SwOS/RB250 RB260

From MikroTik Wiki < SwOS

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Summary

SwOS is an operating system designed specifically for administration of MikroTik switch products.

SwOS is configurable from your web browser. It gives you all the basic functionality for a managed switch, plus more: allows to manage port-to-port forwarding, broadcast storm control, apply MAC filter, configure VLANs, mirror traffic, apply bandwidth limitation and even adjust some MAC and IP header fields.

Warning: Each RouterBOARD switch series have their own firmware which cannot be installed on other series models! In case wrong installation is accidentally done, correct firmware has to be reinstalled following instructions from "Reinstall SwOS firmware" section below.

- RB250GS supports SwOS v1.0 till v1.17.
- RB260GS supports SwOS v1.7 till v1.17.
- RB260GSP supports SwOS v1.11 till v1.17.
- new RB260GS (CSS106-5G-1S), new RB260GSP (CSS106-1G-4P-1S) supports SwOS v2.0 and newer. See CSS106 series manual.

Features	Description
Forwarding	
	 Full non-blocking wirespeed switching Up to 2k MAC entries in Host table Forwarding Database works based on SVL or IVL Port Isolation Port Lock Jumbo frame support - 9198 bytes
Mirroring	 Port based mirroring
VLAN	 Fully compatible with IEEE802.1Q Port based VLAN VLAN filtering
Quality of Service (QoS)	Ingress traffic limiting (by ACL)Egress traffic limiting
Access Control List	 Ingress ACL tables Up to 32 ACL rules (limited by RouterOS) Classification based on ports, L2, L3, L4 protocol header fields ACL actions include filtering, forwarding and modifying of the protocol header fields

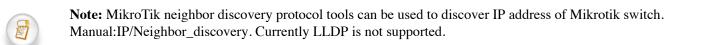
RB260 series features

Connecting to the switch

Open your web browser and enter IP address of your switch (192.168.88.1 by default) and login screen will appear.

MikroTik SwOS		Logout
Link SFP Forwarding Statistics	VLAN VLANS Static Hosts Hosts SNMP ACL System	
Retrieving		
🛛 💿 Authe	ntication Required	
(and)	A username and password are being requested by http://192.168.88.1. The site says: "RB260G"	
User Name:	admin	
Password:		
	Cancel	
SwOS Login		

SwOS default IP address: 192.168.88.1, user name: admin and there is no password.



Interface Overview

SwOS interface menu consists of several tabs: Link, SFP, Forwarding, Statistics, VLAN, VLANs, Static Hosts, Hosts, SNMP, ACL and System.

Description of buttons in SwOS configuration tool:

- Append add new item to the end of the list
- Apply All applies current configuration changes
- Cut removes item from the list
- Clear resets properties of the item
- Discard Changes removes unsaved configuration
- **Insert** add new item to the list (places it before current item)
- Sort sort VLAN table by VLAN-IDs
- Change Password changes password of the switch
- Logout logout from current switch

- **Reboot** reboot the switch
- **Reset Configuration** reset configuration back to factory defaults
- Choose File browse for upgrade or backup file
- **Upgrade** upgrade firmware of the switch
- Restore Backup restore switch configuration using selected backup file
- Save Backup generate and download backup file from the switch

System Tab

System Tab performs the following functions:

- General information about switch
- Switch management
- Configuration reset
- Backup and restore configuration
- Firmware upgrade

MikroTik SwOS					
Link SFP Forwarding Statistics	VLAN VLANs Static Hosts Hosts SNMP ACL System				
General					
IP Address	192.168.88.1				
Identity	MikroTik				
Allow From	m				
Allow From Ports	🖸 1 🗹 2 🗹 3 🗹 4 🗹 5 🗹 SFP				
Allow From VLAN					
Watchdog					
Mikrotik Discovery Protocol					
MAC Address	00:0c:42:72:97:26				
Serial Number	416501AFCF91				
Version	1.17				
Uptime	0:0:48				
General settings					



Note: SwOS uses a simple algorithm to ensure TCP/IP communication - it just replies to the same IP and MAC address packet came from. This way there is no need for Default Gateway on the device itself.

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Property	Description		
IP Address	IP address of the switch		
Identity	Name of the switch (for Mikrotik neighbor discovery protocol)		
Allow From	IP address from which the service is accessible. Default value is '0.0.0.0/0' - any address		
Allow From Ports	List of switch ports from which the service is accessible		
Allow From VLAN	VLAN ID from which the service is accessible (VLAN Mode on ingress port must be other than disabled in order to connect)		
Watchdog	Enable or disable system watchdog. It will reset CPU of the switch in case of fault condition		
Mikrotik Discovery Protocol	Enable or disable Mikrotik neighbor discovery protocol		
MAC Address	MAC address of the switch (read-only)		
Serial Number	Serial number of the switch (read-only)		
Version	Firmware version of the switch (read-only)		
Uptime	Current switch uptime (read-only)		

Password, Backup and Firmware Upgrade

Password Change	
Old Password	
New Password	
Confirm Password	
	Change Password
Backup	
Backup to Restore	Browse No file selected.
	Restore Backup Save Backup Reset Configuration
Firmware Upgrade	
File for Upgrade	Browse No file selected.
	Upgrade Reboot
System management settings	

Firmware can be upgraded/downgraded by selecting firmware file and pressing upgrade button. Switch will reboot automatically after successful upgrade.

PoE and Health (RB260GSP only)

PoE	
Port1 PoE In Long Cable	
Health	
Voltage	23.485V
Temperature	33C
	Discard Changes Apply All
RB260GSP PoE and Health settings	

Property	Description
Port1 PoE In Long Cable	If enabled, it will turn off short detection on all PoE out ports to allow use of longer ethernet cables. This is potentially dangerous setting and should be used with caution.
Voltage	Shows the input voltage measured in volts
Temperature	Shows PCB temperature in celsius temperature scale

Link Tab

Link Tab allows you to:

- Configure Ethernet portsMonitor status of Ethernet ports

MikroTik Sw	os				Logou
Link SFP Forwa	ording Statistics	VLAN VLANs	Static Hosts Host	SINMP ACL S	ystem
	Port1	Port2	Port3	Port4	Port5
Link					
Enabled					
Link Status	link on	link on	no link	no link	link on
Auto Negotiation					
Speed	1000	100 🔹			100
Full Duplex	yes		no	no	yes

Property	Description
Enabled	Enable or disable port
Link Status	Current link status (read-only)
Auto Negotiation	Enable or disable auto negotiation
Speed	Specify speed setting of the port (requires auto negotiation to be disabled)
Full Duplex	Specify duplex mode of the port (requires auto negotiation to be disabled)
Flow control	Enable or disable 802.3x Flow control

PoE (RB260GSP only)

PoE settings configure Power over Ethernet output on RB260GSP port2-port5 and show PoE status and measurements.

PoE				
PoE Out	auto 🌲	off 🔹	auto 🌲	on 🛟
PoE Priority	1 🔹	2 🌲	3 🌲	4
PoE Status disabled	powered on	disabled	waiting for load	powered on
PoE Current	58mA			86mA
PoE Power	1.364W			2.022W
			Dis	card Changes Apply All
RB260GSP PoE Out settings				

Property	Description
PoE Out	Sets PoE out mode of the port:
	 off - All detection and PoE out is turned off auto - Detection is done regarding resistance on the spare pairs to check if port has PoE capability. For port to be turned on measured value should be within range from 3kΩ to 26.5kΩ on - PoE out is enabled regardless of the resistance on the port. Use this with caution as that can damage connected equipment! calibr - Manual port PoE out recalibration. It may be necessary if there are ocasional problems with powering connected devices.
PoE Priority	Port priority for PoE out supply. If installation is going over power budged, port with the lowest priority is going to be turned off first. 1 - the highest priority port; 4 - the lowest priority port
PoE Status	Current PoE out status of the port (read-only):
	 disabled - PoE out is turned off waiting for load - "auto" mode detects out of range resistance to turn on PoE out powered on - PoE out is turned on short circuit - If it is detected, PoE out is turned off to ensure that there is no additional damage on powered device and no damage on powering device voltage too low - Not enough voltage supplied to turn on device with PoE out current too low - Not enough current supplied to turn on device with PoE out waiting for cable disconnect - Manual recalibration with "calibr" has detected connected device and waits for disconnection to complete the recalibration process
PoE Current	Shows current usage on the port measured in miliamperes
PoE Power	Shows PoE out power on the port measured in watts

SFP Tab

SFP Tab allows you to:

- Configure SFP portMonitor status of SFP port

SFP	
Enabled	
Auto Negotiation	
Module Present	yes
Vendor	Mikrotik
Part Number	S-85DLC05D
Revison	
Serial	FS30713H002
Date	13-07-15
Wavelength	850nm
Supported Link Lengths	
Single Mode Fiber	
50um OM2 Fiber	550m
62.5um OM1 Fiber	550m
Copper	
Status	
Loss Of Signal	по
Temperature	38C
Voltage	3.2656V
Tx Bias	8.176mA
	Discard Changes Apply All
Link settings	

Property	Description
Enabled	Enable or disable SFP port
Auto Negotiation	Enable or disable auto negotiation of SFP port (some SFP modules may required it



Note: Using SFP+ 1m/3m DAC cable or S-RJ01 module, the device always shows that link is established even if nothing is connected on other end.

Forwarding Tab

Forwarding Tab provides advanced forwarding options among switch ports, port locking, port mirroring, bandwidth limit and broadcast storm control features.

On RB260 series switches ingress rate per port as well as rate for broadcast traffic can be configured with Access Control List by setting **Rate**. ACL must have one port per entry to provide bandwidth limiting properly.

	Port1	Port2	Port3	Port4	Port5	SFP
Forwarding						
From Port 1		S				
From Port 2						
From Port 3						
From Port 4						
From Port 5						
From SFP						
Port Lock						
Port Lock						
Lock On First						
Port Mirrorin	g					
Mirror Ingress						
Mirror Egress						
Mirror To	۲	0	0	0	0	0
Bandwidth Li	mit					
Egress Rate		250M	70M		30M	
					Dis	scard Changes Apply A
Forwarding setting	zs					

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Property	Description
Forwarding	Forwarding table - allows or restricts traffic flow between specific ports
Port Lock	 Port Lock - Enable or disable MAC address learning on this port Lock On First - Enable or disable MAC address learning on this port (MA address from the first recieved packet will still be learnt)
Port Mirroring	Mirror Ingress - Whether traffic entering this port must be copied and
	forwarded to mirroring target port
	 Mirror Egress - Whether traffic leaving this port must be copied and forwarded to mirroring target port
	 Mirror To - Mirroring target port
Bandwidth Limit	
	 Ingress Rate - Limit traffic entering this port (bps) (only supported on RB250GS)
	 Egress Rate - Limit traffic leaving this port (bps)
Broadcast Storm Contro	bl
	 Storm Rate - Limit the number of broadcast packets transmitted by an interface (only supported on RB250GS)
	 Include Unicast - Include unicast packets without an entry in host table in Storm Rate limitation (only supported on RB250GS)

Statistics Tab

Provides detailed information about received and transmitted packets.

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	Port1	Port2	Port3	Port4	Port5	SFP
Rx						
Bytes	31814061	116	16302	0	301213	507691015
Total Packets	244681	1	110	0	2326	335803
Unicasts	167265	0	81	0	313	335755
Broadcasts	33652	1	15	0	1007	25
Multicasts	43764	0	14	0	1006	23
64	157746	0	1	0	2	3
65-127	42919	1	81	0	1243	964
128-255	20376	0	15	0	1022	293
256-511	1421	0	0	0	34	236
512-1023	22219	0	13	0	16	4
1024-1518	0	0	0	0	9	334303
1519-max	0	0	0	0	0	0
Pauses	0	0	0	0	0	0
Total Errors	0	0	0	0	0	0
FCS Errors	0	0	0	0	0	0
Align Errors	0	0	0	0	0	0
Runts	0	0	0	0	0	0
Fragments	0	0	0	0	0	0
Too Long	0	0	0	0	0	0
Overflows	0	0	0	0	0	0
Тх						
Bytes	69513735	7129084	153615462	0	214264900	7586088
Total Packets	149570	76091	102556	0	211807	80711
Port statistics						

Packet Flow

Packet processing in SwOS is described here: Atheros8316 packet flow diagram (http://wiki.mikrotik.com/wiki/Manu al:Packet_flow_through_Atheros8316)

VLAN Tab

VLAN configuration for switch ports.

	Port1	Port2	Port3	Port4	Port5	SFP
Ingres	S					
VLAN Mode	optional 🔹	enabled 🜲	strict	strict	strict	strict
VLAN Receive	any 🛟	only tagged	only untagged 🛟	only untagged	only untagged 🔹	any
Default VLAN ID	1	1	200	300	400	1
Force VLAN ID						
Egress						
VLAN Header	leave as is	leave as is	leave as is	leave as is	leave as is	leave as is
					Discar	d Changes Apply /
LAN set	ttings					
	Property			Description		
VLAN I	Mode					

VLAN mode for ingress port:

- disabled VLAN table is not used. Switch ignores VLAN tag part of tagged packets
- optional Handle packets with VLAN tag ID that is not present in VLAN table just like packets without VLAN tag
- enabled Drop packets with VLAN tag ID that is not present in VLAN table.
 Packets without VLAN tag are treat as tagged packets with Default VLAN ID
- strict Same as enable, but also checks VLAN support for inbound interface (drop packets with VLAN tag ID and ingress port that are not present in VLAN table)

 VLAN Receive
 Defines the type of allowed packets on ingress port: any / only tagged / only untagged (only supported on RB260GS)

Default VLAN ID Switch will treat both untagged and "Default VLAN ID" tagged ingress packets as they are tagged with this VLAN ID. It is also used to untag egress traffic if packet's VLAN ID matches "Default VLAN ID". The VLAN tag itself will only be added if there is VLAN Header = add if missing specified on egress port

Force VLAN ID Whether to apply Default VLAN ID to incoming packets with VLAN tag

VLAN Header

- leave as is if VLAN header is present it remains unchanged
- **always** strip if VLAN header is present it is removed from the packet

 add if missing - if VLAN header is not present it is added to the packet (VLAN ID will be Default VLAN ID of ingress port)



Note: VLAN modes **enabled** and **strict** require VLAN ID 1 in VLANs table to allow access of untagged traffic to switch itself.

Example

- 802.1Q Trunk (http://wiki.mikrotik.com/wiki/SwOS/Router-On-A-Stick)
- 802.1Q Trunk with two switches (http://wiki.mikrotik.com/wiki/SwOS/SWOS-802.1Q-TrunkTwoSwitches)

VLANs Tab

VLAN tables specifies certain forwarding rules for packets that have specific 802.1q tag. Basically the table contains entries that map specific VLAN tag IDs to a group of one or more ports. Packets with VLAN tags leave switch through one or more ports that are set in corresponding table entry. VLAN table works together with destination MAC lookup to determine egress ports. VLAN table supports up to 4096 entries.

RB250GS VLANs tab

Link Forward		VLANs Static Hosts	Hosts SNMP ACL	System		Logo
		II II II				
LAN ID	Port1	Port2	Port3	Port4	Port5	
100		S				Cut
300		S				Cut
400		S		S		Out Insert
					Append Sort	Discard Changes Apply A
B250GS VI	LANs settings					
P	roperty			Descript	tion	
VLAN ID		VLAN ID of	the packet			
Ports		Ports the pack	ket should be ma	apped to		

RB260GS VLANs tab

VLAN ID	Port1	Port2	Port3	Port4	Port5	SFP	
100	not a member 🌲	add if missing 🌲	always strip	not a member 🌲	not a member 🌲	not a member 🌲	Cut
300	not a member 🔹	add if missing 🌲	not a member 🔹	always strip 🌲	not a member 🔹	not a member 🔹	Cut
400	not a member 🌲	leave as is	leave as is	leave as is	leave as is 📫	leave as is	Cut Inse

Property	Description
VLAN ID	VLAN ID of the packet
Ports	Each port has individual <i>VLAN header</i> options for each VLAN ID. Depending on <i>VLAN mode</i> if lookup is done in this table, egress action of packets is processed by this option. Egress option from VLAN tab is ignored.

Hosts Tab

This table represents dynamically learnt MAC address to port mapping entries. When switch receives a packet from certain port, it adds the packets source MAC address X and port it received the packet from to host table, so when a packet comes in with destination MAC address X it knows to which port it should forward the packet. If the destination MAC address is not present in host table then it forwards the packet to all ports in the group. Dynamic entries take about 5 minutes to time out.

Note: RB250G and RB260G series switches support 2048 host table entries.

X d4:ca:6d:54:be:7c 300 X d4:ca:6d:54:be:7c 200 X d4:ca:6d:54:be:7c 1 d4:ca:6d:1c:15:25 1 X d4:ca:6d:b2:97:a4 300 X d4:ca:6d:7c:e9:e2 200 X d4:ca:6d:7c:e9:e2 200 X d4:ca:6d:7c:e9:e2 200 X 00:22:4d:89:0b:69 1	Port1 Port2		Port3	Port4	Port5	SFP	MAC	VLAN ID
X d4:ca:6d:54:be:7c 1 d4:ca:6d:1c:15:25 1 X d4:ca:6d:b2:97:a4 300 X d4:ca:6d:7c:e9:e2 200 X 00:22:4d:89:0b:69 1						x	d4:ca:6d:54:be:7c	300
d4:ca:6d:1c:15:25 1 X d4:ca:6d:b2:97:a4 300 X d4:ca:6d:7c:e9:e2 200 X 00:22:4d:89:0b:69 1						x	d4:ca:6d:54:be:7c	200
X d4:ca:6d:b2:97:a4 300 X d4:ca:6d:7c:e9:e2 200 X 00:22:4d:89:0b:69 1						х	d4:ca:6d:54:be:7c	1
X d4:ca:6d:7c:e9:e2 200 X 00:22:4d:89:0b:69 1							d4:ca:6d:1c:15:25	1
X 00:22:4d:89:0b:69 1					х		d4:ca:6d:b2:97:a4	300
			х				d4:ca:6d:7c:e9:e2	200
Host table	х						00:22:4d:89:0b:69	1
Host table								
	Host table							
Property Description	n					D		

Ports

MAC

Ports the packet should be forwarded to (read-only)

Learned MAC address (read-only)

https://wiki.mikrotik.com/wiki/SwOS/RB250_RB260

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VLAN ID

Learned VLAN ID (read-only) (only supported on RB260GS/RB260GSP)

Static Hosts Tab

Static host table entries. Static entries will take over dynamic if dynamic entry with same mac-address already exists. Also by adding a static entry you get access to some more functionality.

Port1	Port2	Port3	Port4	Port5	SFP	MAC	VLAN ID	Drop	Mirror	
S						00:01:29:ff:1d:cc	1			Insert Out
		9				00:0c:42:70:ff:96	200		S	Insert Cut
S	5	5	5	5		ff:ff:ff:ff:ff	1	8		Insert Cut
						(Append	Dis	card Changes	Apply All
Static ho	ost table									

Property	Description
Ports	Ports the packet should be forwarded to
MAC	MAC address
VLAN ID	VLAN ID (only supported on RB260GS/RB260GSP)
Drop	Packet with certain MAC address coming from certain ports can be dropped
Mirror	Packet can be cloned and sent to mirror-target port

ACL Tab

An access control list (ACL) rule table is very powerful tool allowing wire speed packet filtering, forwarding and VLAN tagging based on L2,L3 protocol header field conditions. SwOS allow you to implement limited number of access control list rules (32 simple rules (only L2 conditions are used); 16 rules where both L2 and L3 conditions are used; or 8 advanced rules where all L2,L3 and L4 conditions are used). Each rule contains a conditions part and an action part.

From: 1 2 3 4 5 SFP		Qear Out Insert
MAC Src:	MAC Dst:	Ethertype: hex
VLAN: present	VLAN ID: 200	Priority:
IP Src:	IP Dst:	Protocol: DSCP:
Redirect To 1 2 3 4 5 SFP	Mirror Rate:	Set VLAN ID: Priority:
From: 🗹 1 🗹 2 🗹 3 🗹 4 🗹 5 🗹 SFP		Clear Cut Insert
MAC Src:	MAC Dst: ff:ff:ff:ff:ff	Ethertype: hex
VLAN: any		
	VLAN ID:	Priority:
IP Src:	IP Dst:	Priority: Protocol: DSCP:
IP Src:	IP Dst:	Protocol: DSCP:
IP Src:	IP Dst:	Protocol: DSCP:

Conditions part parameters

Property	Description		
From	Port that packet came in from		
MAC Src	Source MAC address and mask		
MAC Dst	Destination MAC address and mask		
Ethertype	Protocol encapsulated in the payload of an Ethernet Frame		
VLAN	VLAN header presence:		
	anypresentnot present		
VLAN ID	VLAN tag ID		
Priority	Priority in VLAN tag		
IP Src (IP/netmask:port)	Source IPv4 address, netmask and L4 port number		
IP Dst (IP/netmask:port)	Destination IPv4 address, netmask and L4 port number		
Protocol	IP protocol		
DSCP	IP DSCP field		

Action part parameters

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Property	Description		
Redirect To	Whether to force new destination ports. If Redirect To is enabled and no ports specified in Redirect To Ports, packet will be dropped		
Redirect To Ports	Destination ports		
Mirror	Clones packet and sends it to mirror-target port		
Rate	Limits bandwidth (bps) (only supported on RB260GS/RB260GSP)		
Set VLAN ID	Changes the VLAN tag ID, if VLAN tag is present		
Priority	Changes the VLAN tag priority bits, if VLAN tag is present		

SNMP Tab

SNMP Tab consists of settings to monitor the switch remotely.

Available SNMP data:

- System information
- System uptime
- Port status
- Interface statistics

Enabled	
Community	public
Contact Info	
Location	
	Discard Changes Apply All
SNMP settings	

Property	Description		
Enabled	Enable or disable SNMP service		
Community	SNMP community name		
Contact Info	Contact information for the NMS		
Location	Location information for the NMS		

Reset

SwOS v1.x - RB260GS and RB260GSP

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There are two ways to reset the device to defaults:

Reset button

The only button on the SwOS device. It has two functions:

- Hold this button during boot time until LED light starts flashing, release the button to reset SwOS configuration (same result as with reset hole)
- Hold this button during boot time longer, until LED starts to blink twice as fast, and then release it to make the device wait for TFTP firmware upgrade

Jumper reset hole

Located on the bottom of case, behind one of the rubber feet of device – resets SwOS software to defaults. Must short circuit the metallic sides of the hole (with a screwdriver, for example) and boot the device. Hold screwdriver in place until SwOS configuration is cleared.

Reinstall SwOS firmware

It is possible to upload and install SwOS firmware using BOOTP. This example shows how to reinstall SwOS using RouterOS.



Warning: Each RouterBOARD switch series have their own firmware which cannot be installed on other series models! In case wrong installation is accidentally done, correct firmware has to be reinstalled following these instructions.

- RB250GS supports SwOS v1.0 till v1.17.
- RB260GS supports SwOS v1.7 till v1.17.
- RB260GSP supports SwOS v1.11 till v1.17.

• Configure IP address and DHCP server with BOOTP enabled on the installation router.

```
/ip address
add address=10.0.0.1/24 interface=ether1
```

```
/ip pool
add name=dhcp_pool1 ranges=10.0.0.2-10.0.0.254
/ip dhcp-server
add interface=ether1 address-pool=dhcp_pool1 bootp-support=dynamic disabled=no
/ip dhcp-server network
add address=10.0.0.0/24 gateway=10.0.0.1
```

• Upload new SwOS firmware file to the router filesystem.

[admin@MikroTik] /file> print					
	# NAME	TYPE	SIZE	CREATION-TIME	
	0 swos-rb260-1.14.lzb	.lzb file	38142	sep/02/2014 08:40:17	

• Configure TFTP server.

/ip	tftp			
add	<pre>ip-addresses=10.0.0/24</pre>	<pre>real-filename=swos-rb260-1.14.lzb</pre>	<pre>read-only=yes</pre>	allow=yes

- Hold the RESET button of the switch when starting it.
- After few seconds ACT LED will start blinking. Wait till ACT LED blinks twice as fast and release RESET button.
- Make ethernet connection between the switch Port1 and ethernet port you configured DHCP server on. After few seconds new firmware should be successfully uploaded and installed.

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