

UG0AVME

ASME_RGOS11.1(6)B24

V513

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<http://www.ruijie.com.cn/>

<http://webchat.ruijie.com.cn>

<http://www.ruijie.com.cn/service.aspx>

7×24

4008-111-000

<http://bbs.ruijie.com.cn/portal.php>

<http://www.ruijie.com.cn/service/know.aspx>

4008111000@ruijie.com.cn

1.





h

- 1.
- 2.
3. LINE
4. File System
5. SYS
- 6.
7. HTTP
8. LICENSING
9. PKG_MGMT

1

alias	
privilege	
show aliases	

1.1 alias

alias *mode* *command-alias* *original-command*

no alias *mode* [*command-alias*]

default

default alias *mode* [*command-alias*]

<i>mode</i>	
<i>command-alias</i>	

bgp	Configure bgp Protocol
config	globe configure mode

*

*command-alias=original-command

EXEC	"s"	"show"	"s?"	's'
------	-----	--------	------	-----

```
Ruijie#s?
*s=show show start-chat start-terminal-service
```

EXEC "sv"

show version

```
Ruijie#s?
*s=show *sv="show version" show start-chat
start-terminal-service
```

```
Ruijie# s?
show start-chat start-terminal-service
```

"ia" "ip address"

```
Ruijie(config-if)#ia ?
A.B.C.D IP address
dhcp IP Address via DHCP
Ruijie(config-if)#ip address
```

ip address

show aliases

```
1 "def-route" "ip route 0.0.0.0 0.0.0.0 192.168.1.1"
Ruijie#configure terminal
Ruijie(config)#alias config def-route ip route 0.0.0.0 0.0.0.0 192.168.1.1
Ruijie(config)#def-route?
*def-route="ip route 0.0.0.0 0.0.0.0 192.168.1.1"
Ruijie(config)#end
Ruijie#show aliases config
globe configure mode alias:
def-route ip route 0.0.0.0 0.0.0.0 192.168.1.1
```

% Overly long alias name truncated after 19 characters.

255

% Command alias string too long.

100

% Can't add more than 100 command aliases in single mode.

% Adding command alias fail.

-

-

1.2 privilege

privilege *mode* [**all**] {**level** *level* | **reset**} *command-string*

no privilege *mode* [**all**] [**level** *level*] *command-string*

<i>mode</i>	CLI
all	
level <i>level</i>	0-15
reset	
<i>command-string</i>	

-

15

privilege

CLI

privilege ?

CLI

config	
ex c	
in er ace	
ip-dhcp-pool	DHCP

keychain	KeyChain
keychain-key	KeyChain-key
time-range	Time-Range

» 1 CLI 1 "test" reload T / Č }

1 EXEC

```
Ruijie#show aliases exec
```

```
exec mode alias:
```

```
h          help
```

```
p          ping
```

```
s          show
```

```
u          undebug
```

```
un         undebug
```

-

-

2

<1-99>	Telnet Client	
banner exec		
banner incoming	Telnet	
banner login		
banner [motd]		
banner prompt-timeout		
banner slip-ppp	SLIP/PPP	
configure		
disable		
disconnect	Telnet Client	
enable		
enable password		
enable secret		
enable service	SSH Server/Telnet Server/Web Server/Snmp Agent	
end		
exec-banner	line	EXEC
exec-timeout	LINE	
exit		
help		
hostname		
ip telnet source-interface	IP	Telnet
lock		
lockable	lock	
login	AAA	
login access non-aaa	AAA	AAA
login local	AAA	
motd-banner	line	MOTD
password	line	
prompt		
secret	line	MD5
show debugging		
show hostname		
show line		
show reload		
show running-config		
show service		

[show sessions](#)

2.2 banner exec

line

banner exec *c message c*

no banner exec

<i>c</i>	
<i>message</i>	

-

14

MOTD **banner motd**

LOGIN

banner login

EXEC **banner exec**

incoming **banner**

incoming

Telnet

incoming

EXEC

line

line

EXEC

no exec-banner

1

Ruijie(config)# banner exec \$ \$

line

-

-

-

2.3 banner incoming

Telnet

banner incoming *c message c*

telnet
no banner incoming

<i>c</i>	Telnet
<i>message</i>	Telnet

-

14

Telnet

5 MOTD Telnet

14

c	
message	

-

14

	MOTD	banner motd		LOGIN		banner login
			EXEC	banner exec		incoming banner
incoming		Telnet	incoming			EXEC

1

Ruijie(config)# banner login \$ enter your password \$

-

-

-

2.5 banner motd

MOTD message of the day

banner [motd] c message c

[motd]

	MOTD	banner motd	LOGIN	banner login
incoming		Telnet	EXEC banner exec incoming	incoming banner EXEC

-

0

 **disable**

1

10

Ruijie# disable 10

show privilege

-

-

-

2.10 disconnect

Telnet Client

disconnect session-id

session-id	Telnet Client

-

1

Telnet Client

Telnet Client

1

Telnet Client

Telnet Client

Ruijie# disconnect 1

1

show sessions

Telnet Client

enable password [**level** *level*] { [**0**] *password* | **7** *encrypted-password* }

no enable password [**level** *level*]

<i>level</i>	
<i>0</i>	
<i>password</i>	EXEC 1~126
<i>7 encrypted-password</i>	

-

15

1 26



web-server [http https all]	Web Server
snmp-agent	Snmp Agent

telnet-server snmp-agent web-server ssh-server

14

no enable service

	enable service web-server	3	[http https all]
	all	http	https
	http	https	http
	https	https	

1 enable service ssh-server SSH Server

Ruijie(Config # enable service ssh-server

show service

-

-

-

2.15 end

end

-	-

-

0

end

```
1          end
Ruijie#con
Enter configuration commands, one per line.  End with CNTL/Z.
Ruijie(config)#line vty 0
Ruijie(config-line)#end
*May 20 09:49:38: %SYS-5-CONFIG_I: Configured from console by console
Ruijie#
```

-

-

-

-

2.16 exec-banner

```
          line          EXEC
exec-banner
```

```
          line          EXEC
no exec-banner
```

-	-

```
          EXEC

LINE

14

          banner exec  banner motd          line          EXEC  MOTD
          line          EXEC  MOTD          no

EXEC  MOTD
```

	banner incoming	banner incoming	Telnet
	incoming	incoming	

```

1          line 1
Ruijie(config)# line vty 1
Ruijie(config-line)no exec-banner

```

```

-
-
-

```

2.17 exec-timeout

```

LINE
exec-timeout minutes [ seconds ]

```

```

LINE
no exec-timeout

```

<i>minutes</i>	0-35791
<i>seconds</i>	0-2147483

10 min

```

LINE

```

```

14

```

```

LINE

```

```

1          line vty 0          5  30
Ruijie(config-line)# exec-timeout 5 30

```

```

-
-
-

```

2.18 exit

CLI

exit

-	-

0

1 **exit**

```
Ruijie#con
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)#line vty 0
Ruijie(config-line)#end
*May 20 09:49:38: %SYS-5-CONFIG_I: Configured from console by console
Ruijie#con
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)#line vty 0
Ruijie(config-line)#exit
Ruijie(config)#exit
*May 20 09:51:48: %SYS-5-CONFIG_I: Configured from console by console
Ruijie#exit

Press RETURN to get started
```

2.19 help

help

-	-

-

1

"?"

1

Ruijie#help

Help may be requested at any point in a command by entering a question mark '?'. If nothing matches, the help list will be empty and you must backup until entering a '?' shows the available options.

Two styles of help are provided:

1.

Full help is available when you are ready to enter a command argument (e.g. 'show ?') and describes each possible argument.

2.

Partial help is provided when an abbreviated argument is entered and you want to know what arguments match the input (e.g. 'show pr?'.)

2

Ruijie(config-if-GigabitEthernet 0/0)#?

Interface configuration commands:

arp	ARP interface subcommands
bandwidth	Set bandwidth informational parameter
carrier-delay	Specify delay for interface transitions
dampening	Enable event dampening
default	Set a command to its defaults
description	Interface specific description
dldp	Exec data link detection command

duplex	Configure duplex operation		
efm	Config efm for an interface		
end	Exit from interface configuration mode		
exit	Exit from interface configuration mode		
expert	Expert extended ACL		
flowcontrol	Set the flow-control value for an interface		
full-duplex	Force full duplex operation		
global	Global ACL		
gvrp	GVRP configure command		
half-duplex	Force half duplex operation		
help	Description of the interactive help system		
ip	Interface Internet Protocol config commands	isis	Intermediate
System - Intermediate System (IS-IS)			
l2	Config L2 attribute		
label-switching	Enable interface process mpls packet		
lacp	LACP interface subcommands		
lldp	Link Layer Discovery Protocol		
load-interval	Specify interval for load calculation for an interface		
mac	Mac extended ACL		
mac-address	Set mac-address		
mpls	Multi-Protocol Label Switching		
mtu	Set the interface Maximum Transmission Unit (MTU)		
no	Negate a command or set its defaults		
ntp	Configure NTP		
port-group	Aggregateport/port bundling configuration		
redirect	Redirect packets		
rmon	Rmon command		
security	Configure the Security		
show	Show running system information		
shutdown	Shutdown the selected interface		
snmp	Modify SNMP interface parameters		
speed	Configure speed operation		
switchport	Set switching mode characteristics		
vrf	Multi-af VPN Routing/Forwarding parameters on the interface		
vrrp	VRRP interface subcommands		
xconnect	Xconnect commands		

3

Ruijie(config)#access-list 1 permit ?

A.B.C.D Source address

any Any source host

host	A single source host
------	----------------------

-
-
-
-

2.20 hostname

hostname *name*

<i>name</i>	63

Ruijie

14

CHAP

```
1                               BeiJing_Ruijie
Ruijie(config)# hostname BeiJing_Ruijie
BeiJing_Ruijie(config)#
```

-
-
-
-

2.21 ip telnet source-interface

IP Telnet
ip telnet source-interface *interface-name*

<i>interface-name</i>	IP		Telnet		AP	
	Gi	Loopback	null	Tunnel	VLAN	

-

14

IP Telnet telnet Telnet

no ip telnet source-interface

1 Loopback 1 IP Telnet

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

-

-

-

-

2.22 lock

lock

-	-

-

1

lock

„ Locked †

line

lockable

line

1

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

-

-

-

-

2.23 lockable

lockable

no lockable

-	-

LINE

14

AAA

VTY console

1 VTY

```
Ruijie(config)# no aaa new-model
Ruijie(config)# line vty 0
Ruijie(config-line)# password 0 normatest
Ruijie(config-line)# login
```

-

-

-

-

2.25 login access non-aaa

AAA

LINE

AAA

login access non-aaa

AAA

AAA

no login access non-aaa

-	-

14

AAA

LINE

AAA

1	AAA	VTY
---	-----	-----

```
Ruijie(config)#log access non-aaa
Ruijie(config)#aaa new-model
Ruijie(config)#line vty 0 4
Ruijie(config-line)#login local
Ruijie(config-line)#
```

-

-

-

-

2.26 login local

AAA	LINE
-----	------

login local

no login local

-	-

-

LINE

14

AAA	LINE
-----	------

username

1	VTY
---	-----

```
Ruijie(config)# no aaa new-model
Ruijie(config)# username test password 0 test
Ruijie(config)# line vty 0
Ruijie(config-line)# login local
```

-

-

-

-

2.27 motd-banner

line MOTD
motd-banner

line MOTD
no motd-banner

-	-

MOTD

LINE

14

	banner exec	banner motd		line	EXEC	MOTD
	line	EXEC	MOTD		no	
EXEC	MOTD					

	banner incoming	banner incoming	Telnet
	incoming	incoming	

1 Vty1 MOTD

```
Ruijie(config)# line vty 1
Ruijie(config-line)no motd-banner
```

-

-

2.28 password

line
password { [**0**] *password* | **7** *encrypted-password* }

line
no password

0	
<i>password</i>	line 1~25
7 <i>encrypted-password</i>	

-

LINE

14

-

1 line red

```
Ruijie(config)# line vty 0
Ruijie(config-line)# password red
```

-

-

-

-

2.29 prompt

CLI
prompt *string*

no prompt

CLI

<i>string</i>	32

-

14

CLI
CLI EXEC

1 RGOS

```
Ruijie(config)# prompt RGOS
Ruijie(config)# end
RGOS
```

-

-

-

-

2.30 secret

line MD5
secret { [0] *password* | 5 *encrypted-secret* }

line MD5
no secret

0	MD5
<i>password</i>	line 1~25
5 encrypted-secret	MD5

--	--

-

line

14

line

15

-

1 **show debugging**

```
Ruijie#show debugging
```

```
debug fw-group detect intf-state
```

-

-

2.32 show hostname

show hostname

-	-

15

-

1 **show hostname** Ruijie

```
Ruijie#show hostname
```

```
Ruijie
```

```
Ruijie#
```

-

-

2.33 show line

show line { **console** *line-num* | **vty** *line-num* | *line-num* }

console	
vty	
<i>line-num</i>	line

14

-

1 console

```
Ruijie# show line console 0
```

CON	Type	speed	Overruns
* 0	CON	9600	45927

Line 0, Location: "", Type: "vt100"

Length: 24 lines, 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.

Total input: 53564 bytes

Total output: 395756 bytes

Data overflow: 27697 bytes

stop rx interrupt: 0 times

CON	CON 0 *
Type	CON AUX TTY VTY
speed	
Overruns	overrun
Line 0	
Location: ""	location

2.35 show running-config

show running-config [interface *interface*]

-	-

14

-

-

-

-

2.36 show service

show service

-	-

1

-

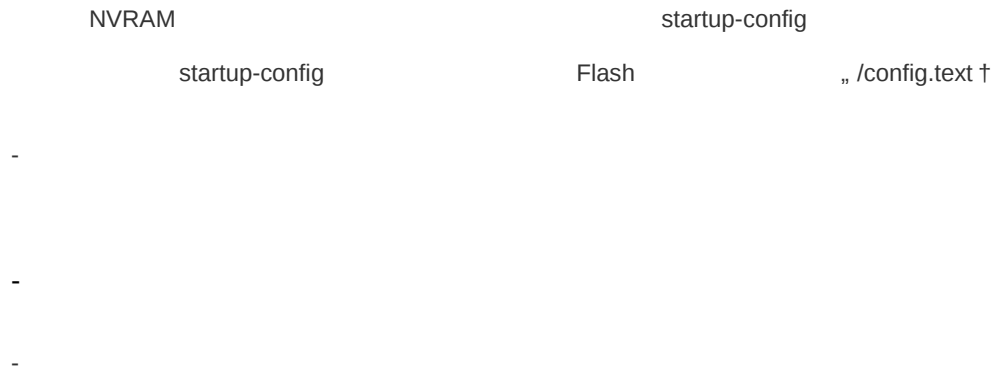
1

Ruijie# show service

web-server(https): disabled

iB : e=

14



2.39 show this

show this

-	-

14

- range
1. **line** *first-line last-line* **LINE**
 2. **vlan range** **VLAN** **vlan range**
 3. **interface range** **interface range**

	vlan range	interface range	vlan	interface	50
	U				

```
!
end
Ruijie (config-if-FastEthernet 0/1)#
2          interface range vlan 1-3
Ruijie(config-if-range)#show this

Building configuration...
!
interface VLAN 1
  ip address dhcp
interface VLAN 2
  ip address 1.1.1.1 255.255.255.0
interface VLAN 3
  ip address 3.3.3.3 255.255.255.0
!
end
Ruijie(config-if-range)#
```

-

-

2.40 speed

speed *speed*

no speed

	bps					
<i>speed</i>	9600	19200	38400	57600	115200	9600

9600

LINE

14

speed

1: 57600 bps

```
Ruijie(config)# line console 0
```

```
Ruijie(config-line)# speed 57600
```

show line LINE

-

-

-

2.41 telnet

Telnet

telnet [**oob**] *host* [*port*] [**/source** { **ip** *A.B.C.D* | **interface** *interface-name* }]

oob	MGMT		Telnet
	MGMT		
host	Telnet	IPV4	
port	Telnet	TCP	23
/source	Telnet	IP	
ip A.B.C.D	Telnet	IPV4	
interface interface-name	Telnet		

-

1

-

-

-

-

-

-

2.42 username

	7	
	7	
1		15
Ruijie(config)# username test privilege 15 password 0 pw15		
2	web	
Ruijie(config)# username user1 web-auth password 0 pw		
3	test	
Ruijie(config)# username test permission rw /		
4	test	config.text
Ruijie(config)# username test permission n /config.text		
Ruijie(config)# username test permission rwx /		
-		
-		
-		
-		

2.43 username import

username import *filename*

<i>filename</i>	
-	
1	

1 :

Ruijie# username import user.csv

-

-

-

-

2.44 username export

username export *filename*

<i>filename</i>	

-

1

1 :

Ruijie# username export user.csv

-

-

-

-

2.45 write

write [

3 LINE

access-class	ACL IPv4
accounting commands	line
accounting exec	line
authorization commands	
authorization exec	Exec
clear line	
disconnect-character	
escape-character	
exec	line
history	line line
length	
line	LINE
line vty	VTY
location	
monitor	
privilege level	line
refuse-message	line
show history	line
show line	
show privilege	line
show user	
speed	
terminal escape-character	
terminal history	
terminal length	
terminal location	
terminal speed	
terminal width	
timeout login	line
transport input	line
vacant-message	line
width	

3.1 access-class

ACL IPv4

access-class { *access-list-number* | *access-list-name* } { **in** | **out** }

ACL IPV4

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

<i>access-list-number</i>	ACL IP ACL(1-99 1300-1999) IP ACL(100-199 2000-2699)
<i>access-list-name</i>	ACL
in	
out	

-

LINE

14

-

1 0-5 VTY 20 ACL

Ruijie(config)# line vty 0 5
Ruijie(config-line)#access-class 20 in

2 6-7 VTY ACL test ACL

Ruijie(config)# line vty 6 7
Ruijie(config-line)#access-class test out

-

-

-

-


```
Ruijie(config)# line vty 0
Ruijie(config-line)# escape-character 23
```

—

line
no exec

14

1 1

Line	User	Host(s)	Idle	Location
* 0 con 0	---	idle	00:00:00	---
1 vty 0	---	idle	00:01:03	20.1.1.2

3	vtty 2	---	idle	00:00:13	20.1.1.2
-					
-					
-					
-					

3.6 history

line	line
history [size size]	
line	
no history	
line	
no history size	

size size	0~256

10

LINE

14

-

1	0-5	line	20
Ruijie(config)# line vty 0 5			
Ruijie(config-line)# history size 20			

2	0-5	line	
Ruijie(config)# line vty 0 5			
Ruijie(config-line)# no history			

-

-

-

-

3.7 length

length screen-length

no length

screen-ength	0-512

24

LINE

14

-

110

Ruijie(config-line)# length 10

-

-

-

-

3.8 line

LINE

line [console | vty] first-line [last-line]

console	
vty	Telnet SSH
first-line	first-line
last-line	last-line

-

14

-

1 LINE VTY 1 3 LINE

Ruijie(config)# line vty 1 3

-

-

-

-

3.9 line vty

VTY

line vty line-number

VTY

no line vty line-number

line-number	VTY 0~35

-

14

1Swtich's Line Vty 0

Ruijie(config)# line vty 0

Ruijie(config-line)# location Swtich's Line Vty 0

-

-

-

-

3.11 monitor

monitor

no monitor

-	-

-

LINE

14

-

10-5 line

Ruijie(config)# line vty 0 5

Ruijie(config-line)# monitor

-

-

-

-

3.12 privilege level

line
privilege level *level*

line
no privilege level

<i>level</i>	0-15

privilege level 1

LINE

14

-

1 0-4 VTY line 14
Ruijie(config)# line vty 0 4
Ruijie(config-line)privilege level 14

-

-

Ò

no refuse-message

<i>c</i>	
<i>message</i>	

-

LINE

14

1 line

Ruijie(config-line)# refuse-message @ @

-

-

-

-

3.14 show history

line
show history

-	-

14

-

line

```
Ruijie# show history
exec:
sh privilege
sh run
show user
sh user all
show history
```

-

-

-

-

3.15 show line

show line { **console** *line-num* | **vty** *line-num* | *line-num* }

console	
vty	
line-num	line

14

-

1 console

```
Ruijie# show line console 0
CON    Type    speed  Overruns
* 0    CON      9600   45927
Line 0, Location: "", Type: "vt100"
Length: 24 lines, Width: 79 columns
Special Chars: Escape Disconnect Activation
                ^^x      none      ^M
Timeouts:      Idle EXEC    Idle Session
```

nevernever

History is enabled, history size is 10.

Total input: 53564 bytes

Total output: 395756 bytes

Data overflow: 27697 bytes

stop rx interrupt: 0 times

CON	CON	0	*	
Type	CON	AUX	TTY	VTY
speed				

-

line

```
Ruijie# show privilege
Current privilege level is 10
```

-

-

3.17 show users

show users [all]

all	

14

-

1

```
Ruijie# show users
Line           User           Host(s)           Idle             Location
-----
  0 con 0      ---           idle              00:00:46        ---
  1 vty 0      ---           idle              00:00:29        20.1.1.2
* 2 vty 1      ---           idle              00:00:00        20.1.1.2
```

2

```
Ruijie(config)# show users all
Line           User           Host(s)           Idle             Location
-----
  0 con 0      ---           idle              00:00:49        ---
  1 vty 0      ---           idle              00:00:32        20.1.1.2
* 2 vty 1      ---           idle              00:00:00        20.1.1.2
  3 vty 2      ---           idle              00:00:00        ---
  4 vty 3      ---           idle              00:00:00        ---
```


terminal escape-character *escape-value*

terminal no escape-character

<i>escape-value</i>	ASCII	0-255

1

14

14

14

4

10

14

1

4

,

•

1 10

Ruijie# terminal length 10

-

-

-

-

3.22 terminal location

terminal location *location*

terminal no location

<i>location</i>	

-

14

-

1 Swtich's Line Vty 0

Ruijie# terminal location Swtich's Line Vty 0

-

-

-

-

3.23 terminal speed

79

14

-

1

10

Ruijie# terminal width 10

-

-

-

-

3.25 timeout login

line

timeout login response seconds

line

no timeout login response

response	Line
seconds	1-300

30

LINE

14

-

0-5 line Vty

300

```
Ruijie(config)# line vty 0 5
Ruijie(config-line)#timeout login response 300
```

-

-

-

-

3.26 transport input

```
line
transport input { all | ssh | telnet | none }
```

```
line
no transport input { all | ssh | telnet | none }
```

all	
ssh	ssh
telnet	telnet
none	

all ssh telnet

LINE

14

-

0-4 VTY line telnet

```
Ruijie(config)# line vty 0 5
Ruijie(config-line)#transport input ssh
```

-

-

-

-

3.27 vacant-message

line

vacant-message [*c message c*]

line

no vacant-message

<i>c</i>	
<i>message</i>	

-

no width

screen-width	0-256

79

LINE

14

-

110

Ruijie(config-line)# width 10

-

-

-

-

4 File System

cd	
copy	
delete	
dir	
erase	
file	
file prompt	
mkdir	
more	
pwd	
rename	
rmdir	
show file systems	
show mount	
tar	tar tar tar
tftp-client source	TFTP Client IP IP IP
tree	
verify	md5
show disk	usb/flash

4.1 cd

`cd [ filesystem: ] [ directory ]`

<i>filesystem:</i>	url flash:, usb:, tmp:
<i>directory</i>	„ / †

flash:

```
Ruijie#copy tftp://192.168.64.2/netconfig flash:/netconfig
The file [flash:/netconfig] exists,override it? [Y/N]: y
Copying: !!!!!!!

Accessing tftp://192.168.64.2/netconfig finished, 2399bytes prepared
Flushing data to flash:/netconfig...
Flush data done
```

copy dir

-

-

4.3 delete

delete [*filesystem:*] *file-url* [**/force** | **/recursive**]

<i>filesystem:</i>	url	flash: usb:, tmp:
<i>file-url</i>	.. / †	
/force		
/recursive		

flash:

15 † ÷ G 1 \$

filesystem:	urlflash: usb:, tmp:
file-url	„ / †

flash:

15

-

1 flash

```
Ruijie#dir flash:/
Directory of flash:/
1  -rw-      336   Jan 03 2012 18:53:42  fstab
2  -rw-     4096   Jan 03 2012 12:32:09  rc.d
3  -rw-   10485760   Jan 03 2012 18:13:37  rpmdb
3 files, 0 directories
10,490,192 bytes total (13,192,656 bytes free)
```

1 2 3.	
-rw-	d r w x
10485760	
rpmdb	
files	
directories	
total	

fre

-

4.5 erase

erase *filesystem:*

<i>filesystem:</i>	usb0:

15

-

1 usb

Ruijie#erase usb0:
Sure to erase usb0:? [Y/N] y
Erasing disk usb0 ...
Erase disk usb0 done!

erase **dir**

-

-

-

4.6 file

file [*filesystem:*] *file-url*

--	--

<i>filesystem:</i>	url	flash: usb:, tmp:
<i>file-url</i>	„ / †	

flash:

15

-

1 gcc

```
Ruijie#file flash:/gcc
/usr/bin/gcc-4.6: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically linked (uses
shared libs), for GNU/Linux 2.6.15, stripped
```

-

-

-

-

4.7 file prompt

file prompt [noisy | quiet]

noisy	
quiet	

noisy

15

-

1 noisy

```
Ruijie#file prompt noisy
```

-

-

-

-

4.8 mkdir

mkdir [*filesystem:*] *directory*

```
filesystem:
```

```
2  -rw-      4096   Jan 03 2012 12:32:09  rc.d
3  -rw-  10485760   Jan 03 2012 18:13:37  rpmdb
4  drw-      4096   Jan 03 2012 18:13:37  newdir
3 files, 1 directories
10,494,228 bytes total (13,188,560 bytes free)
```

-

-

-

-

4.9 more

more [/ascii | /binary] [filesystem:] file-url

/ascii	ASCII
/binary	16 /
filesystem:	url flash:, usb:, tmp:
file-url	, / †

15

-

```
1      flash      netconfig
Ruijie#more flash:/netconfig
#
# The network configuration file. This file is currently only used in
# conjunction with the TI-RPC code in the libtirpc library.
#
# Entries consist of:
#
```

```
#      <network_id> <semantics> <flags> <protofamily> <protoname> \  
#      <device> <nametoaddr_libs>  
#  
# The <device> and <nametoaddr_libs> fields are always empty in this  
# implementation.  
#  
udp      tpi_clts      v      inet      udp      -      -  
tcp      tpi_cots_ord v      inet      tcp      -      -  
udp6     tpi_clts      v      inet6     udp      -      -  
tcp6     tpi_cots_ord v      inet6     tcp      -      -  
rawip    tpi_raw       -      inet      -      -      -  
local    tpi_cots_ord  -      loopback  -      -      -
```

-

-

-

-

4.10 pwd

pwd

-	-

-

14

-

-

-

-

-

-

4.11 rename

rename *src-url dst-url*



-

-

-

-

4.12 rmdir

rmdir [*filesystem:*] *directory*

<i>filesystem:</i>	url	flash:

```
2  -rw-      4096   Jan 03 2012 12:32:09 rc.d
3  -rw-  10485760   Jan 03 2012 18:13:37 rpmdb
3 files, 0
```


on	-
/proc	
type	-
proc	
(rw,noexec,nosuid,nodev)	

14

-

1 TFTP Client IP 192.168.23.236

```
Ruijie(config)# tftp-client source ip 192.168.23.236
```

2 TFTP Client IP 2003:0:0:0::2

```
Ruijie(config)# tftp-client source ipv6 2003:0:0:0::2
```

3 TFTP Client IP gigabitEthernet 0/0

```
Ruijie(config)# tftp-client source gigabitEthernet 0/0
```

5 no IP

```
Ruijie(config)# no tftp-client source ip 192.168.23.236
```

7 TFTP Client

```
Ruijie(config)# default tftp-client source ip 192.168.23.236
```

1 show run tftp-client source ip192.168.23.236

2 show run tftp-client source ipv6 2003:0:0:0::2

3 show run tftp-client source gigabitEthernet 0/0

1 ip

2

-

-

4.16 tree

tree [*filesystem*:] [*directory*]



b-T @.Y. p2769 Vt5 P(r450) 06083e1 Tf ,2 Tc 4.1w 13.98 0 073 0.06 5533 1 Tf tmp:0 -1.8 TD <6FAC05400

```
| +-- echo_server.o
| +-- echo_sysfs.c
| +-- echo_sysfs.h
| +-- echo_sysfs.o
| +-- Makefile
| +-- modules.order
| +-- Module.symvers
| +-- msg_fd.c
| +-- msg_fd.o
+-- readme
+-- server_module
+-- server_userspace
+-- sys_rgos.ko
+-- user_space
    +-- echo_server.c
    +-- echo_server.o
    +-- Makefile
    +-- msg_fd.c
    +-- msg_fd.o 10,490,132 bytes total (13,192,656 bytes free)

-

-

-

-
```

4.17 verify

md5
verify [/md5 md5-value] filesystem: [file-url]

/md5	MD5		
md5-value	md5	md5	
filesystem:	url		flash: usb:, tmp:
file-url	„ / †		

flash:

5 SYS

calendar set	
clock read-calendar	
clock set	
clock summer-time	
clock timezone	
clock update-calendar	
cpu high-watermark set	CPU 0
memory low-watermark set	
memory history clear	
reload	
show calendar	
show clock	
show health-monitor	
show memory	
show pci-bus	PCI
show process cpu	
show process cpu detailed	
show usb-bus	USB
show version	
show cpu	

1

1.

month *day* *year*

„ 2012-02-29 09:33:44 †

calendar set 12 5

„ 2012-05-29 12:33:44 †

2.

day

1~31

2012

2

29

2 31

calendar set 11:30 2 31 2012

„ 2012-03-02 11:30:23

1

1.

month

day

year




```
Ruijie(config)#show calendar
08:24:35 GMT Wed, Feb 29, 2012
```

```
Ruijie(config)# clock summer-time TZA start Feb 1 sat 2:00 end May 3 Monday 18:30 ahead 1 20
*May 10 03:45:58: %SYS-5-CLOCKUPDATE: Set summer-time: TZA from February the 1st Saturday at 2:00
TO May the 3rd Monday at 18:30, ahead 1 hour 20 minute
Set summer-time: TZA from February the 1st Saturday at 2:00 TO May the 3rd Monday at 18:30, ahead
1 hour 20 minute
```

```
Ruijie# show clock
18:00:08 TZA Wed, Feb 29, 2012
```

```
#
Ruijie#clo set 18 1 1
*Jan 1 18:00:09: %SYS-5-CLOCKUPDATE: Set system clock: 18:00:09 ABC Sun, Jan 1, 2012
Set system clock: 18:00:09 ABC Sun, Jan 1, 2012
Ruijie#show clock
18:00:12 ABC Sun, Jan 1, 2012
```

```
2
1 ahead ahead
4 2:00 10 2:00 1
```

```
Ruijie(config)#clo summer-time PDT start April 1 sunday 2:00 end October last Sunday 2:00
*May 10 03:15:05: %SYS-5-CLOCKUPDATE: Set summer-time: PDT from April the 1st Sunday at 2:00 TO October
the last Sunday at 2:00, ahead 1 hour
Set summer-time: PDT from April the 1st Sunday at 2:00 TO October the last Sunday at 2:00, ahead 1
hour
```

```
3
Ruijie(config)#no clock summer-time
*Jan 1 18:01:09: %SYS-5-CLOCKUPDATE: Set no summer time.
Set no summer time.
```

```
Æ °
```

5.5 clock timezone

clock timezone [*name* *hours-offset* [*minutes-offset*]]

no clock timezone

<i>name</i>	[A~Z][a~z] 3~31
<i>hours-offset</i>	UTC <i>hours-offset</i>
	[-12, 12]
	 UTC <i>hours-offset</i> " - "
<i>minutes-offset</i>	0~59

15

-

vsd0

vsd

1 CST 8

```
Ruijie(config)# clock timezone CST 8
```

```
Set time zone name: CST (GMT+08:00)
```

```
Ruijie# show clock
```

```
18:00:17 CST Wed, Dec 5, 2012
```

2 TZA 06:13

```
Ruijie(config)# clock timezone TZA -6 13
```

```
Set time zone name: TZA (GMT-06:13)
```

3

```
Ruijie(config)# no clock timezone
```

```
Set no clock timezone.
```

-

-

-

-

5.6 clock update-calendar

clock update-calendar

-	-

-

1

vsd0

vsd

1

```
Ruijie# clock update-calendar
Set the hardware time from the system clock.
```

2

GMT+5:10

5:10

```
Ruijie# show clock
09:30:21 TSZ Wed, Feb 29, 2012

Ruijie# clock update-calendar
Set the hardware time from the system clock.
```

```
Ruijie#show calendar
```

```
04:20:25 UTC Wed, Feb 29, 2012
```

3

GMT+5:10

2 1 1
6:25

6 1 2

1 15

```
Ruijie# show clock
09:30:02 TSZ Wed, Feb 29, 2012

Ruijie# clock update-calendar
Set the hardware time from the system clock.

Ruijie#show calendar
03:05:08 UTC Wed, Feb 29, 2012
```

-
-
-
-

5.7 cpu high-watermark set

CPU

cpu high-watermark set [[**high** *high-value*] [**range** *range-value*]]

CPU

no cpu high-watermark set

default cpu high-watermark set

high <i>high-value</i>	CPU	2~99
range <i>range-value</i>		1~20

CPU 80% 5% 75%~85%

15

vsd0
CPU

vsd

CPU

1 CPU

```
Ruijie(config)# default cpu high-watermark set
Reset default cpu watermark monitor
set system cpu watermark high 80%(75%~85%)
```

2 CPU

```
Ruijie(config)# no cpu high-watermark set
Close cpu watermark monitor
```

3

```
Ruijie(config)# cpu high-watermark set
Open cpu watermark monitor
set system cpu watermark high 80%(75%~85%)
```

4

88%

3%

```
Ruijie(config)# cpu high-watermark set high 88 range 3
Open cpu watermark monitor
set system cpu watermark high 88%(85%~91%)
```

88%

91%

88%+3%

85%

88%-3%

-

CPU

85%~91%

CPU

```
*Jan 19 16:23:01: %RG_SYSMON-4-CPU_WATERMARK_HIGH: warning! system cpu usage above high
watermark(85%),current cpu usage 100%
```

CPU

```
*Jan 20 07:02:52: %RG_SYSMON-5- CPU_WATERMARK:withdraw warning! system cpu usage below high
watermark(85%), current cpu usage 36%
```

-

-

5.8 memory low-watermark set

memory low-watermark set *mem-rate*

no memory low-watermark set

default memory low-watermark set

<i>mem-rate</i>	1~100 %

90%

15

1 80%

Ruijie(config)#memory low-watermark set 80

-

-

-

5.9 memory history clear

memory history clear [one-forth | half | all]

one-forth	
half	
all	

-

15

-

1

```
Ruijie# show memory history
```

```
Time Thu Jan 1 00:24:45 1970
```

```
Used(k) 148516
```

```
Maximum memory users for this period
```

Process Name	Holding
--------------	---------

tcpip.elf	270028
-----------	--------

cli-memory	60600
------------	-------

rg_syslogd	36640
------------	-------

```
Time Thu Jan 1 00:24:41 1970
```

```
Used(k) 148492
```

```
Maximum memory users for this period
```

Process Name	Holding
--------------	---------

tcpip.elf	270028
-----------	--------

cli-memory	52408
------------	-------

rg_syslogd	36640
------------	-------

```
Time Thu Jan 1 00:24:41 1970
```

```
Used(k) 148444
```

```
Maximum memory users for this period
```

Process Name	Holding
--------------	---------

tcpip.elf	270028
-----------	--------

cli-memory	44088
------------	-------

rg_syslogd	36640
------------	-------

```
Ruijie(config)#memory history clear half
```

```
2 out of 5 records in the history table to be cleared...
```

```
Clear done !
```

-

-

-

-

5.10 reload

reload [**at** { *hour* [*:minute* [*:second*]] } [*h*

-

5.11 show calendar

show calendar

-	-

1

-

1

```
Ruijie# show calendar
21:57:48 GMT Sun, Feb 28, 2012
```

-

-

5.12 show clock

show clock

-	-

1

-

1

```
Ruijie# show clock
18:22:20 UTC Tue, Dec 11, 2012
```

2

```
Ruijie# show clock
03:07:49 TSZ Wed, Feb 29, 2012
```

-

-

5.13 show memory

show memory [**sorted total** | **history** | **low-watermark** | *process-id* | *process-name*]

sorted total	
history	
low-watermark	
<i>process-id</i>	<i>process-id</i>
<i>process-name</i>	<i>process-name</i>

15

show memory history

10

memory history clear

1

```
Ruijie# show memory sorted
System Memory: 508324K total, 481560K used, 26764K free, 348200K available, 50.5% used rate
Swap:          128000K total, 128000K free
Used detail:   149112K active, 247776K inactive, 30460K mapped, 50460K slab, 3752K others
```

PID	Text(K)	Rss(K)	Data(K)	Stack(K)	Total(K)	Process
807	1568	4584	264728	84	270028	tcpip.elf
854	40	1436	246076	84	248840	cli-filesystem
1237	52	1492	123260	84	126036	cli-memory
803	56	1104	74064	84	76920	ping.elf
727	84	1276	33812	84	36640	rg_syslogd
733	84	796	33536	84	36364	rg_syslogd

```

776      224      1416      16896          84      19800          lsmdemo
858      40       1324      16844          84      19612          rg-tty-admin
769      40       3600      11052          84      13812          skbdemo
--More--

```

total	
used	
free	
available	
used rate	
Swap	
Active	
inactive	
mapped	
slab	Slab
others	Used active inactive mapped slab

PID	
Text	
Rss	
Data	
Stack	
Total	
Process	

-

-

5.14 show memory vsd

show memory vsd *vsd_id*

<i>vsd_id</i>	vsd	show	vsd
	vsd	vsd id	[0 16]

15

```

1340    1084    4700    1024    84      10928    ldp.elf
1339    288     17684   556     84      21472    msf.elf
1338    208     3604    42712   84      47708    rg-syslogd
--More--

```

-

-

5.15 show pci-bus

PCI

show pci-bus

-	-

1

-

1 PCI

Ruijie# show pci-bus

NO:0

Vendor ID : 0x1131

Device ID : 0x1561

Domain:bus:dev.func : 0000:00:05.0

Status / Command : 0x2100000

Class / Revision : 0xc031030

Latency : 0x0

first 64 bytes of configuration address space:

00: 31 11 61 15 00 00 10 02 30 10 03 0c 20 00 80 00

10: 00 00 00 f0 00 00 00 00 00 00 00 00 00 00 00 00

20: 00 00 00 00 00 00 00 00 00 00 00 00 31 11 61 15

30: 00 00 00 00 dc 00 00 00 00 00 00 00 29 01 01 2a

NO:1

Vendor ID : 0x1131

```

Device ID          : 0x1562
Domain:bus:dev.func : 0000:00:05.1
Status / Command   : 0x2100156
Class / Revision    : 0xc032030
Latency             : 0x30
First 64 bytes of configuration address space:
00: 31 11 62 15 56 01 10 02 30 20 03 0c 20 30 80 00
10: 00 10 00 f0 00 00 00 00 00 00 00 00 00 00 00 00
20: 00 00 00 00 00 00 00 00 00 00 00 00 00 31 11 62 15
30: 00 00 00 00 dc 00 00 00 00 00 00 00 00 29 01 02 10

```

-

-

5.16 show processes cpu

```
show processes cpu [ history [ table ] ] [ [ 5sec | 1min | 5min | 15min ] [ nonzero ] ]
```

5sec 1min 5min 15min	5	1	5	15	CPU
nonzero	CPU				
history	60 60 72				
	cpu				

Tasks Statistics: 375 total, 10 running, 365 sleeping, 0 stopped, 0 zombie

Pid	Vsd	S	PRI	P	5Sec	1Min	5Min	15Min	Process
1	0	S	20	0	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	init
2	0	S	20	1	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	kthreadd
3	0	S	-100	0	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	migration/0
4	0	S	20	0	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	ksoftirqd/0
5	0	S	-100	1	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	migration/1

--More-- ID 15 CPU 0

Ruijie# show processes cpu nonzero

System Uptime	
CPU Utilization	5 1 5 CPU
Virtual CPU usage	5 1 5 CPU
Tasks Statistics	
set system cpu	watermark

running	
sleeping	
stopped	

3 ID 15 CPU .

Ruijie #show processes cpu nonzero

4 5 CPU 1sec CPU

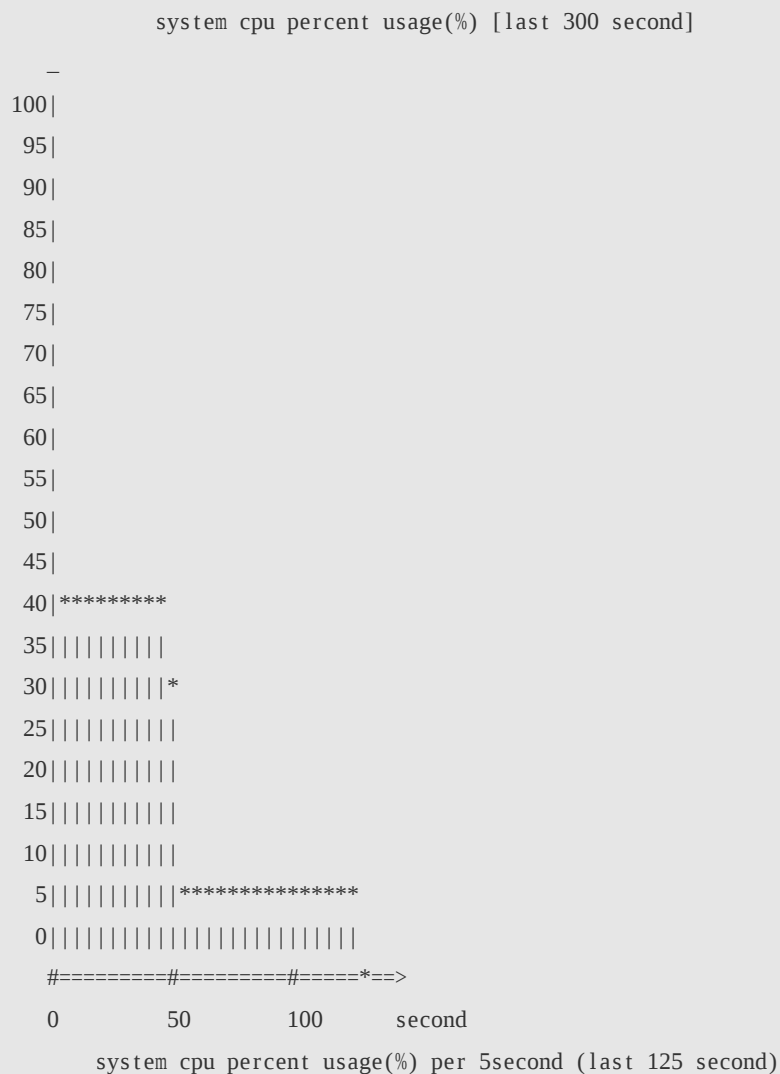
Ruijie #show processes cpu 5sec nonzero

```

5
      cpu      60      60      72
      300      cpu      5      5%
„ * †      cpu      0      5      cpu
%
      60      cpu      %      1
      72      cpu      %      1

```

Ruijie#show processes cpu history



```

-----
                                system cpu percent usage(%) [last 60 minute]

-
100|
 95|
 90|
 85|
 80|
 75|
 70|
 65|
 60|
 55|
 50|
 45|
 40|
 35|
 30|*
 25||
 20||
 15||
 10||
  5||*
  0|||
    #==*==>
    0    minute
                                system cpu percent usage(%) per 1minute (last 2 minute)
-----

```

```

6                                cpu 0                                60    60    72
                                300                                cpu                                5    cpu
%                                5
                                60    cpu                                %                                1
                                72    cpu                                %                                1

```

```
Ruijie #show processes cpu history table
```

```

                                system cpu percent usage(%) [last 300 second]
#-----#
|          | 1| 2| 3| 4| 5| 6| 7| 8| 9| 10|

```

```
#-----#
#-----#
|      0|   2.0|   2.4|   2.3|   2.3|   2.8|   3.0|   2.7|   3.2|   2.6|   2.4|
#-----#
|      1|   2.7|   2.5|   2.7|   2.2|   2.4|   2.6|   2.2|   2.7|   2.3|   2.5|
#-----#
|      2|   2.9|   2.0|   2.4|   2.5|   2.7|   2.4|   2.4|   2.6|   2.6|   2.5|
#-----#
|      3|   2.7|   2.8|   2.8|   3.2|   2.5|   3.2|   3.1|   4.0|   2.7|   2.7|
#-----#
|      4|   4.0|   2.3|   2.1|   2.2|   2.7|   2.4|   2.5|   2.6|   2.4|   2.6|
#-----#
|      5|   2.4|   3.2|   2.5|   2.3|   2.3|   3.6|   2.8|   2.5|   2.2|   2.4|
#-----#

      system cpu percent usage(%) [last 60 minute]
#-----#
|      |   1|   2|   3|   4|   5|   6|   7|   8|   9|  10|
#-----#
#-----#
|      0|   2.6|   2.5|   3.0|   2.4|   2.6|
#-----#
```

```
7
CPU      5      cpu      5      CPU      TOP5      CPU
      cpu high-watermark set
```

```

1970-01-07 01:51:31      system(10.8%)  ssa_process(9.1%)  ssd_process(0.6%)  rg-sysmon(0.3%)
ssc_process(0.3%)  ham(0.3%)
1970-01-07 01:56:45      system(10.9%)  ssa_process(9.1%)  ssd_process(0.6%)  ham(0.3%)
ssc_process(0.3%)  rg-sysmon(0.3%)
1970-01-07 02:01:58      system(11.0%)  ssa_process(9.1%)  ssd_process(0.7%)  rg-sysmon(0.4%)
ssc_process(0.3%)  ham(0.3%)
1970-01-07 02:07:11      system(11.0%)  ssa_process(9.1%)  ssd_process(0.7%)  rg-sysmon(0.4%)
ham(0.3%)  ssc_process(0.3%)
1970-01-07 02:12:24      system(11.0%)  ssa_process(9.1%)  ssd_process(0.7%)  rg-sysmon(0.4%)
ssc_process(0.3%)  ham(0.3%)
1970-01-07 02:17:37      system(11.0%)  ssa_process(9.0%)  ssd_process(0.6%)  rg-sysmon(0.4%)
ham(0.3%)  ssc_process(0.3%)

```

-

-

5.17 show processes cpu detailed

show processes cpu detailed { *process-id* | *process-name* }

<i>process-id</i>	ID
<i>process-name</i>	

15

vsd0

vsd

1

```

Ruijie# show processes cpu detailed demo
Process Id      : 1820
Process Name    : demo
Vsdid          : 0
Process Ppid    : 1

State          : R(running)

```

```

On CPU      : 0
Priority     : 20
Age Time    : 24:06.5
Run Time    : 00:01.0
Cpu Usage   :
    Lass 5 sec    0.3% 0.6%
    Lass 1 min    0.3% 0.6%
    Lass 5 min    0.3% 0.6%
    Lass 15 min   0.3% 0.6%
Tty         : ?

```

 Code Usage : 209.6KB.

```

Ruijie# show processes cpu detailed demo
duplicate process, choose one by id not name.
name: demo, id: 1089, state: S(sleeping)
name: demo, id: 1091, state: R(running)
process name: monitor_procs, do NOT exist, or NOT only one.

```

Process Id	ID
Vsddid	vsd
Process Name	
Process Ppid	ID
State	
On CPU	CPU
Priority	
Age Time	
Run Time	
Cpu Usage	51515 CPU cpu demo 0.3% 0.6%
Tty	Tty " † 0 „ ? †
Code Usage	

2 ID

```
Ruijie# show process cpu detailed 1715
```

-

5.18 show usb-bus

USB
show usb-bus

-	-

1

-

1 USB

```
Ruijie# show usb-bus
Device: Linux Foundation 2.0 root hub
Bus 001 Device 001: ID 1d6b:0002
```

-

-

5.19 show version

show version

-	-

1

-

1

```
Ruijie# show version
```

```
System description      : Ruijie Indoor AP320-I (802.11a/n and 802.11b/g/n) By Ruijie Networks
```

```
System start time      : 2012-12-06 00:00:00
```

```
System uptime          : 0:03:20:07
```

```
System hardware version : 1.0.0
```

```
System software version : AP_RGOS11.0(1B1)
```

```
System serial number   : 1234942570018
```

6

bandwidth	
carrier-delay	
clear counter	clear counters
clear interface	clear interface
description	description
duplex	
interface	
interface range	
load-interval	
logging	syslog
media-type	
mtu	mtu
show interfaces	
show interfaces link-state-change statistics	
show interfaces status	
show vlans	VLAN
shutdown	shutdown
speed	speed

6.1 bandwidth

bandwidth *kilobits*

no bandwidth *kilobits*

14

bandwidth

Link

Bandwidth

1 64Kbps

```
Ruijie(config)#interface gigabitEthernet 0/1
```

```
Ruijie(config-if-GigabitEthernet 0/1)# bandwidth 64
```

-

-

-

-

6.2 carrier-delay

carrier-delay {[milliseconds] num | up [milliseconds] num down [milliseconds] num}

no carrier-delay

```
m ])|$%g86pWK#6)7bBGCpqNA0- i
```

DCD

DCD

DCD

1

5

```
Ruijie(config)# interface GigabitEthernet 1/1
```

```
Ruijie(config-if-GigabitEthernet 1/1)# ca/
```

```
1          GigabitEthernet 1/1
Ruijie# clear counters GigabitEthernet 1/1
```

```
-
-
```

6.4 clear interface

clear interface *interface-type interface-number*

[show interfaces](#)

1 GigabitEthernet 1/1

```
Ruijie(config)# interface GigabitEthernet 1/1
```

```
Ruijie(config-if-GigabitEthernet 1/1)# duplex full
```

```
1 show interfaces
```

1. Down Up Down Up syslog

```
*Feb 20 08:26:32: %LINK-3-UPDOWN: Interface GigabitEthernet 0/1, changed state to down.
```

```
*Feb 20 08:26:32: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/1, changed state to down.
```

```
*Feb 20 08:26:25: %LINK-3-UPDOWN: Interface GigabitEthernet 0/1, changed state to up.
```

```
*Feb 20 08:26:25: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/1, changed state to up.
```

```
% AggregatePort 10 has no member port, set duplex failed!
```

6.7 interface

```
interface
```

```
interface interface-type slot-number/interface-number [ sub-interface-number ]
```

<i>interface-type</i>	
<i>interface-number</i>	

14

1 Aggregateport 1

```
Ruijie(config)# interface Aggregateport 1
Ruijie(config-if-Aggregateport 1)#
```

2 GigabitEthernet 1/2

```
Ruijie(config)# interface GigabitEthernet 1/2
Ruijie(config-if-GigabitEthernet 1/2)#
```

3 VLAN 1

```
Ruijie(config)# interface vlan 1
Ruijie(config-if-VLAN 1)#
```

-

-

-

-

6.8 interface range

interface

Interface range { *port-range* | **macro** *macro_name* }

define interface-range

define interface-range *macro_name*

port-range

no load-interval

<i>seconds</i>	5 600

10

14

1

10

GigabitEthernet 0/1

180

show

interface gigabitEthernet 0/1

3 minutes input rate 15 bits/sec, 0 packets/sec

3 minutes output rate 14 bits/sec, 0 packets/sec 3 minutes input rate 15 bits/sec, 0 packets/sec

3 minutes output rate 14 bits/sec, 0 packets/sec

1

GigabitEthernet 0/1

180

Ruijie(config)# interface gigabitEthernet 0/1

Ruijie(config-if-GigabitEthernet 0/1)# load-interval 180

-

-

-

-

6.10 logging

logging [link-updown | error-frame | link-dither]

link-updown	
error-frame	
link-dither	

14

no logging [link-updown | error-frame | link-dither]

1

```
Ruijie(config)# logging link-updown
```

```
Ruijie(config)# logging error-frame
```

```
Ruijie(config)# logging link-dither
```

-

-

%LINK-3-UPDOWN: Interface GigabitEthernet 0/0, changed state to up.

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/0, changed state to up.

%PORT-3-ERR_FRAME: Received error frames on interface GigabitEthernet 0/0. Please check the physical link.

%LINK-4-DITHER: The state of Interface GigabitEthernet 0/1 is astable. Please check the physical link.

%LINK-4-DITHER: The state of interface GigabitEthernet 0/1 is astable and the interface will be shutdown.Please check the physical link

-

-

6.11 media-type

medium-type { auto-select [prefer [fiber | copper]] | fiber | copper }

no media-type

auto-select	
prefer [fiber copper]	
fiber	
copper	

14

medium-type auto-select prefer fiber

1 GigabitEthernet 1/1

```
Ruijie(config)# interface GigabitEthernet 1/1
Ruijie(config-if-GigabitEthernet 1/1)# medium-type copper
```

1 **show interfaces**

1500

14

MTU

MTU

1 GigabitEthernet 1/1 MTU 9000

```
Ruijie(config)# interface GigabitEthernet 1/1
Ruijie(config-if-GigabitEthernet)# mtu 9000
```

1 **show interfaces** MTU

```

GigabitEthernet 0/1 is DOWN , line protocol is DOWN
Hardware is Broadcom 5464 GigabitEthernet, address is 00d0.f865.de9b (bia 00d0.f865.de9b)
Interface address is: no ip address
Interface IPv6 address is:
  No IPv6 address
MTU 1500 bytes, BW 1000000 Kbit
Encapsulation protocol is Ethernet-II, loopback not set
Keepalive interval is 10 sec , set
Carrier delay is 2 sec
Ethernet attributes:
  Last link state change time: 2012-12-22 14:00:48
  Time duration since last link state change: 3 days, 2 hours, 50 minutes, 50 seconds
  Priority is 0
  Medium-type is Copper
  Admin duplex mode is AUTO, oper duplex is Unknown
  Admin speed is AUTO, oper speed is Unknown
  Flow receive control admin status is OFF,flow send control admin status is OFF
  Flow receive control oper status is Unknown,flow send control oper status is Unknown
  Storm Control: Broadcast is OFF, Multicast is OFF, Unicast is OFF
Bridge attributes:
  Port-type: trunk
  Native vlan:1
  Allowed vlan lists:1-4094 //Trunk VLAN
  Active vlan lists:1, 3-4 // vlan VLAN1 3 4
Queueing strategy: FIFO
  Output queue 0/0, 0 drops;
  Input queue 0/75, 0 drops
Rxload is 1/255,Txload is 1/255
5 minutes input rate 0 bits/sec, 0 packets/sec
5 minutes output rate 0 bits/sec, 0 packets/sec
  0 packets input, 0 bytes, 0 no buffer, 0 dropped
  Received 0 broadcasts, 0 runts, 0 giants
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 abort
  0 packets output, 0 bytes, 0 underruns , 0 dropped
  0 output errors, 0 collisions, 0 interface resets

```

4 GigabitEthernet 0/1

```

Ruijie# show interfaces GigabitEthernet 0/1 switchport
Interface          Switchport Mode      Access Native Protected VLAN lists
-----
GigabitEthernet 0/1  enabled  ACCESS  2      1      Disabled ALL

```



show interfaces [*interface-type interface-number*] **status**

<i>interface-type interface-number</i>	
status	

GigabitEthernet 0/0	1000 Mbit	0.002822759%	0.001183280%	0.004462237%
Bandwidth	Link	Average UsageBandwidth Usage		
Output Usage	Input Usage			
-				
-				

6.17 show vlans

```
show vlans
show vlans [ VLANID ]
```

-

-

6.18 shutdown

shutdown

no shutdown

-	-

UP

14

show interfaces
no shutdown

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

```
2          1
Ruijie(config)# interface Aggregateport 1
Ruijie(config-if-Aggregateport 1)# no shutdown
```

1 **show interfaces**

-

-

6.19 speed

speed { 10 | 100 | 1000 | auto }

no speed

10	10M
100	100M
1000	1000M
auto	10M 100M 1000M

14

	speed	duplex	10/100M
duplex	speed		
full	10		10M
Full	100		100M
Half	10		10M
Half	100		100M
Auto	auto		

1 0/0 10/100M

```
Ruijie(config)# interface fastethernet 0/0
```

```
Ruijie(config-if)#speed 100
```

1 **show interfaces**

1.

```
% AggregatePort 10 has no member port, set duplex failed!
```

-

-

6.20 xaui-mode

xaui-mode slot *slot-num*

4

no xaui-mode slot *slot-num*

<i>slot-num</i>	[2,3]

14

1 4

7 HTTP

enable service web-server	HTTP
http check-version	HTTP
http port	HTTP
http secure-port	HTTPS
http update	
http update mode	HTTP
http update server	HTTP
http update set oob	MGMT
ip http port	HTTP
ip http secure-port	HTTPS
show web-server	Web
http update time	HTTP
upgrade web	WEB
upgrade web download	WEB
webmaster level	Web

7.1 enable service web-server

HTTP

enable service web-server [http | https | all]

HTTP

{ no | default } enable service web-server [http | https | all]

http https all	http	HTTP	https	HTTPS	all
	HTTP	HTTPS		HTTP	HTTPS

HTTP

HTTPS

14

HTTP

all
https

HTTP

HTTPS

HTTPS

http

	no enable service web-server	default enable service web-server	HTTP	HTTPS
	no	default	HTTP	HTTPS
1	HTTP	HTTPS		
Ruijie(config)# enable service web-server				
1	show service			
2	show web-server status Web			
1	HTTP	80		
%notice:Failed to open tcp listen, port=[80].				
1	Web			
-				

7.2 http check-version

HTTP
http check-version

-	-
---	---

HTTP

14

```

1      HTTP
Ruijie# http check-version
Business modules need to be updated: character-db, route-db
app name:web
  app-name      version      filename
-----
character-db    2014.02.09.14.02.09  app_sub_1.exe
character-db    2014.02.09.14.02.09  app_file_list.txt
character-db    2014.02.09.14.02.09  app_sub_3.exe

```

character-db	2014.02.09.14.02.09	app_sub_2.exe
route-db	2013.12.01.00	route-choose.db

-

1

%notice: No bussiness modules registration.

2

%notice: Communicate with the server failed.

3

%warning: Out of memory, application memory failure.

4

%notice: The server response message format is wrong.

5

%notice: Suspend, some business modules are upgrading or haven't registered release.

6

%notice: All bussiness modules are the latest versions.

1

DNS

-

7.3 http update

http update { all | string }

all	
<i>string</i>	

-

14

1

route-db url-db

Ruijie# http update route-db

```
Downloading updated files, please wait...
Press Ctrl+C to quit
route-db: download and notify successfully.
```

```
1      http check-version          HTTP
```

```
1
%notice: No bussiness modules registration.
```

```
2
%notice: The bussiness modules haven't registered.
```

```
3
%notice: There are business modules in the upgrading, please wait for a moment.
```

```
4
%notice: Communicate with the server failed.
```

```
5
%warning: Out of memory, application memory failure.
```

```
6
%notice: The server response message format is wrong.
```

```
7      ..
```

14

HTTP
HTTP
no HTTP

1 HTTP
Ruijie(config)# http update mode manual

-
-
-
-

7.5 http update server

HTTP
http update server { host-name | ip-address } [port port-number]

HTTP
no http update server

host-name	
ip-address	
port port-number	1-65535 80

0.0.0.0 80

14

HTTP
HTTP

1

-

-

-

-

7.7 http update time

HTTP

http update time daily *hh:mm*

HTTP

no http update time

<i>hh:mm</i>	24 :

14

HTTP

Web (rgos.ruijie.com.cn)

Web

no

1 HTTP 23:40

Ruijie(config)# http update time daily 23:40

-

-

-

-

7.8 ip http port

HTTP

ip http port *port-number*

no ip http port

<i>port-number</i>	HTTP	80	1025-65535

80

14

HTTP

1 HTTP 8080

Ruijie(config)# ip http port 8080

show web-service

Web

-

-

-

7.9 ip http secure-port

HTTPS

ip http secure-port *port-number*

no ip http secure-port

<i>port-number</i>	HTTPS	4430	1025-65535

4430

14

HTTPS

1 HTTPS 4443

Ruijie(config)# ip http secure-port 4443

show web-service Web

-

-

-

7.10 show web-service

Web

show web-service

-	-

14

Web

1 Web

Ruijie#show web-service

webservice :

http : enable
: port(9999)

https : enable
: port(4430)

http enable(disable)	HTTP
http port	HTTP
https enable(disable)	HTTPS
https port	HTTPS

-

-

7.11 webmaster level

Web

webmaster level *privilege-level* **username** *name* **password** { *password* | [**0** | **7**] *encrypted-password* }

no webmaster level *privilege-level* [**username** *name*]

<i>privilege-level</i>	
<i>name</i>	
<i>password</i>	
0 7	0 7 0
<i>encrypted-password</i>	

hõRPPjÑô ÞÂ à/T.773} el

web

level 1

Web

0

ruijie

admin

Ruijie(config)# webmaster level 0 username ruijie password admin

-

1

admin guest

%notice: Cannot cancel the default user configure!

2

10

%notice: configure webmaster level %d server reached max 10, add failed.

3

32

%notice: Username too long. Please enter less than 32 characters.

-

-

8 LICENSING

license copy	
license grace-period	

```
Ruijie#lic copy-all usb0:rg-license-lics/lics.tar
Success to copy all permanent license.
```

dir	show license all-license
installed license	
	installed license id
	19881021.lic, 19881023.lic id

1
Copy failed, there's no permanent license in the system.

2
Success to copy all permanent license.

3
Copy failed, there's no such service or license installed in the system.

4
Copy failed, the license is temporary.

5
Success to copy license vsd.lic.

1.
2.

-

8.2 license grace-period

license grace-peroid *license days*

no license grace-peroid *filename*

default license grace-period *filename*

<i>filename</i>	
<i>days</i>	

120

4

SNMP TRAP



-

-

1

Success to set alarm starting point of license LIC-VSD.

2

There's no license abc in the system.

-

8.3 license install

license install

flash:

flash

The installed license is approaching deadline, less than 30 days.

```
license uninstall { all | license [ filename ] }
```

all	
<i>license</i>	
<i>filename</i>	



show license all-license	Service name

Service name

```
1 defd
```

```
Uninstall failed: there's no license defd in the system.
```

2 LIC-WLAN-AP-32

LIC-WLAN-AP-32

123.lic

Uninstall failed: there's no license 123.lic of service LIC-WLAN-AP-32 in the system..

3

Uninstall failed: single instance license does not support license based uninstalling.

4. VSD

Uninstall LIC-VSD success.

5 LIC-WLAN-AP-32 AP32_1.lic

Uninstall license AP32_1.lic of service LIC-WLAN-AP-32 success.

1.

2.

3.

-

8.5 license unbind

license unbind *pak*

<i>pak</i>	

-

4



LIC-FCOE00000012268888

3

Update failed: the new installed license is older than the system one

4

```
Ruijie#show license all-license
Searching license in the system...
```

```
1. Service name: LIC-AP-64
```

```
Attribute: Releasable
```

```
[Permanent licenses]      [Licensed serial number]
```

```
19880966.lic              LIC-AP-6400000012264966
```

```
19880988.lic              LIC-AP-6400000012264988
```

```
[Temporary license]      [Licensed serial number]
```

```
19880900.lic              LIC-AP-6400000012264900
```

```
(63 days left)
```

Service name	
Attribute	
Left days	

o¬ U P ' îo-

o¬ u V ^a ċo- -

8.9 show license usage

ò 0 © ĩ ċ ù l Ó ... Ŏ Ñ ož

o¬ @ f ^a ċo-	@ f	T	
	-	-	

o¬ x X % "o- Ŏ Ó % "

o¬ p . ´ ěo- 2

o¬ ... 6 -o- 4 x X ¬ } l Ó

o¬ F å †o- 1 y ò 0 l Ó ' î

-

8.10 show license unbind-code

show license unbind-code

-	-

2

-

-

-

9 PKG_MGMT

patch active	
patch deactivate	
patch delete	
patch running	
show component	
show patch	
show subsys	kernel rootfs kernel rootfs
show upgrade file	
show upgrade history	
upgrade	
upgrade download tftp	
upgrade rollback	

show patch

1

Active the patch package success

2

Patch not installed

3

The patch status is already active or running

4

Cannot find the package's scripts file

-

9.2 patch deactive

patch deactive

show patch

- 1
- clear the patch success
- 2
- Patch not installed
-

9.4 patch running

patch running

-	-

- 2
- 1
- Ruijie#patch running
- *May 21 17:05:41: %7: The patch on the system now is in running status

show patch

- 1
- The patch on the system now is in running status
- 2
- Patch not installed

Size:12877 Install time :Wed Mar 5 14:23:12 2012

Description:this is a system monit package

Required packages: None

Package:bridge

Version:2.0.1.37cd5cda Build time: Wed Dec 7 00:54:56 2011

Size:23245 Install time :Wed Mar 5 14:30:12 2012

Description:this is a bridge package

Required packages: None

Package	
Version	
Build time	
Size	
Install time	
Description	
Required packages	

2

Ruijie# show component bridge

package:bridge

Version: 2.3.1.1252ea Build time: Wed Dec 7 00:54:56 2011

Size:26945 Install time : Wed Mar 19:23:15 2012

Description:this is a bridge package

Required packages: None

Package files:

/lib64

/lib64/libbridge.so

/sbin

/sbin/bridge

Package file validate: [OK]

Required relationship verify: [OK]

--	--

Package file validate	[OK] [ERR]
Required package	„ [OK] † „ [ERR] †
Package files	

Package :sysmonit

Version:1.0.1.23cd34aa Build time: Wed Dec 7 00:58:56 2011

Size:12877 Install time :Wed Mar 5 14:23:12 2012

Description:this is a system monit package

Required packages: None

Package:bridge

Version:2.0.1.37cd5cda Build time: Wed Dec 7 00:54:56 2011

Size:23245 Install time :Wed Mar 5 14:30:12 2012

Description:this is a bridge package

Required packages: None

-

9.6 show patch

show patch [slot { num | M1 | M2 | all }] [patch_name]

<i>patch_name</i>	

2

1

```
Ruijie# show patch
patch package patch_install installed in the system, version:pa1
Package : patch_bridge
status  running
Version: pa1      Build time: Mon May 13 09:03:07 2013
      Size: 277    Install time: Tue May 21 03:07:17 2013
      Description: a patch for bridge
      Required packages: None
```

Package	
status	
Version	
Build time	
Size	
Install time	
Description	

2

```
Ruijie# show component bridge
```

The content of the command output is redacted with black bars.

Package file validate	[OK] [ERR]
Package files	

Patch package patch_install installed in the system, version:pa1

Package : patch_bridge

Status running

Version: pa1 Build time: Mon May 13 09:03:07 2013

Size: 277 Install time: Tue May 21 03:07:17 2013

Description: a patch for bridge

Required packages: None

-

9.7 show upgrade file

show upgrade file *url*

<i>url</i>	<i>url</i>

2

1

Ruijie# show upgrade file flash://bridge_eg1000m_2.3.1.1252ea-1.mips.rpm

Name : bridge

Version:1.0.1.23cd34aa

Package type : common component

Support target : eg1000m

Size : 26945

Build time : Wed Dec 7 00:54:56 2013

```

Install date      : (not installed)
Description       : this is a bridge package
Package files :
    Package files:
        /lib64
        /lib64/libbridge.so
        /sbin
        /sbin/bridge

```

Name	
Version	
Package type	
Support target	
Size	
Build time	
Install date	
Description	
Package files	

```

Name : bridge
Version:1.0.1.23cd34aa
Package type      : common component
Support target    : eg1000m
Size              : 26945
Build time        : Wed Dec  7 00:54:56 2013
Install date      : (not installed)
Description       : this is a bridge package
Package files :
    Package files:
        /lib64
        /lib64/libbridge.so
        /sbin
        /sbin/bridge

```

-

9.8 show upgrade history

show upgrade history

2

-

-

```
Ruijie#show upgrade history
Last Upgrade Information:
  Time:      2014-08-31 12:15:03
  Method:    LOCAL
Package Name: N18000_RGOS11.0(1)B1_CM_01200616_install.bin
Package Type: Distribution
```

-

9.9 upgrade

upgrade *url* [**force]**

<i>url</i>	<i>url</i>
force	force

2

copy

1 main

```
Ruijie#upgrade usb0:/eg1000m_main_1.0.0.0f328e91.bin
:*May 20 16:49:57: %7: Upgrade processing is 10%
*May 20 16:49:57: %7: Upgrade processing is 60%
*May 20 16:49:57: %7: Upgrade processing is 90%
*May 20 16:49:57: %7: Upgrade info [OK]
*May 20 16:49:57: %7:     Kernel version[2.6.32.91f9d21->2.6.32.9f8b56f]
*May 20 16:49:57: %7:     Rootfs version[1.0.0.2ad02537->1.0.0.1bcc12e8]
*May 20 16:49:57: %7: Upgrade processing is 100%
*May 20 16:49:57: %7: Restart to take effect !
```

show version detail

show component

show patch

1

Upgrade info [OK]

2

Invalid package file

3

Device don't support

4

The version in device is newer or the same

5

U

No enough space for decompress

6

No enough space,rootfs been destroyed. Please upgrade in uboot

7

Already exist patch, please uninstall before upgrade

8

Patch compatibility err

9

some origin cmpnt has change

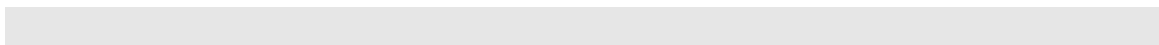
-

9.10 upgrade download tftp

tftp

upgrade download tftp:*lpath* [**force**]

upgrade download oob_tftp:*lpath* [**force**]



9.11 upgrade rollback

upgrade rollback

-	-

2



1

```
Ruijie#upgrade rollback
```

```
05-20 16:49:19:*May 20 16:49:57: %7: kernel rollback version[2.6.32.9f8b56f->2.6.32.91f9d21][OK]
```

```
05-20 16:49:19:*May 20 16:49:57: %7: rootfs rollback version[1.0.0.1bcc12e8->1.0.0.2ad02537][OK]
```

```
05-20 16:49:19:*May 20 16:49:57: %7: Rollback success!
```

```
05-20 16:49:19:*May 20 16:49:57: %7: Restart to take effect !
```

show version detail

1

```
Rollback success!
```

```
Restart to take effect !
```

2

```
Not subsys package last upgrade
```

3

```
Last upgrade err or skip
```

4

```
Monitor file lost
```

-

9.12 clear storage

clear storage [*url*]

<i>url</i>	<i>url</i>

2

```
Ruijie#clear storage
Remove the whole storage directory?[y/n]y
Ruijie#clear storage usb0
Remove the file or directory usb0 from the storage?[y/n]y
Ruijie#
```

url

-

-

-



ASME

ASME

1.

1

access-share-allowed	
access-share-monitor	
auto-update	
http-warning content	HTTP
http-warning enable	HTTP
http-warning interface	HTTP
http-warning title	HTTP
http-warning expires	HTTP
ignore net	IP
master-terminal	
monitor net	
notify-delay	
router-allowed	PC
sensitivity-level	
show access-share monitor statistics	
weight threshold	

1.1 access-share-allowed

access-share-allowed mobile *<mobile-number>*

0

no access-share-allowed mobile

<i>mobile-number</i>	

```
: 1
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# access-share-allowed mobile 1
Ruijie(config-access-share)#
```

-

-

1.2 access-share-monitor

access-share-monitor

14

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)#
```

-

-

1.3 auto-update

auto-update enable

no auto-update enable

14

DNS

ASME

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# auto-update enable
Ruijie(config-access-share)#
```

-

-

1.4 http-warning content

HTTP

http-warning content < http-warning content string >

HTTP

no http-warning content

<i>http-warning content string</i>	HTTP
------------------------------------	------

HTTP

Web

PPPoE

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)#http-warning enable
Ruijie(config-access-share)#
```

-
-

1.6 http-warning interface

HTTP

http-warning interface mgmt

HTTP

no http-warning interface mgmt

HTTP

HTTP

HTTP

HTTP

HTTP

ASME

HTTP

switch

trunk allow VLAN 4~10 native VLAN 4

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# http-warning interface mgmt
Ruijie(config-access-share)#
```

-

-

1.7 http-warning title

HTTP

http-warning title < *http-warning title string* >

HTTP

no http-warning title

<i>http-warning title string</i>	HTTP	31

HTTP

14

HTTP

HTTP

```
:
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# http-w          "          M◀      [      Õ
```

-

-

1.8 http-warning expires

HTTP
http-warning expires <seconds>

HTTP
no http-warning expires

seconds	HTTP

14

	HTTP		HTTP
HTTP		5	10
<i>http-warning expires 30</i>	<i>HTTP</i>	<i>30</i>	<i>30</i>
<i>10</i>	<i>5</i>		

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# http-warning expires 30
Ruijie(config-access-share)#
```

-

-

1.9 ignore net

ignore net <network-address> **mask** <mask>

no ignore net <network-address> **mask** <mask>

<i>network-address</i>	
<i>mask</i>	

no monitor net <network-address> **mask** <mask>

<i>network-address</i>	
<i>mask</i>	

14

32

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)#monitor net 100.1.0.0 mask 255.255.0.0
Ruijie(config-access-share)#
```

```
1:
Ruijie(config-access-share)# monitor net 100.1.0.0 mask 255.255.0.0
Add ipset succeed.
```

```
2:          32
Ruijie(config-access-share)# monitor net 100.1.0.0 mask 255.255.0.0
Add ipset failed for configure exceed.
```

-

1.12 notify-delay

<i>seconds</i>	

30

14

HTTP

PC



PC

PC

```
:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# no router-allowed
Ruijie(config-access-share)#
```

-

-

1.14 sensitivity-level

sensitivity-level { low | normal | high }

no sensitivity-level

nE.244004F0 27D0f()TjET0.7530521[7|0Tj Tf6 295.145/C2_0 1 000BC2_0 1 T

0qVMS% "AWNEKL2OL7%" B16PU2/D

```

:
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)# sensitivity-level low
Ruijie(config-access-share)#

```

```

-
-

```

1.15 show access-share monitor statistics

show access-share monitor statistics

14

ASME

```

Ruijie#show access-share-monitor statistics
Access-share monitor statistics:
  Monitor time: 0:0:0
  Monitor user capacity :
    available 5000
    license   5000(default 5000 and installed 0)
    max       60000
  Online user : 0 (Max 0)

```

```
Ruijie# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# access-share-monitor
Ruijie(config-access-share)#weight threshold 50
Ruijie(config-access-share)#
```

-

-



1.

1

service timestamps

udp-port <i>port</i>	514
-----------------------------	-----

Syslog Server

14

4K Bytes
7

14

show logging

clear logging

FLASH

Syslog Server

8

Emergencies	0	
Alerts	1	
Critical	2	
Errors	3	
Warnings	4	
Notifications	5	
Informational	6	
Debugging	7	

0



1 6 6 10000

Ruijie(config)# logging buffered 10000 6

1 show logging

-

-

-

1.4 logging console

logging console [*level*]

no logging console

<i>level</i>	0 7

7 Debugging)

14

show logging

8

Emergencies	0	
Alerts	1	
Critical	2	
Errors	3	
Warnings	4	
Notifications	5	
Informational	6	
Debugging	7	

1

6

```
Ruijie(config)# logging console informational
```

1 show logging

-

1.5 logging count

logging count

no logging count

-	-

14

no logging count

1

Ruijie(config)# logging count

1 **show logging**

-

-

-

1.6 logging facility

logging facility *facility-type*

(23)

22 (local6)	Local use
23 (local7)	Local use

(local7)23

1 Syslog kernel

Ruijie(config)# logging facility kern

-

-

-

-

1.7 logging file

FLASH USB

logging file { flash:filename | usb0:filename | usb1:filename } [max-file-size] [level]

FLASH

no logging file

flash	FLASH		
usb0	USB0	1	USB
	USB		
usb1	USB1	2	USB
	USB		
filename	txt		
max-file-size	128K	6M bytes	128K
level	FLASH	6	

FLASH

14

FLASH

FLASH

FLASH



logging flash flush

FLASH

1

FLASH

Ruijie(config)# logging flash flush

1

dir

FLASH

-

-

-

1.9 logging flash interval

FLASH

logging flash interval *seconds*

FLASH

no logging flash interval

interval <i>seconds</i>	FLASH	1~51840

FLASH

3600s

1

14

FLASH

no logging

flash interval

FLASH

3600s



FALSH

1 FLASH 5 300s

Ruijie(config)# logging flash interval 300

1 show logging

-

-

-

1.10 logging filter direction

logging filter direction { all | buffer | file | server | terminal }

no logging filter direction { all | buffer | file | server | terminal }

all	Console VTY
buffer	show logging
file	
server	
terminal	VTY Telnet/SSH

all

14

Console VTY

terminal

1.1.1.2

- 1

1.1.1.2 logging filter direction server 1.1.1.2
- 2

1 logging filter rule single-match level 1
- 3

logging filter type contains-only

logging filter direction server

1

terminal console VTY

Ruijie(config)# logging filter direction terminal

-

-

-

-

1.11 logging filter type

logging filter type { contains-only | filter-only }

no logging filter type

contains-only	" †

filter-only20B4C0BB50979602656B060602062062B0B010A8>- Tc 9J0 -1.706.79fly



“ ” “ ”

1 “ †
Ruijie(config)# logging filter type contains-only

-
-
-
-

1.12 logging filter rule

logging filter rule { exact-match module *module-name* mnemonic *mnemonic-name* level *level* |
single-match [level *level* | mnemonic *mnemonic-name* | module *module-name*] }

“ †
no logging filter rule exact-match [module *module-name* mnemonic *mnemonic-name* level *level*]

“ †
no logging filter rule single-match [level *level* | mnemonic *mnemonic-name* | module *module-name*]

exact-match	
single-match	
module <i>module-name</i>	
mnemonic <i>mnemonic-name</i>	
level <i>level</i>	

6. " †

7. " †



1 LOGIN 5 LOGOUT

```
Ruijie(config)# logging filter rule exact-match module LOGIN mnemonic LOGOUT level 5
```

2 SYS

```
Ruijie(config)# logging filter rule single-match module SYS
```

-

-

-

-

1.13 logging life-time

FLASH

logging life-time level *level days*

no logging life-time level *level*

<i>level</i>	
<i>days</i>	

FLASH



FLASH syslog/

1 6 10

```
Ruijie(config)# logging life-time level 6 10
```

—

—

—

—

1.14 logging monitor

VTY Telnet SSH

logging monitor [*level*]

VTY

no logging monitor

VTY

7 Debugging

14

VTY

terminal monitor

VTY

logging monitor

VTY

8

Emergencies	0	
-------------	---	--

Alerts	1	
Critical	2	
Errors	3	
Warnings	4	
Notifications	5	
Informational	6	
Debugging	7	

1 VTY 6

Ruijie(config)# logging monitor informational

-

-

-

-

1.15 logging on

logging on

no logging on

-	-

14

Syslog Server Console VTY FLASH
1 Log

```
1
Ruijie(config)# no logging on
```

```
1      show logging
```

```
-
-
-
```

1.16 logging rate-limit

logging rate-limit { *number* | **all** *number* | **console** { *number* | **all** *number* } } [**except** [*severity*]]

no logging rate-limit

<i>number</i>	1~10000
all	0~7
console	
except	error(3)
<i>severity</i>	error 0~7

```
14
```

```
1      debug      10      warning
Ruijie(config)#logging rate-limit all
```

-

-

1.17 logging server

Syslog Server

logging server [**oob**] *ip-address* [**udp-prot** *port*]

Syslog Server Syslog Server

no logging server [**oob**] *ip-address*

Syslog Server 514

no logging server *ip-address* **udp-prot**

oob		MGMT	
<i>ip-address</i>		IP	
udp-port <i>port</i>		514	

Syslog Server

-

-

1.18 logging source interface

logging source [interface] *interface-type interface-number*

no logging source [interface]



1.19 logging source ip

IP
logging source ip ip-address

IP
no logging source ip

ip-address	IPv4	IPv4

14



1 192.168.1.1 Syslog
Ruijie(config)# logging source ip 192.168.1.1

-

-

-

-

1.20

-	-

14

UP-DOWN

```
Ruijie# configure terminal
Oct  9 23:40:55 %LINK-5-CHANGED: Interface GigabitEthernet 0/1, changed state to down
Oct  9 23:40:55 %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet 0/1, changed state
to DOWN
Ruijie# configure terminal      //
```

1

```
Ruijie(config)#line console 0
Ruijie(config-line)#logging synchronous
```

-

-

-

-

1.21 logging trap

Syslog Server

logging trap [*level*]

Syslog Server

no logging trap

<i>level</i>	

6 Informational

14

logging trap Syslog Server logging Syslog Server
show logging

8

Emergencies	0	
Alerts	1	

-	-

/ Log

14

/ Log Log

Mar 22 14:05:45 %LOGIN-5-LOGIN_SUCCESS: User login from vty0 (192.168.23.68) OK.

1 / Log E ≡ o Ñ E < e

```
Ruijie(config)# service log-format rfc5424
```

```
-  
  
-  
  
-  
  
-
```

1.25 service private-syslog

service private-syslog

no service private-syslog

-	-

14

*timestamp: %facility-severity-mnemonic: description

* : % - - :

```
*May 31 23:25:21: %SYS-5-CONFIG_I: Configured from console by console
```

timestamp facility-severity-mnemonic: description

- - :

```
May 31 23:31:28 SYS-5-CONFIG_I: Configured from console by console
```

„ * †

„ : †

„ % †

```
1
Ruijie(config)# service private-syslog
```

```
1      show logging
```

```
-
```

```
-
```

```
-
```

1.26 service sequence-numbers

service sequence-numbers

no service sequence-numbers

-	-

14

~ → N

` s`b•iN cñ ^ÁÂ đÇ– y ...

1.27 service standard-syslog

RFC3164

service standard-syslog

RFC3164

no service standard-syslog

-	-

14

*timestamp: %facility-severity-mnemonic: description

* : % - - :

*May 31 23:25:21: %SYS-5-CONFIG_I: Configured from console by console

timestamp %facility-severity-mnemonic: description

% - - :

May 31 23:31:28 %SYS-5-CONFIG_I: Configured from console by console

„ * †

„ : †

1

Ruijie(config)# service standard-syslog

1 **show logging**

-

-

-

1.28 service sysname

service sysname

no service sysname

-	-

14

```
1
Mar 22 15:28:02 %SYS-5-CONFIG: Configured from console by console
Ruijie# config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Ruijie(config)# service sysname
Ruijie(config)# end
Mar 22 15:35:57 Ruijie %SYS-5-CONFIG: Configured from console by console
```

1 show logging

-

-

-

1.29 service timestamps

service timestamps [message-type [uptime | datetime [msec | year]]]

no service timestamps [message-type]

default service timestamps [message-type]

<i>message-type</i>	log debug log 0 6 debug 7
uptime	* * * * 07:00:10:41
datetime	Jul 27 16:53:07
msec	: : . Jul 27 16:53:07.299
year	2007 Jul 27 16:53:07

RTC

14

Uptime

Datetime

1 Log Debug Datetime

```
Ruijie(config)# service timestamps debug datetime msec
Ruijie(config)# service timestamps log datetime msec
Ruijie(config)# end
Oct 8 23:04:58.301 %SYS-5-CONFIG_I: Configured from console by console
```

1 **show logging**

-

-

-

1.30 show logging

show logging

-	-

1

-

1

RFC5424

show logging

Syslog logging	enabled, disabled
Console logging	
Monitor logging	VTY
Buffer logging	
Standard format	
Timestamp debug messages	Debug
Timestamp log messages	Log
Sequence-number log messages	
Sysname log messages	
Count log messages	
Trap logging	

```
<134>1 2013-07-24T12:29:33.410123Z ruijie SYS 6 SHELL_LOGIN [USER@4881 name="" type=""  
from="console"] user login success.  
<134>1 2013-07-24T12:29:34.343763Z ruijie SYS 6 SHELL_CMD [USER@4881 name=""][CMD@4881
```

```

Ruijie# show logging config
Syslog logging: enabled
  Console logging: level debugging, 15495 messages logged
  Monitor logging: level debugging, 0 messages logged
  Buffer logging: level debugging, 15496 messages logged
  Standard format: false
  Timestamp debug messages: datetime
  Timestamp log messages: datetime
  Sequence-number log messages: enable
  Sysname log messages: enable
  Count log messages: enable
  Trap logging: level informational, 15242 message lines logged,0 fail
    logging to 202.101.11.22
    logging to 192.168.200.112

```

Syslog logging	enabled, disabled
Console logging	
Monitor logging	VTY
Buffer logging	
Standard format	
Timestamp debug messages	Debug
Timestamp log messages	Log
Sequence-number log messages	
Sysname log messages	
Count log messages	
Trap logging	Syslog Server

2 RFC5424 show logging config

```

Ruijie# show logging
Syslog logging: enabled
  Console logging: level debugging, 4740 messages logged
  Monitor logging: level debugging, 0 messages logged
  Buffer logging: level debugging, 4745 messages logged
  Statistic log messages: disable
  Statistic log messages to terminal: disable
  Delay-send file name:syslog_ftp_server, Current write index:3, Current send index:3, Cycle:10
seconds

```

Count log messages: enable

Trap logging: level informational, 2641 message lines logged,4155 fail

logging to 192.168.23.89

logging to 2000::1

Delay-send logging: 2641 message lines logged

logging to 192.168.23.89 by tftp

Syslog logging	enabled, disabled
Console logging	
Monitor logging	VTY
Buffer logging	
Count log messages	
Statistic log messages	
Statistic log messages to terminal	
Delay-send file name	
Trap logging	Syslog Server
Delay-send logging	

-

-

1.32 show logging count

show logging count

-	-

1

logging count

show logging count

1 **show logging count**

Ruijie# show logging count

Module Name	Message Name	Sev	Occur	Last Time
=====				SYS
	CONFIG_I		5	1
Jul 6 10:29:57				
-----				SYS
	TOTAL		1	

Module Name	
Message Name	
Sev	
Occur	logging count
Last Time	

