RG-S2900G-E

RGOS 10.4(2b11)p1

V1.1

enable

Web **no ip http authentication**

Web local

Ruijie(config)# ip http authentication local

enable service	

-	-

2.1.8 ip http port

HTTP **ip http port**

ip http port number

-	-

2.1.9 ip telnet source-interface

IP Telnet **ip telnet source-interface**

ip telnet source-interface interface-name

interface-name	IP Telnet

IP Telnet telnet Telnet

no ip telnet source-interface

Loopback 1 IP Telnet

Ruijie(config)# ip telnet source-interface Loopback 1

telnet	Telnet

10.4(2)	

2.1.10 lock

EXEC **lock**

lock

-	-

lock

“ Locked ”

line **lockable**

line

```
Ruijie(config-line)#  lockable
Ruijie(config-line)#  end
Ruijie# lock
Password: <password>
Again: <password>
Locked
Password: <password>
```

lockable	

-	-

2.1.11 lockable

Ruijie#show boot system
system boot file: flash:/rgos.bin

Ruijie#dir
Directory of flash:/
11015744 2008-01-01 08:00:46 rgos.bin
12019754 2008-02-01 08:00:46 s5750_10_4.bin
399 2006-01-01 08:01:37 config.text
33,030,144 bytes total. (10,590,592 bytes free)

Ruijie(config)# boot system s5750_10_4.bin
Ruijie(config)# show boot system
system boot file: flash:/ s5750_10_4.bin
s5750_10_4.bin

show boot system	

-

-	-

2.2.4 clock set

clock set

clock set hh:mm:ss month day year

hh:mm:ss	24 : :
day	1-31

10

Ruijie# reload in 10

Router will reload in 600 seconds.

-	-

-	-

2.2.10 session-timeout

LINE **session-timeout**

no session-timeout LINE

session-timeout minutes [**output**]

no session-timeout

minutes	
output	

0 min

LINE

LINE

LINE

line vty 0 5 30

clock set	

-	-

2.3.2 show line

show line

show line [**console** | **aux** | **vty** li8h0num [li8h0num]]

console	
aux	aux
vty	vty
li8h0num	li8h

consolh

Ruijie# show li8h console 0

CON Type speed Overruns

* 0 CON 9600 45927

Li8h 0, Location: "", Type: "vt100"

Length: 24 li8hs, Width: 79 columns

Special Chars: Escape Disconnect Activation

^^x none ^M

Timeouts: Idle EXEC Idle Session

never never

History is enabled, history size is 10.

-	-

2.3.4 show running-config

show running-config

show running-config

-	-

-	-

-	-

2.3.5 show startup-config

NVRAM

show startup-config

show startup-config

-	-

3 LINE a —

3.1 LINE " - ‘ a —

3.1.1 access-class

Line ACL **access-class** acl-no { **in | out** }
Line no **access-class** access-list-number {**in | out**}
LINE ACL

[**no**] **access-class** access-list-number {**in | out**}

access-list-number	access-list
in	
out	

Line

-	-

3.1.2 line

LINE

line [**aux** | **console** | **tty** | **vty**] first-line [last-line]

aux	
console	
tty	
vty	telnet/ssh
First-line	first-line
Last-line	last-line

LINE

LINE VTY 1 3 LINE

Ruijie(config)# line vty 1 3

-	-

-	-

3.1.3 line vty

VTY **no**

VTY

line vty line-number

no line vty line-number

-	-

VTY 5 0--4

VTY

1 VTY 20 VTY 0--19

Ruijie(config)# line vty 19

2 VTY 10 VTY 0—9

Ruijie(config)# line vty 10

-	-

-	-

3.1.4 transport input

Line **transport input** Line

default transport input LINE

transport input {**all | ssh | telnet | none**}

default transport input

all	Line
ssh	Line SSH

4 î U ¹ ÿ Ë] n a —

4.1 " - ‘ a —

4.1.1 ping

ping [**vrf** vrf-name] [**ip**] [ip-address [**length** length] [**ntimes** times] [**timeout** seconds] [**data** data] [**source** source] [**df-bit**] [**validate**]]

vrf-name	VRF
ip-address	IPv4
length	
times	
seconds	
data	
source	IPv4 127.0.0.1
df-bit	IP DF DF 1 DF 0
validate	

DNS

1 ping

```
Ruijie# ping 192.168.5.1
Sending5,100-byteICMPEchoesto192.168.5.1,timeoutis2seconds:
 < press Ctrl+C to break >
!!!!!
Success rate is 100 percent (5/5), round-                t rip min/avg/max = 1/2/10
ms
```

2 ping

```
Ruijie#  ping  192.168.5.197  length  1500  ntimes  100  timeout  3 data  ffff
source  192.168.4.10
 Sending 100, 1000-        byte ICMP Echoes to 192.168.5.197, timeout is 3
seconds:
 < press Ctrl+C to break >
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Successrateis100percent(100/100),round-                  t ripmin/avg/max=2/2/3
ms
```

-	-

-	-

4.1.2 ping ipv6

ping [**ipv6**] [ip-address [**length** length] [**ntimes**

length	
times	
seconds	

data

-	-

ipv6

-	-

4.1.3 traceroute

traceroute .

traceroute [**vrf**] [vrf-name] [**ip** ip-address][ip-adress [**probe** number] [**source** source] [**timeout** seconds] [**ttl** minimum maximum]]

vrf-name	VRF
Ip-address	IPv4
number	
source	IPv4 127.0.0.1
seconds	
minimum maximum	TTL

Traceroute

DNS

traceroute

1 traceroute

```
Ruijie#  traceroute  61.154.22.36
< press Ctrl+C to break >
Tracing the route to 61.154.22.36
1  192.168.12.1  0 msec 0 msec 0 msec
```

3 10.10.24.1 0 msec 0 msec 0 msec
4 10.10.30.1 10 msec 0 msec 0 msec
5 218.5.3.254 0 msec 0 msec 0 msec
6 61.154.8.49 10 msec 0 msec 0 msec
7 202.109.204.210 0 msec 0 msec 0 msec
8 202.97.41.69 20 msec 10 msec 20 msec
9 202.97.34.65 40 msec 40 msec 50 msec
10 202.97.57.222 50 msec 40 msec 40 msec
11 219.141.130.122 40 msec 50 msec 40 msec
12 219.142.11.10 40 msec 50 msec 30 msec
13 211.157.37.14 50 msec 40 msec 50 msec
14 222.35.65.1 40 msec 50 msec 40 msec
15 222.35.65.18 40 msec 40 msec 40 msec
16 222.35.15.109 50 msec 50 msec 50 msec
17 * * *

5 Ç a —

5.1 " - ‘ a —

5.1.1 carrier-delay

carrier-delay **no**

carrier-delay [seconds]

no carrier-delay

seconds	1 60

2

DCD Down Up
DCD

DCD

DCD

5

Ruijie(config)# interface gigabitethernet 1/1
Ruijie(coinfig)# carrier-delay 5

-	-

-	-

5.1.5 duplex

no

duplex {**auto** | **full** | **half**}

no duplex

auto	
full	
half	

aggregate port aggregate port

aggregate port **show interfaces** **show interfaces aggregateport**

Ruijie(config)# interface aggregateport 3
Ruijie(config-if)#

show interfaces	

-	-

5.1.8 interface fastEthernet

interface fastEthernet mod-num/port-num

mod-num/port-num	/

no **show interfaces** **show interfaces fastEthernet**

Ruijie(config)# interface fastEthernet 1/2
Ruijie(config-if)#

switch virtual interface SVI

no SVI

interface vlan vlan-id

no interface vlan vlan-id

vlan-id	VLAN ID

start cable-diagnoses,please wait...
cable-daignoses end!this is result:
4 pairs
pair state length(meters)
---- ---------- --------------
A Ok 1
pair state length(meters)
---- ---------- --------------
B Ok 2
pair state length(meters)
---- ---------- --------------
C Short 1
pair state length(meters)
---- ---------- --------------
D Short 1

pairs	
state	OK Short Open A B OK C D Short A B C D OK
length	state OK Short Open length

-	-

-

5.1.12 medium-type

no

medium-type { **fiber | copper** }

no medium-type

mtu

```
Ruijie(config)#  interface gigabitethernet  1/1
Ruijie(config-if)#  mtu 9216
```

show interfaces	

-	-

5.1.14 shutdown

no

shutdown

no shutdown

-	-

Ap SVI

show interfaces

no shutdown

1 Ap 1

```
Ruijie(config)#  interface aggregateport  1
Ruijie(config-if)#  shutdown
```

2 Ap 1

```
Ruijie(config)#  interface aggregateport  1
Ruijie(config-if)#  no shutdown
```

-	-

5.1.17 switchport access

access port VLAN

no VLAN

switchport access vlan vlan-id

no switchport access vlan

vlan-id	VLAN ID

switch port access VLAN VLAN 1

VLAN ID VLAN ID VLAN
VLAN VLAN ID VLAN
trunkport

```
Ruijie(config)# interface gigabitethernet 1/1
Ruijie(config-if)# switchport access vlan 2
```

switchport mode	switch port trunkport native VLAN Trunk VLAN

switchport trunk {**allowed vlan** {**all |** [**add | remove | except**] vlan-list }**| native vlan** vlan-id}

no switchport trunk {**allowed vlan | native vlan**}

allowed vlan vlan-list	Trunk VLAN vlan-list VLAN VLAN VLAN ID VLAN ID - 10-20 , 1-10,20-25,30,33 all VLAN VLAN add VLAN VLAN remove VLAN VLAN except VLAN VLAN VLAN
native vlan vlan-id	Native VLAN

VLAN all Native VLAN VLAN 1

ч Ũ П ∋_ л ȯ = Ł

show aggregateport load-balance

Ruijie(config)# aggregateport load-balance dst-mac

show aggregateport load-balance	aggregateport

-	-

6.1.2 port-group

Aggregate Port no Aggregate Port

port-group port-group-number

no port-group

port-group-number	Aggregate Port Aggregate Port

Aggregate Port

AP VLAN trunk port native VLAN AP

1/3 AP 3

Ruijie(config)# interface gigabitethernet 1/3

Ruijie(config-if)# port-group 3

-	-

switchport access vlan vlan-id

no switchport access vlan

vlan-id	VLAN ID

switch port access VLAN VLAN 1

VLAN ID VLAN ID VLAN
VLAN VLAN ID VLAN

trunk port

Ruijie(config)# interface gigabitethernet 1/1
Ruijie(config-if)# switchport access vlan 2

switchport mode	switch port
switchport trunk	trunk port native VLAN Trunk VLAN

-	-

7.1.3 switchport mode

switch port access port trunk port hybrid port uplink port 802.1Q no

switchport mode {**access** | **trunk | hybrid | uplink | dot1q-tunnel**}

no switchport mode

show interfaces	
switchport access	access port VLAN

-	-

7.1.5 vlan

VLAN no VLAN

vlan vlan-id

no vlan vlan-id

vlan-id	VLAN ID VLAN VLAN 1

8 Protocol VLAN a —

8.1 " - ‘ a —

8.1.1 protocol-vlan ipv4 addr mask addr vlan id

IP VLAN

addr	IP x.x.x.x
id	VLAN ID 1- VLAN

show protocol-vlan profile	-
show protocol-vlan profile num	-
no protocol-vlan profile	-
no protocol-vlan profile num	-

RGOS10.1

-	-

8.1.4 protocol-vlan profile num vlan id

profile

num	profile
id	VLAN ID 1- VLAN

Ruijie(config-if)# protocol-vlan profile 1 vlan 101

show protocol-vlan profile	-
show protocol-vlan profile num	-
no protocol-vlan profile	-
no protocol-vlan profile num	-

RGOS10.1

	-	-

8.2 ¡ µ - ‘ a —

9 Private VLAN a —

9.1 " - ‘ a —

9.1.1 private-vlan association

secondary VLAN primary VLAN

private-vlan association {svlist | **add** svlist | **remove** svlist}

no private-vlan association

svlist	secondary VLAN list
no	primary VLAN secondary VLAN

Primary VLAN

```
Ruijie(config)#          vlan    22
Ruijie(config-vlan)#             private-vlan      association add      24-26
```


-

show vlan private-vlan	-

RGOS10.1

-	-

9.1.5 switchport private-vlan host-association

private VLAN primary VLAN secondary VLAN

switchport private-vlan host-association p_vid s_vid

no switchport private-vlan host-association

p_vid	primary VID
s_vid	secondary VID

VLAN

9.1.6 switchport private-vlan mapping

private VLAN secondary VLAN

switchport private-vlan mapping p_vid {svlist|**add** svist |**remove** svlist}

no switchport private-vlan mapping

p_vid	primary VID
svlist	secondary VLAN list
no	secondaryVLAN

secondary VLAN

VLAN

Ruijie(config)# interface gigabitEthernet 0/1
Ruijie(config-if)# switchport mode private-vlan promiscuous
Ruijie(config-if)# switchport private-vlan mapping 22 add 23-25

show vlan private-vlan	-

RGOS10.1

-	-

9.2 ¡ µ - ‘ a —

9.2.1 show vlan private-vlan

private VLAN

show vlan private-vlan [**community** | **primary** | **isolated**]

primary	primary VLAN
community	community VLAN
isolated	isolated VLAN

private VLAN

Ruijie# show vlan private-vlan

-	-

RGOS10.1

-	-

9.3 Hybrid a —

9.3.1 switchport hybrid allowed vlan

switchport hybrid allowed vlan[[**add**][**tagged** | **untagged**] | **remove**] vlist

no switchport hybrid allowed vlan

hybrid

no	hybrid

Ruijie(config-if)# switchport hybrid allowed vlan add untagged 3-5

-	-

RGOS10.1

-	-

9.3.2 switchport hybrid native vlan

switchport hybrid native vlan vid

no switchport hybrid native vlan

hybrid vlan

no	hybrid VLAN

Ruijie(config-if)# switchport hybrid native vlan 3

-	-

RGOS10.1

-	-

-	-

10.1.8 switchport mode dot1q-tunnel

show traffic-redirect	-

RGOS10.3

-	-

10.1.13 traffic-redirect access-group acl inner-vlan

access,trunk,hybrid, uplink vid

traffic-redirect access-group acl **inner-vlan** vid **out**

no traffic-redirect access-group acl **inner-vlan**

acl	acl
vid	vid
no	vid

1.1.1.2 vid 6

```
ruijie# configure
ruijie(config)#i p access-list standard to_ 6
ruijie(config-acl-std)# permit host 1.1.1.2
ruijie(config-acl-std)# exit
ruijie(config)# interface gigabitEthernet 0/1
ruijie(config-if)# switchport mode trunk
ruijie(config-if)# traffic-redirect access-group to_ 6 inner-vlan 6
out
ruijie(config-if)# end
```

show traffic-redirect	-

RGOS10.1

-	-

10.1.15 l2protocol-tunnel

dot1q-tunnel

l2protocol-tunnel stp

no l2protocol-tunnel stp

stp	stp

10.1.16 **l2protocol-tunnel** proto-type **enable**

l2protocol-tunnel stp enable

no l2protocol-tunnel stp enable

stp	stp
no	

-

show l2protocol-tunnel stp	-

RGOS10.3

-	-

10.1.17 **l2protocol-tunnel** proto-type **tunnel-dmac** mac-address Þ

-	-

10.2.3 show inner-priority-trust

show inner-priority-trust

-	-

ruijie# show inner-priority-trust

Ports inner-priority-trust

---- -- --------

Gi0/1 enable

-	-

RGOS10.1

-	-

10.2.4 show interface dot1q-tunnel

dot1q-tunnel

show interface [intf-id] **dot1q-tunnel**

Status original ç ® Õ J

/

address-bind install

no address-bind install

-	-

fa 0/1

```
Ruijie(config)#  address-bind uplink  fa0/1
Ruijie(config)#  address-bind install
```

show address-bind uplink	

RGOS10.1

-	-

12.1.3 address-bind ip-address

ibP 0 10.0221 D 34m(3.043 00.7 r)D042C582F0E34A513FE>Tj/TT0 1 Tf2.00021 397.934 0 .

IP MAC IP IP
MAC IP MAC

ip 3.3.3.3 mac 00d0.f811.1112
Ruijie(config)# address-bind 3.3.3.3 00d0.f811.1112

show address-bind	

-

-	-

12.1.4 address-bind ipv6-mode

ip IP

address-bind ipv6-mode compatible

address-bind ipv6-mode loose

address-bind ipv6-mode strict

-	-

	Ipv4
	IPV4+MAC
	IPV4+MAC
	IPV4+MAC

	IPV6	
	ipv6	
	IPV6	

MAC MAC IPV6

show mac-address-table filtering

Ruijie(config)# mac-address-table filtering 00d0f8000000 vlan 1

clear mac-address-table filtering	
show mac-address-table filtering	

-	-

12.1.11 mac-address-table notification

MAC **no**

mac-address-table notification [**interval** value | **history-size** value]

no mac-address-table notification [**interva**l | **history-size**]

interval value	MAC Trap 1
history-size value	MAC 50

1 50

MAC Trap

snmp-server enable traps mac-notification

MAC Trap

Ruijie(config)# mac-address-table notification
Ruijie(config)# mac-address-table notification interval 40
Ruijie(config)# mac-address-table notification history-size 100

show mac-address-table static	

-	-

12.2.5 show mac-address-table count

show mac-address-table count

-	-

Ruijie# show mac-address-table count
Dynamic Address Count : 51
Static Ad dress Count : 0
Filter Address Count : 0
Total Mac Addresses : 51
Total Mac Address Space Available: 8139

show mac-address-table static	
show mac-address-table filtering	
show mac-address-table dynamic	
show mac-address-table address	

mac-addr	MAC
vlan-id	VLAN
interface-id	(AggregatePort)

Ruijie# show mac-address-table static

Vlan MAC Address Type Interface

----- ----------- -------- ------------------

1 00d0.f800.1001 STATIC gigabitethernet 1/1

1 00d0.f800.1002 STATIC gigabitethernet 1/1

1 00d0.f800.1003 STATIC gigabitethernet 1/1

```
Ruijie# show mac-address-table vlan 1
Vlan  MAC Address      Type    Interface
----- -------------  ------- ------------------
1   00d0.f800.1001   STATIC  gigabitethernet 1/1
1   00d0.f800.1002   STATIC  gigabitethernet 1/1
```

1

Ruijie# show mac-address-learning

13 DHCP Snooping a —

13.1 DHCP snooping æ e a —

13.1.1 ip dhcp snooping

DHCP Snooping no
DHCP Snooping

[**no**] **ip dhcp snooping**

-	-

DHCP Snooping **show ip dhcp snooping** DHCP snooping

a	DHCP Snooping Private VLAN

DHCP snooping

```
Ruijie# configure terminal
Ruijie(config)#         ip dhcp snooping
Ruijie(config)#         end
Ruijie# show ip dhcp snooping
Switch DHCP snooping status              ENABLE
Verification of hwaddr field status                  DISABLE
DHCP snooping database write-delay time: 0 seconds
DHCP snooping option 82 status: ENABLE
DHCP snooping Support Bootp bind status: ENABLE
Interface              Trusted    Rate limit (pps)
------------------------  -------    ------------
```


-	-

13.2.2 ip dhcp snooping suppression

suppression no
no suppression

[**no**] **ip dhcp snooping suppression**

-	-

DHCP
DHCP

fastethe rnet 0/2 suppression

```
Ruijie# configure terminal
Ruijie(config)# interface fastethernet 0/2
Ruijie(config-if)# ip dhcp snooping suppression
Ruijie(config-if)# end
```

-	-

-	-

13.2.3 ip dhcp snooping trust

13.4 DHCP snooping c Q " a —

13.4.1 clear ip dhcp snooping binding

DHCP Snooping

clear ip dhcp snooping binding

-	-

DHCP snooping

DHCP snooping

```
Ruijie# clear ip dhcp snooping binding
Ruijie# show ip dhcp snooping binding
Total number of bindings: 0
MacAddress IpAddress Lease(sec) Type VLAN Interface
------- --- ---------- --------- ---- ---------
```

show ip dhcp snooping binding	DHCP snooping

-	-

13.4.2 debug ip dhcp snooping

DHCP Snooping

debug ip dhcp snooping {**event** | **packet**}

-	-

DHCP snooping

DHCP snooping

Ruijie# debug ip dhcp snooping event

Ruijie# debug ip dhcp snooping packet

-	-

-	-

profile profile permit profile

permit

permit	profile

profile deny

profile

profile range profile
profile

224.2.2.2 profile
Ruijie(config)# ip igmp profile 1
Ruijie(config-profile)# range 224.2.2.2
Ruijie(config-profile)# permit

ip igmp profile	profile
range	

-	-

14.1.3 range

profile profile range
no

range low-ip-address [high-ip-address]

no range low-ip-address [high-ip-address]

low-ip-address	profile

-	-

14.1.8 ip igmp snooping svgl profile

profile SVGL **ip igmp snooping svgl profile** no

ip igmp snooping svgl profile profile-number

no ip igmp snooping svgl profile

profile-number	profile <1-65536>

svgl profile

SVGL IVGL-SVGL

igmp snooping svgl profile 2

Ruijie(config)# ip igmp snooping svgl profile 2

ip igmp snooping svgl	igmp snooping svgl
ip igmp snooping ivgl-svgl	igmp snooping

-	-

14.1.9

no ip igmp snooping dyn-mr-aging-time

time	, <1-3600>

300s

IGMP PIM Hello

100s

Ruijie(config)# ip igmp snooping dyn-mr-aging-time 100

-	-

14.1.10 ip igmp snooping fast-leave enable

igmp snooping **ip igmp snooping fast-leave enable** no igmp snooping fast-leave

ip igmp snooping fast-leave enable

no ip igmp snooping fast-leave enable

-	-

disable

14.1.15 ip igmp snooping vlan mrouter learn pim-dvmrp

IGMP Query/Dvmrp/PIM Hellp

ip igmp snooping vlan mrouter learn no

ip igmp snooping vlan vid **mrouter learn pim-dvmrp**

no ip igmp snooping vlan vid **mrouter learn pim-dvmrp**

vid	vlan id

VLAN VLAN

no £ Й

profile-number	profile <1-65536>

IGMP Profile IGMP Report
IGMP Profile
profile filter

0/1 profile 1

```
Ruijie(config)# interface fastEthernet 0/1
Ruijie(config-if)# ip igmp snooping filter 1
```

ip igmp profile	profile

-	-

14.1.18 ip igmp snooping max-groups

, **ip igmp snooping max-groups** no

ip igmp snooping max-groups number

no ip igmp snooping max-groups

number	<0 – 1024>

ㅓ

debug igmp-snp event

debug igmp-snp packet

debug igmp-snp msf

debug igmp-snp warning

undebug igmp-snp

undebug igmp-snp event

undebug igmp-snp packet

undebug igmp-snp msf

undebug igmp-snp warning

	IGMP Snooping
event	IGMP Snooping
packet	IGMP Snooping
msf	IGMP Snooping
warning	IGMP Snooping

EXEC

-	-

-	-

15 MSTP a —

15.1 " - ‘ a —

15.1.1 bpdu src-mac-check

bpdu mac no bpdu mac

bpdu src-mac-check H.H.H

no bpdu src-mac-check

H.H.H	mac bpdu
no	bpdu

Ruijie(config)# interface gigabitethernet 1/1
Ruijie(config-if)# bpdu src-mac-check 00d0.f800.1e2f

-	-

-	-

15.1.2 clear spanning-tree counters

STP

clear spanning-tree counters [**interface** interface-id]

interface-id	

Ruijie# clear spanning-tree counters

show spanning-tree counters	STP

10.4(2b11)p1	

15.1.3 clear spanning-tree detected-protocols

RSTP BPDU BPDU

clear spanning-tree detected-protocols [**interface** interface-id]

interface-id	

Ruijie# clear spanning-tree detected-protocols

show spanning-tree interface	STP

-	-

15.1.4 spanning-tree

MSTP MSTP MSTP
no spanning-tree no
spanning tree

spanning-tree [**forward-time** seconds | **hello-time** seconds | **max-age** seconds]

no spanning-tree [**forward-time** | **hello-time** | **max-age**]

BPDU filter enabled disabled

BPDU filter

spanning-tree bpdufilter [**enabled** | **disabled**]

enabled	BPDU filter
disabled	BPDU filter

Ruijie(config)# interface gigabitethernet 1/1

Ruijie(config-if)# spanning-tree bpdufilter enable

show spanning-tree interface	STP

-	-

15.1.7 spanning-tree bpduguard

BPDU Guard enabled disabled

BPDU Guard

spanning-tree bpduguard [**enabled** | **disabled**]

enabled	BPDU Guard
disabled	BPDU Guard

-	-

guard

Ruijie(config-if)# spanning-tree guard none

-	-

-	-

-	-

15.1.12 spanning-tree link-type

“ ” no

spanning-tree link-type [**point-to-point** | **shared**]

no spanning-tree link-type

poinit-to-point	point-to-point.
shared	shared

point-to-point

shared.

Ruijie(config)# B723.12 0.24 re f BT /P <</MCID 37 >>BDC /C2_0 1 Tf 10.02 0 ace gigabiteth

-	-

15.1.13 spanning-tree loopguard default

loop guard no loop guard loop guard
bpdu

spanning-tree loopguard default

no spanning-tree loopguard default

-	-

loop guard

Ruijie(config)# spanning-tree loopguard default

-	-

-	-

15.1.14 spanning-tree max-hops

BPDU Max-hops Count
BPDU Region Instance no

spanning-tree max-hops hop-count

no spanning-tree max-hops

10 VLAN Instance 0 VLAN Instance

no **no instance** instance-id [**vlan** vlan-range] (no Instance 1 64)

name name MST 32 no name

revision version MST 0 65535 no revision

show MST region

MST VLAN 3, 5-10 MST Instance 1.

```
Ruijie(config)# spanning-tree mst configuration
Ruijie(config-mst)# instance 1 vlan 3 5-10
Ruijie(config-mst)# name region 1
Ruijie(config-mst)# revision 1
Ruijie(config-mst)# show
MST configuration
Name [region1]
Revision 1
Instance Vlans Mapped
---------- --------------------
0 1-2,4,11-4094
1 3,5-10
---------------------------------
Ruijie(config-mst)# exit
Ruijie(config)#
```

VLAN 3 Instance 1 MST

```
Ruijie(config-mst)# no instance 1 vlan 3
```

Instance 1

```
Ruijie(config-mst)# no instance 1
```

MST show

-	-

15.1.19 spanning-tree mst priority

Instance no

spanning-tree [**mst** instance-id] **priority** priority

no spanning-tree [**mst** instance-id] **priority**

instance-id	Instance 0 64
priority	0, 4096,8192, 12288, 16384, 20480, 24576, 28672, 32768, 36864, 40960, 45056, 49152,53248, 57344 61440 16 4096

instance-id 0

priority 32768

.

Instance 20 8192

Ruijie(config-if)# spanning-tree mst 20 priority 8192

show spanning-tree mst instance interface interface-id

show spanning-tree mst	MSTP
spanning-tree mst cost	
spanning-tree mst port-priority	Instance

show spanning-tree interface	STP

-	-

15.1.23 spanning-tree portfast bpduguard default

BPDU guard no BPDU guard

spanning-tree portfast bpduguard default

no spanning-tree portfast bpduguard default

-	-

BPDU Guard.

BPDU guard

Portfast no Portfast

spanning-tree portfast default

no spanning-tree portfast default

-	-

Portfast

Ruijie(config)# spanning-tree portfast default

show spanning-tree interface	STP

-	-

15.1.25 spanning-tree reset

spanning-tree no

spanning-tree reset

-	-

Ruijie(config)# spanning-tree reset

show spanning-tree	STP
show spanning-tree interface	STP

-	-

15.1.26 spanning-tree tc-guard

tc- guard no tc- guard tc-guard
tc

spanning-tree tc-guard

no spanning-tree tc-guard

-	-

tc- guard

Ruijie(config-if)# spanning-tree tc-guard

6	Ä	Ä	Ä	

15.1.27 spanning-tree tc-protection

tc- protection no tc- protection

spanning-tree tc- protection

no spanning-tree tc- protection

16 SPAN a —

16.1 " - ‘ a —

16.1.1 monitor session

SPAN . no

monitor session session_number {**source interface** interface-id [**both** | **rx** | **tx**] | **destination interface** interface-id **switch** | [**acl** name]

no monitor session session_number [**source interface** interface-id [**both** | **rx** | **tx**] | **destination interface** interface-id **switch**] | [**acl** name]

no monitor session all

session_number	SPAN
source interface interface-id	interface-id SVI
destination interface interface-id	interface-id SVI

18 ERSPAN a —

18.1 " - ‘ a —

18.1.1 monitor session

ERSPAN no

monitor session session_num {**erpsan-source** }

session-num	

Ruijie(config-mon-erspan-src)#ip dscp 56

show monitor	

-	-

C IP

IP

IP IP

IP

IP 10.10.10.1 255.255.255.0

ip address 10.10.10.1 255.255.255.0

show interface	

IP secondary

-	-

19.1.2 ip unnumbered

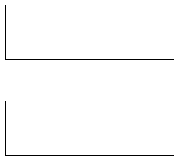
IP

IP no

ip unnumbered interface-type interface-number

no ip unnumbered interface-type interface-number

interface-type	
interface-number	


ARP

Age (min)	ARP “-”
Hardware	IP
Type	ARPA
Interface	IP

2 show arp 192.168.195.68

Ruijie# show arp 192.168.195.68

Protocol Address Age(min) Hardware Type Interface

Internet 192.168.195.68 1 0013.20a5.7a5f arpa VLAN 1

3 **show arp** 192.168.195.0 255.255.255.0

Ruijie# show arp 192.168.195.0 255.255.255.0

Protocol Address Age(min) Hardware Type Interface

Internet 192.168.195.64 0 0018.8b7b.9106 arpa VLAN 1

Internet 192.168.195.2 1 00d0.f8ff.f00e arpa VLAN 1

Internet 192.168.195.5 -- 00d0.f822.33b1 arpa VLAN 1

Internet 192.168.195.1 0 00d0.f8a6.5af7 arpa VLAN 1

Internet 192.168.195.51 1 0018.8b82.8691 arpa VLAN 1

4 **show arp** 001a.a0b5.378d

Ruijie# show arp 001a.a0b5.378d

Protocol Address Age(min) Hardware Type Interface

Internet 192.168.195.67 4 001a.a0b5.378d arpa VLAN 1

19.3.6 show ip arp

ARP

show ip arp

-	-

show ip arp

```
Ruijie# show ip arp
Protocol Address     Age(min)Hardware     Type
Interface
Internet 192.168.7.233 23  0007.e9d9.0488 ARPA FastEthernet 0/0
Internet 192.168.7.112 10  0050.eb08.6617 ARPA FastEthernet 0/0
Internet 192.168.7.79  12  00d0.f808.3d5c ARPA FastEthernet 0/0
Internet 192.168.7.1   50  00d0.f84e.1c7f ARPA FastEthernet 0/0
Internet 192.168.7.215 36  00d0.f80d.1090 ARPA FastEthernet 0/0
Internet 192.168.7.127 0   0060.97bd.ebee ARPA FastEthernet 0/0
Internet 192.168.7.195 57  0060.97bd.ef2d ARPA FastEthernet 0/0
Internet 192.168.7.183 --  00d0.f8fb.108b ARPA FastEthernet 0/0
```

ARP

Protocol	Internet
Address	IP
Age (min)	ARP “-”
Hardware	IP
Type	ARPA
Interface	IP

-	-

-	-

19.3.7 show ip interface

IP

show ip interface [interface-type interface-number]

Interface-type	
Interface-number	

RGOS

RGOS RGOS

“ UP ”

“ UP ”

show ip interface

```
Ruijie#  show ip interface FastEthernet  0/ 1
IP interface state is: UP
IP interface type is: BROADCAST
IP interface metric is: 0
IP interface MTU is: 1500
IP address is:
192.168.5.133/24 (primary)
IP address negotiate is: OFF
```


-	-

20.2 ¡ µ 0 ³ Å a —

Âdebug ip dhcp client

Âshow dhcp lease

20.2.1 debug ip dhcp client

DHCP Client **debug ip dhcp client**

debug ip dhcp client

no debug ip dhcp client

20.2.2 show dhcp lease

DHCP

option82 option dot1x

DHCP DHCP Relay Aware VRF

Ruijie# configure terminal

Ruijie(config)# Ip dhcp relay information option vpn

ip dhcp relay information option82	DHCP option82
ip dhcp relay information option dot1x	DHCP option dot1x

-	-

21.1.7 ip dhcp relay suppression

DHCP Relay no DHCP relay

[**no**] **ip dhcp relay suppression**

-	-

DHCP

1 DHCP relay

Ruijie# configure terminal

Ruijie(config)# interface fastEthernet 0/1

Ruijie(config-if)# ip dhcp relay suppression

service dhcp	DHCP

-	-

21.1.9 service dhcp

DHCP no

[**no**] **service dhcp**

-	-

DHCP DHCP DHCP DHCP
DHCP DHCP

DHCP

Ruijie# configure terminal

Ruijie(config)# service dhcp

ip helper-address [**vrf**] A.B.C.D	DHCP

-	-

22 DNS f Ö a —

22.1 " - ‘ a —

22.1.1 ip domain-lookup

DNS no DNS

ip domain-lookup

no ip domain-lookup

-	-

DNS

ip name-server {ip-address | ipv6-address}

no ip name-server [ip-address | ipv6-address]

ip-address	IP

no sntp interval

seconds	“ ” 60 --65535

1800s

show sntp SNTP

a
sntp enable

Ruijie(config)# sntp interval 3600

sntp enable	SNTP
show sntp	SNTP
clock update-calendar	

RGOS10.0

	darW26f3MC ET66.84 422.72 0.2302 048

show sntp SNTP

Ruijie(config)# sntp server 192.168.4.12

show sntp	SNTP
sntp enable	SNTP

RGOS10.0

-	-

23.2 ¡ µ - ‘ a —

23.2.1 show sntp

SNTP

-	-

show sntp SNTP

Ruijie# show sntp
SNTP state : Enable
SNTP server : 192.168.4.12
SNTP sync interval : 60
Time zone : +8

sntp enable	SNTP
show sntp	SNTP

RGOS10.0

-	-

24 NTP a —

24.1 NTP " - ‘ a —

24.1.1 no ntp

ntp ntp

no ntp

-	-

NTP

NTP NTP NTP

NTP

NTP

no ntp

ntp server	NTP

-	-

24.1.2 ntp access-group

NTP no

20

prefer

NTP IP

NTP

ftp-server password [type] password

no ftp-server password

type	0 7 0 7
password	

FTP

S!P7 FTP 7

25.1.4 ftp-server topdir

FTP no

FTP

ftp-server topdir directory

no ftp-server topdir

directory	FTP

FTP

FTP FTP

FTP

1 FTP syslog

```
Ruijie(config)#  ftp-server topdir  /syslog
Ruijie(config)#  ftp-server enable
```

2

```
Ruijie(config)#  no ftp-server topdir
```

no ftp-server timeout

time	1-3600

30

FTP
FTP

FTP FTP
FTP FTP
a 0

1 5
Ruijie(config)# ftp-server timeout 5
2 30
Ruijie(config)# no ftp-server timeout

-	-

FTP

IP Port

IP Port

FTP

```
Ruijie# show ftp-server
ftp-server information
=====================================
enable : Y
topdir : /
timeout: 20min
username config : Y
password config : Y
type: BINARY
control connect : Y
ftp-server: ip=192.167.201.245 port=21
ftp-client: ip=192.167.201.82 port=4978
port data connect : Y
ftp-server: ip=192.167.201.245 port=22
ftp-client: ip=192.167.201.82 port=4982
passive data connect : N
```

-	-

-	-

no snmp-server chassis-id

text	

60FF60

SNMP
show snmp

SNMP 123456:
Ruijie(config)# snmp-server chassis-id 123456

show snmp	SNMP

-	-

26.1.3 snmp-server community

SNMP **snmp-server community**
no SNMP

snmp-server community string [**view** view-name] [[**ro** | **rw**] [**host** ipaddr]] [number ipv6 ipv6-aclname][aclnum | aclname]

no snmp-server community string

string	NMS SNMP
view-name	
ro	NMS MIB
rw	NMS MIB

aclnumber	1-99 MIB ipv4 NMS
aclname	MIB ipv4 NMS
ipv6_aclname	ipv6 MIB ipv6 NMS
ipaddr	NMS MIB NMS

SNMP

MIB NMS

SNMP **no snmp-server**

MIB 192.168.12.1 NMS

MIB

```
Ruijie(config)#  access-list  2 permit  192.168.12.1
Ruijie(config)#  access-list  2  deny any
Ruijie(config)#  snmp-server community public ro  2
```


access-list 07.1e f 66.848 351.26.4468 20.64 re1 66.848 351.26

Ruijie(config)# snmp-server location start-technology-city 4F of A Buliding

snmp-sever contact	SNMP

-	-

26.1.9 snmp-server packetsiz

SNMP **snmp-sever packetsize** no

snmp-server packetsize byte-count

no snmp-server packetsize

byte-count	484 17876

1500

SNMP 1492

Ruijie(config)# snmp-server packetsize 1492

SNMP **snmp-server system-shutdown**
no SNMP

snmp-server system-shutdown

no snmp-server system-shutdown

-	-

SNMP

SNMP RGOS reload/reboot NMS

SNMP
Ruijie(config)# snmp-server system-shutdown

-	-

SNMP IP

IP SNMP

0 IP SNMP

Ruijie(config)# snmp-server trap-source fastethernet 0

snmp-server enable traps	
snmp-server enable host	NMS

-	-

26.1.13 snmp-server trap-timeout

snmp-server trap-timeout

no

snmp-server trap-timeout seconds

no snmp-server trap-timeout

snmp-server queue-length

aclnum	MIB ipv4 NMS
aclname	MIB ipv4 NMS
Ipv6_aclname	ipv6 MIB ipv6 NMS

snmpV3 md5 DES

Ruijie(config)# snmp-server user user-2 mib2user v3 auth md5 authpassstr priv des56 despassstr

show snmp user	SNMP

default MIB

MIB-2 oid 1.3.6.1

Ruijie(config)# snmp-server view mib2 1.3.6.1 include

show snmp view	SNMP

-	-

26.1.16 snmp trap link-status

26.2 ¡ µ - ‘ a —

26.2.1 show snmp

SNMP **show snmp**

show snmp [**mib** | **user** | **view** | **group| host**]

-	-

show snmp SNMP

27 RMON a —

27.1 " - ‘ a —

27.1.1 rmon alarm

MIB no

rmon alarm number variable interval {**absolute** | **delta** } **rising-threshold** value [event-number] **falling-threshold** value [event-number] [**owner** ownername]

no rmon alarm number

27.1.2 rmon collection history

no

rmon collection history

trap

Ruijie(config)# rmon event 1 log trap rmon description "ifInNUcastPkts is too much " owner zhangsan

rmon alarm number variable interval{**absolute** | **delta**}**rising-threshold** value [event-number] **falling-threshold** value [event-number] [**owner** ownername]	

-	-

27.2 ¡ µ - ‘ a —

27.2.1 show rmon alarm

show rmon alarm

-	-

Ruijie# show rmon alarm
Event : 1
Description : firstevent

```
Ruijie#     show rmon history
Entry : 1
Data source : Gi1/1
Buckets requested : 65535
Buckets granted : 10
Interval : 1
Owner : zhangsan
Sample : 198
Interval start : 0d:0h:15m:0s
DropEvents : 0
Octets : 67988
Pkts : 726
BroadcastPkts : 502
MulticastPkts : 189
CRCAlignErrors : 0
UndersizePkts : 0
OversizePkts : 0
Fragments : 0
Jabbers : 0
Collisions : 0
Utilization : 0
```

rmon collection history index [**owner** ownername] [**buckets** bucket-number] [**interval** seconds]	

-	-

27.2.4 show rmon statistics

show rmon statictics

show tcp pmtu	TCP PMTU

RGOS 10.4	RGOS 10.4

28.2 TCP - ‘ ¡ µ a —

28.2.1 show tcp pmtu

TCP PMTU

show tcp pmtu

TCP PMTU show tcp pmtu

show tcp pmtu

```
Ruijie#  show tcp pmtu
No.   Local Address      Foreign Address     PMTU
[1]   2002::1.18946      2002::2.23          1440
[2]   192.168.195.212.23 192.168.195.112.13560 1440
```

No.	
Local Address	“.” “2002::2.23” “192.168.195.212.23” “23”

29 A _ ¾

29.1 " - ‘ a —

29.1.1 ip route

ip route no

ip route [**vrf** vrf_name] network net-mask {ip-address | interface [ip-address]} [distance] [**tag** tag] [permanent] [**weight** number] [disable | enable]

WCMP

ip route 0.0.0.0 0.0.0.0 Fastethernet 0/0

Fastethernet 0/0 ARP CPU

172.16.100.0/24 192.168.12.1 115

ip route 172.16.100.0 255.255.255.0 192.168.12.1 115

172.16.100.0/24 fastethernet 0/0

Ruijie(config)# ip route 172.16.100.0 255.255.255.0 fastethernet 0/0 192.168.12.1

show ip route	IP

-	-

29.1.2 ip routing

RGOS IP no IP

ip routing

no ip routing

-	-

IP

2001::/64 2002::2

115

ipv6 route 2001::/64 2002::2 115

1::/64

fastethernet 0/0

ipv6 route 2001::/64 fastethernet 0/0 2002::2

show ipv6 route	IPv6

10.1	
1041	weight

1 **show ip route**

```
Ruijie# show ip rout e
Codes: C - connected, S - static, R - RIP, B - BGP
O - OSPF, IA - OSPF inter area
N1-OSPF NSSA external type 1,N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS,su - IS-IS summary,L1 - IS-IS level-1,L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default
Gateway of last resort is no set
S   20.0.0.0/8 is directly connected, VLAN 1
S   22.0.0.0/8 [1/0] via 20.0.0.1
O E2 30.0.0.0/8 [110/20] via 192.1.1.1, 00:00:06, VLAN 1
R   40.0.0.0/8 [120/20] via 192.1.1.2, 00:00:23, VLAN 1
B   50.0.0.0/8 [120/0] via 192.1.1.3, 00:00:41
C   192.1.1.0/24 is directly connected, VLAN 1
C   192.1.1.254/32 is local host.
```

show ip route

O	C S R RIP B BGP O OSPF i IS-IS

E2	E1 OSPF E2 OSPF N1 OSPF NSSA 1 N2 OSPF NSSA 2 IA OSPF su IS-IS L1 IS-IS 1 L2 IS-IS 2 ia IS-IS
20.0.0.0/8	
[1/0]	
Via 20.0.0.1	IP
00:00:06	
VLAN 1	

2 **show ip route** network

Ruijie# show ip route 30.0.0.0

Routing entry for 30.0.0.0/8

Distance 110, metric 20

Routing Descriptor Blocks:

*192.1.1.1, 00:01:11 ago, via VLAN 1, generated by OSPF, extern 2

Routing Descriptor Blocks	IP BGP

3 **show ip route count**

Ruijie# show ip route count

--------- route info ----------

the num of active route: 5

4 **show ip route weight**

Ruijie# show ip route weight

----------[distance/metric/weight]----------

S 23.0.0.0/8 [1/0/2] via 192.1.1.20

S 172.0.0.0/16 [1/0/4] via 192.0.0.1

-	-

-	-

29.2.2 show ipv6 route

IPv6 **show ipv6 route**

show ipv6 route [[network/prefix-length | **summary** | **protocol**]]

network/prefix-length	
summary	ipv6
protocol	**connected**, **static** **bgp**, **isis**, **ospf**, **rip**

show ipv6 route

```
Ruijie(config)#          show ipv6 route
IPv6 routing table name is Default(0) global scope - 7 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
O - OSPF intra area, OI - OSPF inter area, OE1 - OSPF external type
1, OE2 - OSPF external type 2
 ON1 - OSPF NSSA external type 1, ON2 - OSPF NSSA external type 2
```

30 IPv6 a —

30.1 " - ‘ a —

30.1.1 ping ipv6

IPV6

ping ipv6 [ipv6-address]

ipv6-addres	s

Ruijie# ping ipv6 fec0 ::1

ping

!	
.	
U	
R	
F	
A	
D	Down IPV6 ( )
?	

-	-

-	-

30.1.2 ipv6 address

IPV6

IPV6 UP

IPv6 IPv6 = “ ” + “ ” + “ ” **ipv6 general-prefix** DHCPv6 PD “ DHCPv6 ” “ ” + “ ” sub-bits/prefix-length

no ipv6 address

no ipv6 address ipv6-prefix/prefix-length **eui-64** **ipv6 address** ipv6-prefix/prefix-length **eui-64**

1 IPv6

```
Ruijie(config-if)# ipv6 address 2001: 1::1 / 64
Ruijie(config-if)# no ipv6 address 2001: 1::1 / 64
Ruijie(config-if)# ipv6 address 2002: 1::/64 eui-64
Ruijie(config-if)# no ipv6 address 2002: 1::/64 eui-64
```

2

```
Ruijie(config-if)# ipv6 address my-prefix 0:0:0:7272::72/64
```

my-prefix 2001:1111:2222::/48 IPv6 2001:1111:2222:7272::72/64

Ipv6 address autoconfig	

2 IPv6 **ipv6 enable** ,
IPv6

a	IPv6 IPv6 **no ipv6 enable** IPV6

Ruijie(config-if)# ipv6 enable

show ipv6 interface	

-	-

30.1.5 ipv6 general-prefix

IPv6 **ipv6 general-prefix**

ipv6 general-prefix prefix-name ipv6-prefix/prefix-length

no ipv6 general-prefix prefix-name ipv6-prefix/prefix-length

prefix-name	
ipv6-prefix	RFC4291
prefix-length	

no

ipv6 neighbor ipv6-address interface-id hardware-address

no ipv6 neighbor ipv6-address interface-id

ipv6-address	IPV6 RFC4291
interface-i25 s	Routed Port,L3 AP SVI
hardware-address	XXXX.XXXX.XXXX 48 MAC ’X’

ARP IPV6

NDP

Reachble

IPV6 IPV6

mac

inactive show ipv6 neighbor static

clear ipv6 neighbors (NDP)

show ipv6 neighbors

Ruijie(conifg)# ipv6 neighbor 2001::1 vlan 1 00d0.f811.1111

show ipv6 neighbors	
clear ipv6 neighbors	

		RFC4291
	ipv6-address	
	interface-id	

-	-

IPv6

0

IPv6 0

IPv6

Ruijie(conifg)# no ipv6 source-route

-	-

-	-

30.2 ¡ µ - ‘ a —

30.2.1 clear ipv6 neighbors

clrear ipv6 neighbors

-	-

RGOS10.4	RGOS10.4

30.2.3 show ipv6 interface

IPV6

show ipv6 interface [interface-id] [**ra-info**]

interface-id	aggregateport SVI
ra-info	RA

ND retransmit interval is 1000 milliseconds

ND advertised retransmit interval is 0 milliseconds

ND router advertisements are sent every 200 seconds<240--160>

ND router advertisements live for 1800 seconds

INET6: 2001::1 , subnet is 2001::/64

[TENTATIVE] INET6 [ ]

waits	
initcount	RA
RA(out/in/inconsistent)	Out in inconsistent
RS(input)	
Link-layer address	
Physical MTU	MTU
!M | M	!M managed-config-flag M:
!O | O	!O other-config-flag O

ra-info (Prefix)

total	
fec0:1:1:1::/64	
Def	
Auto | CFG	Auto IPV6 , CFG
!Adv	
vltime	( )
pltime	( )
L | !L	L on-link !L
A | !A	A auto-config , !A

-	-

-	-

30.2.4 show ipv6 neighbors

IPV6

show ipv6 neighbors { [**verbose**] [interface-id] [ipv6-address] | [**static**] }

verbose	
interface-id	
ipv6-addres	
static	

1 SVI 1

```
Ruijie# show ipv6 neighbors vlan 1
IPv6 Address Linklayer Addr  Interface
fa::1      00d0.0000.0002  vlan 1
fe80::200:ff:fe00:2 00d0.0000.0002 vlan 1
```

2

```
Ruijie#     show ipv6 neighbors verbose
IPv6 Address Linklayer Addr Interface
2001::1     00d0.f800.0001 vlan 1
    State: Reach/H Age: - asked: 0
fe80::200:ff:fe00:1   00d0.f800.0001 vlan 1
    State: Reach/H Age: - asked: 0
```

IPv6 Address	IPV6

Linklayer Addr	Mac incomplete
Interface	
State	state/H(R) STATE INCMP(Incomplete)— (NS) (NA) REACH(Reachable) — STALE — NUD (Neighbor Unreachability Detection) DELAY— STALE STALE DELAY DELAY_FIRST_PROBE_TIME seconds(5) DELAY PROBE (NS) NUD PROBE— NUD RetransTimer milliseconds (NS) MAX_UNICAST_SOLICIT(3) ?— ~ щ ~ ё

GcTÐPCÃ¿

interface-type interface-number

31 IGMP a —

31.1 " - ‘ a —

31.1.1 ip igmp access-group

no

ip igmp access-group access-list

no ip igmp access-group

access-list	<1-199>|<1300-2699> | WORD

ك x ن ۳ Դ

```
Ruijie(config-ext-nacl)#              permit ip       host 1.1.1.1 host 233.3.3.3
Ruijie(config)#          interface ethernet          0
Ruijie(config-if)#              ip igmp access-group          ext_acl
```

-	-

-	-

31.1.2 ip igmp join-group

no

ip igmp join-group

ip igmp last-member-query-interval interval

no ip igmp last-member-query-interval

interval	<1-255>	0.1s

1s

IGMPv2 **ip igmp last-member-query-count**

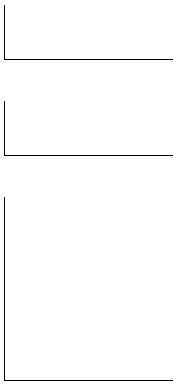
1>]TJ/TT0 1 Tf5.988 0 Td( )2eIGMP Tw(RuijieTconfig)# 3.1803 557 Td9.740]TJ/TT89.36face eth 3.1803

except	access-list limit
access-list	

1024

IGMP

IGMP


65536

Ruijie(config-if)# ip igmp mroute-proxy fa 0/1

-	-

-	-

31.1.9 ip igmp proxy-service

mroute-proxy

mroute-proxy

ip igmp proxy-service

no ip igmp proxy-service

-	-

proxy-service

32 IGMP Proxy

proxy-service proxy-service

mroute-proxy

proxy-service .

switchport **ip igmp**

mroute-proxy interface

proxy-service

Ruijie(config-if)# ip igmp proxy-service

-	-

-	-

31.1.10 ip igmp query-interval

no

ip igmp query-interval seconds

no ip igmp query-interval

seconds	s 1 1807 2/5

125

1 Ethernet 0 1207 2s
Ruijie(config-if)# ip igmp query-interval 120
2 Ethernet 0
Ruijie(config-if)# no ip igmp query-interval

-	-

-	-

31.1.11 ip igmp query-max-response-time

no

ip igmp query-max-response-time seconds

no ip igmp query-max-response-time

seconds	s 1 25

10s

IGMPv2

1 Ethernet 0 20s

Ruijie(config-if)# ip igmp query-max-response-time 20

2 Ethernet 0

Ruijie(config-if)# no ip igmp query-max-response-time

-	-

IGMP

IGMP

clear ip igmp group

Ruijie# clear ip igmp group

p p

Uptime: 00:00:42
Group mode: Include
Last reporter: 192.168.50.111
TIB-A Count: 2
TIB-B Count: 0
Group source list: (R - Remote, M - SSM Mapping)
Source Address Uptime v3 Exp Fwd Flags
192.168.55.55 00:00:42 00:03:38 Yes R
192.168.55.66 00:00:42 00:03:38 Yes R

-	-

-	-

31.2.4 show ip igmp interface

show ip igmp interface [interface-type interface-number]

interface-type	
interface-number	

IGMP Active, Non-Querier, Version 3 (default)
IGMP querying router is 0.0.0.0
IGMP query interval is 125 seconds
IGMP querier timeout is 255 seconds
IGMP max query response time is 10 seconds
Last member query response interval is 1000 milliseconds
Group Membership interval is 260 seconds
IGMP Snooping is globally enabled
IGMP Snooping is enabled on this interface
IGMP Snooping fast-leave is not enabled
IGMP Snooping querier is not enabled
IGMP Snooping report suppression is enabled

-	-

-	-

31.2.5 show ip igmp ssm-mapping

IGMP ssm-map

show ip igmp ssm-mapping (A.B.C.D)

A.B.C.D	

IGMP ssm-map

SSM Mapping : Enabled

Database : Static mappings configured

2 233.3.3.3

Ruijie# show ip igmp ssm-mapping 233.3.3.3

Group address: 233.3.3.3

Database : Static

Source list : 192.3.3.3

: 3.3.3.3

-	-

-	-

32 MLD a —

32.1 " - ‘ a —

32.1.1 clear ipv6 mld group

MLD report

clear ipv6 mld group [group-address] [interface-type interface-number]

group-address	128 IPv6
interface-type	
interface-number	

ipv6 mld access-group word

no ipv6 mld access-group

Word	IPv6 ACL

ACL

T

no

ipv6 mld immediate-leave group-list word

no ipv6 mld immediate-leave group-list

Word	IPv6 ACL

MLD

MLD

2s

Ruijie# configure terminal
Ruijie(config)# ipv6 access-list acl
Ruijie(config-ipv6-acl)# permit ipv6 2222::3333/64 ff66::100/64
Ruijie(config)# interface ethernet 0/1
Ruijie(config-if)# ipv6 mld immediate-leave group-list acl

ipv6 mld last-member-query-interval	-

-	-

32.1.5 ipv6 mld join-group

no

Ipv6 mld join-group group-address

no ipv6 mld join-group group-address

group-address	ipv6

MLD

0xFF*1 0xFF3*

no ipv6 mld last-member-query-count

number	, <2-7>

last member query count 2

MLD

MLD **mld last-member-query-count**

3.

Ruijie# configure terminal

Ruijie(config)# interface ethernet 0/1

Ruijie(config-if)# ipv6 mld last-member-query-count 3

-	-

-	-

32.1.7 ipv6 mld last-member-query-interval

no

ipv6 mld last-member-query-interval interval

no ipv6 mld last-member-query-interval

interval	<1-255> 0.1s

10 (0.1s)

MLD

MLD **mld last-member-query-count**

2

Ruijie# configure terminal

Ruijie(config)# interface fa 0/1

Ruijie(config-if)# ipv6 mld last-member-query-interval 200

ipv6 mld immediate-leave	-

-	-

32.1.8 ipv6 mld limit (Ç ")

MLD

no

ipv6 mld limit number [**except** access-list]

no ipv6 mld limit

except access-list
.

300
Ruijie(config-if)# ipv6 mld limit 300
300 acl
Ruijie(config-if)# ipv6 mld limit 300 except acl

-	-

-	-

32.1.9 ipv6 mld limit (æ e ")

MLD no

ipv6 mld limit number [**except** word]

no ipv6 mld limit number [**except** word]

number	MLD 1-65536
except	
word	ipv6

MLD except

300

Ruijie config # ipv6 mld limit 300

300 acl

Ruijie(config)# ipv6 mld limit 300 except acl

-	-

-	-

32.1.10 ipv6 mld mroute-proxy

Ipv6 mld mroute-proxy interface-type interface-number

no ipv6 mld mroute-proxy

interface-type interface-number	

proxy-service MLD

mroute-proxy

Ruijie(config-if)# ipv6 mld mroute-proxy fa 0/1

-	-

-

no

ipv6 mld query-interval seconds

no ipv6 mld query-interval

seconds	s	1	18000

125

Ethernet 0 120s

Ruijie(config-if)# ipv6 mld query-interval 120

Ethernet 0

Ruijie(config-if)# no ipv6 mld query-interval

-	-

no ipv6 mld ssm-map static access-list X:X:X:X::X

access-list	ipv6 ACL
X:X:X:X::X	

join-group

clear ,

no ipv6 mld static-group

Ruijie# configure terminal
Ruijie(config)# interface fast 0/1
Ruijie(config-if)# ipv6 mld static-group ff55::3

-	-

-	-

32.1.19 ipv6 mld version

MLD no

ipv6 mld version {**1** | **2** }

no ipv6 mld version

{**1**	**2**}	MLD , <1-2>

2.

MLD

1

Ruijie# configure terminal
Ruijie(config)# interface ethernet 0/1

Ruijie(config-if)# ipv6 mld version 1

-	-

-	-

32.2 ¡ µ - ‘ a —

32.2.1 show ipv6 mld groups

MLD

show ipv6 mld groups [group-address | interface-type interface-number] [**detail**]

group-address	128 IPv6
interface-type	
interface-number	
detail	

1

Ruijie# show ipv6 mld groups

MLD Connected Group Membership

Group Address Interface Uptime Expires Last Reporter

ff160 -1/0001 TiB 16.6:ere 1e 00:02:16 fe80::2d0:f8ff:fe22:3378

2

Ruijie# show ipv6 mld groups detail

Interface: VLAN 1

Group: ff66::1

Uptime: 00:10:26

Group mode: Exclude (Expires: 00:02:47)

Last reporter: fe80::2d0:f8ff:fe22:3378

Source list is empty

-	-

-	-

32.2.2 show ipv6 mld interface

show ipv6 mld interface [interface-type interface-number]

interface-type	
interface-number	

Ruijie# show ipv6 mld interface

Interface VLAN 2 (Index 4098)

MLD Enabled, Inactive, Version 2 (default)

Ruijie# show ipv6 mld ssm-mapping ff66::1234

Group address: ff66::1234

Database : Static

Source list : 5555::1234

Ruijie# show ipv6 mld ssm-mapping

SSM Mapping : Enabled

Database : Static mappings configured

-	-

-	-

MLD Snooping

33.1.3 deny

profile profile deny

deny

profile deny

profile

profile range

FF77::100 profile :

```
Ruijie(config)# ipv6 mld profile 1
Ruijie(config-profile)# range FF77::100
Ruijie(config-profile)# deny
```

ipv6 mld profile	profile
range	
permit	profile permit

profile deny

profile

profile range

FF77::1 profile :

```
Ruijie(config)# ipv6 mld profile 1
Ruijie(config-profile)# range FF77::1
Ruijie(config-profile)# permit
```

ipv6 mld profile	profile
range	
deny	profile deny

10.4	

33.1.5

VLAN VLAN

VLAN

VLAN

mld snooping ivgl

Ruijie(config)# ipv6 mld snooping ivgl

ipv6 mld snooping svgl mld snooping svgl

ipv6 mld snooping ivgl-svgl mld snooping

10.4

33.1.6 ipv6 mld snooping svgl profile

SVGL **ipv6 mld snooping profile** profile-number, **no ipv6 mld snooping profile**

ipv6 mld snooping profile profile-number

no ipv6 mld snooping profile

SVGL porfile 1

Ruijie(config)# ipv6 mld snooping svgl profile 1

ipv6 mld snooping ivgl	mld snooping ivgl
ipv6 mld snooping ivgl-svgl	mld snooping

10.4	

33.1.7 ipv6 mld snooping dyn-mr-aging-time

ipv6 mld snooping dyn-mr-aging-time time
no ipv6 mld snooping dyn-mr-aging-time

ipv6 mld snooping dyn-mr-aging-time time

no ipv6 mld snooping dyn-mr-aging-time

time	1-3600

300s

MLD IPv6 PIM Hello

500s

Ruijie(config)# **ipv6 mld snooping dyn-mr-aging-time** 500

10.4	

33.1.9 ipv6 mld snooping vlan

vid

ipv6 mld snooping vlan vid vlan mld snooping **no ipv6 mld snooping vlan** vid vlan mld snooping

ipv6 mld snooping vlan vid

no ipv6 mld snooping vlan vid

vlan

vid	vlan id 1-4094

vid	vlan id 1-4094

VLAN

no

mld snooping

Ruijie(config)# ipv6 mld snooping vlan 1 mrouter learn

ipv6 mld snooping vlan mrouter interface	

interface-id

FF88::1

Ruijie(config)# ipv6 mld snooping vlan 1 static FF88::1 interface fastEthernet 0/1

ipv6 mld snooping vlan mrouter interface	

10.4	

33.1.13 ipv6 mld snooping fast-leave enable

mld snooping fast-leave **ipv6 mld snooping fast-leave enable** no mld snooping fast-leave

ipv6 mld snooping fast-leave enable

no ipv6 mld snooping fast-leave enable

IPv6 MLD

IPv6 MLD

10.4	

33.1.16 ipv6 mld snooping filter

profile no profile

ipv6 mld snooping filter profile-number

no ipv6 mld snooping filter profile-number

profile-num	profile

MLD Profile MLD Report
MLD Profile
profile filter

0/1 profile 1

Ruijie(config)# interface fastEthernet 0/1
Ruijie(config-if)# ipv6 mld snooping filter 1

ipv6 mld profile	profile

, **ipv6 mld snooping max-groups** no

ipv6 mld snooping max-groups number

no ipv6 mld snooping max-groups

Number	0 – 1024

Ruijie# clear ipv6 mld snooping gda-table

10.4	

33.1.19 debug mld-snp

mld , **debug mld-snp**

debug mld-snp

undebug mld-snp

mld

mld

Ruijie# debug mld-snp

-

-	-

34.1.3 switchport port-security

no

switchport port-security [**violation** {**protect** | **restrict** | **shutdown**}]

no switchport port-security [**violation**]

port-security	
violation protect	
violation restrict	trap
violation shutdown	Trap

MAC IP(

) ( )

1

M

Gigabitethernet 1/1

shutdown

```
Ruijie(config)#  interface gigabitethernet  1/1
Ruijie(config-if)#  switchport port-security
Ruijie(config-if)#  switchport port-security violation shutdown
```


	show port-security	

1 10 2

```
Ruijie(config)#  inter  g0/10
Ruijie(config-if)#  switchport port-security maximum  2
```

switchport port-security	
switchport port-security binding	
Switchport port-security mac-address	
switchport port-security aging	
show port-security	

-	-

34.1.8 switchport port-security mac-address

no

[**no**] **switchport port-security mac-address** mac-address [vlan vlan-id]

1 TRUNK 10 00d0.f800.5555 VID=2

Ruijie(config)# inter g0/10

Ruijie(config-if)# switchport port-security mac-address 00d0.f800.5555 vlan 2

switchport port-security	
switchport port-security binding	
switchport port-security mac-address interface	
switchport port-security aging	
show port-security	

-	-

34.1.9 switchport port-security mac-address interface

no

[**no**] **switchport port-security interface** interface-id **mac-address** mac-address [vlan vlan-id]

interface-id	ID
mac-address	
vlan-id	MAC VID TRUNK vlan-id

1 TRUNK 10 00d0.f800.5555 VID=2

Ruijie(config)# switchport port-security interface g0/10 mac-address 00d0.f800.5555 vlan 2

switchport port-security	
switchport port-security binding	
Switchport port-security mac-address	
switchport port-security aging	
show port-security	

switchport port-security	
switchport port-security aging	
switchport port-security mac-address	

-	-

-	-

35.1.2 dot1x auto-req packet-num

no

dot1x auto-req packet-num num

no dot1x auto-req packet-num

num	

num = 0;

show dot1x auto-req

802.1x

```
Ruijie# configure terminal
Ruijie(config)#        dot1x auto-req packet-num        0
Ruijie(config)#        end
Ruijie# show dot1x auto-req
Auto-Req: Enabled
User-Detect : Enabled
Packet-Num : 0
Req-Interval: 30 Second
```

show dot1x auto-req	

-	-

35.1.3 dot1x auto-req req-interval

no

dot1x auto-req req-interval interval

no dot1x auto-req req-interval

interval	s

30

802.1X

```
Ruijie(config)#          dot1x timeout server-timeout          10
Ruijie(config)#          end
Ruijie# show dot1x
802.1X    Status:              Enabled
Authentication Mode: EAP-MD5
Authed User Number:  0
Re-authen Enabled:   Disabled
Re-authen Period:    1000 sec
Quiet Timer Period:  1000 sec
Tx Timer Period:     3 sec
Supplicant Timeout:  3 sec
Server Timeout:      10 sec
Re-authen Max:       3 times
Maximum Request:     3 times
Filter Non-RG Supp:  Disabled
Client Oline Probe:  Disabled
Eapol Tag Enable:    Disabled
Authorization Mode:  Group Server
```

show dot1x	802.1x

-	-

35.2.4 dot1x timeout supp-timeout

no

dot1x timeout supp-timeout seconds

no dot1x timeout supp-timeout

0

3

show dot1x 802.1x

10s

```
Ruijie# configure terminal
Ruijie(config)#  dot1x timeout supp-timeout  10
Ruijie(config)#  end
Ruijie# show dot1x
802.1X Status:     Enabled
Authentication Mode: EAP-MD5
Authed User Number:  0
Re-authen Enabled:   Disabled
Re-authen Period:    1000 sec
Quiet Timer Period:  1000 sec
Tx Timer Period:    3 sec
Supplicant Timeout:  10 sec
Server Timeout:     10 sec
Re-authen Max:      3 times
Maximum Request:    3 times
Filter Non-RG Supp:  Disabled
Client Oline Probe:  Disabled
Eapol Tag Enable:    Disabled
Authorization Mode:  Group Server
```

show dot1x	802.1x

-	-

35.2.5 dot1x timeout tx-period

no

dot1x timeout tx-period seconds

no dot1x timeout tx-period

show dot1x	802.1x

-	-

35.3 dot1x 7 a —

35.3.1 dot1x re-authentication

no

[**no**] **dot1x re-authentication**

-	-

show dot1x 802.1x

Ruijie# configure terminal
Ruijie(config)# dot1x re-authentication
Ruijie(config)# end
Ruijie# show dot1x
802.1X Status: Enabled
Authentication Mode: EAP-MD5
Authed User Number: 0
Re-authen Enabled: Enabled
Re-authen Period: 1000 sec
Quiet Timer Period: 1000 sec

```
Ruijie(config)#          end
Ruijie# show dot1x
802.1X   Status:              Enabled
Authentication Mode: EAP-MD5
Authed User Number:  0
Re-authen Enabled:   Enabled
Re-authen Period:    1000 sec
Quiet Timer Period:  1000 sec
Tx Timer Period:     10 sec
Supplicant Timeout:  10 sec
Server Timeout:      10 sec
Re-authen Max:       5 times
Maximum Request:     3 times
Filter Non-RG Supp:  Disabled
Client Oline Probe:  Disabled
Eapol Tag Enable:    Disabled
Authorization Mode:  Group Server
```

show dot1x	802.1x

-	-

35.4 dot1x p _ Ÿ a —

35.4.1 dot1x probe-timer

.

dot1x probe-timer{**interval** | **alive**}interval

no dot1x probe-timer

no	

interval	hello
alive	
interval	

Hello 20
250

show dot1x 802.1x

hello 30 , 120

```
Ruijie# configure terminal
Ruijie(config)# dot1x probe-timer interval 30
Ruijie(config)# dot1x probe-timer alive 120
Ruijie(config)# end
Ruijie# show dot1x probe-timer
Hello Interval: 30 Seconds
Hello Alive: 120 Seconds
```

Show dot1x probe-timer	

-	-

35.4.2 dot1x client-probe enable

[**no**] **dot1x client-probe enable**

-	-

Ruijie# configure termina l
Ruijie(config)# dot1x client-probe enable
Ruijie(config)# end
Ruijie# show dot1x
802.1X Status: Enabled
Authentication Mode: EAP-MD5
Authed User Number: 0
Re-authen Enabled: Enabled
Re-authen Period: 1000 sec
Quiet Timer Period: 1000 sec
Tx Timer Period: 10 sec
Supplicant Timeout: 10 sec
Server Timeout: 10 sec
Re-authen Max: 5 times
Maximum Request: 3 times
Filter Non-RG Supp: Disabled
Client Oline Probe: Enabled
Eapol Tag Enable: Disabled
Authorization Mode: Group Server

show dot1x	dot1x

-	-

35.5 dot1x c Q " a —

802.1X **no**

dot1x auth-address-table address mac-addr **interface** interface

no dot1x auth-address-table address mac-addr **interface** interface

mac-addr	
Interface	

802.1X **show dot1x auth-address table**

Ruijie# configure terminal
Ruijie(config)# dot1x auth-address-table address 00d0f8000000 interface ehternet 1/1
Ruijie(config)# end
Ruijie#

show dot1x auth-address-table	802.1X

-	-

35.5.3 dot1x auth-fail max-attempt

VLAN

dot1x auth-fail max-attempt num

no dot1x auth-fail max-attempt

num	VLAN , 1-3

3

```
Ruijie# configure terminal
Ruijie(config)#        dot1x auth-mode chap
Ruijie(config)#        end
Ruijie#
```

show dot1x	802.1x

-	-

35.5.6 dot1x default

802.1x

dot1x default

-	-

show dot1x 802.1x

802.1x

```
Ruijie# configure terminal
Ruijie(config)#        dot1x default
Ruijie(config)#        end
Ruijie# end
```

show dot1x	802.1x

-	-

35.5.7 dot1x dynamic-vlan enable

dot1x dynamic-vlan <1 - 4094>

no dot1x guest-vlan

vid	<1 - 4094>

guest vlan **dot1x dynamic-vlan enable**

guest vlan

guest vlan

vlan

show running-config 802.1x

802.1x guest vlan

```
Ruijie# configure terminal
Ruijie(config)# dot1x guest-vlan 10
Ruijie(config)# end
Ruijie#
```

-	-

show dot1x 802.1x

802.1X tag

```
Ruijie# configure terminal
Ruijie(config)#  dot1x eapol-tag
Ruijie(config)#  end
Ruijie#
```

show dot1x	802.1x

-	-

35.5.10 dot1x mac-auth-bypass

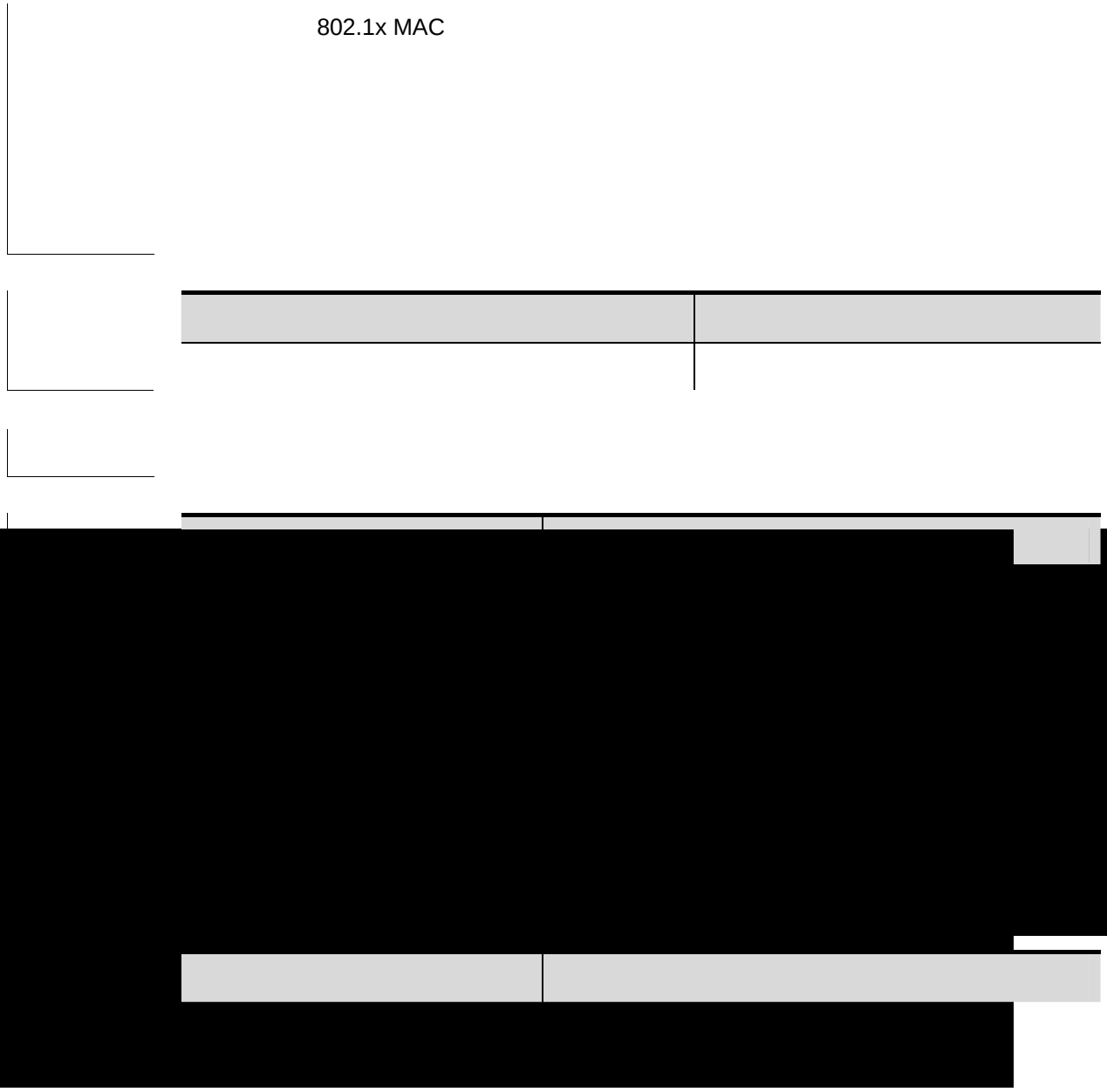
MAC

dot1x mac-auth-bypass

no dot1x mac-auth-bypass

MAC

show dot1x port-control interface


802.1x MAC

show dot1x port-control interface	802.1x

G £Eâ

802.1X

no

dot1x private-supplicant-only

no dot1x private-supplicant-only

802.1x

show dot1x 802.1x

802.1x

```
Ruijie#     configure terminal
Ruijie(config)#          interface g       0/1
Ruijie(config-if)#              dot1x port-control auto
Ruijie(config-if)#             end
Ruijie#
```

single-host	802.1x

mac-based

show dot1x port-control 802.1x
single-host 802.1x **show dot1x port-control**
port-based **show running-config** **dot1x port-control-mode**
port-based single-host
single-host default-user-limit single-host
single-host default-user-limit
single-host

1 802.1x
Ruijie(config)# interface g 0/1
Ruijie(config-if)# dot1x port-control auto nterface g
nterface g endTd
Ruijie(con6ig # 0/1

Ruijie(config-if)# nterface g TT2 1 Tf

802.1x

802.1X

dot1x stationarity enable

no dot1x stationarity enable

-	-

[**no**] **dot1x redirect url**

url-string	URL

1 ruijie.net/web

Ruijie(config)# dot1x redirect url http://ruijie.net/web

dot1x redirect for special tcp-destination port	ip ip web
dot1x redirect time-out	
dot1x redirect num for special source-ip	
show dot1x	dot1x

1 5

Ruijie(config)# dot1x redirect time-out 5

dot1x redirect url	ip ip web
dot1x redirect for special tcp-destination port	
dot1x redirect num for special source-ip	
show dot1x	dot1x

-	-

35.5.21 dot1x redirect num for special source-ip

1 1-10 no

dot1x redirect num for special source-ip num

no dot1x redirect num for special source-ip

num	

1

1 3 0.813

Authed User Number: 0
Re-authen Enabled: Disabled
Re-authen Period: 3600 sec
Quiet Timer Period: 10 sec
Tx Timer Period: 3 sec
Supplicant Timeout: 3 sec
Server Timeout: 5 sec
Re-authen Max: 3 times
Maximum Request: 3 times
Filter Non-RG Supp: Disabled
Client Oline Probe: Disabled
Eapol Tag Enable: Disabled
Authorization Mode: Group Server
Ruijie#

dot1x auth-mode	802.1x
dot1x max-req	
dot1x port-control auto	
dot1x reauth-max	
dot1x re-authentication	
dot1x timeout quiet-period	
dot1x timeout re-authperiod	
dot1x timeout server-timeout	
dot1x timeout supp-timeout	
dot1x timeout tx-period	

-	-

35.6.2 show dot1x auth-address-table

802.1X

show dot1x auth-address-table[addressmac-addr][interface interface]

mac-addr	
interface	

Ruijie# show dot1x auth-address-table
interface:g3/1
---
mac addr: 00D0.F800.0001
Ruijie#

dot1x auth-mode	802.1x
dot1x max-req	

dot1x timeout quiet-period	
dot1x timeout re-authperiod	
dot1x timeout server-timeout	
dot1x timeout supp-timeout	

dot1x timeout tx-period

Ruijie#

dot1x auth-mode	802.1x
dot1x max-req	
dot1x port-control auto	
dot1x reauth-max	
dot1x re-authentication	
dot1x timeout quiet-period	
dot1x timeout re-authperiod	
dot1x timeout server-timeout	
dot1x timeout supp-timeout	
dot1x timeout tx-period	

-	-

35.6.6 show dot1x port-control

show dot1x port-control [**interface** interface]

interface	

dot1x timeout supp-timeout	
dot1x timeout tx-period	

-	-

35.6.10 show dot1x summary

802.1X

show dot1x summary

-	-

Ruijie# show dot1x summary
ID MAC Interface VLAN Auth-State
Backend-State Port-Status Type
---------- ---------- ----------
1 00d0f8000000 Gi0/1 1 Authenticated Idle
Authed Static
Ruijie#

dot1x auth-mode	802.1x
dot1x max-req	

dot1x port-control auto	
dot1x reauth-max	
dot1x re-authentication	
dot1x timeout quiet-period	
dot1x timeout re-authperiod	
dot1x timeout server-timeout	
dot1x timeout supp-timeout	
dot1x timeout tx-period	

-	-

35.6.11 show dot1x user id

802.1X

show dot1x user id <id>

Mac address is 0013.2049.8272
Vlan id is 217
Access from port Gi0/13
User ip address is 192.168.217.64
Max user number on this port is 6000
COS on this port is 5
Up-bandwidth is 1024 kbps
Down-bandwidth is 1024 kbps
Authorization vlan is dep7
Authorization seesion time is 1000000 seconds
Authorization ip address is 192.168.217.64
Start accounting
Permit proxy user
Permit dial user
IP privilige is 2

dot1x auth-mode	802.1x
dot1x max-req	
dot1x port-control auto	

Ò ¢

35.6.12 show dot1x timeout

802.1X

dot1x timeout tx-period	

10.2(5)	

35.7.2 http redirect

HTTP IP **http redirect**
no HTTP IP

http redirect ip-address

no http redirect

ip-address	HTTP IP

HTTP IP

HTTP IP
HTTP

Ruijie# configure terminal
Ruijie(config)# http redirect 172.16.0.1
Ruijie(config)# end

show http redirect	HTTP
http redirect homepage	

no

http redirect direct-site ip-address [ip-mask] [**arp**]

no http redirect direct-site ip-address [ip-mask] [**arp**]

ip-address	IP
ip-mask	IP
arp	ARP CHECK ARP **arp**

802.1x

50

IP 172.16.0.1

Ruijie# configure terminal

Ruijie(config)# http redirect direct-site 172.16.0.1

show http redirect	HTTP

10.2(5)	

35.7.4 http redirect homepage

no

http redirect homepage url-string

no http redirect homepage

url-string	url-string “http://” “https://” 255

www.su-download.net/

Ruijie# configure terminal
Ruijie(config)# http redirect homepage www.su-download.net/

show http redirect	HTTP

10.2(5)	

35.7.5 http redirect port

HTTP **http redirect port** **no**

http redirect port port-num

no http redirect port port-num

-	-

80 HTTP

HTTP

HTTP

80 HTTP

PC HTTP

10 80

PC 8080 HTTP

Ruijie# configure terminal

Ruijie(config)# http redirect port 8080

show http redirect	HTTP

10.2(5)	

35.7.6 http redirect session-limit

HTTP

HTTP **no** HTTP

3

http redirect session-limit session-num [**port** port-session-num]

no http redirect session-limit

session-num	HTTP 1-255

port-session-num	HTTP 1-300

HTTP 255
HTTP 300

HTTP TCP
HTTP
HTTP HTTP
HTTP 1

```
session-limit: 10
timeout:     5

Direct sites:
 Address        MASK          ARP Binding
 ---------------- ---------------- -----------
 61.233.3.215    255.255.255.255   On
 61.233.3.220    255.255.255.255   Off
 192.168.5.140   255.255.255.255   Off
 218.30.66.101   255.255.0.0       Off
 218.30.66.101   255.255.255.255   Off
```

http redirect	HTTP IP
http redirect direct-site	
http redirect homepage	
http redirect port	HTTP
http redirect session-limit	HTTP
http redirect timeout	

10.2(5)	

36 Web a —

36.1 Web " a —

36.1.1 http redirect

HTTP IP **http redirect** **no** HTTP IP

http redirect ip-address

no http redirect

ip-address	HTTP IP

HTTP IP

url-string	“http://” “https://” 255

HTTP

HTTP

80 HTTP

HTTP

10 80

1 8080 HTTP WEB

Ruijie(config)# http redirect port 8080

1 80 HTTP WEB

Ruijie(config)# no http redirect port 80

show http redirect	HTTP

10.2(5)	

36.1.5 http redirect session-limit

HTTP HTTP

no HTTP

http redirect session-limit session-num [**port** port-session-num]

no http redirect session-limit

session-num	HTTP 1-255
port-session-num	HTTP 1-300

HTTP 255
HTTP 300

HTTP TCP
HTTP
HTTP HTTP
HTTP 1

1 HTTP 4
Ruijie(config)# http redirect session-limit 4

show http redirect	HTTP

10.2(5)	

36.1.6 http redirect timeout

no

3

http redirect timeout seconds

no http redirect timeout

seconds	seconds 1-10

3

HTTP

GET/HEAD HTTP

show web-auth allow-vlan	VLAN Web VLAN

-

10.4(2b2)	

36.1.8 web-auth direct-host

IP **no**

web-auth direct-host ip-address [ip-mask] [**port** interface-name] [**arp**]

no web-auth direct-host ip-address

ip-address	IP
ip-mask	IP
port interface-name	IP
arp	ARP CHECK IP ARP **arp**