

# Настройка SNMPv2c

- 1) Настройка SNMPv2 (web интерфейс)
- 2) Проверка работы



# 1) Настройка SNMPv2 (web интерфейс)

SNMPv2 по умолчанию включен.

Настройки по умолчанию:

[Home](#) >> [Service](#) >> [SNMP](#) >> [Community Configuration](#)

Path: [Home](#) >> [Service](#) >> [SNMP](#) >> [Community Configuration](#)

Community Configuration

Index	Community	Version	Access Priority
1	public	V2C	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
2	private	V2C	<input type="radio"/> Read Only <input checked="" type="radio"/> Read And Write
3		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
4		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
5		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
6		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
7		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
8		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
9		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
10		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
11		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
12		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
13		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
14		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
15		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
16		V1	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write

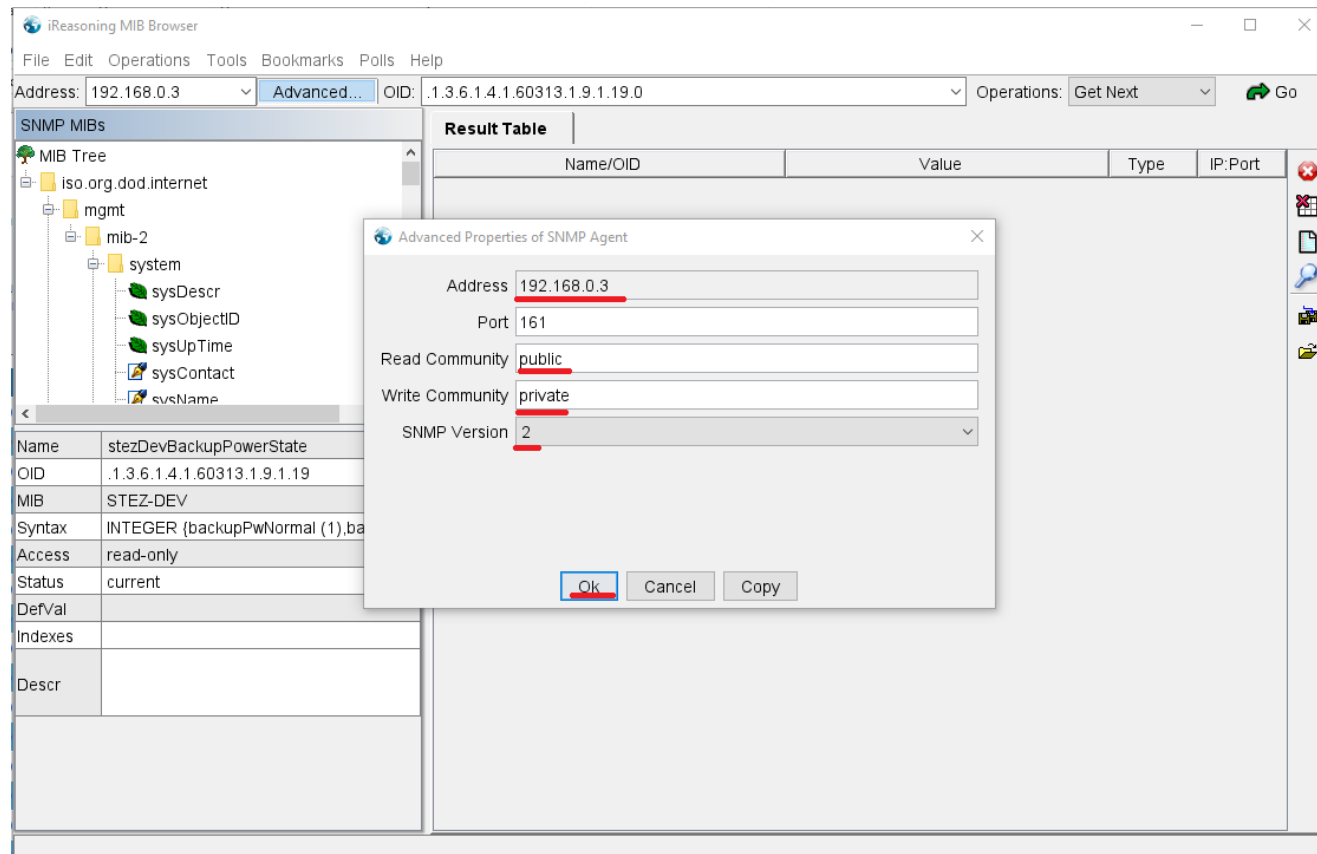
Apply



## 2) Проверка работы

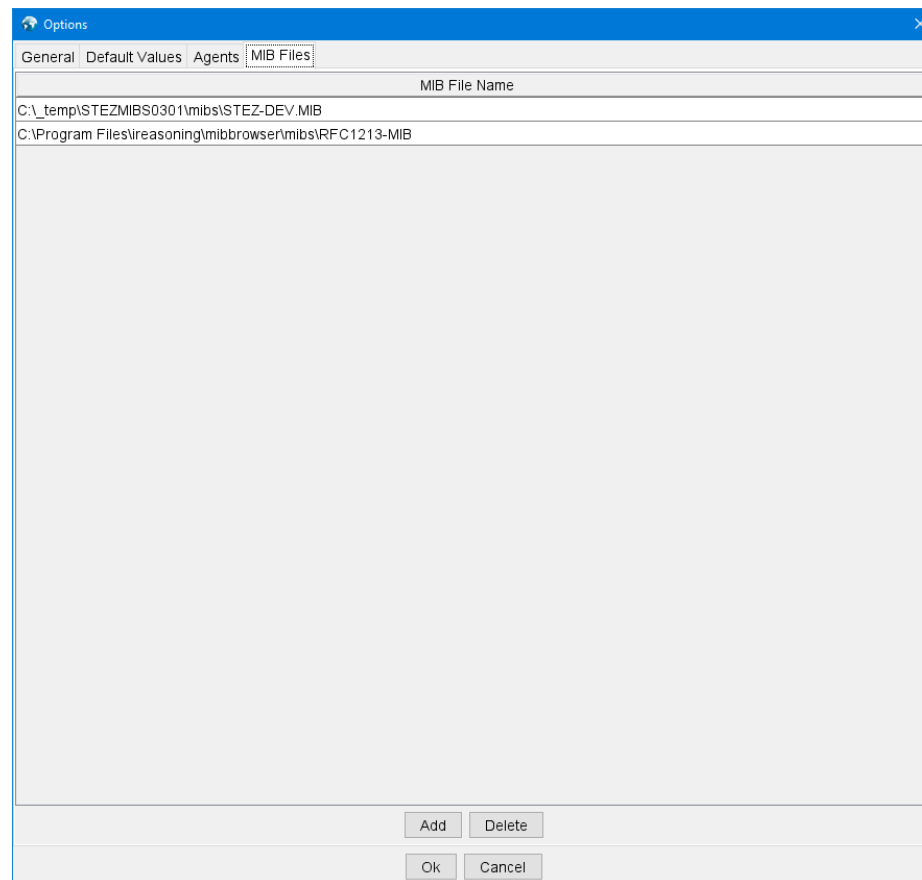
Для проверки работы используем MIB Brower.

В настройках указываем IP адрес коммутатора, Read Community «public», Write Community «private», SNMP Version 2.



## 2) Проверка работы

Коммутатор может работать со стандартными MIB. Например, MIB RFC1213. Также поддерживаются MIB от STEZ (предоставляются по запросу).  
Просмотр загруженных в приложение MIB:



## 2) Проверка работы

### Проверка работы стандартного MIB RFC1213:

The screenshot shows the iReasoning MIB Browser interface. The top bar includes a menu (File, Edit, Operations, Tools, Bookmarks, Polls, Help) and input fields for Address (192.168.0.3), Advanced..., and OID (.1.3.6.1.2.1.4.20.1.1). The Operations dropdown is set to 'Get Next' with a 'Go' button.

The left pane displays the SNMP MIBs tree, with 'ipAdEntAddr' selected under 'ipAddrTable'. Below the tree, a table lists the entry's properties:

Name	ipAdEntAddr
OID	.1.3.6.1.2.1.4.20.1.1
MIB	RFC1213-MIB
Syntax	IPADDRESS
Access	read-only
Status	mandatory
DefVal	
Indexes	ipAdEntAddr
Descr	The IP address to which this entry's addressing information pertains.

The right pane shows the 'Result Table' with the following data:

Name/OID	Value	Type	IP:Port
sysDescr.0	STEZ Ethernet Switch	OctetString	192.168.0.3:161
sysUpTime.0	38 minutes 17.78 seconds (229778)	TimeTicks	192.168.0.3:161
sysContact.0	mail@stezelectro.ru	OctetString	192.168.0.3:161
sysName.0	switch03	OctetString	192.168.0.3:161
sysLocation.0	142821, Moscow region, Stupino urban district, S...	OctetString	192.168.0.3:161
ifOperStatus.1	up (1)	Integer	192.168.0.3:161
ifOperStatus.2	down (2)	Integer	192.168.0.3:161
ifOperStatus.3	down (2)	Integer	192.168.0.3:161
ifOperStatus.4	down (2)	Integer	192.168.0.3:161
ifOperStatus.5	down (2)	Integer	192.168.0.3:161
ifOperStatus.6	down (2)	Integer	192.168.0.3:161
ifOperStatus.7	down (2)	Integer	192.168.0.3:161
ifOperStatus.8	down (2)	Integer	192.168.0.3:161
ifOperStatus.9	up (1)	Integer	192.168.0.3:161
ifOperStatus.10	down (2)	Integer	192.168.0.3:161
ifOperStatus.11	down (2)	Integer	192.168.0.3:161
ifOperStatus.12	down (2)	Integer	192.168.0.3:161
ipAdEntAddr.192.168.0.3	192.168.0.3	IpAddress	192.168.0.3:161

The status bar at the bottom displays the full OID path: .iso.org.dod.internet.mgmt.mib-2.ip.ipAddrTable.ipAddrEntry.ipAdEntAddr.



## 2) Проверка работы

### Проверка работы MIB STEZ-DEV:

iReasoning MIB Browser

File Edit Operations Tools Bookmarks Polls Help

Address: 192.168.0.3 Advanced... OID: .1.3.6.1.4.1.60313.1.9.2.10.0 Operations: Get Next Go

SNMP MIBs

- devMemoryAllocNum
- cpuUtilRateLimit
- memUtilRateLimit
- devRingLoadRate
- devMemoryUtilRate
- devTemperature
- devTemperatureHighLimit
- devTemperatureLowerLimit
- stezProducts
- stezTraps

Result Table

Name/OID	Value	Type	IP:Port
stezDevName.0	switch03	OctetString	192.168.0.3:161
stezDevMasterPowerState.0	powerDisable (2)	Integer	192.168.0.3:161
stezDevBackupPowerState.0	backupPwNormal (1)	Integer	192.168.0.3:161
stezGetDevMac.0	0x00 0x1E 0xCD 0x66 0x45 0x17	OctetString	192.168.0.3:161
stezDevTypeName.0	STEZ3000-8G-4GSFP-24	OctetString	192.168.0.3:161
stezDevSerialNumber.0	S60C0057A231200008	OctetString	192.168.0.3:161
stezDevSwVersion.0	T0002	OctetString	192.168.0.3:161
stezDevHwVersion.0	V1.1	OctetString	192.168.0.3:161
stezDevLgVersion.0	V1.1.2	OctetString	192.168.0.3:161
cpuCurrentUtilRate.0	1	Integer	192.168.0.3:161
cpuLongTimeUtilRate.0	2	Integer	192.168.0.3:161
devMemoryTotalNum.0	1032800	Gauge	192.168.0.3:161
devMemoryFreeNum.0	837312	Gauge	192.168.0.3:161
devMemoryAllocNum.0	899848	Gauge	192.168.0.3:161
devTemperature.0	41	Integer	192.168.0.3:161

Name devTemperature

OID .1.3.6.1.4.1.60313.1.9.2.10

MIB STEZ-DEV

Syntax INTEGER (-40..100)

Access read-only

Status current

DefVal

Indexes

Descr device temperature.

.iso.org.dod.internet.private.enterprises.stez.stezAgent.stezDev.stezDevPerformInfo.devTemperature.0



## 2) Проверка работы

Отключение SNMPv2. Удаляем public и private из конфигурации.

[Home](#) >> [Service](#) >> [SNMP](#) >> [Community Configuration](#)

Path: [Home](#) >> [Service](#) >> [SNMP](#) >> [Community Configuration](#)

Community Configuration

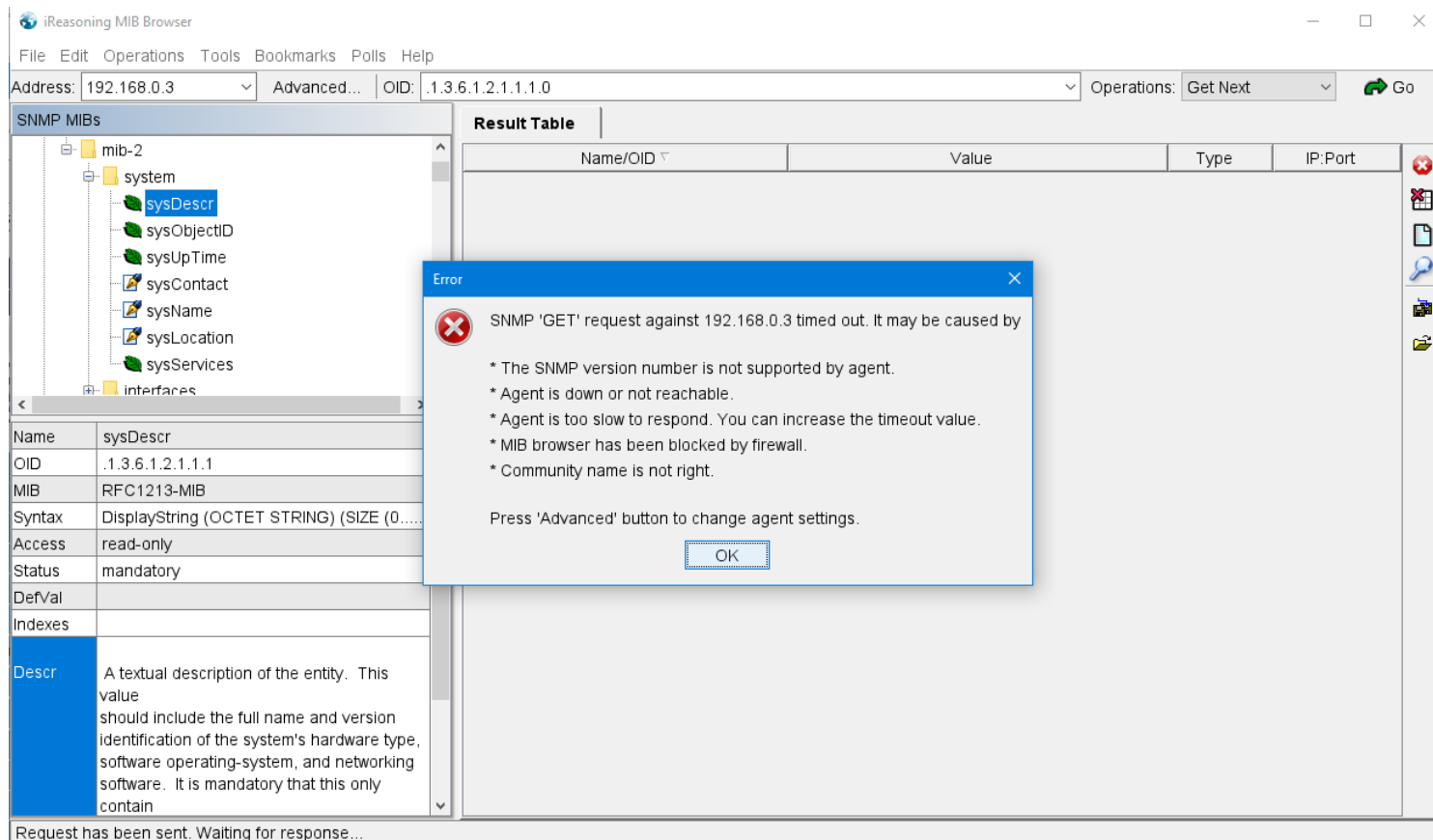
Index	Community	Version	Access Priority
1		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
2		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
3		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
4		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
5		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
6		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
7		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
8		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
9		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
10		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
11		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
12		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
13		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
14		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write
15		V1 ▾	<input checked="" type="radio"/> Read Only <input type="radio"/> Read And Write
16		V1 ▾	<input type="radio"/> Read Only <input type="radio"/> Read And Write

Apply



## 2) Проверка работы

Проверяем работу:





## 2) Проверка работы

### Конфигурация коммутатора (с отключенным SNMP):

```
COM8 - PuTTY
Building configuration...
hostname switch03
set temperature high 85 low -40
set voltage V0.9 mV high 1000 low 800
set voltage V1.1 mV high 1200 low 1000
set voltage V1.2 mV high 1300 low 1100
set voltage V1.5 mV high 1600 low 1400
set voltage V1.8 mV high 1900 low 1700
set voltage V3.3 mV high 3600 low 3000
username admin privilege 15 password encrypted 86875faea060a84cf8566f2b101e25530
49
!
vlan 1
!
!
!
!
ntp
ntp server 1 ip-address 192.168.0.11
clock timezone '' 3
snmp-server contact mail@stezelectro.ru
snmp-server location 142821, Moscow region, Stupino urban district, Shmatovo vil
no snmp-server community public
no snmp-server community private
no snmp trap security
radius-server disable
!
mvrp managed vlan 1-4093
!
interface Ethernet 1/1/1
!
interface Ethernet 1/1/2
!
interface Ethernet 1/1/3
!
interface Ethernet 1/1/4
!
interface Ethernet 1/1/5
!
interface Ethernet 1/1/6
!
interface Ethernet 1/1/7
!
interface Ethernet 1/1/8
```



## 2) Проверка работы

В целях безопасности необходимо отключать SNMPv2.  
Например, без знания пароля, со стандартными настройками (public, private) можно отключить порт коммутатора:

iReasoning MIB Browser

File Edit Operations Tools Bookmarks Polls Help

Address: 192.168.0.3 Advanced... OID: .1.3.6.1.2.1.2.2.1.7.9 Operations: Get Next Go

SNMP MIBs

- ifEntry
  - ifIndex
  - ifDescr
  - ifType
  - ifMtu
  - ifSpeed
  - ifPhysAddress
  - ifAdminStatus**
  - ifOperStatus
  - ifLastChange
  - ifInOctets
  - ifInUcastPkts
  - ifInNUcastPkts
  - ifInDiscards
  - ifInErrors
  - ifInUnknownProtos
  - ifOutOctets
  - ifOutUcastPkts
  - ifOutNUcastPkts

Name/OID	Value	Type	IP:Port
ifAdminStatus.1	up (1)	Integer	192.168.0.3:161
ifAdminStatus.2	up (1)	Integer	192.168.0.3:161
ifAdminStatus.3	up (1)	Integer	192.168.0.3:161
ifAdminStatus.4	up (1)	Integer	192.168.0.3:161
ifAdminStatus.5	up (1)	Integer	192.168.0.3:161
ifAdminStatus.6	up (1)	Integer	192.168.0.3:161
ifAdminStatus.7	up (1)	Integer	192.168.0.3:161
ifAdminStatus.8	up (1)	Integer	192.168.0.3:161
<b>ifAdminStatus.9</b>	<b>down (2)</b>	<b>Integer</b>	<b>192.168.0.3:161</b>
ifAdminStatus.10	up (1)	Integer	192.168.0.3:161
ifAdminStatus.11	up (1)	Integer	192.168.0.3:161
ifAdminStatus.12	up (1)	Integer	192.168.0.3:161

SNMP SET

OID: .1.3.6.1.2.1.2.2.1.7.9

Data Type: Integer

Value: 2

Ok Cancel

Name	ifAdminStatus
OID	.1.3.6.1.2.1.2.2.1.7
MIB	RFC1213-MIB
Syntax	INTEGER (up(1), down(2),testing(3) )
Access	read-write
Status	mandatory
DefVal	
Indexes	ifIndex
Descr	The desired state of the interface. The testing(3) state indicates that no operational packets can be passed.

iso.org.dod.internet.mgmt.mib-2.interfaces.ifTable.ifEntry.ifAdminStatus.9

