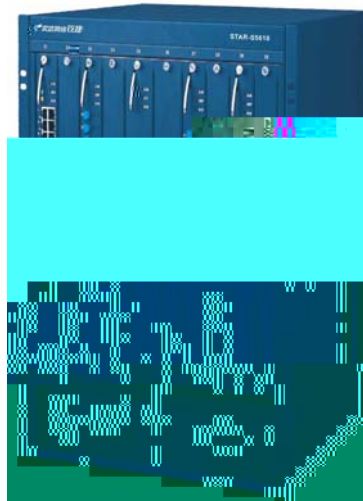


GH5F! G) \*%\$

J&" \$





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# 1

## 1.1

### 1.1.1

### 1.1.2 Telnet

### 1.1.3

,

,

### 1.1.4

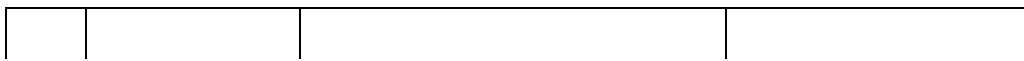
## 1.2

### 1.2.1 EXEC User EXEC Mode

1.2.2 EXEC Privileged EXEC Mode

1.2.3 Global Configuration Mode

1.2.4 (Subconfiguration Modes)



		fci hY! aUdI	
		i hY! aUd	hUf [YhfM&bZ] [! cgdZk#

---

VLAN

u

---

1.3



1.4

			\$! 6(	
			\cghbUaY KCF80%-% 2	
			YbUV Y dUggkcfX @-B9\$	
			] bhYf ZUW @-B9%	



## 2

### 2.1

#### 2.1.1 user add

**user add** *username password level*

<i>username</i>			
<i>password</i>			
<i>level</i>			

**user delete**

%\$

**user delete**

**user add**

## 2.1.2 user delete

**user delete** *username*

<i>username</i>			

**user add**

**user add**

**user delete**

## 2.1.3 user password

**user password**



u

## 2.1.5 configure

**configure**

**configure**

## 2.1.6 enable

**enable** *level*

**no enable**

·y r			

level password no enable

\$

user privilege

igYf UXX

level password

u

## 2.1.7 exectime-out

**exectime-out** *time*

**no exectime-out**

<i>time</i>			

**no**

**exec-timeout**

**show exec-timeout 10**

## 2.1.8 level password

`level password level password`

<code>level</code>			
<code>password</code>			

u

## 2.1.10 show exec-timeout

```
show exec~timeout
```

```
exectime-out
```

u

### 2.1.11 show manager

```
show manager
```

```
user add
```

```
user delete
```

u

## 2.2

### 2.2.1 clock set

**clock set** *hour:minute:second year-month-day*

<i>hour</i>			
<i>minut</i>			
<i>second</i>			
<i>year</i>			
<i>month</i>			
<i>day</i>			

9.97

**show clock**



u

## 2.2.4 show version

```
show version
```

u

## 2.2.5 show system uptime

dd hh mm ss

```
show system uptime
```

u

## 2.3

### 2.3.1 erase startup-config

```
erase startup-config
```

```
write running-config
```

### 2.3.2 write running-config

```
write running-config
```

```
show running-config
```

```
erase startup-config
```

u

### 2.3.3 show startup-config

```
show
```

```
write running-config
```

```
u
```

## 2.4

### 2.4.1 ping address

```
ping address number size bytes timeout seconds
```

<i>address</i>			
<i>number</i>			
<b>size</b>			
<i>bytes</i>			
<b>timeout</b>			

--	--	--	--

## 2.5 SNMP

### 2.5.1 snmp-server community

```
snmp-server community string view view-name ro | rw
```

```
no snmp-server community string
```

<i>string</i>			
<b>view</b>		<b>view</b>	
<b>ro</b>		<b>ro</b>	
<b>rw</b>		<b>rw</b>	

```
show snmp-server community
```

`snmp-server access-list`

`snmp-server view`

u

u

## 2.5.2 snmp-server access-list

`snmp-server access-list` *number* *manager-address*

`no snmp-server access-list` *number* *manager-address*

<i>number</i>			
<i>Manager</i> <i>-address</i>			

`no`



```
show snmp-server view
```

u

u

u

#### 2.5.4 [no]snmp-server enable traps

```
[no] snmp-server enable traps [snmp|entity|stp|radius]
```

snmp			
entity			
stp			
radius			



<i>host-address</i>			
<b>snmpv1   snmpv2</b>			
<i>community-string</i>			
<i>udp-port</i>			
<b>snmp</b>			
<b>entity</b>			
<b>stp</b>			
<b>radius</b>			

<i>String1</i>			
<i>String2</i>			
<i>...</i>			
<i>String15</i>			

## 2.5.7 snmp-server location

```
snmp-server location str1 [str2][str3][str4][str5]...[str15]
```

```
no snmp-server location
```

<i>str1</i>			
<i>str2</i>			
...			
<i>str15</i>			

u

## 2.5.8 show snmp-server statistics

```
show snmp-server statistics
```

u

## 2.5.9 show snmp-server system

```
show snmp-server system
```

u

## 2.5.10 show snmp-server community

`show snmp-server community string`

<i>string</i>			

u

### 2.5.11 show snmp-server view

`show snmp-server view view-name`



<i>host-address</i>			

**snmp-server**

u

### 2.5.13 show snmp-server access-list

**show snmp-server access-list** [*number*]

<i>number</i>			

u

2.5.14 [no]debug snmp-server packet

```
[no]debug snmp-server packet
```

u

## 2.6

### 2.6.1 show memory

```
show memory free
```

free			

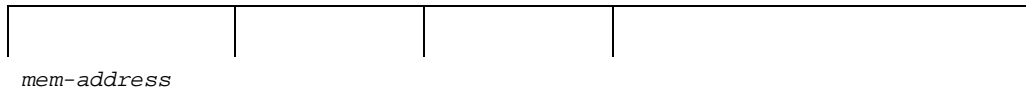
,

,

```
show process memory
```

## 2.6.2 memory edit

`memory edit`



### 2.6.3 show processes

```
show processes slot-number process-name detailed cpu 5  
| 60 | 300
```

<i>slot-number</i>			
<i>process-name</i>			
<b>Detailed</b>			
<b>cpu</b>			

5			
60			
300			

show processes memory

u

u

u



## 2.6.5 trace processes

```
trace processes slot-number cpu frequence
```

<i>slot-number</i>			
<b>cpu</b>			
<i>frequence</i>			

```
show processes
```

u

u

u





## 3

### 3.1

#### 3.1.1 negotiate

```
negotiate {speed / duplex / flowcontrol}
```

```
[no] negotiate {speed / duplex / flowcontrol}
```

E8x Ê P ~ G

```
speed {10 100}  
  
duplex {full half}  
  
[no] flowcontrol
```

u

### 3.1.2 speed

```
speed {10 100}
```

10			
100			

### 3.1.3 duplex



u

### 3.1.6 priority

`priority {priority-value}`

value			

ž

u

### 3.1.7 broadcast suppression

**broadcast suppression** *threshold*

<i>threshold</i>			

[no] broadcast suppression

u

### 3.1.8 no broadcast suppression

no broadcast suppression

broadcast suppression *threshold*

u

### 3.1.9 lock

[no] lock

[no] lock

a

<b>FastEthernet</b>			
<b>GigabitEthernet</b>			
<i>slot</i>			
<i>port</i>			

<b>address</b>			
<i>Mac_addr</i>			
<b>Interface</b>			
<b>FastEthernet GigabitEthernet</b>			
<i>Slot</i>			
<i>Port</i>			
<b>Vlan</b>			
<i>vlan_id</i>			

**mac-address-table**

u

### 3.2.2 mac-address-table aging-time



**mac-address-table aging-time** *seconds*

u

### 3.2.4 mac-address-table static

**mac-address-table static** *mac\_addr* *vlan\_id1* [ - *vlan\_id2* ] *slot/port*  
**tagged / untagged**

<i>mac_addr</i>			
<i>vlan_id1</i>			
<i>vlan_id2</i>			
<i>Slot</i>			
<i>Port</i>			

tagged			
untagged			

aUW UXXfYgg hUW Y  
J@5B

**no mac-address-table static** *mac\_addr vlan\_id*

u

3 4

### 3.2.5 no mac-address-table static

**no mac-address-table static** *mac\_addr vlan\_id*

<i>mac_addr</i>			
<i>vlan_id</i>			

aUWUXXfYgg! hUW Y

A57

**mac-address-table static**

u

### 3.2.6 show mac-address-table aging-time

**show mac-address-table aging-time**

`mac-address-table aging-time`

u

### 3.2.7 show mac-address-table address

`show mac-address-table address mac_addr [detail]`

<i>mac_addr</i>			
Detail			

### 3.2.8 show mac-address-table count

```
show mac-address-table count  vlan  vlan_id      interface
FastEthernet  GigabitEthernet slot
```

vlan  vlan_id			vlan_id
FastEthernet		FastEthernet	
GigabitEthernet		GigabitEthernet	
Slot			
Port			

u

### 3.2.9 show mac-address-table dynamic

```
show mac-address-table dynamic detail
```

Detail			

```
aUW          &          A57
              A57          U[] b[ h] aY          A57
              A57          A57          A57
              A57
A57          A57          A57          XYhU]`
```

```
show mac-address-table count
```

u

### 3.2.10 show mac-address-table static

```
show mac-address-table static detail
```

Detail			

```

A57          A57          A57          XYhUj`
A57

```

```
show mac-address-table dynamic
```

u

### 3.2.11 show mac-address-table interface

```
show mac-address-table interface FastEthernet GigabitEthernet
slot/port detail
```



FastEthernet



<i>mac-group p-address s</i>			

**Detail**

£

&

u

## 3.3 VLAN

### 3.3.1 VLAN

1. IEEE 802.1q VLAN

## 2. VLAN

### 3.3.2 vlan default

```
vlan default vlan-id
```

<i>vlan-id</i>			

*vlan-id*

*vlan-id*

```
no vlan default
```

### 3.3.3 vlan allowed

```
vlan allowed vlan_id1 vlan_id1
```







`vlan allowed vlan-id-range`

u  
100

### 3.3.7 no vlan tagged

`no vlan tagged vlan_id`

<code>vlan_id</code>			

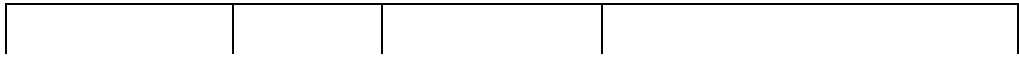
`no vlan tagged`

`vlan_id`

u

### 3.3.8 vlan

```
vlan vlan-id1 - vlan-id2
```



<i>vlan-id1</i>			
<i>vlan-id2</i>			
<b>All</b>			

**vlan**

u

u

### 3.3.10 show

**show** *vlan-id*

<i>vlan-id</i>			

u

## 3.4

### 3.4.1 trap igmp

```
[no] trap igmp slot/port
```

<i>slot</i>			
<i>port</i>			

u

### 3.4.2 trap arp

```
5FD [ ] Vdi
```

```
[no] trap arp
```

u

### 3.4.3 trap bpdu

```
[no] trap bpdu slot/port
```

---



<i>mac_addr</i>			
<i>vlan-id</i>			

## 3.5

### 3.5.1 spanning-tree enable

`[no] spanning-tree enable`

u

u

u

### 3.5.3 spanning-tree cost

4701c5104b8180b7a5213542c65514e3jt 2 1 f1002 0 0 1002 04 745203 m01cf0a5104b437cn0 000j01b

u

### 3.5.4 spanning-tree priority

```
spanning-tree priority bridge_priority
```

```
no spanning-tree priority
```

<i>bridge_prio rity</i>			

u

u

### 3.5.5 spanning-tree hello-time

```
spanning-tree hello-time hello_time
```

no spanning-tree hello-time

<i>hello_time</i>			

u

u

### 3.5.6 spanning-tree forward-time

spanning-tree forward-time *forward\_time*

no spanning-tree forward-time

--	--	--	--

<code>forward_time</code>			
---------------------------	--	--	--

u

u

### 3.5.7 spanning-tree max-age

`spanning-tree max-age max_age`

`no spanning-tree max-age`



u

u

u

### 3.5.9 spanning-tree root

```
spanning-tree root [hello-time seconds] [secondary]
```

```
no spanning-tree root
```

<b>hello-time</b> <i>seconds</i>			
<b>secondary</b>			

u

u

u

### 3.5.10 default spanning-tree

`default spanning-tree`





## 4

### 4.1 IP

#### 4.1.1 ip address

```
ip address ip_address netmask | netmask-length secondary  
no ip address ip_address
```

<i>ip_address</i>			
<i>Netmask:</i>			
<i>netmask-length</i>			
<b>Secondary</b>			

### 4.1.2 hostname

**hostname** *hostname*


**show hostname**

u

### 4.1.3 show hostname

**show hostname**

hostname

## 4.2 ARP

### 4.2.1 ip arp

`ip arp internet-address hardware-address`

`no ip arp internet-address hardware-address`


--	--	--	--

```
show ip arp
```

```
clear arp-cache
```

u

#### 4.2.2 ip arp arpa

```
ip arp arpa
```

u

### 4.2.3 clear arp-cache

```
clear arp-cache host-address
```


```
ip arp
```

```
show ip arp
```

u

### 4.2.4 show ip arp

```
show ip arp address
```


```
ip arp
```

```
clear arp-cache
```

u

## 4.3 ARP

### 4.3.1 ip proxy-arp

```
ip proxy-arp
```

u

## 4.4

### 4.4.1 [ no ] ip localhost

```
[no] ip localhost {hostname ip-address
```

			=D

```
show ip localhosts
```

u

#### 4.4.2 show ip localhosts

```
show ip localhosts hostnam
```

<i>hostname</i>			
<i>ip-address</i>			=D

```
ip localhost
```

u

## 4.5 NAT

### 4.5.1 nat enable

```
[ no ] nat enable
```

u

## 4.6 VLAN

### 4.6.1 Super-vlan

```
[no] super-vlan sup-vid1 [- supvid2]
```

<i>sup-vid1</i>			
!		!	
<i>gi d/ j ] X&amp;</i>			

```
show super-vlan
```

u

#### 4.6.2 allow vlan

```
allow vlan vid1 - vid2
```

```
no allow vlan vid1 - vid2 all
```

--	--	--	--

vid1

```
super-vlan
```

```
allow vlan
```

u

## 4.7 IP

### 4.7.1 [ no ] ip tos-field

```
iptos-field max-reliability max-throughput min-delay min-cost  
normal
```

```
no ip tos-field
```





```
gk] hWxfMtbZ] [t#
```

#### 4.7.2 show ip tos-field

```
show ip tos-field
```

```
[ no ] ip tos-field
```

u t t u

gk] hVXfMtbZ] [L#

### 4.7.3 show ip netbuf-pool

```
show ip netbuf-pool  data_trasfer  sys_structure  mbuf  driver_mblk
```











u

u

#### 4.7.4 show ip statistics

```
show ip statistics ip tcp icmp igmp udp socket route
```

ip			
tcp			H7D
icmp			
igmp			
udp			
socket			
route			

u

u

u

u

u

u

u

# 5

## 5.1

### 5.1.1 [ no ] ip route

```
ip route ip-address mask / mask-length interface-type
interface-number cost value reject blackhole
```

```
no ip route ip-address mask mask-length interface-type
interfacce-number cost value
```

<i>ip-address</i>			
<i>mask</i>			
<i>mask-length</i>			
<i>interface-type</i>			
<i>interface-number</i>			
<b>cost</b>			
<i>value</i>			
<b>Reject</b>			
<b>blackhole</b>			

show ip route

u

]d fci hY %&"%, "%%' & %&"%, "\$")+





### 5.2.2 [ no ] hw route

```

hw route
    dev          srcmac          cmd          mask          static
no hw route dest-ip-address  mask          dev src-dev-num
    
```

<i>Slot</i>			
<i>dest-ip-address</i>			
<i>Dest-mac-address</i>			
<i>vlan-id</i>			
<i>dest-tag</i>			
<b>srcmac</b>			
<i>src-mac-address</i>			
<b>mask</b>			
<i>net-mask</i>			
<b>static</b>			
<b>dev</b>			
<i>src-dev-num</i>			
<b>cmd</b>			

<i>cmd-num</i>			
----------------	--	--	--

show hw route

u

u

20

u

u

u

### 5.2.3 show hw route

```
show hw route  host  dest-ip-address  network  dest-ip-address
                net-mask
```

host			
dest-ip-address			
network			
net-mask			

```
hw route
```

```
u
```

```
u
```

```
u
```

```
u
```



u

u

### 5.3.2 [no] ip nat static

```
[no] ip nat static local-ip global-ip
```

<i>local-ip</i>			
<i>global-ip</i>			

```
show ip nat static
```

u

### 5.3.3 ip nat translation

```
ip nat translation udp-timeout tcp-timeout icmp-timeout seconds
```

<i>seconds</i>			B5H

```
show ip nat statistics
```

u

u

### 5.3.4 [no] original-list

```
original-list orig-list-number permit local-pool
local-pool-name range start-ip end-ip
```

```
no original-list orig-list-number
```

<i>orig-list-number</i>			
<i>local-pool-name</i>			
<i>start-ip</i>			
<i>end-ip</i>			

**show original-list**

### 5.3.5 [no] ip nat original-list

```
[no] ip nat original-list orig-list-number pool name
```

<i>orig-list-number</i>			
<i>name</i>			

**original-list**

**show ip nat pool**

u

### 5.3.6 [no] ip nat free-to

```
ip nat free-to ip-address
```

<i>ip-address</i>			

`show ip nat free-to`

u

### 5.3.7 [no] ip nat bind

`[no] ip nat bind ip-address mac-addr vlan-id`

<i>ip-address</i>			
<i>mac-addr</i>			
<i>vlan-id</i>			



slot			

```
ip nat pool
```

```
u
```

### 5.3.10 show ip nat static

```
show ip nat static
```

```
[no] ip nat static
```

u

### 5.3.11 show ip nat statistics

```
show ip nat statistics
```

```
ip nat translation
```

u

### 5.3.12 show original-list

```
show original-list [orig-list-number
```

--	--	--	--

```
orig-list-numbd84nf2R s4 st-number0013 0original-li5fB431 T2..0650.14[08d96 0f2c5044400d0mi
```

### 5.3.13 show ip nat free-to

```
show ip nat free-to
```

```
[no] ip nat free-to
```

u

## 5.4 OSPF

### 5.4.1 [no] router ospf enable

1.

```
no router ospf enable
```

2.

```
show ip ospf
```

3.

u

#### 5.4.2 [no] network area

1.

```
no network area area-id ip-address wildcard-mask
```

<i>area-id</i>			
<i>ip-address</i>			
<i>wildcard-mask</i>			<i>ip-address</i>

2.

```
show ip ospf interface
```

3.

u

### 5.4.3 router-id

1.

```
router-id ip-address
```

```
no router-id
```

<i>ip-address</i>			

2.

```
show ip ospf
```

3.

u

u

### 5.4.4 area stub

1.

**area stub** *area-id* **no-summary**

**no area stub** *area-id*

<i>area-id</i>			
		<b>no-summary</b>	

2.

3.

u

u

u

## 5.4.5 area virtual-link

1.

```
area virtual-link area-id router-id hello-interval seconds  
retransmit-interval seconds transmit-delay seconds  
dead-interval seconds authentication-key password  
message-digest-key keyid md5 key
```

```
no area virtual-link area-id router-id
```



2.

```
show ip ospf virtual-link
```

3.

u

u

u

u

u

#### 5.4.6 area default-cost

1.

```
area default-cost area-id cost
```

```
no area default-cost area-id
```

<i>area-id</i>			

2.

3.

u

u

### 5.4.7 area range

1.

**area range** *area-id ip-address mask* [**advertise|nonadvertise**]

**no area range** *area-id ip-address mask*

<i>area-id</i>			
<i>ip-address</i>			
<i>mask</i>			
		<b>advertise</b>	
		<b>nonadvertise</b>	

2.

**show ip ospf routing**

3.

```

t           t           t
  u
u
    
```

### 5.4.8 area authentication

1.

```

area authentication area-id message-digest
no area authentication area-id
    
```

<i>area-id</i>			
t		message-digest	

2.

```
show ip ospf
```

3.

```

u
u
u
    
```

### 5.4.9 ip ospf cost

1.

```
ip ospf cost cost
```

```
no ip ospf cost
```

<i>cost</i>			

2.

```
show ip ospf interface
```

3.

u

### 5.4.10 ip ospf hello-interval

1.

```
ip ospf hello-interval seconds
```

```
no ip ospf hello-interval
```

---

<i>seconds</i>			

2.

```
show ip ospf interface
```

3.

u

### 5.4.11 ip ospf dead-interval

1.

```
ip ospf dead-interval seconds
```

```
no ip ospf dead-interval
```

<i>seconds</i>			

2.

```
show ip ospf interface
```

3.

u

#### 5.4.12 ip ospf priority

1.

```
ip ospf priority number
```

```
no ip ospf priority
```









2.

3.

u

u

#### 5.4.18 show ip ospf

1.

```
show ip ospf
```

2.

3.

u

#### 5.4.19 show ip ospf cumulative

1.

```
show ip ospf cumulative
```

2.

3.

u

#### 5.4.20 show ip ospf database

1.

```
show ip ospf database [ [ [ external | network | router | summary |  
asbr-summary ] [link-state-id] ] ] [database-summary]
```

		external	
		network	
		router	
		summary	
		asbr-summary	
<i>link-state-id</i>			
		database -summary	

2.

3.

u

u

u

#### 5.4.21 show ip ospf error

1.

```
show ip ospf error
```



2.

3.

u

u

### 5.4.23 show ip ospf neighbor

1.

```
show ip ospf neighbor vlan|super-vlan number neighbor-id  
detail
```

<i>ospf</i> <i>number</i>			

3.

u

u

#### 5.4.24 show ip ospf border-routers

1.

```
show ip ospf border-routers
```

2.

3.

u

--	--	--	--

<i>number</i>			
<i>number</i>			
<i>nbr-id</i>			

2.

3.

u

u

#### 5.4.27 show ip ospf virtual-link

1.

```
show ip ospf virtual-link
```

2.

3.

u

#### 5.4.28 show ip ospf routing

1.

```
show ip ospf routing
```

2.

3.

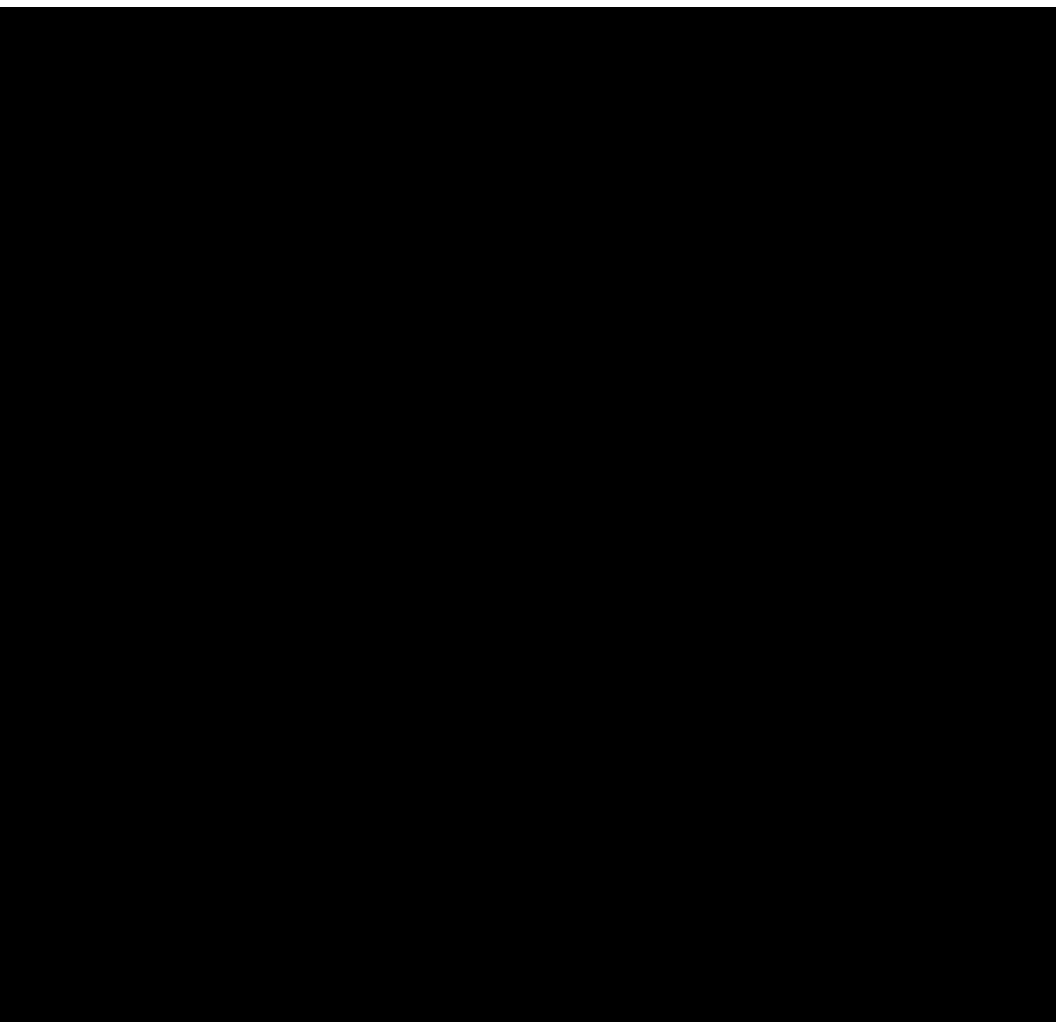
u

## 5.5 ACL

### 5.5.1 access-list

ž

```
access-list listnumber permit|deny external source-address  
wildcard-mask host source-address any log time-range  
time-range-name
```






	=BH9, 9F		
permit	?9N\KCF8		
deny	?9N\KCF8		
	=BH9, 9F		
	?9N\KCF8		?9N\KCF8
	5" 6" 7" 8		
	5" 6" 7" 8		
host	?9N\KCF8		
any	?9N\KCF8		
port	?9N\KCF8		
	KCF8		
	=BH9, 9F		

	KCF8		
	=BH9, 9F		
log	?9MKCF8		
time-range	?9MKCF8		
	KCF8		


WORD


show access-list

```

          u
        u
    u
    
```

### 5.5.3 access-list

**access-list** *listnumber* **remark** *remark\_string*

	=BH9, 9F		
	?9MKCF8	remark	
	KCF8		

```

remark
remark          permit  deny
    remark
    
```

```
show access-list
```

u

#### 5.5.4 show access-list

```
show access-list listnumber
```

u

u

### 5.5.5 access-list default

```
access-list default permit deny
```

```
show access-list default
```

```
u
```

### 5.5.6 show access-list default

```
show access-list default
```

```
access-list default
```

```
u
```

## 5.5.7 no access-list

```
no access-list listnumber
```



no access-list insert

```
% dYfa]h \cgh %, "+, " (*" &$  
& dYfa]h \cgh %, "+, " (*" &%
```

```
% dYfa]h \cgh %, "+, " (*" &$  
& dYfa]h  
' dYfa]h \cgh %, "+, " (*" &%
```

	KCF8		
	=BH9, 9F		
<b>external</b>	?9MKCF8		?9MKCF8
	5" 6" 7" 8		
	5" 6" 7" 8		\$ %
<b>host</b>	?9MKCF8		\cgh \$" \$" \$" \$
<b>any</b>	?9MKCF8		?9MKCF8ubm =D \$" \$" \$" \$ &)" &)" &)" &)"
<b>port</b>	?9MKCF8		?9MKCF8dcfh
	KCF8		
	=BH9, 9F		
	5" 6" 7" 8		

5" 6" 7" 8

**no access-list insert**

```
% dYfa]h hVØ UØm \cgh %, "+, " (*" &$ dcfh gahd  
& dYfa]h hVØ UØm \cgh %, "+, " (*" &$ dcfh kkk
```

\cgh

```
% dYfa]h hVØ UØm \cgh %, "+, " (*" &$ dcfh gahd  
& dYfa]h hVØ UØm \cgh %, "+, " (*" &$ dcfh kkk  
'  
 \cgh
```

### 5.5.10 no access-list insert

**no access-list**

	=B19, 9F		

**access-list insert**

```
% dYfa]h hVl Ubm\cgh %, "+, "(" &$ dcfh gahd  
& dYfa]h hVl Ubm\cgh %, "+, "(" &$ dcfh kkk
```

\cgh

dcfh

### 5.5.11 access-group

`access-group acl-id`

<i>acl-id</i>	-B19, 9F		

`no access-group`

U

### 5.5.12 no access-group



`access-group`

#### 5.5.14 access-list enable

`access-list enable`

57@

57@

`no access-list enable`

u

### 5.5.15 no access-list enable

```
no access-list enable
```

```
57@
```

```
57@
```

```
access-list enable
```

```
u
```

# 6

## 6.1

### 6.1.1 flow aging-time

flow aging-time *time*

	=B+D, 9F		

### 6.1.2 ip-session-threshold

`ip-session-threshold threshold`

	=B19, 9F		

u

### 6.1.3 monitor-time

`monitor-time time`

	=B+D, 9F		

u

#### 6.1.4 flow monitor

```
flow monitor ip usernum | vlan vid1 - vid2 bulk-num bulk-num
```

	=BH9, 9F		
	=BH9, 9F		
	=BH9, 9F		
	=BH9, 9F		

EcG

no flow monitor

show monitor-log

u

u

6.1.5 no flow monitor

no Flow monitor

ECG

```
flow monitor
```

```
show monitor-log
```

flow monitor

no flow monitor

u

## 6.2 DHCP

### 6.2.1 debug dhcpr

[no] debug dhcpr

## 6.2.2 dhcp relay enable

```
[no] dhcp relay enable
```

```
trap dhcp
```

### 6.2.3 dhcp relay hops

```
dhcp relay hos  hops  default
```

<i>hops</i>			
<b>Default</b>			

## 6.2.4 dhcp relay size

`dhcp relay size {address address number | default}`

<i>address number</i>			
<b>default</b>			

`dhcp relay enable`

attach dhcp server

### 6.2.5 dhcp server

dhcp server ip address

<i>ip address</i>			
<i>index</i>			
<b>all</b>			

```
dhcp relay enable  
attach dhcp server  
show dhcp server
```

## 6.2.6 attach dhcp server

```
[no] attach dhcp server ip address index
```

<i>ip address</i>			
<i>index</i>			

dhcp server

show dhcp server

[no] dhcp temp server *ip address*

<i>ip address</i>			

**dhcp server**

**show dhcp server**

## 6.2.7 show dhcp server

**show dhcp server** *ip address | index - index*

<i>ip address</i>			
<i>index</i>			

dhcp server

dhcp temp server

attach dhcp server



dhcp relay hops

trap dhcp

## 7 QoS

### 7.1 Cos

#### 7.1.1 queue-alg sp

queue-alg sp

queue-alg wrr

queue-alg hybrid

weight-unit

show queue-alg

u

### 7.1.2 queue-alg wrr

queue-alg wrr weight1 weight2 weight3 weight4

	=BH?, 9F		
	=BH?, 9F		
	=BH?, 9F		
	=BH?, 9F		

queue-alg sp

queue-alg hybrid

weight-unit

show queue-alg

u

u

### 7.1.3 queue-alg hybrid

queue-alg hybrid weight1 weight2 [weight3]


weight1 weight2

% weight1 & weight2

queue-alg sp

queue-alg wrr

weight-unit

show queue-alg

u

t t

u

t

t

u

#### 7.1.4 weight-unit

weight-unit {packet|byte}

packet			
byte			VntrY

```
queue-alg sp
```

```
queue-alg wrr
```

```
queue-alg hybrid
```

```
show queue-alg
```

u

### 7.1.5 show queue-alg

```
show queue-alg
```

queue-alg sp

queue-alg wrr

queue-alg hybrid

weight-unit

u

|

—

## 7.1.6 queue-hol configure

gcZh

\ufX

			( ( %

```
[no] queue-hol enable
```

```
show queue-hol
```

u

u

### 7.1.7 [no] queue-hol enable

```
[no] queue-hol enable
```

```
queue-hol configure
```

```
show queue-hol
```

u

### 7.1.8 show queue-hol

```
show queue-hol
```

```
queue-hol configure
```

```
[no] queue-hol enable
```

u

### 7.1.9 vpt-to-prio configure

ž

```
          j dh $ % ei Yi Y % j dh & ' ei Yi Y & j dh ( ) ei Yi Y ' j dh  
* + ei Yi Y (
```

```
no vpt-to-prio configure
```

```
show vpt-to-prio
```

```
u
```

```
u
```

#### 7.1.10 no vpt-to-prio configure

```
          j dh $ % ei Yi Y % j dh & ' ei Yi Y & j dh ( ) ei Yi Y ' j dh * + ei Yi Y (
```

```
no vpt-to-prio configure
```

```
vpt-to-prio configure
```

```
show vpt-to-prio
```

u

### 7.1.11 show vpt-to-prio

```
show vpt-to-prio
```

```
vpt-to-prio configure
```

```
no vpt-to-prio configure
```

u

### 7.1.12 prio-to-vpt configure

hU[

ž  
j`Ub

```
show prio-to-vpt
```

```
hU[ $u
```

```
hU[ +u
```

### 7.1.13 no prio-to-vpt configure

```
ei Yi Y % j dh $ž%/ ei Yi Y & j dh &ž' / ei Yi Y & j dh (ž)/  
ei Yi Y ( j dh *ž+
```

```
no prio-to-vpt configure
```

```
prio-to-vpt configure
```

```
show prio-to-vpt
```

## 7.1.14 show prio-to-vpt

```
show prio-to-vpt
```

```
prio-to-vpt configure
```

```
no prio-to-vpt configure
```



no

```
tos-to-cos configure
```

```
show tos-to-cos
```

u

### 7.1.17 show tos-to-cos



YbUV Y Z` ck

u

### 7.2.3 default

**default** *[slot/port]*


ž

G@CH#DCFH

' & u

XYZU`h'#&

### 7.2.4 [no] user

[no] user *igYf*]X

<i>userid</i>			

ž

u  
*igYf* '



mode

ž

acXY

### 7.2.7 service-policy user

```
service-policy user slot/port1 [- port2]
```

--	--	--	--


fl      1ž      fl      1

EcG      ž

`service-policy net`

`show service-policy`

u

## 7.2.8 service-policy net

`service-policy net slot/port1 [- port2]`


fl tž fl t

EcG ž

**service-policy user**

**show service-policy**

u

## 7.2.9 priority

```
priority user userid vlan vlan1 [ - vlan2 interface slot/port
[ - port2 ] protocol protocolname ip-protocol protocolno tcpport
tcpportno udpport udpport low normal middle high
```

interface	?9MKCF8		

7.2.10 no priority

EcG

```
no priority user userid vlan vlan1 [- vlan2 interface slot/port
[ - port2 ] protocol protocolname ip-protocol protocolno tcpport
tcpportno udpport udpport
```

user			
vlan			
interface			

EcG ž

EcG

priority

apply

u

3 high

drop			

ž

apply



u

u

### 7.2.13 Apply

```

apply      vlan      vlan1]      user      [userid]      protocol
[protocolname ] interface [slot/port] ip-protocol [protocolno]
tcpport [tcpport] udpport [udpport ] force
    
```

<b>vlan</b>			
<b>user</b>			
<b>interface</b>			
<i>slot</i>			
<i>port</i>			
<b>force</b>			EcG EcG EcG

EcG ž

police  
priority

u

u

]bhYfZUW

u

]bhYfZUW

### 7.2.14 show qos

EcG

```
show qos user-dhcp [userid] interface [slot/port]| vlan  
[vlanid] protocol
```



ž

police

priority