



Wireless

WEP-12ac

Quick guide

Firmware version 1.20.0

IP address: 192.168.1.10

Username: admin

Password: password

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1 Annotation

This manual specifies the following:

- · connection to WEP-12ac web interface;
- · configuration of WEP-12ac network parameters;
- · WEP-12ac firmware update;
- · SNMP configuration;
- · wireless interfaces configuration (operation mode, band);
- · virtual access points configuration;
- · monitoring of wireless network main parameters.

The manual gives an example of access point configuration without using a soft controller. The following scheme is given as an example.

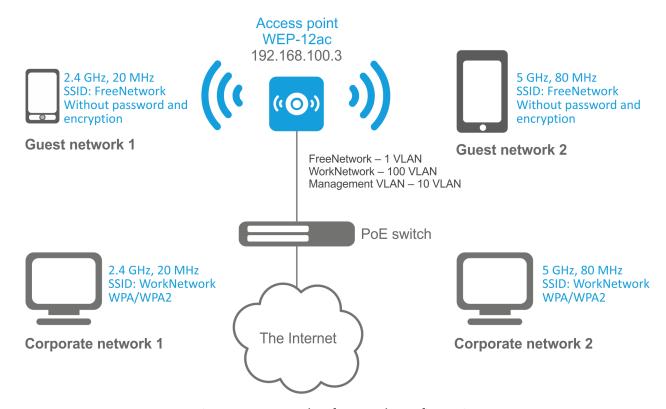


Figure 1 – Example of network configuration

Type of the network	VLAN used	SSID used	Encryption/ authorization by password
Inner corporate wireless network using 2.4 and 5 GHz bands. The network is isolated from other guest networks. To connect to the network, password authorization is required. The network is dedicated to secure data exchange among company staff.	100	WorkNetwork	WPA/WPA2

Type of the network	VLAN used	SSID used	Encryption/ authorization by password
Guest wireless network using 2.4 and 5 GHz bands. The network does not require password authorization. It is dedicated to connect users with standard wireless gadgets to a public network for Internet access, for instance.	1 (without VLAN)	FreeNetwork	No encryption and authorization

To perform the configuration, you need to have PC with access to the device via Ethernet and any web browser (Internet Explorer, Firefox, Google Chrome, Opera, etc.)

2 Connecting the web interface

Connection of PC to the device might be executed as follows:

- Connect network cable to PoE interface of WEP-12ac and to PoE injector (or switch). Then connect a PC to the PoE injector (or switch).
- You may connect WEP-12ac to power supply network through 220VAC-12VAC adapter supplied with the device. And connect a PC through 1 Ethernet interface of WEP-12ac.

To connect to the web interface of the device, enter the following to the URL bar of your browser: **192.168.1.10.**

If the connection has been performed successfully, the authorization page will be displayed. Use the following data for authorization:

User Name: admin Password: password

If the authorization page is not displayed after entering the device IP in the browser, check the IP address on the PC and switch settings. If the configuration on the device has been changed (is not a default one), reset the device to factory settings. To perform this, press and hold the button «F» on the side panel of the device within 20 seconds. Wait for the indicator on the front panel to start blinking, and then release the button. The light of the indicator should be changed to red, it means that loading is in operation.

3 Configuration of WEP-12ac network parameters

For remote management of WEP-12ac, you should set network parameters of the device according to the settings of the network that you intend to use.

In the «Manage» menu, open «Ethernet Settings» tab and perform the following:

Modify Ethernet (Wire	ed) settings
Hostname	WEP-12ac (Range : 1 - 63 characters)
Internal Interface Settings MAC Address	A8:F9:4B:B0:43:61
Management VLAN ID Untagged VLAN Untagged VLAN ID	10 (Range: 1 - 4094, Default: 1) ■ Enabled ○ Disabled 1 (Range: 1 - 4094, Default: 1)
Connection Type Static IP Address Subnet Mask Default Gateway	Static IP ▼ 192
DNS Nameservers	Dynamic ● Manual 172
Click "Update" to save the new settings. Update	

- Management VLAN ID set the number of VLAN that you are going to use for access point management. 10 is used in the given example.
- Connection Type select «Static IP» to set IP addresses for access points manually. Specify the IP address of WEP-12ac (in the example, it is 192.168.100.3) in the «Static IP Address» Enter the address of the default gateway in the «Default Gateway» field. 192.168.100.1. Changing the network mask is optional. If you want the access points to obtain IP addresses via DHCP, «Connection type» field should be set to «DHCP» value. If DHCP is selected, the network settings configuration is completed.

Click «Update». Since that, WEP-12ac is available in 10 VLAN via 192.168.100.3 address.

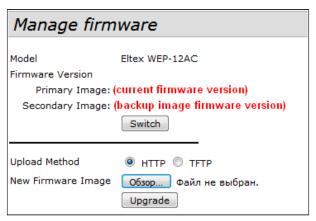
Before changing the settings, make sure that the managing computer has the access to the access point. If you make a mistake while changing the settings, you may undo them by resetting the access point to factory settings. To perform this, press and hold «F» button on the side panel of the device for 20 seconds until the indicator on the front panel is blinking.

4 WEP-12ac firmware update

For proper operation of WEP-12ac, it is recommended to update the firmware. You may consult the vendor on the relevance of the firmware version:

e-mail: techsupp@eltex.nsk.ru

After obtaining the relevant firmware version, open the menu **«Maintenance»**, **«Upgrade»** tab and perform the following:



- Click the «Switch» button if you want to switch to an Alternative firmware image set in the «Secondary Image»
- Upload Method check «HTTP»
- New Firmware Image click the «Browse» button and select relevant firmware version, click «Open».
- Click **«Upgrade»**. The process may take several minutes (its current status will be shown on the page). The device will be automatically rebooted when the update is completed.

• Do not switch off or reboot the device during the firmware update.

You may check the current firmware version in the «Basic Settings» menu (Firmware Version).

5 SNMP service configuration

SNMP service configuration is performed in the «Services» menu, «SNMP» section.

SNMP Configuration					
SNMP Enabled Disabled					
Read-only community name (for permitt	ted SNMP get operations)	public	(Range: 1 - 256 characters)		
Port number the SNMP agent will listen t	to	161	(Range: 1025 - 65535, Default: 161)		
Allow SNMP set requests		Enabled Disabled			
Read-write community name (for permit	tted SNMP set operations)	private	(Range: 1 - 256 characters)		
Restrict the source of SNMP requests to	only the designated hosts or subnets	Enabled Disabled			
Hostname, address, or subnet of Networ	rk Management System	172.16.0.22	(xxx,xxx,xxx,xxx/Hostname max 255 Characters)		
IPv6 hostname, address, or subnet of No	etwork Management System		(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Trap Destinations					
		lostname or IP or IPv6 Address	ox:xxxxx:xxxxx:xxxxx/Hostname max 255 Characters)		
		192.168.26.136			
IPv4 ▼ snmpV2 ▼					
IPv4 ▼ snmpV2 ▼					
Debug Settings					
Debugging output tokens	dot11_traps	(Range: 0 - 256 characters, empty s	tring for 'no debug', 'ALL', or 'traps,send' - any tokens without spaces)		
Dump sent and received SNMP packets Enabled Disabled					
Logs to	Don't log ▼				
Logs to specified files	/var/log/snmpd.log	(Range: 1 - 256 characters, Default: /var/log/snmpd.log)			
Logs priority level	Emergency ▼ (for Standart output, Standart error and File logs output)				
Logs priority range	From Emergency ▼ to Emergency	▼ (only for Syslog output)			
Transport	UDP UDP6 TCP TCP6				
Click "Update" to save the new settings. Update					

- Restrict the source of SNMP requests to only the designated hosts or subnets check the «Enabled»
- Hostname, address, or subnet of Network Management System specify an IP-address of SNMP server, from which SNMP commands will be transmitted.
- Community name for traps set «public».
- Enabled/Host Type/Host name or IP or IPv6 Address— check one of the fields for specifying traps receiver address and enter an IP address of the device to which WEP-12ac will send traps.
- · Click «Update».

6 Wireless interfaces configuration

WEP-12ac has 2 radio interfaces which are capable to operate simultaneously – Radio 1 and Radio 2. Each interface is capable to operate on its frequency band in different wireless network modes.

The example of configuration of a network with the following characteristics is given below:

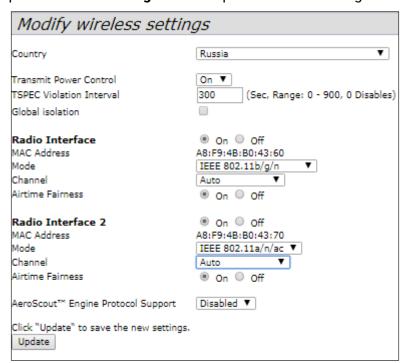
Radio1:

Frequency range: 2.4 GHz;
Standards: 802.11b/g/n;
Bandwidth: 40 MHz.

Radio2:

Frequency range: 5 GHz;
Standards: 802.11a/n/ac;
Bandwidth: 80 MHz.

In the «Manage» menu, open «Wireless Settings» tab and perform the following:



- · Country select settings according to the rules of selected country. Select «RU Russia» in the list
- **Transmit Power Control** configuring the *Transmit Power Limit* parameter restrictions. Select **«On»** in the list.

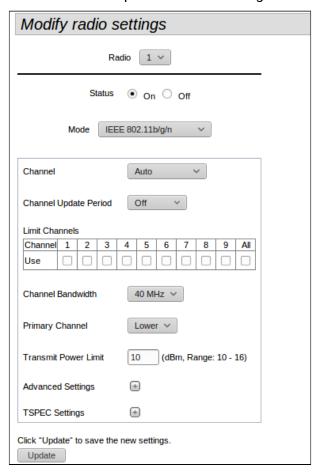
Configuring Radio 1:

- · Radio Interface check the «On»
- Mode select the «IEEE 802.11b/g/n»
- · Click «Update».

Configuring Radio 2:

- · Radio Interface 2 check the «On»
- Mode select the «IEEE 802.11a/n/ac» value;
- · Click «Update».

In the «Manage» menu, open the «Radio» tab and perform the following:



Configuring Radio 1:

- · Radio select the «1»
- · Channel Bandwidth set value «40MHz».
- · Click «Update».

Configuring Radio 2:

- · Radio select the «2»
- · Channel Bandwidth set value «80MHz».
- · Click «Update».
- The configuration of the antenna used composition is available only for the WOP-12ac. For WEP-12ac this settings are hidden.

7 Virtual access points configuration

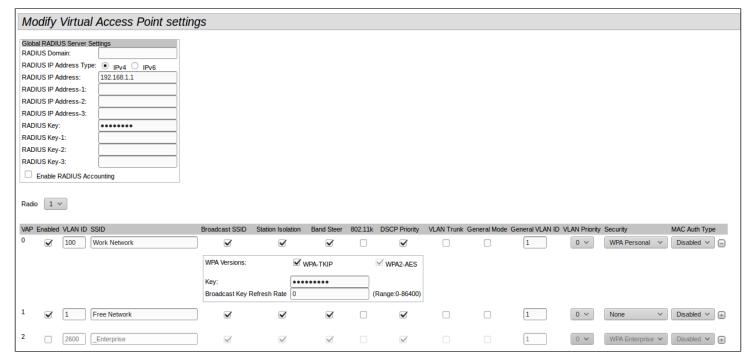
On each wireless interface, you may configure up to 16 virtual access points. Each access point may have individual name of wireless network (SSID) and type of authentication/authorization. According to the network scheme given in the figure 1, it is necessary to configure 2 virtual access points on Radio 1 and Radio 2.

Band Steer feature allows clients having opportunity of operation at 2.4 GHz and 5 GHz to set priority of connection to virtual access points operating at 5 GHz.

The followings are necessary for Band Steer feature operation:

- configure radio interfaces for operation at different frequency ranges;
- create virtual access points (VAP) on each frequency range with the same SSID;
- when using encryption, make sure the passwords of the VAPs are the same;
- activate Band Steer feature on the access points.

In the «Manage» menu, open the «VAP» tab and perform the following:

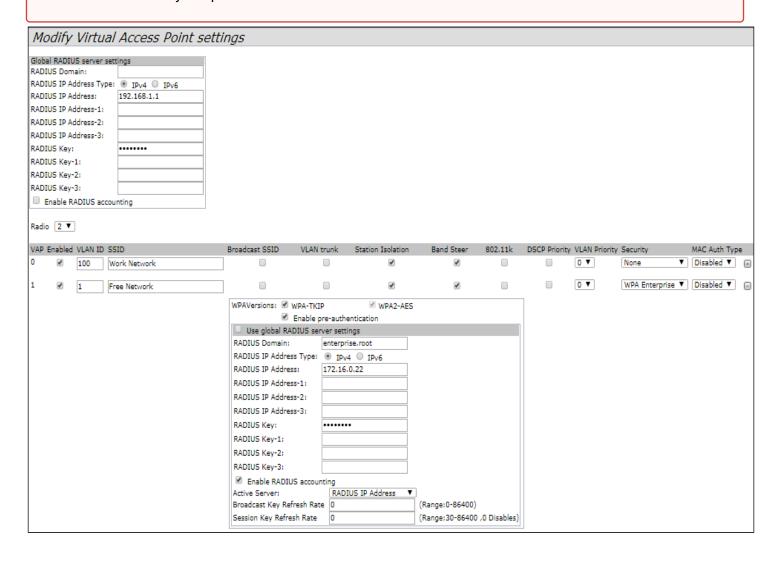


Configuring Radio 1:

- · Radio select the «1»
- Enabled check the boxes for VAP 0 and VAP1.
- VLAN ID VLAN number:
 - set value «100» for VAP 0;
 - set value «1» for VAP 1.
- SSID wireless network name:
 - set value «Work Network» for VAP 0;
 - set value «Free Network» for VAP 1.
- Station Isolation forbid packet transmission among access point's clients. Check the box.
- Band Steer set a priority of users connection to SSID configured at 5 GHz. Check the box.
- VLAN Priority the 2nd priority level which will be assigned to packets transmitted through the given VAP from radio environment to wired network.
- Security secure network mode:
 - set «WPA Personal» value for VAP 0 and set a password for this network connection in the «Key»
 field;
 - set value «None» for VAP 1.
- Click «Update».

Configuration of Radio 2 is performed in the same way. Select **«2»** value in **Radio** and perform the configuration as for the Radio 1 (given above). The password for «Work Network» should be the same. Click **«Update»**.

- •
- When using WPA Enterprise mode, the authorization is implemented through a RADIUS server. The request on user connection to SSID is sent to a RADIUS server. The table *Global RADIUS server settings* specifies the following:
 - RADIUS IP Address an IP address of a RADIUS server;
 - RADIUS Key a password to access the RADIUS server.

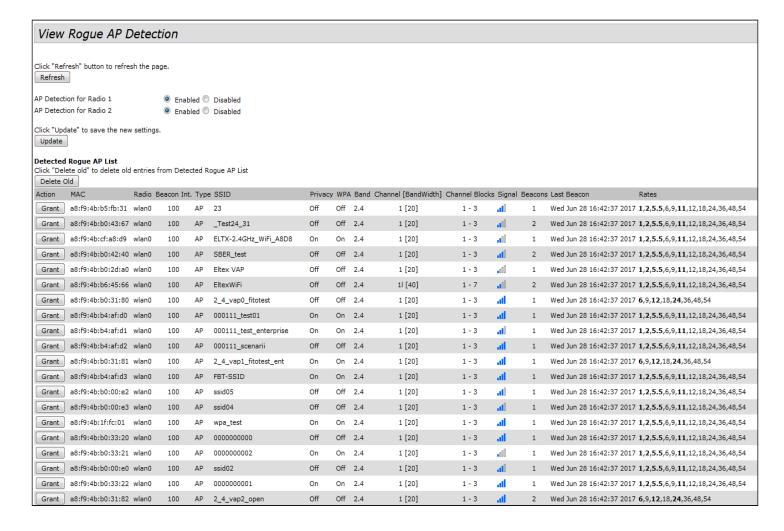


8 Monitoring main parameters of wireless network

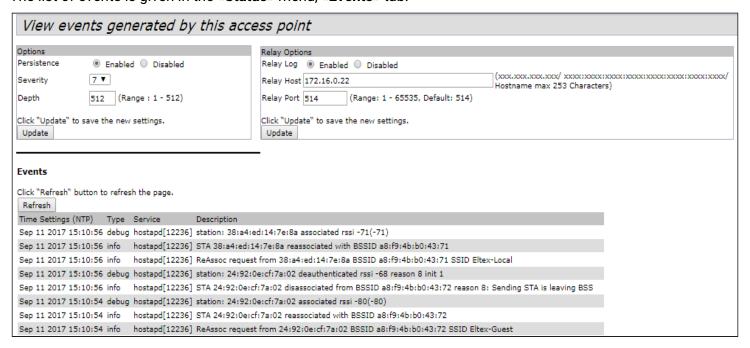
You may view the list of connected users in the **«Status»** menu, **«Client Association»** tab.

View list of currently associated client stations											
Click "Refresh" button to r Refresh Total Number of Associate	, ,										
SSID	Station	IP Address	Hostname	Uptime	RSSI	SNR	Noise	Link Quality	Rate Quality	Link Capasity	Status
											Authoriz
Eltex-Local (wlan0vap1)	5c:e2:f4:52:35:f4	192.168.40.99	android-703f77361a424899	00:00:07	-75 dBm	14 dB	-89 dBm	44%	100%	59%	Yes
Eltex-Local (wlan0vap1)	84:55:a5:56:18:2d	192.168.40.122	android-64b6ec2b4e700d5b	00:00:02	-78 dBm	11 dB	-89 dBm	31%	100%	54%	Yes
Eltex-Local (wlan0vap1)	00:28:53:34:49:31	192.168.40.138	android-3025657d07a9a40c	00:01:18	-83 dBm	6 dB	-89 dBm	0%	100%	100% (not changed)	Yes
Eltex-Local (wlan1vap1)	24:df:6a:69:d1:b4	192.168.40.179	android-f5188aa6e186679e	00:00:41	-73 dBm	19 dB	-92 dBm	70%	75%	68%	Yes
Eltex-Local (wlan1vap1)	6c:72:e7:7d:38:39	192.168.40.83	iPhone6S-Den	00:00:50	-64 dBm	28 dB	-92 dBm	59%	100%	80%	Yes
Eltex-Local (wlan1vap1)	dc:f0:90:8b:e3:20	192.168.40.73	android-c73ea2ec51920ecd	00:00:54	-69 dBm	23 dB	-92 dBm	61%	74%	75%	Yes
Eltex-Local (wlan1vap1)	94:53:30:05:6c:d5	192.168.40.127	LAPTOP-UDGPM1A9	00:02:46	-61 dBm	31 dB	-92 dBm	87%	100%	79%	Yes
Eltex-Local (wlan1vap1)	9c:4f:da:80:8c:44	192.168.40.112	iPhone-Leonid	00:03:09	-67 dBm	25 dB	-92 dBm	45%	100%	90%	Yes
Eltex-Local (wlan1vap1)	0c:b3:19:19:2b:2b	192.168.40.159	android-6eafc287effa485c	00:00:23	-55 dBm	37 dB	-92 dBm	73%	100%	Not supported	Yes
Eltex-Guest (wlan1vap2)	d0:17:c2:0d:c6:ea		android-e0cf7606a6c051f3	00:00:05	-68 dBm	24 dB	-92 dBm	89%	100%	75%	Yes
BRAS-Guest (wlan1vap4)	78:02:f8:fa:8f:f4		Redmi4-Redmi	00:00:01	-60 dBm	32 dB	-92 dBm	80%	100%	Not supported	Yes
BRAS-Guest (wlan1vap4)	64:76:ba:a5:8f:de	192.168.53.198	Air-tester	00:01:05	-59 dBm	33 dB	-92 dBm	81%	91%	72%	Yes

The list of third-party access points in WEP-12ac area with data on wireless channel used and transmitted signal level is presented in the **«Status»** menu, **«Rogue AP Detection»** tab.



The list of events is given in the «Status» menu, «Events» tab.



To obtain more detailed information, read the full user manual.

9 Cluster operation mode

9.1 Description

The cluster operation mode allows to manage devices in a cluster simultaneously, that sufficiently improves operation efficiency while deploying, configuring or exploiting a wireless network.

When operating in Cluster mode, it is sufficiently that you configure only one access point. The rest of the access points will copy the configuration of the device with set parameters. If the configuration of one access point in a cluster has been changed, the other access points will apply the same changes. The solution is valid while firmware update. Operation in Cluster mode allows to perform manageable consistent firmware update of devices in a cluster.

The cluster is a group of devices allocated in a single broadcast domain with synchronized configuration and firmware. Cluster mode is enabled by default. The defining parameter of the mode is the name of a cluster by which the identification of device attachment to this cluster is performed. The default name of a cluster is *«default»*. After loading, WEP-12ac defines if there are devices located on the network with the same name as in its configuration. If the devices with these parameters are not found, WEP-12ac becomes a master of the cluster. If the devices belonging to the cluster are found, WEP-12ac starts copying the configuration of a master. Thus, the first device with enabled Cluster mode occurred on the network becomes a master of its cluster. Other devices occurred on the network later and having the same cluster name start duplicating the master configuration. Several clusters with different names might be located in the same network simultaneously. One access point should be included to only one cluster.

WEP-12ac announces its affiliation to a cluster through a special protocol. The device sends broadcast UDP packets to LAN with data on affiliation to a particular cluster. Thus, all the access points included to a cluster exchange data among them, identify a master of the cluster and its configuration. The master carries out an inventory of the devices in the cluster and always controls the quantity of the access points in the cluster and their addresses.

9.2 Installation

It is sufficient that only one access point be configured when deploying a network. For providing data exchange among devices in a cluster, you should install a DHCP server for network addresses distribution. Network installation algorithm:

- 1. DHCP server installation.
- 2. Configuration and physical connection of an access point.
- 3. Physical connection of other access points in the cluster.

After installing the first access point, you do not need to configure the rest, it is sufficient to connect them physically to the network. The devices will obtain network addresses, define the master of the «default» cluster and will be automatically configured according to the master configuration.

9.3 Cluster configuration

- The device may operate in a cluster only if WDS (Wireless Distribution System) and WGB (Work Group Bridge) features are disabled.
- For operation in a cluster Management Ethernet interfaces of all access points should be located in one network.
- Cluster operation mode is disabled by default.

In «Cluster» menu, open «Access Points» tab and perform the following:

Manage access points in the cluster
Clustering: Off ▼
Update
Clustering Options
Enter the location of this AP.
Location: Eltex
Enter the name of the cluster for this AP to join.
Cluster Name: default
Clustering IP Version: ○ IP _V 6 ® IP _V 4
Cluster-Priority: 0 (Range: 0-255, Default: 0)
Click "Update" to save the new settings. Update
Single IP Management
Cluster Management Address: 192.168.10.10 (X.X.X.X
Click "Update" to save the new settings. Update

To edit the settings in the **«Clustering Options»** section, switch cluster mode to **«Off»** state. In **«Clustering Options»** menu, perform the following configuration:

- **Location** specify physical location of the access point. The option is used to analyse and control the network in different monitoring tables. *«Eltex»* is used in the example;
- **Cluster Name** set name cluster. The access point will be connected only to a cluster, which name is specified in *«Cluster Name»*. *«default»* is used in the example;
- **Clustering IP Version** select used IP version for management data exchange among access points in the cluster. *«IPv4»* is used in the example.
- Cluster-Priority set the priority of the device in the cluster. «0» is used in the example.

Click «Update» to save changes.

In «Single IP Management» menu, perform the following configuration:

• Cluster Management Address – specify an address via which the device may access the master cluster. The master should be located in the same subnet with the cluster. «192.168.10.10» is used in the example.

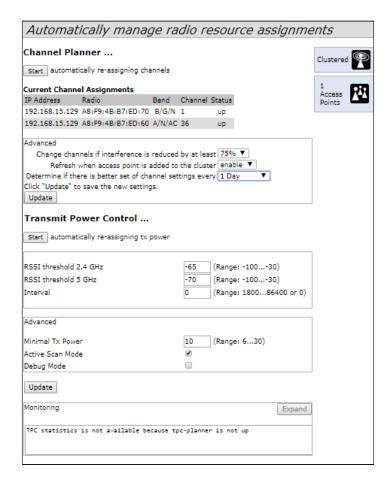
Click «Update» to save changes.

To enable cluster mode, select «On» in the «Clustering» field.

Manage access points in the cluster
,
This access point is operating in stand-alone mode
Softwlc mode only for Captive Portal Instance Configuration
Clustering: On ▼
Update
Clustering Options
Enter the location of this AP.
Location: Eltex
Enter the name of the cluster for this AP to join.
Cluster Name: default
Clustering IP Version: O IPv6 IPv4
Cluster-Priority: 0 (Range: 0-255, Default: 0)
Click "Update" to save the new settings.
Update
Single IP Management
Cluster Management Address: 192,168,10,10 (X.X.X.X.
Choster Management Address: 192.168.10.10 (X.X.X.X.
Click "Update" to save the new settings.
Update

To enable automatic channel selection according to the data on channels used by neighbouring access points and spectral analysis of environment on third-party access points noise, switch to the **«Radio Resource Management»** tab and click **«Start»** in the **«Channel Planner»** section.

To enable automatic output power distribution of the access point according to influence of neighbouring access points which operate in the same cluster, switch to the **«Radio Resource Management»** tab and click **«Start»** in the **«Transmit Power Control»** section.



In the «Advanced» menu, perform the following configuration:

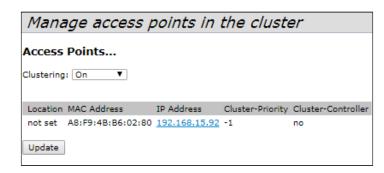
- Change channels if interference is reduced by at least select a percentage that the interference must be reduced by for the access point to change channels. «75%» is used in the example;
- Refresh when access point is added to the cluster enable re-counting of common spectral structure
 of environment and selection of optimal channel for the access point («enable» value) when new access
 point is being connected to the cluster.
- **Determine if there is better set of channel settings every** set a time interval to schedule updates of environment spectral structure determination and selection of better channel for the access points. *«1Day»* is used in the example.

Click «Update» to save changes.

9.4 Monitoring

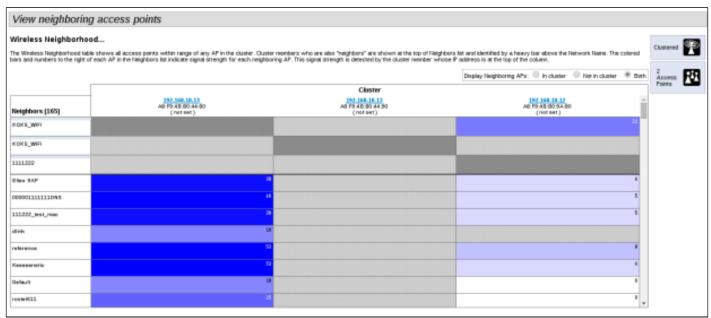
To view sessions parameters of clients connected to the access points of given cluster, switch to the **«Sessions»** tab.

Clients are defined through MAC addresses and an access points which they are connected to. To view the statistics, select necessary value and click **«Go»** in the **«Display»** section. The following parameters might be viewed:



- AP Location access point's location. The value is obtained from location description on the «Basic Settings» tab;
- User MAC MAC address of client's wireless device;
- Idle average time that the device has been in stand-by mode (when the device does not receive or transmit data);
- Rate transmit data rate between an access point and a particular client, in Mbps;
- Signal a level of signal received from an access point;
- Rx Total total number of packets received by a client within current session;
- Transmit Total total number of packets transmitted by a client within current session;
- Error Rate total number of packets dropped by an access point within current session;

To view correspondence of access points in a cluster and wireless networks detected by these devices, switch to the **«Wireless Neighborhood»** tab. There is a table, on the **«Wireless Neighborhood»** tab, that shows which wireless networks are detected by each access point and what signal level each access point accept.



According to this table, spectral analysis of the whole network might be carried out and there is an opportunity to estimate interference influence to each access point. It will help you to estimate better location of access points among coverage area and to define locations with exceeding level of noise. The top string of the table contains data on each radio interface of access points included in a particular cluster. The left column contains data on wireless networks which are defined by the devices in the cluster. A value of signal level of each access point is displayed in the top-right cell of the table.

The table is formed in the way that wireless networks organized by a cluster are displayed first, the third-party networks follow after them.

The table might be displayed in 3 modes:

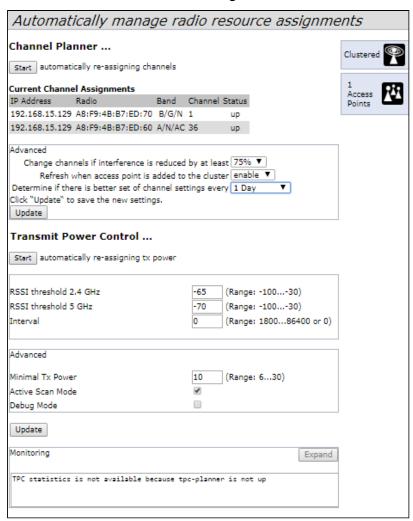
• In cluster – when checked, the table consists data only on wireless networks organized by the cluster;

- Not in cluster when checked, the table consists data only on third-party wireless networks;
- Both when checked, the table consists data on all wireless networks.

To view current list of the access points in the cluster and their parameters, switch to the **«Radio Resource Management»** tab. The table **«Current Channel Assignments»** consists the following parameters:

- IP Address IP address of the access point in the cluster;
- · Radio MAC address of a radio interface of the access point in the cluster;
- Band standards supported by the radio interface of the access point in the cluster at the moment;
- Channel number of a channel on which the access point operate;
- Status operation state of the access point's radio interface in the cluster;
- **Locked** block channel change. When checked, the radio interface will always use the same channel even when another channel is selected as optimal for all the access points in the cluster.

Click «Refresh» to update the table «Current Channel Assignments».



The table «**Proposed Channel Assignments**» contains data on available channel values, which the radio interface will switch to if optimal channel selection has been launched:

- IP Address IP address of the access point in the cluster;
- · Radio MAC address of a radio interface of the access point in the cluster;
- **Proposed Channel** a channel number to which the radio interface will switch when optimal channel selection is launched.

9.5 Firmware update

The operation in the cluster mode allows to perform automatic firmware update for all the access points in the cluster without using external systems or controllers.

Firmware update might be performed:

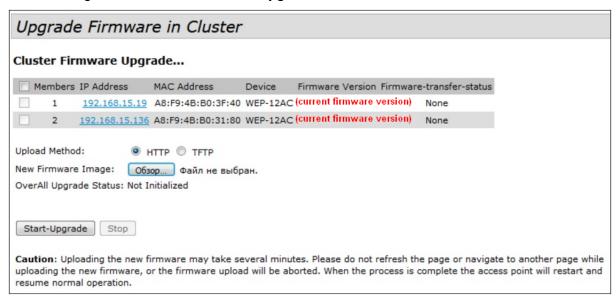
- · through web interface;
- through DHCP Autoprovisioning (opt 66, opt 67).

9.5.1 Firmware update via web interface

To update firmware on devices in a cluster through web interface, open the **«Cluster Firmware Upgrade»** tab of an access point.

When updating firmware of devices in a cluster, the firmware file will be loaded to each access point and set to *«Primary Image»*. Reloading of the devices with new firmware version loading is performed automatically. The previous firmware version will be saved as *«Secondary Image»* (backup firmware version).

Perform the following in the «Cluster Firmware Upgrade» tab:



- **Upload Method** select the firmware loading method for the devices. The loading through TFTP is used in the example:
- · New Filename Image enter a file name of firmware image which will be loaded to the device;

Click «Start-Upgrade» to start updating.

While firmware updating, do not switch off the devices and do not update or change the web page with progress bar.

9.5.2 Firmware updating through DHCP Autoprovisioning

To update firmware, you need a TFTP server and a DHCP server with particular configuration. The updating process is as follows:

- 1. An access point is loaded and obtains address via DHCP. The access point obtains 2 parameters from the server while DHCP session: tftp-server and file name, where tftp-server an IP address of TFTP server, and filename is a name of the file with .manifest extension which contains data on the firmware.
- 2. A master of the cluster, according to received data, starts make attempts to download manifest-file from TFTP server. After downloading the file, the master compares firmware version specified in a file with its

- own. If firmware versions are different, the master downloads firmware file from the TFTP server (file name of the firmware is specified in manifest-file) and updates automatically.
- 3. The other devices in the cluster define that the master is not in operation. Then, new master is selected in the cluster. The device with bigger «uptime» value becomes a master. New master also repeat the second step: downloads manifest-file, compares firmware versions and updates.
- 4. The cycle is repeated until all the devices in the cluster are updated.

Update configuration algorithm:

1. a) Place the "wep12.manifest" file on TFTP server, the file should contain the following string:

VERSION= "1.20.0.X" **WEP-12ac-1.20.0.X.tar.gz**, where

WEP-12ac-1.20.0.X.tar.gz – name of the archive containing firmware for WEP-12ac; 1.20.0.X – a firmware version included to the archive.

The firmware version might be viewed in «version» file in firmware archive.

- 1. b) Place archive with firmware for WEP-12ac on TFTP server.
- 2. c) Correct DHCP server settings (dhcpd.conf) as follows:

option tftp-server-name "192.168.10.1"; option bootfile-name "wep12.manifest"; where 192.168.10.1 – TFTP server address; wep12.manifest – manifest-file name.

TECHNICAL SUPPORT

For technical assistance in issues related to handling Eltex Ltd. equipment, please, address to Service Center of the company:

http://www.eltex-co.com/support

You are welcome to visit Eltex official website to get the relevant technical documentation and software, to use our knowledge base or consult a Service Center Specialist in our technical forum.

http://www.eltex-co.com/

http://www.eltex-co.com/support/downloads/