool End for DHCP: 192.168.20.250 Secondary DNS Server: 8.8.4.4
	Domain Url: ekcast.cc local DNS server: Enabled Use Https Connection: Disabled			
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- 1. Use domain name instead of Ip Address: If it is ticked a domain name will be used instead of the IP address to access to the EK CAST MINI web front-end. When this option is enabled, the following parameters could be configured.
- 2. Domain URL: it is the domain which will be shown on the television to link the guests' devices to the Chromecast™ instead of the EK CAST MINI WAN IP address.
- 3. Enable local DNS Server: if it is enabled, the EK CAST MIN works as a DNS server.



Https Configuration.

This menu allows to enable or disable the HTTPS protocol to access the EK CAST MINI web front-end. When HTTPS is enabled the connection to the EK CAST MINI will be done in a secure way.

EK EKCast	=	Mem: 39.8%	Cou: 13%	Network Sent: 4.2 Kbps Recv: 960 bps admin ▼ English ▼
MANAGEMENT	Device Settings	Https Configuration	×	
≢ Device Settings ✓	Actions	Https Disabled		
O Edit WAN Network Config	Actions	Signed Certificate		
O Edit LAN Network Config	Reboot System	Private Key File		
O Domain and Local DNS Server			Select File	
Https Configuration Reheat System	Network Configuration	Certificate File		
O Shutdown System			Select File	
tât licare 💰	WAN Network	Certificate signed with Letsencrypt		
	Mode: Manual	Management Email		
CAST MANAGER	IP Address: 192.168.10.26		Generate Certificate	Cotoward 192 168 20 264
🕸 Main Configuration	Main DNS Server: 8.8.8.8			Secondary DNS Server: 8.8.4.4
🖨 Devices 🔍 📢	Disable access to EKCast manager from WAN	Save	Cancel	
🖿 Statistics 🛛 <				
	DHCP Server: Enabled		DHCP Server: Enabled	
	Address Pool Start for DHCP: 192.168.10.40	Address Pool End for DHCP: 192.168.10.254	Address Pool Start for DHCP: 192.168.20.50	Address Pool End for DHCP: 192.168.20.250
	Gateway: 192.168.10.254 Main DNS Server: 192.168.10.26	Secondary DNS Server: 8.8.4.4	Main DNS Server: 8.8.8.8	Secondary DNS Server: 8.8.4.4
	Domain Url: ekcast.cc			
	local DNS server: Enabled			
	Use Https Connection: Disabled			
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- 1. Https Disabled: if it is selected, HTTPS is disabled, and no additional configuration is required.
- 2. Signed certificate: if it is selected, a private key file and a certificate file must be selected in order to HTTPS works properly.
- 3. Certificate signed with Letsencrypt: if it is selected, a Letsencrypt certificate (<u>https://letsencrypt.org/</u>) will be generated pressing the Generate Certificate button; a management email must be provided in order to generate the Letsencrypt certificate.

When Signed certificate or Certificate signed with Letsencrypt are selected, it is needed to set two NAT entries for port 443 and port 80 in the router which provides Internet connection in order to have remote access to the EK CAST MINI through both ports.



Reboot system.

It restarts the EK CAST MINI device.

Ek	EK Cast		Mem: 39.7% Cp	u: 1.8%	Network Sent: 4.2 Kbps Recv: 960 bps admin • English •
MANAGEMEN		Device Settings			
	Settings 🗸 🗸	Actions			-
O Edit LA	N Network Config n and Local DNS Server	Reboot System	Shutdown System		
O Https C O Reboot	Configuration t System	Network Configuration			-
O Shutdo	own System	WAN Network		LAN Network	
CAST MANAG	ER .	Mode: Manual		Mode: Manual	
🗘 Main Co	onfiguration	Netmask: 255.255.255.0 Main DNS Server: 8.8.8.8	Gateway: 192.168.10.254	Netmask: 255.255.255.0 Server: 8.8.8.8	Gateway: 192.168.20.254 Secondary DNS Server: 8.8.4.4
🖨 Device:		Disable access to EKCast manager from WAN Netwo	The system will reboot. Are you sure?		
🖿 Statisti		DHCP Server: Enabled	ок	Cancel ver: Enabled	
		Address Pool Start for DHCP: 192.168.10.40 Gateway: 192.168.10.254	Address Pool End for DHCP: 192.168.10.254	Address Pool Start for DHCP: 192.168.20.50 Gateway: 192.168.20.254	Address Pool End for DHCP: 192.168.20.250
		Main DNS Server: 192.168.10.26	Secondary DNS Server: 8.8.4.4	Main DNS Server: 8.8.8.8	Secondary DNS Server: 8.8.4.4
		Domain Url: ekcast.cc local DNS server: Enabled Use Https Connection: Disabled			
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Shutdown system.

It shutdowns the device in gracefully way. This is the right way to switch off the device.

Ek	EK Cast		Mem: 39.1%	Cpu: 1.2%	Network Sent: 4.2 Kbps Recv: 960 bps admin ▼ English ▼
MANAGEMENT		Device Settings			
Edit WA	Settings 🗸 🗸	Actions			-
O Edit LAI	N Network Config	Reboot System	Shutdown System		
O Https C O Reboot	onfiguration System	Network Configuration			-
Users		WAN Network		LAN Network	
CAST MANAGE	ER	IP Address: 192.168.10.26		IP Address: 192.168.20.26	
🏟 Main Co		Netmask: 255.255.255.0 Main DNS Server: 8.8.8.8	Gatr Sec () 192.168.10.26	255.255.255.0 Server: 8.8.8.8	Gateway: 192.168.20.254 Secondary DNS Server: 8.8.4.4
🖨 Devices		Disable access to EKCast manager from WAN Netw	The system will shutdown. Are you sure?		
🖿 Statistic		DHCP Server: Enabled		OK Cancel ver: Enabled	Address Pool End for DHCP: 192.168.20.250
		Gateway: 192.168.10.254 Main DNS Server: 192.168.10.26	Secondary DNS Server: 8.8.4.4	Gateway: 192.168.20.254 Main DNS Server: 8.8.8.8	Secondary DNS Server: 8.8.4.4
		Domain Url: ekcast.cc local DNS server: Enabled Use Https Connection: Disabled			
javascript:settin	ngsShutdownSystem()	Copyright © 2021 ITS Partner (0.B.S) S.L. All rights rese	erved.		



Users

This menu allows to manage the users which can access to the EK CAST MINI manager. From this menu it is possible to create and delete them. Single and multiple selection are possible.

EK EKCast	≡	Mem: 39.2%	Cpu: 1.5%	k Sent: 6.6 Kbps admin ▼ Recv: 2.5 Kbps	English 🔻
MANAGEMENT	Users				
	Users				
🗳 Users 👻	Id Username Creation Da	te Last Login			
O Create User O Delete User	1 admin 2016-02-04 19:	5:14 2021-08-20 09:46:43	Admin, Manager, Devices manager, Devices controller, Viewer, Sta	ts	2 🗹
CAST MANAGER			1		_
😂 Main Configuration					
🖨 Devices 🔇 🔇					
🖿 Statistics <					
https://192.168.10.26/manager/index.php	Copyright © 2021 ITS Partner (O.B.S) S.L. All rights reserved.				

- 1. Created users' information: in this area, the user creation date, the last login and the assigned permissions are shown.
- 2. Edit button: it allows to edit user's permissions (roles). When this button is pressed, the following window is shown where it is possible to add permissions to the user (moving permissions from the left side to the right side using '>>' and '>' buttons) or to delete permissions to the user (moving permission from the right side to the left side using '<' and '<' buttons).

admin				
Roles				
Admin Config Manager Service Editor Service Manager Viewer	•	» > < «	Admin Config Manager Service Editor Service Manager Viewer	



Create user.

It allows to create a user which could access to the EK CAST MINI manager. It is possible to assign permissions to the new user moving them from the left side to right side pressing the '>>' and '>' buttons.

Ek EKCast		Mem: 40% Cou: 0.6%	Network Sent: 3.9 Kbps admin - B	inglish 🔻
MANAGEMENT	Users	User ×		
幸 Device Settings く		User		_
🚢 Users 🗸 🗸	Users			
O Create User	Id Username	Password		
O Delete User	1 admin	Confirm Password	ager, Devices controller, Viewer, Stats	Ľ
CAST MANAGER		+0		
😂 Main Configuration				
🖨 Devices 📢		Admin ^ >>		
🖿 Statistics 🔸		Manager > Devices manager		
		Devices controller		
		Stats v «		
		Create liver Cancel		
	Copyright © 2021 ITS Partner (O.B.S) S.L. All righ	ts reserved.		

Once configured all the user parameters the "Create User" button should be pressed to create the new user.



Delete user.

It allows to delete the users which are selected in the main panel.

EK EKCast	≡	Mem: 39.2	% Cpu	: 1.5%		Network	Sent: 6.6 Kbps Recv: 2.5 Kbps	admin 🔻	English 🔻
MANAGEMENT	Users								
	Users								
🗳 Users 👻	Id Username	Creation Date	Last Login						
O Create User	1 admin 2	2016-02-04 19:05:14	2021-08-20 09:46:43	Admin, Manager, Devices manag	er, Devices controller, ۱	/iewer, Stats			ľ
CAST MANAGER									
🕫 Main Configuration									
🖨 Devices 🔇									
🖿 Statistics <									
https://192.168.10.26/manager/index.php	Copyright © 2021 ITS Partner (O.B.S) S.L. All rights reserve	ed.							



Cast Manager.

The following menus allow to manage and to configure the Chromecast™ devices.

Main Configuration.

From this panel, it is possible to configure the appearance of the Chromecast[™] application on the televisions, for example, the widgets and banners, the tokens to be used to link the guest's devices and the Chromecast[™] device.

EK EKCast	≡ Me	em: 40.3% Cpu: 1.8%	Network Sent: 10.0 Kbps Recv: 7.1 Kbps admin • English •
	Main Configuration		
🛥 Device Settings 🔹	Enable captcha at login	Look and Feel	Banner and Widgets
CAST MANAGER	Site name	Default Language English V	Weather information 5
Devices	Max. simultaneous paired users	Main Color f1b3666	Coypright
	Inable automatic daily unpair Time 16:37:00 Ticket Type Istantial Mathematic M	Text Color #ffffff Show Name Show Logo Background Color Background mage	<pre>strong-Copyright © 2021 HTS Partner (0.8.5) S.L-{/a~/strong> All rights reserved.</pre>
	Convricts © 2021 115 Partner (0.8.51 S.L. All richts reserved.		

- 1. Main configuration.
 - Enable captcha at login: If it is enabled, a captcha (a type of challenge-response test to increase the login security) is shown to login the EK CAST MINI manager.
 - Site name: name of the system in the network which will be shown on the television.
 - Max. Simultaneous paired users: Maximum number of customers which can be paired linked simultaneously to each Chromecast™ device.
 - **Enabled automatic daily unpair:** if it is enabled, all the guests' devices will be unlinked from the Chromecast[™] devices daily at the configure time.
 - **Time**: it is the time when the Chromecast devices will be unlinked form the guests' devices daily if "Enabled automatic daily unpair" option is enabled.
- 2. Ticket type:
 - **Numeric:** if it is selected, the ticket (token) shown on the television for the pairing process with the Chromecast[™] device will be numeric.
 - Alphanumeric: if it is selected, the ticket (token) shown on the television for the pairing process with the Chromecast™ device will be alphanumeric.
- 3. Terms and Privacy:
 - Edit terms: this button allows to edit the terms of use of the EK CAST MINI service which will be shown to the guests.

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- Edit privacy: this button allows to edit the privacy policy of the EK CAST MINI service which will be shown to the guests.
- 4. Look And Feel:
 - **Default language:** it allows to select the default language of the EK CAST MINI application.
 - o Main color: it sets the main colour used in the front-end of the EK CAST MINI application.
 - Text color: it sets the text colour used in the front-end of the EK CAST MINI application.
 - Show name: if it is ticked, the configured site name is shown on the EK CAST MINI application.
 - Show Logo: if it is ticked, the configured logo is shown on the EK CAST MINI application.
 - **Background color:** if it is ticked, the configure colour will be used in the background of the EK CAST MINI application shown on the television.
 - **Background image:** if it is ticked, the configure background image will be used in the background of the EK CAST MINI application shown on the television.
- 5. Banner and Widgets:
 - Weather Information: if it is ticked, a widget with the weather information will be shown on the EK CAST MINI application shown on the television. If this option is enabled, it is needed to press the edit button to configure the required parameters of this widget.

×
athermap.org. You can obtain a free API key in is service.
ď
Cancel

It is needed to follow the steps explained in https://openweathermap.org/price to get a free API key. This website has nothing to do with EK.

 Image slider: if it is ticked, a carrousel of images will appear on the EK CAST MINI application shown on the television. To configure the pictures, the edit button should be pressed to show the following window:

Swimming pool Room Service Visit our restaurant Activities	^ + (3 - 12
	~

- 1. Added pictures.
- 2. Buttons to add (+) or delete (-) pictures.
- 3. Edit button to modify the current pictures configured.
- 4. Ok button to apply the configuration.
- **Copyright:** Form to edit the copyright text shown on the EK CAST MINI application shown on the television.

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Once configured all the parameters of the **Main Configuration** panel, the "**Save**" button should be pressed to save the new configuration.

Devices.

This menu allows to view all the Chromecast[™] devices which are enabled in the EK CAST MINI system. From this menu, it is also possible to manage all the Chromecast[™] devices, to add or to delete them, to send messages to them and to group them.

Ek EKCast	≡	Mem: 40.3%	Cpu: 0.8%		Network Sent: 6.3 Kbps Recv: 2.8 Kbps	admin 🔻 English 🔻
MANAGEMENT	Devices					
Device Settings <	Order Devices	Device Filter				2 devices =
🚢 Users 🛛 🖌	Order by	Status	2 Group			3
CAST MANAGER	By default 🗸 🗸	ALL	ALL	~	Set Filter	Clear Filter
🗱 Main Configuration						
🖨 Devices 🗸 🗸	Devices					
O Add new Devices	Select All					
O Delete Device Order Devices						
O Enable Devices	CAST TV 100 CAST TV 102					
O Disable Devices						
 Unpair Device Send Message 						
O Edit Groups						
🖿 Statistics 🔸						
	Converight @ 2021 ITS Partner (O. P. S) S. L. All rights recoved					

- 1. Order Devices criteria combo box: it allows to select the sort criteria for the Chromecast™ devices shown in the device list.
- 2. Device Filter combo boxes: it allows to select the filter to be applied to the list of Chromecast™ device below. The Status filter allows to select the ALL/Enabled/Disabled/Unregistered values. The Group filter allows to select all or any of the groups created using the menu option "Edit groups".
- 3. Buttons to hide (-) or to show (+): they allow to show or to hide the "Order Devices" and the "Device Filter" panels.
- 4. Devices list: it show all the available Chromecast™ devices and their status.



5. Edit button: it allows to edit different parameters of the Chromecast™ device.

Devices	×
Description	Group
Cast tv 100	- v
Mac Address	Country
900cc8d82ca1	- v
Save	Cancel

- o Description: the description of the Chromecast™ device.
- o MAC address: the MAC address of the Chromecast™ device.
- o Group: this combo box allows to select the group, previously created, where this Chromecast ™ device will be included.
- o Country: this combo box allows to select the country of the guests using this Chromecast[™] device. This will modify the behaviour of EK CAST MINI service in order to take into account the country of the guests.
- 6. Information button: it shows information about the device:

Información	×
Id: 6	
Descripción: Sala Reuniones	
Grupo:	
Dirección Mac: 14c14e5ee4f6	
País: -	
Lenguaje: ES	

- 7. Enable/disable button: it allows to enable or disable this Chromecast[™] device. These two types of status are shown as follows:
 - a. Enabled: the device is shown in green colour. This means that the device is added to the system, it is detected, and it can manage casting requests.
 - b. Disabled: the device is shown in red colour. This means that the device is added to the system, it is detected but it cannot manage casting requests.
- 8. Tick to mark: this tick allows to select this Chromecast™ device to apply any action only on it, for example, to delete it.
- 9. Linked devices: if there are guest's devices linked to this Chromecast[™] device, this symbol will appear. When the mouse pointer is placed over this symbol, the number of guest's devices linked to this Chromecast[™] device will be shown.
- 10. Service loaded in the Chromecast[™] device: this provides information about the application which the guest is using in the Chromecast[™] device in real time.



Add new devices.

This menu option allows to add new Chromecast™ devices to the EK CAST MINI system.

uncasisti Devices Cate Nucces Cate Nucces <th>Ek EKCast</th> <th>≡</th> <th>Mem: 40.2%</th> <th>Сри: 2.4%</th> <th></th> <th>Network Sent: 10.4 Kbps Recv: 7.5 Kbps</th> <th>admin 🔻 English 🔻</th>	Ek EKCast	≡	Mem: 40.2%	Сри: 2.4%		Network Sent: 10.4 Kbps Recv: 7.5 Kbps	admin 🔻 English 🔻
Cardenal Cardinal	MANAGEMENT	Devices	Devices		×		
Lines Cut Mundet Sum finder I han Configeria Add I han Configeria Evelos I han Configeria Sum finder I han Configeria			Automatic device search	Add device manually			
C St HUNCE i g defuit: i g defuit: i g defuit: i g defuit: i g defuit:	🚢 Users 🔹 🔇	Order by		ican devices			
Configuration	CAST MANAGER	By default			Set I	Filter	Clear Filter
Decice Objective Devices Strategive Devices Strategive Devices Strategive Devices Strategive Devices Strategive Devices Strategive Devices </td <td>📽 Main Configuration</td> <td></td> <td>Add</td> <td>Cancel</td> <td></td> <td></td> <td></td>	📽 Main Configuration		Add	Cancel			
 C Addrew Devices O offer Devices D biable Devices D biable Devices D biable Devices E did forcages E did f	🖨 Devices 🗸 🗸	Devices			_		
○ Delete Devices ○ Datable Devices ○ Datable Devices ○ Datable Devices ○ Datable Devices ○ Send Message ○ Edit Groups ▲ Strictifes ▲ Strictifes Captright 0 2021 ITS Partner (0.0.8.) S.L. All rights reserved.	O Add new Devices	Select All					
○ Out Devices ○ Disable Devices ○ Unpair Device ○ Send Message ○ Edit Groups ▶ Statistics Exable Devices ○ Send Message ● Edit Groups ▶ Statistics Exable Devices ● Control Exable Devices ● Edit Groups Particle Devices ● Statistics Control ● Edit Groups Particle Devices ● Statistics Control ● Displace Particle Devices ● Statistics Control ● Displace Particle Devices	O Delete Device						
 Disable Devices Send Massage Edit Groups 	O Enable Devices	CAST TV 100 CAST	TV 102				
Unpair Device Send Message Edd Groups Statistics Copyright © 2021 TTS Partner (0.B.S) S.L. All rights reserved.	O Disable Devices						
C Sald Heckage C Sald	O Unpair Device						
Image: Statistics Compare the statistics Image: Statistics Co	O Edit Groups						
Copyright © 2021 ITS Partner (0.B.S) S.L. All rights reserved.	🖿 Statistics 🔸						
Copyright © 2021 ITS Partner (0.8.5) S.L. All rights reserved.							
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Copyright © 2021 ITS Partner (0.8.5) S.L. All rights reserved.							
Copyright © 2021 ITS Partner (0.8.5) S.L. All rights reserved.							
Copyright © 2021 ITS Partner (0.B.\$) 5.L. All rights reserved.							
Copyright © 2021 ITS Partner (0.B.S) S.L. All rights reserved.							
Copyright © 2021 ITS Partner (0.8.5) S.L. All rights reserved.							
		Copyright © 2021 ITS Partner (O.B.S) S.L. All righ	its reserved.				

1. Adding mode type:

- a. Automatic device search: if this option is selected, as soon as the Scan devices button is pressed an automatic search of Chromecast[™] device is done through the LAN port of the EK CAST MINI. After this search, it is possible to select the Chromecast[™] devices to be added to the system.
- b. Add device manually: if this option is selected, one or several Chromecast[™] devices can be added manually, selecting the number of devices to be added and setting a common name for all the devices. After pressing the Add button, the new Chromecast[™] devices will be added to the system with the same name so it is needed to edit each Chromecast[™] device to set the MAC address of each device and to set a different name for each one.
- 2. Scan devices button: Once the Automatic device search option is selected, the Scan device button should be pressed to start the device search.

Once selected the Chromecast™ devices to be added, the Add button must be pressed.



Delete devices.

This menu option allows to delete Chromecast™ devices from the EK CAST MINI system.

EK EKCast	≡	Mem: 40.3%	Cpu: 0.8%	Network Sent: 6.3 Kbps Recv: 2.8 Kbps	i admin ▼ English ▼
MANAGEMENT	Devices				
	Order Devices -	Device Filter			2 devices -
🖑 Users 🔇 🔇	Order by	Status	Group		
CAST MANAGER	By default 🗸	ALL	ALL V	Set Filter	Clear Filter
🚓 Main Configuration					
🖨 Devices 🗸 🗸	Devices				
O Add new Devices	Select All				
O Delete Device					
Order Devices Enable Devices	CAST TV 100 CAST TV 102				
O Disable Devices					
O Unpair Device		6 C			
Send Message Edit Groups					
Statistics					
	Copyright © 2021 ITS Partner (O.B.S) S.L. All rights reserved	d.			



Order devices.

This menu option allows to sort the Chromecast™ devices in the EK CAST MINI system, in a custom way.

Ek EKCast	Ξ	Mem: 41.4%	Cou: 17.4%	Network Sent: 13.5 Kbps Recy: 10.0 Kbps	admin 🔻 🛛 English 🔻
MANAGEMENT	Devices	Order Devices	×		
≢ Device Settings ≮		Cast tv 100	^ *		2 devices —
📽 Users 🔸	Order by	Cast tv 102			
CAST MANAGER	By default	2	÷ I	Set Filter	Clear Filter
📽 Main Configuration					
Devices	Select All				
O Delete Device			v		
O Order Devices		Save	Cancel		
O Disable Devices					
O Unpair Device					
O Edit Groups					
🛍 Statistics <					
	Copyright © 2021 ITS Partner (O.B.S) S.L. All right	nts reserved.			

- 1. Arrow buttons to sort: these buttons allow to modify the position of the selected Chromecast™ device.
- 2. Device list: this is the list of Chromecast[™] devices available and their current positions in the EK CAST MINI system. If a position modification of a Chromecast[™] device is required, the devices should be selected in this list before using the arrow buttons.

Once sorted the Chromecast[™] devices, the Save button should be pressed.



Enable devices.

This menu option allows to enable Chromecast™ devices for casting. As soon the Chromecast™ devices are enabled, they get the green colour in the devices list.

Ek EKCast	≡	Mem: 41%	Cpu: 2.5%		Network Sent: 4.2 Kbps Recv: 7.8 Kbps	admin 🔻 English 🔻
MANAGEMENT	Devices					
	Order Devices –	Device Filter				2 devices -
🚢 Users 🔹 🔇	Order by	Status	Group			
CAST MANAGER	By default 🗸 🗸	ALL V	ALL	✓ Set Filt	ter	Clear Filter
🕫 Main Configuration						
🖨 Devices 🗸 🗸	Devices					
O Add new Devices	Select All					
O Order Devices						
O Enable Devices	CAST TV 100 CAST TV 102					
Disable Devices Unpair Device		6 6				
O Send Message						
O Edit Groups						
🖿 Statistics <						
	Convright @ 2021 ITS Partner (O.B.S) S.L. All rights reserve	d				

Disable devices.

This menu option allows to disable Chromecast[™] devices for casting. As soon the Chromecast[™] devices are disabled, they get the red colour in the devices list.

EK EKCast	E	Mem: 41.1%	Cpu: 5%	Network R	ent: 61.3 Kbps tecv: 81.9 Kbps admin ▼ English ▼
MANAGEMENT	Devices				
	Order Devices –	Device Filter			2 devices -
😩 Users 🔸	Order by	Status	Group		
CAST MANAGER	By default 🗸 🗸	ALL ~	ALL	Set Filter	Clear Filter
🗱 Main Configuration					
🖨 Devices 🗸 🗸	Devices				
O Add new Devices	Select All				
O Delete Device					
C Enable Devices Disable Devices Unpair Device Send Message	CAST TV 100 ✓ CAST TV 102	• • •			
O Edit Groups					
In Statistics 4					
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Unpair device.

This menu option allows to unlink the guest's devices currently linked to a Chromecast™ device.



Send message.

This menu option allows to send a message to one or several Chromecast[™] devices to be shown on the televisions.



1. Message: Message to be sent to the selected Chromecast™ devices.

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- 2. Message type: there are three types of messages which can be sent to the Chromecast™ devices:
 - a. **Normal:** This message doesn't interrupt the casting. If the Chromecast[™] device is not casting, the message will be shown on the television immediately; if the Chromecast [™] device is casting, the message will be shown on the television when the casting finishes.
 - b. **Forced**: This message interrupts the casting and it is always shown immediately on the television.
 - c. Alarm: This message interrupts the casting, it is always shown immediately on the television, and it is shown in red, blinking, simulating an emergency alarm.

The message will be sent as soon as the OK button is pressed.



Edit groups.

This menu option allows to create groups to include the Chromecast™ devices inside.

Ek EKCast	=	Mem: 40.9%	Соц: 1.8%	Network Sent: 12.9 Kbps Recv: 11.2 Kbps	admin 🔻 🛛 English 🔻
MANAGEMENT	Devices	Edit Groups	×		
Device Settings	Order Devices	VIP Economy	^ <u>†</u> 💿		2 devices 🛛 🗕
CAST MANAGER	Order by By default	Staff	2	Set Filter	Clear Filter
📽 Main Configuration					
Devices V Add new Devices	Select All		~		
Delete Device Order Devices		Ok			
C Enable Devices Disable Devices	CAST TV 100 🗸 CAST	F TV 102			
O Unpair Device O Send Message					
O Edit Groups					
E Statistics 💉					
	Copyright © 2021 ITS Partner (O.B.S) S.L. All rig	hts reserved.			

- 1. Add/Delete buttons: they allow to add (+) or to delete (-) groups.
- 2. Edit button: it allows to edit a created group.
- 3. Groups list: it shows the list of groups currently available.

For example, when the '+' button is pressed the following pop-up window is shown:



1. Name: Name of the group to be created.



Statistics.

In the statics menu, it is possible to check in real time the number of connections to the Chromecast™ devices and to analyse the current applications loaded in the Chromecast™ devices.



- 1. **Historic**: it is a graph in real time which provides information about the number of Chromecast[™] which are casting and the kind of services which are loaded in these devices.
- 2. Colour used in the historic graph for each service.
- 3. Zoom: it is possible to adjust the time scale of the historic graph.
- 4. Zoom Reset button: it allows to reset the zoom done to the time scale of the historic graph.
- 5. Clear Graph: it deletes the current graph.
- 6. **Connections:** it is a connection graph which allows to see quickly the number of current connections to the Chromecast[™] devices and the most popular services loaded in these devices.
- 7. Users connected: it is the number of users connected to the Chromecast[™] devices in real time.
- 8. Devices playing: it is the number of Chromecast[™] devices casting contents in real time.



Generate statistics report.

This menu allows to generate a statistics report in PDF format between two dates.

Ek			Mem: 40.2% Cou: 1.4%		Network Sent: 10.4 Kbps Recv: 7.1 Kbps	
MANAGEN		Statistics	Generate Statistics Report	×		
≢ Devi			2021-08-18 10:33:00 - 2021-08-20 10:33:00			
😂 Use						YouTube 0
CAST MAN		2	Generate			Netflix 1
🕸 🖁 Main		1.5				
🖨 Devi		1				
🖿 Stat	tistics 🗸	0.5				
O Gen	nerate Statistics Report					
		0 10:31:30 10	10:32:30 10:33			
			¥			
		Zoom Reset	Clear Graph			
		USERS CONNECTED				
		Copyright © 2021 ITS Partner (O.B.S) S.L. All rig	hts reserved.			

The report is automatically downloaded locally as soon as the Generate button is pressed.

Export raw data.

This menu allows to export directly the raw data stored in the EK CAST MINI both in CSV format and Excel XLS format.

Ek EKCast	=	Mem: 40.2% Cou: 17%	Network Sent: 4.2 Kbps admin + English +
MANAGEMENT	Statistics	Export raw data ×	
≢ Device Settings ≮	Historic		
📇 Users 🔍 📢			VouTube 0
CAST MANAGER	2		Netflix 1
🛱 Main Configuration	1.5	Generate File Cancel	
🖨 Devices <	1		
Statistics 🗸	0.5		
O Export raw data			
	10:31:30 10:32	10:32:30 10:33 10:33:30	
	Zoom Reset	Clear Graph	
	USERS CONNECTED	DEVICES PLAYING	
		<u> </u>	
	Copyright © 2021 ITS Partner (O.B.S) S.L. All right	s reserved.	

The file is downloaded locally in the selected format as soon as the Generate File button is pressed.



FAQ.

- There is no access to the equipment: connect a PC directly to the WAN port. Check if the PC is
 in the same subnet that the equipment which is factory set with the IP address 172.16.5.209 and
 netmask 255.255.255.0. Launch a ping command to this IP address to confirm that the
 equipment is reachable, if so, check the connection to https://172.16.5.209.9090.
- It appears the message "Out of service code 1" on the television: check that the Chromecast™ device is found in the network launching an automatic search. If it is not found, there is a communication problem with the Chromecast™ device. Review the VLAN and the SSID used by the Chromecast™ devices and confirm that the LAN port of the EK CAST MINI is in the same VLAN.
- It appears the message "**Out of service code o**" on the television: disable the Chromecast™ device during some seconds and then enable it again from the Devices menu.