



TRUMPAS KONFIGŪRAVIMO GIDAS

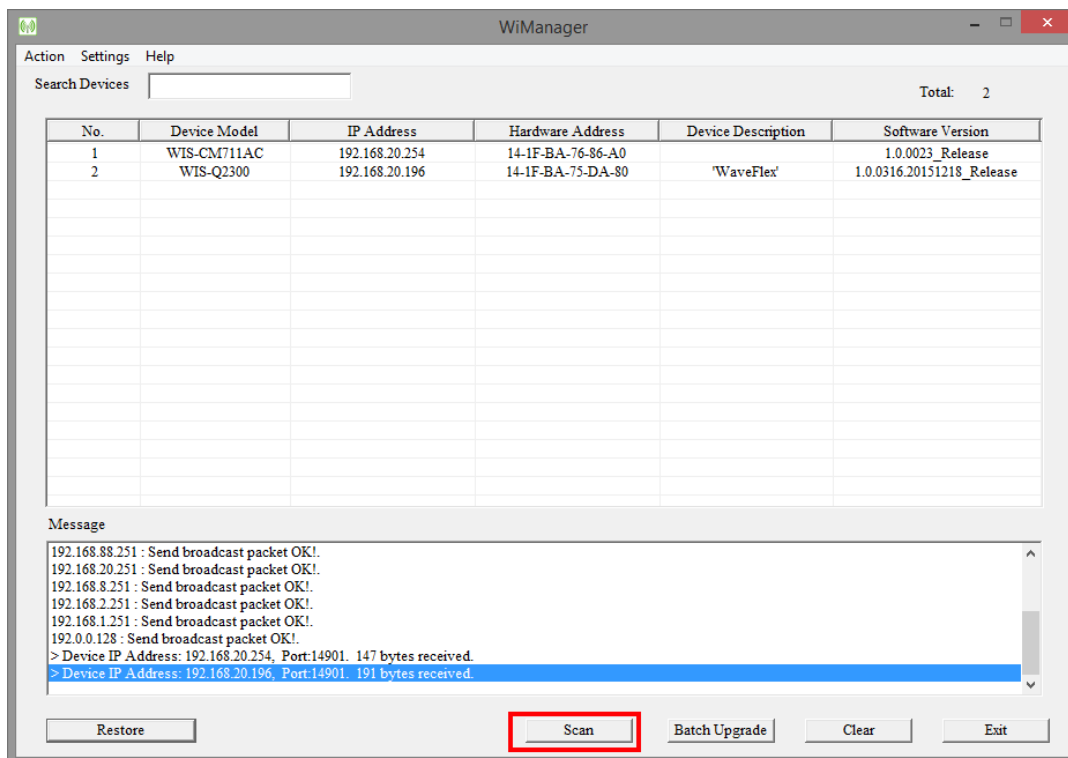
TURINYS

1	WiManager – įrenginių suradimas tinkle	2
2	Prisijungimas prie WIS įrenginio	3
3	Įrenginio konfigūravimas	4
3.1	Slaptažodžio keitimas.....	4
3.2	Prieigos taško tinklo adreso nustatymai	5
3.3	Prieigos taško bevielio tinklo nustatymai	6
3.4	Prieigos taško bevielio tinklo saugumo nustatymai.....	6
3.5	Stoties (arba kliento) tinklo adreso nustatymas	7
3.6	Stoties bevielio tinklo nustatymai.....	8
3.7	Stoties bevielio tinklo saugumas ir prijungimas prie prieigos taško	8
4	Ryšio būseną	10

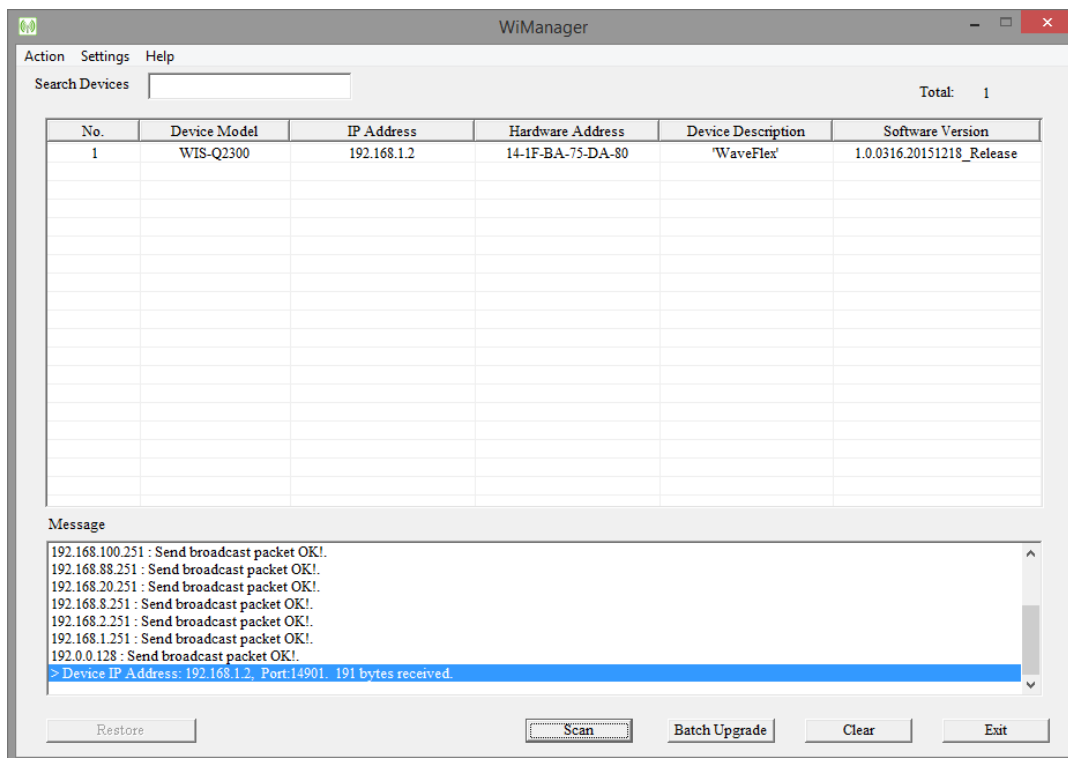
1 WiMANAGER – ĮRENGINIŲ SURADIMAS TINKLE

Šią ir kitas WIS programas galima rasti <http://www.wisnetworks.com> tinklapyje. WiManager galima atsisiųsti čia: <http://www.wisnetworks.com/support.asp?getparid=3&getclassid=51&detailid=79>

Paleidus programą ir nuspaudus „Scan“, ji suras visus WIS įrenginius prijungtus vietiniame tinkle:

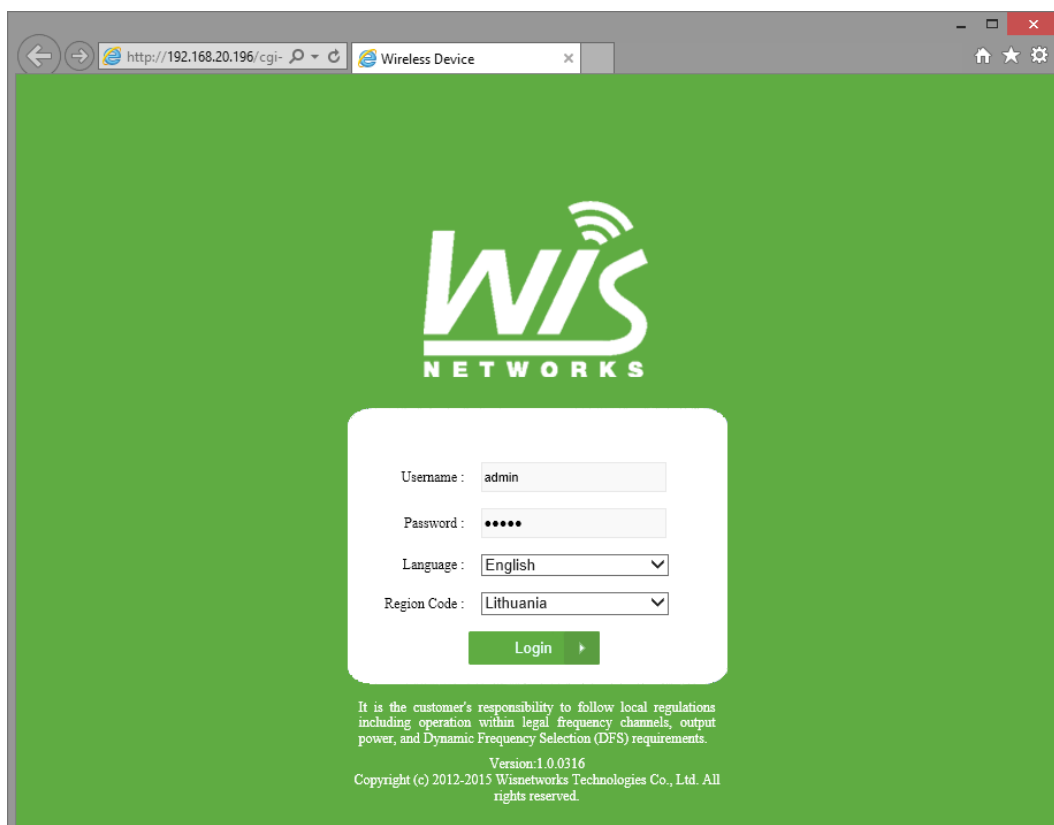


Jei tinkle veikia DHCP serveris, tai labai tikėtina, kad IP adresas bus suteiktas automatiškai, remiantis jūsų tinklo nustatymais. Jei tinkle nėra jokių maršrutizatorių ar kitų DHCP serverių, tai IP adresas bus gamyklinis **192.168.1.2**:



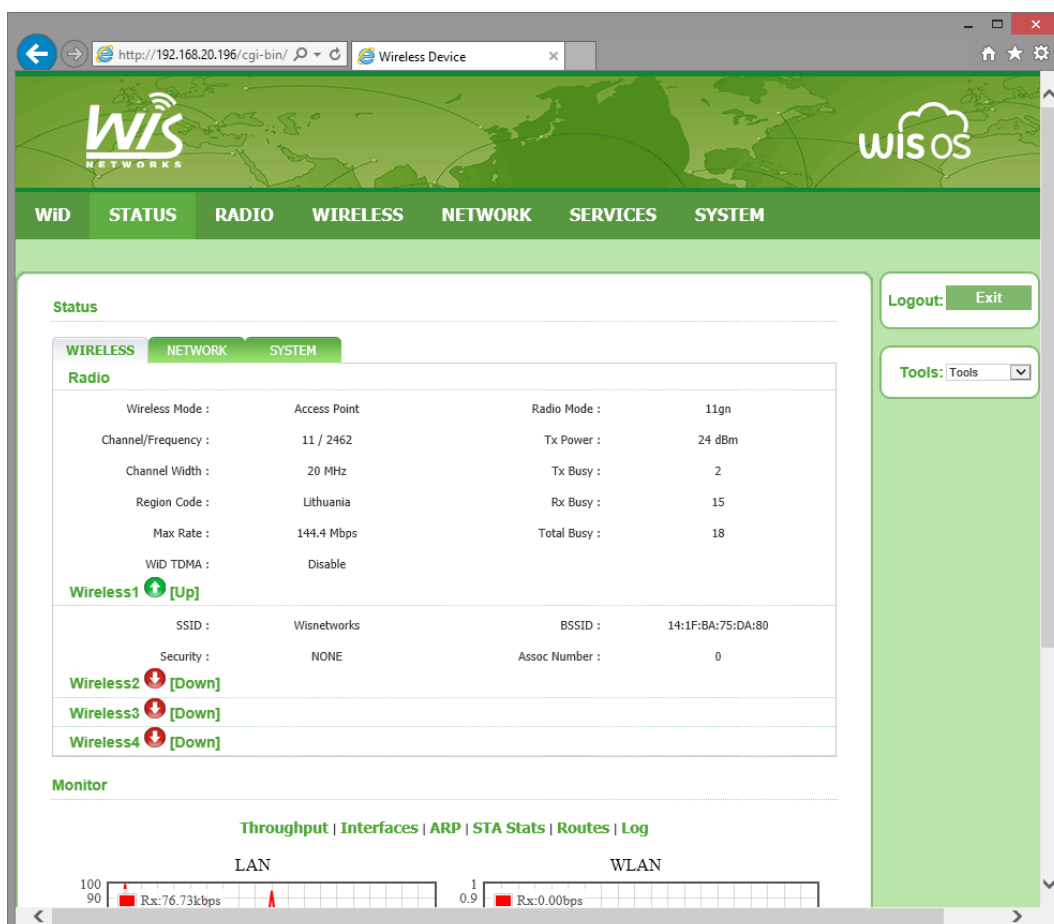
2 PRISIJUNGIMAS PRIE WIS ĮRENGINIO

Naršyklėje suveskite įrenginio IP adresą. Jei tinkle nėra DHCP serverio, tai IP adresas bus 192.168.1.2, o jei DHCP suteikė IP adresą, tai bus jūsų potinklio IP adresas:



Gamyklinis vartotojo vardas bus **admin**, slaptažodis – **admin**. Pirmą kartą prisijungiant, pasirinkite regioną. Spauskite „Login“.

Prisijungus atsivers įrenginio būsenos informacija:



3 ĮRENGINIO KONFIGŪRAVIMAS

3.1 SLAPTAŽODŽIO KEITIMAS

Atsiverčiame SYSTEM lapą:

The screenshot shows the 'SYSTEM' configuration page. The 'SYSTEM' tab is selected in the top navigation bar. The 'System Accounts' section is expanded, showing the 'Change Password' option checked. The 'Username' field is set to 'admin'. The 'Current Password', 'New Password', and 'Verify New Password' fields are all masked with dots. The 'Apply' button is visible at the bottom of the 'System Accounts' section.

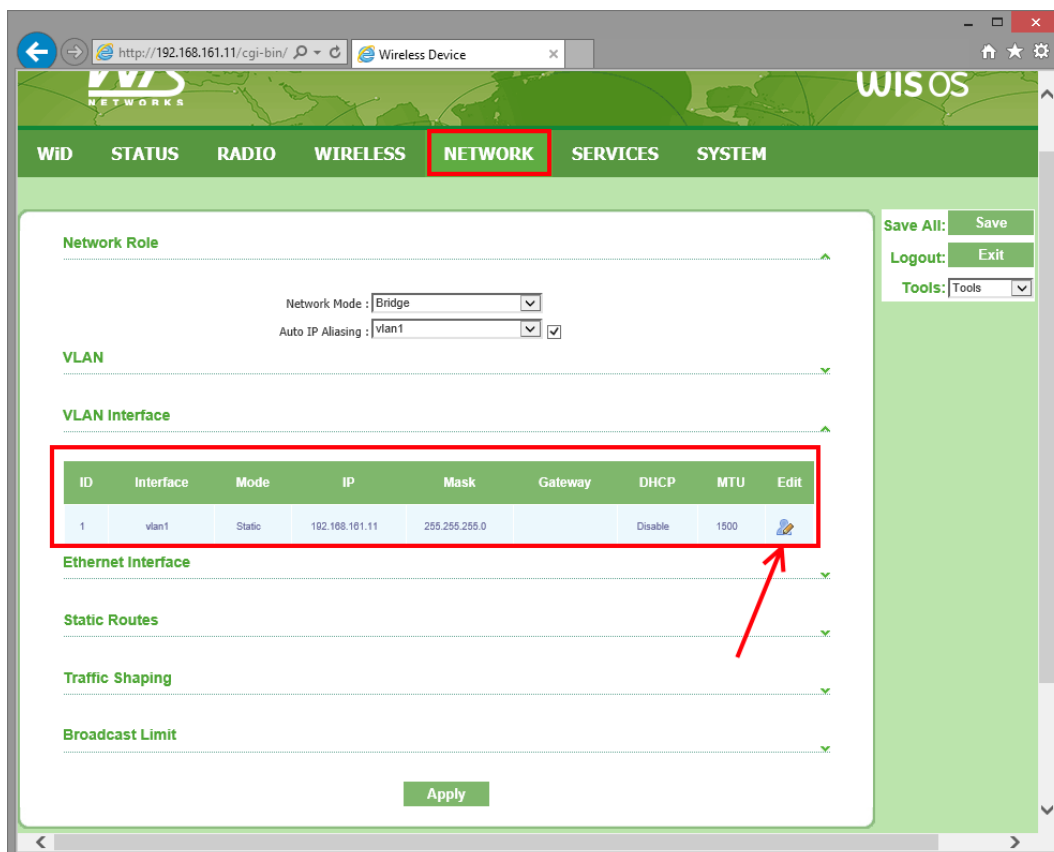
Įrašius naują slaptažodį, nuspauskite „Apply“:

The screenshot shows the 'SYSTEM' configuration page. A green confirmation message box is displayed at the top, stating 'Configuration contains changes. Save these changes?'. The 'Save' button is highlighted in the top right corner of the page. The 'System Accounts' section is expanded, showing the 'Change Password' option checked. The 'Username' field is set to 'admin'. The 'Current Password', 'New Password', and 'Verify New Password' fields are all masked with dots.

Norėdami išsaugoti pakeitimus paspauskite „Save“ mygtuką ant žalios juostos viršuje arba dešiniame kampe „Save All“ (bus išsaugoti visi pakeitimai). Galima tai padaryti vėliau.

3.2 PRIEIGOS TAŠKO TINKLO ADRESO NUSTATYMAI

Atsiverčiame „NETWORK“ lapą ir išsiskleidžiame „VLAN Interface“ skiltį:



Paprastai DHCP nėra naudojama, norint išvengti nenumatytų adresų pakeitimų. Jei nesate profesionalas, tai pasirinkime statinį IP adresą ir įrašome prieigos taško IP adresą (pvz.: 192.168.161.11):

IP : ☒ Static ☐ DHCP ☐ None

IP Address : Primary DNS :

Netmask : Secondary DNS :

Gateway IP :

MTU:

DHCP Server: ☐

PASTABA: Jei antenos bus naudojamos tik surišti du tinklus ir jos nebus administruojamos nuotoliniu būdu, tai IP adresai neprivalo sutapti su jūsų esamo potinklio IP adresais, taip pat šliuzo (gateway) IP gali būti neegzistuojantis arba neįrašytas:

IP : ☒ Static ☐ DHCP ☐ None

IP Address : Primary DNS :

Netmask : Secondary DNS :

Gateway IP :

MTU:

DHCP Server: ☐

3.3 PRIEIGOS TAŠKO BEVIELIO TINKLO NUSTATYMAI

Atsiverčiame „RADIO“ lapą, ir pasirenkame, kad šis įrenginys bus prieigos taškas (Access Point WDS):

The screenshot shows the WIS Networks WIS OS configuration interface. The 'RADIO' tab is selected and highlighted with a red box. The 'Basic Settings' section is expanded, and its contents are also highlighted with a red box. The settings are as follows:

- Wireless Mode: Access Point WDS
- Region Code: Lithuania
- IEEE 802.11 Mode: 802.11gn
- Channel Width: 40 MHz
- Channel Shifting: Disable
- Channel: Auto
- Auto Adjust EIRP Limit: ☐
- Tx Power: 24 dBm
- Max TX Rate: MCS 15 - 300Mbps
- Frequency List(MHz): ☐ Enable

On the right side, there are buttons for 'Save All', 'Save', 'Logout', 'Exit', and a 'Tools' dropdown menu. At the bottom of the 'Basic Settings' section is an 'Apply' button.

3.4 PRIEIGOS TAŠKO BEVIELIO TINKLO SAUGUMO NUSTATYMAI

Atsiverčiame „WIRELESS“ lapą ir išsiskleidžiame „Wireless Security“ skiltį. **BŪTINAI** pasirenkame „Security: WPA2-AES“, „WPA Authentication: PSK“ ir įvedame sugalvotą bevielio slaptažodį (min. 8 simboliai):

The screenshot shows the WIS Networks WIS OS configuration interface. The 'WIRELESS' tab is selected and highlighted with a red box. The 'Wireless Settings' section is expanded, and its contents are highlighted with a blue box. The settings are as follows:

- Wireless Availability: ☒ Enable ☐ Disabled
- Hide SSID: ☐ Enable ☒ Disabled
- SSID: video1
- SSID Charset: UTF-8
- VLAN: 1
- Mac Filter: Disable
- Multicast Optimization: ☐

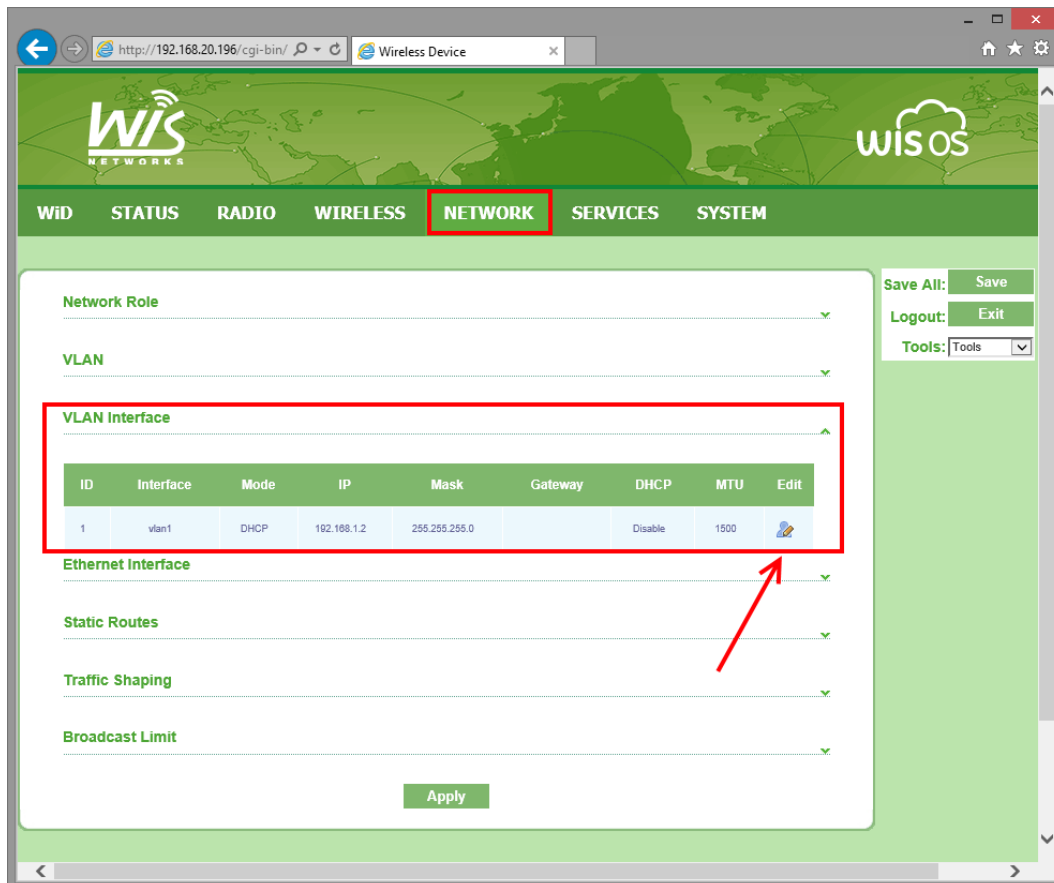
The 'Wireless Security' section is also expanded, and its contents are highlighted with a red box. The settings are as follows:

- Security: WPA2-AES
- WPA Authentication: PSK
- WPA Preshared Key: [masked]


On the right side, there are buttons for 'Save All', 'Save', 'Logout', 'Exit', and a 'Tools' dropdown menu. At the bottom of the 'Wireless Security' section is an 'Apply' button.

3.5 STOTIES (ARBA KLIENTO) TINKLO ADRESO NUSTATYMAS

Atsiverčiame „NETWORK“ lapą ir išsiskleidžiame „VLAN Interface“ skiltį:

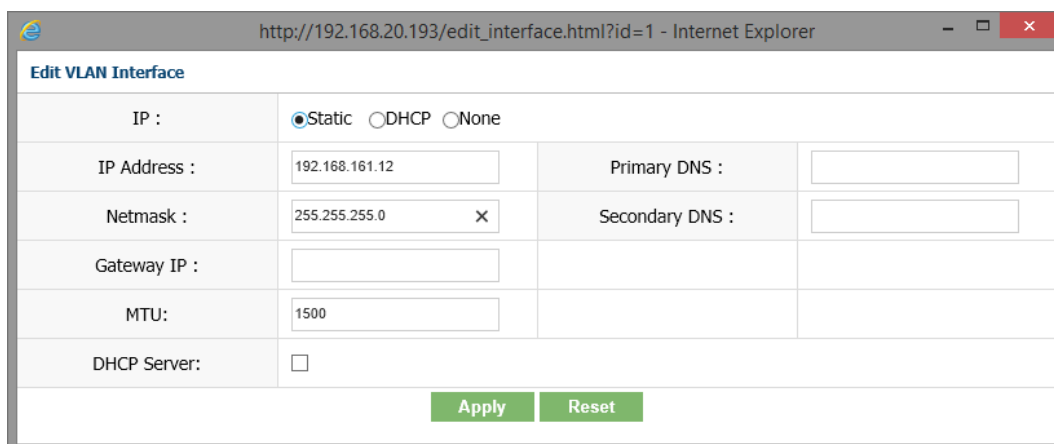


The screenshot shows the WIS Networks management interface. The top navigation bar includes tabs: WiD, STATUS, RADIO, WIRELESS, **NETWORK** (highlighted with a red box), SERVICES, and SYSTEM. The main content area is divided into sections: Network Role, VLAN, **VLAN Interface** (highlighted with a red box), Ethernet Interface, Static Routes, Traffic Shaping, and Broadcast Limit. The VLAN Interface section contains a table with the following data:


ID	Interface	Mode	IP	Mask	Gateway	DHCP	MTU	Edit
1	vlan1	DHCP	192.168.1.2	255.255.255.0		Disable	1500	

A red arrow points to the 'Edit' icon in the table. On the right side of the interface, there are buttons: Save All, Save, Logout, Exit, and a Tools dropdown menu.

Jrašome stoties IP adresą (pvz.: 192.168.161.12):



The screenshot shows the 'Edit VLAN Interface' configuration page in Internet Explorer. The page title is 'http://192.168.20.193/edit_interface.html?id=1 - Internet Explorer'. The form contains the following fields:

IP :	<input checked="" type="radio"/> Static <input type="radio"/> DHCP <input type="radio"/> None		
IP Address :	<input type="text" value="192.168.161.12"/>	Primary DNS :	<input type="text"/>
Netmask :	<input type="text" value="255.255.255.0"/> 	Secondary DNS :	<input type="text"/>
Gateway IP :	<input type="text"/>		
MTU:	<input type="text" value="1500"/>		
DHCP Server:	<input type="checkbox"/>		

At the bottom of the form are two buttons: **Apply** and **Reset**.

3.6 STOTIES BEVIELIO TINKLO NUSTATYMAI

Atsiverčiame „RADIO“ lapą, ir pasirenkame, kad šis įrenginys bus stotis (Station WDS):

WIS NETWORKS WIS OS

WiD STATUS RADIO WIRELESS NETWORK SERVICES SYSTEM

Note: Change the mode will set the value of network mode to bridge.

Basic Settings

Wireless Mode : Station WDS

Region Code : Lithuania

IEEE 802.11 Mode : 802.11gn

Channel Width : 40 MHz

Channel Shifting : Disable

Channel : Auto

Auto Adjust EIRP Limit : ☐

Tx Power : 24 dBm

Max TX Rate : MCS 15 - 300Mbps

Frequency Scan List(MHz) : ☐ Enable

Advanced Settings

WMM Settings

WEP KEY

Apply

Save All: Save

Logout: Exit

Tools: Tools

3.7 STOTIES BEVIELIO TINKLO SAUGUMAS IR PRIJUNGIMAS PRIE PRIEIGOS TAŠKO

Atsiverčiame „WIRELESS“ lapą:

WIS NETWORKS WIS OS

WiD STATUS RADIO WIRELESS NETWORK SERVICES SYSTEM

Wireless Settings

SSID : Wisnetworks Scan

Lock to AP MAC : None

VLAN : 1

DHCP Fake : ☐

Wireless Security

Apply

Save All: Save

Logout: Exit

Tools: Tools

Čia galima surašyti visus parametrus, kuriuos nustatėme prieigos taško konfigūracijoje ir įrenginys prisijungs prie prieigos taško.

Jei prieigos taškas yra įjungtas ir sukonfigūruotas, tuomet nuspaudus mygtuką „Scan“ galima jį surasti:

Scan List - Internet Explorer

http://192.168.161.12/scanlist.html?mode=scan

Scan List

Note: Site Survey can only scan the channel/frequency supported by current region code.

	MAC Address	SSID	Device Name	Auth_mode	Encryption	Signal / Noise, dBm	Frequency, GHz	Channel	
1.	00:0C:8C:00:00:00	WIFI				-60 / -95	2.417	2	<input type="button" value="Lock to AP"/>
2.	00:0C:8C:00:00:00	WIFI		WPA2 WPS	CCMP	-71 / -95	2.412	1	<input type="button" value="Lock to AP"/>
3.	14:1F:BA:75:DA:80	video1	WaveFlex	WPA2	CCMP	-60 / -95	2.412	1	<input type="button" value="Lock to AP"/>
4.	00:0C:8C:00:00:00	WIFI		WPA2 WPS	CCMP	-58 / -95	2.412	1	<input type="button" value="Lock to AP"/>
5.	00:0C:8C:00:00:00	WIFI		WPA2	CCMP	-80 / -95	2.412	1	<input type="button" value="Lock to AP"/>
6.	00:0C:8C:00:00:00	WIFI		WPA2 WPA WPS	CCMP TKIP	-76 / -95	2.437	6	<input type="button" value="Lock to AP"/>
7.	00:0C:8C:00:00:00	WIFI		WPA2 WPA	CCMP TKIP	-87 / -95	2.437	6	<input type="button" value="Lock to AP"/>
8.	00:0C:8C:00:00:00	WIFI		WPA2	CCMP	-53 / -95	2.447	8	<input type="button" value="Lock to AP"/>
9.	00:0C:8C:00:00:00	WIFI		WPA2 WPS	CCMP	-77 / -95	2.462	11	<input type="button" value="Lock to AP"/>
10.	00:0C:8C:00:00:00	WIFI		WPA2 WPS	CCMP	-79 / -95	2.462	11	<input type="button" value="Lock to AP"/>
11.	00:0C:8C:00:00:00	WIFI		WPA2	CCMP	-66 / -95	2.462	11	<input type="button" value="Lock to AP"/>
12.	00:0C:8C:00:00:00	WIFI		WPA2	CCMP	-28 / -95	2.427	4	<input type="button" value="Lock to AP"/>

Nuspaudus mygtuką „Lock to AP“, prieigos taško MAC adresas bus pririštas prie stoties. Reikės įvesti tik bevielio slaptažodį:

Wireless Device

http://192.168.161.12/cgi-bin/

WIS NETWORKS **wisos**

WiD STATUS RADIO WIRELESS NETWORK SERVICES SYSTEM

Wireless Settings

SSID : video1

Lock to AP MAC : 14:1F:BA:75:DA:80

VLAN : 1

DHCP Fake : ☐

Wireless Security

Security : WPA2-AES

WPA Authentication : PSK

WPA Preshared Key :

Save All: Logout: Tools:

4 RYŠIO BŪSENA

Kai stotis bus prisijungusi prie prieigos taško, tai būsenos lape (STATUS), matysite susijungimo informaciją:

The screenshot shows the 'STATUS' page of a 'Wireless Device' web interface. The 'WIRELESS' tab is selected, and the 'Radio' section displays the following details:

Wireless Mode :	Station	Radio Mode :	11gn
Channel/Frequency :	1 / 2412	Tx Power :	24 dBm
Channel Width :	20 MHz	Tx Busy :	0
Region Code :	Lithuania	Rx Busy :	13
Max Rate :	144.4 Mbps	Total Busy :	15
WID TDMA :	Disable		

Below the radio section, the 'Station1' status is shown with the following details:

SSID :	video1	BSSID :	14:1F:BA:75:DA:80
Security :	WPA2AES	Signal Strength :	-33 dBm

The 'Monitor' section at the bottom has tabs for 'Throughput', 'Interfaces', 'ARP', 'AP Stats', 'Routes', and 'Log'. The 'AP Stats' tab is selected, showing the following details for the 'video1' station:

SSID:	video1	BSSID:	14:1F:BA:75:DA:80
Device Name:	WaveFlex	Distance:	150m
Mode:	11gn	Channel:	1
RSSI:	64	Assoc Time:	00 - 00:01:59
Tx/Rx Packets:	1371/2	Tx/Rx Bytes:	330.38K/0.32K
Tx/Rx Rate:	144.4 Mbps/11 Mbps	Security:	WPA2AES

Prieigos taško ryšio informacija:

The screenshot shows the 'STATUS' page of a 'Wireless Device' web interface. The 'WIRELESS' tab is selected, and the 'Radio' section displays the following details:

Wireless Mode :	Access Point	Radio Mode :	11gn
Channel/Frequency :	1 / 2412	Tx Power :	24 dBm
Channel Width :	20 MHz	Tx Busy :	2
Region Code :	Lithuania	Rx Busy :	18
Max Rate :	144.4 Mbps	Total Busy :	23
WID TDMA :	Disable		

Below the radio section, the 'Wireless1' status is shown with the following details:

SSID :	video1	BSSID :	14:1F:BA:75:DA:80
Security :	WPA2AES	Assoc Number :	1

The 'Monitor' section at the bottom has tabs for 'Throughput', 'Interfaces', 'ARP', 'STA Stats', 'Routes', and 'Log'. The 'STA Stats' tab is selected, showing the following details for the 'video1' station:

MAC	SSID	Device Name	Signal	Type	Distance	IP Address	Connect Time	Action
14:1F:BA:75:D7:C8	video1	WaveFlex	66	11gn	150m	0.0.0.0	00 - 00:04:31	kick