



CAM & CSP Quick Guide

Document Version: V1.0

Release Time: 2018.07

AC Type: CAM, CSP

ABLOOMY Technologies, Inc.







Terms of Use

Copyright © ABLOOMY Technologies, Inc. 2018. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of ABLOOMY Technologies, Inc.

Trademarks and Permissions

ABLOOMY and other ABLOOMY trademarks are trademarks of ABLOOMY Technologies, Inc. All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between ABLOOMY and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Support

E-mail: abloomy@abloomy.com

Telephone: +001-888-690-7008

Website: www.abloomy.com

Contents

1. READY	3
2. CAM/CSP CONFIGURATION	4
2.1. WEB UI CONFIG	4
2.2. CLI CONFIG	6
2.3. Modify CAM/CSP USERNAME & PASSWORD	8
2.4. Config DNS	9
2.5. CONFIG DHCP SERVER	9
2.5.1 Config subnet IP	9
2.5.2 Config DHCP pool	
2.5.3 Config DHCP lease time	
2.5.4 DHCP pool gateway	
2.5.5 Config DHCP Pool DNS	
2.5.6 DHCP Pool IP range	
2.5.7 Static IP and MAC binding	
2.5.8 Default	
2.6. Assign policy to the port	
2.7. Config NAT	
2.8. Modify CAM/CSP TIME	15
2.9. Save	16
3. CLI COMMAND	17

1. Ready

Name	Num
PC	1
Console cable	1
COM to USB	1
Cable	1
Xshell/	1
SecureCRT	

2. CAM/CSP Configuration

We have two way to config CAM/CSP:

- 1. Web UI
- 2. CLI

2.1. Web UI config

CAM/CSP port 0/1 is WAN default, the rest port is LAN. PC can connect LAN port and get IP address by DHCP. Login in address: <u>https://192.168.186.1/wan</u> Username: admin Password: admin.01 **Note: We suggest Chrome & Firefox web browser.**

← → C ▲ Not secure https://192.168.80.124		☆ :
ABLOOMY		English 🗸
	Platform Login	
• Russia	admin 🧔	• Canada
Europe	8193 8	
	Login	
	ALLA.	

© 2018 Abloomy All Rights Reserved Your browser needs to support receiving Cookie logins

Config WAN port:

WAN port can select three kinds of mode: PPPOE, DHCP and Static.

DHCP (default): When WAN port connect to DHCP network, status information will show the detail.

Note: DNS will be obtained automatically from the network or you can config static DNS by youself.

PPPOE DHCP	Static	
	State	status information
Click Save, the int automatic access	terface configuration will be changed to	Connection TyDHCP
DNS Server:	Optional	Ip Address: 192.168.106.120
Alternative DNS S	Optional	Subnet Mask: 255.255.255.0
		Gateway: 192.168.106.1
Vlan ID _: :	Please Enter	DNS Server: 202.103.24.68 202.103.44.150

PPPOE: Enter username, password and save. Status information will show the detail if connected successfully.

PPPOE DHCP	Static	status information	
Account ? :	Please EnterCarrier's broadband	Connection Ty	
Password :	Please EnterCarrier's broadb 💿	Ip Address: -	
		Subnet Mask : -	
Vlan ID 🕜:	Please Enter	Gateway: -	
		DNS Server: -	

Static: Enter IP, mask, gateway and DNS

Save

60/1 Ports			▼	>
PPPOE DHCP	Static	status information		
Ip Address:	192.168.106.200	Connection Ty <i>Static</i>		
Subnet Mask:	255.255.255.0	Ip Address: 192.168.106.200		
Gateway:	192.168.106.1	Subnet Mask: 255.255.255.0		
DNS Server:	114.114.114.114	Gateway: 192.168.106.1		
Alternative DNS S	8.8.8.8	DNS Server: 114.114.114.114 8.8.8.8		
Vlan ID ₂ :	Please Enter			
ld Interface 🔻				
Save				
AN Configuration	will display "Access to address success"	when WAN connect to the network.		
🤍 🛛 wan c	onfiguration: Access to add	ress success		
-				

Login in WAN IP address: <u>https://192.168.106.200</u> that you set previous.

Enter WiFi module, and we can see CAM/CSP Status is "Running" under AC.

						Welcome,	1331116008	3 BD 🗸 🔤	English 🛛 🗢 Refres	h 🖾 🏦 📴
🕚 Dashboard	AP(22)	AC(11) GRE devic	es(0)						Upgrade Add D	elete 🍸 Search 🗸
📰 Devices	Name	MAC	Public IP	Private IP	Status	AP	Users	Hardware Type	Firmware Version	Connection Tim
Clients	001631f1b	B10 00:16:31:F1:B8:1	58.48.77.55	192.168.106.12 0	Running	-	-	1200064	8.1.0(r18095)	23 Minute 15 Second

2.2. CLI config

Console cable connect to CAM/CSP console port and PC. Open Xshell, click new—connection—Protocol—SERIAL.



Select the right COM port and click ok.

New Session Properties				?	×
Category:					
	Connection	> SERIAL			
Authentication Logon Prompts	General				
Logon Scripts ⊡ SSH	Port:	COM1	~		
Security	Baud Rate:	9600	\sim		
SFTP	Data Bits:	8	\sim		
··· TELNET	Stop Bits:	1	\sim		
SERIAL	Parity:	None	\sim		
Terminal					
Keyboard					
Margins					
Advanced					
Trace					
ZMODEM					
LINGELI					
			OK	Cano	el

Enter CAM/CSP username and password to login.

Username: admin

Password: admin.01

Config WAN port:

1. WAN get IP by DHCP

set wan 0/1 dhcp weight 1

Abloomy@[192.168.106.158]: set wan 0/1 dhcp weight 1

2. WAN get IP by PPPOE

set wan 0/1 pppoe abloomy 123456 weight 1

Note: abloomy 123456 is the username password for pppoe.

Abloomy@[192.168.106.158]: set wan 0/1 pppoe abloomy 123456 weight 1



set wan 0/1 192.168.106.200/24 gateway 192.168.106.1 weight 1 114.114.114.114 8.8.8.8

Abloomy@[192.168.106.158]: set wan 0/1 192.168.106.200/24 gateway 192.168.106.1 weight 1 114.114.114.114 8.8.8.8

Login in WAN IP address: <u>https://192.168.106.200</u> that you set previous.

Enter WiFi module, and we can see CAM/CSP Status is "Running" under AC.

						Welcome,	13311160083	BD ∨ .	English 🛛 🗢 Refres	h 💴 🏫 📴
🚯 Dashboard	AP(22) AC(11) GRE device	es(0)					l	Upgrade Add D	elete 🛛 🏹 Search 🗸
📰 Devices	Name	MAC	Public IP	Private IP	Status	AP	Users	Hardware Type	Firmware Version	Connection Tim 📀
Clients	001631f1b810	00:16:31:F1:B8:1 0	58.48.77.55	192.168.106.12 0	Running] -	-	1200064	8.1.0(r18095)	23 Minute 15 Second

2.3. Modify CAM/CSP username & password

> Enter WiFi Module, Click Devices—AC, select your CAM/CSP.

				Welcome, 13311160	083 BD 🗸 🔤	English 🛛 🗢 Refres	h 💴 🏦 📴
🐞 Dashboard	AP(22) AC(11) GRE devices(0)				Upgrade Add D	elete 🛛 🍸 Search 🗸
	Name	MAC Public IP	Private IP Status	AP Users	Hardware Type	Firmware Version	Connection Tim
Clients	001631f1b810	00:16:31:F1:B8:1 0 58.48.77.55	192.168.106.12 0	g	1200064	8.1.0(r18095)	23 Minute 15 Second

Click Modify—Admin to modify CAM/CSP username & password

AP(22) AC(11) GRE device	tes
Summary Modify	Back
 Summary 	
Name 🧐	001631f1b810
мас	00:16:31:F1:B8:10
System ID	00:16:31:F1:B8:10

	Enable Technical Support	
nin		
Name	EnterName	
Password	*****	
Confirm Password	*****	

2.4. Config DNS

Click Modify—DNS Server, set DNS Address manually.

		Welcome, 13311160083 BD 🗸	🔤 English 🛛 😂 Refresh	🔤 🏦	₽
🕦 Dashboard	AP(22) AC(11) GRE devices				
📰 Devices	Summary Modify				Back
Clients	Summary				
Settings ×	Ports				
🏶 System 🗸 🗸	► VPN				
Alerts	Subnet				
	Route				
🙎 Map topology 🛛 👻	DNS Server				
					_
	Enable				
	DNS Address O Auto Manual				
	Customized domain name: Please Select				

2.5. Config DHCP server

2.5.1 Config subnet IP

Click Network—Subnets—Add.

				Welcome, howard.he SuperAdmin 🗸	💌 English	🗢 Refresh	⊠ त	Þ
🚯 Dashboard	Network NAT	Route Subnets	Domain					
😑 Devices	Subnet Network grou	þ						Add
Clients	Name	IP Version	IP	IP/DHCP Mask	DHCP	Default	Operation	1
	VPN-Server-01	IPv4	192.168.199.1	255.255.255.0 (/24)	×	×		
 Settings 	VPN-Server-02-Office	IPv4	192.168.181.1	255.255.255.0 (/24)	×	×	2	
Network								

Network NAT Route	e Subnets Domain
Subnet Network group	Back
Name 🥝	Please enter name
IP Protocol Version	● IPv4
IP allocation mode	None Static
DHCP	
DHCP Server	
DHCP Relay	
Default 🥝	
description	Please enter the description
Advanced	
	Save Cancel

2.5.2 Config DHCP pool

Click IP Mode to Static and you can set DHCP pool

Network NAT Route	Subnets Domain
Subnet Network group	
Name 😑	Enter name
IP Version	● IPv4 ○ IPv6
IP Mode	None Static
IP Address/Subnet Mask	0.0.0.0 - 0.0.0.0 (/0)
DHCP	
DHCP Server	

DHCP

DHCP Server									
Default Lease Time	0	days	1	hours	0	minutes			
Max Lease Time	1	days	0	hours	0	minutes			
Gateway	0.0.0.0								
DNS Mode	• WAN	Manual							
IP Range	0.0.0.0		-	0.0.0.0		Add			
	Start IP		End I	Р	Action				
	No data								
Static IP	Host name	0.0.0.0	0 00:00:00:00:00:			Add			
	Host name		IP	MAC	Operation				
	No data								
	Advanced								
DHCP Relay									
Default 🤗									

2.5.3 Config DHCP lease time

Default lease time is 1 hours and max lease time is 1 day. You can modify by yourself.

DHCP

DHCP Server	✓								
Default Lease Time	0	days	1	hours	0	minutes			
Max Lease Time	1	days	0	hours	0	minutes			
Gateway	0.0.0.0								
DNS Mode	DNS Mode WAN Manual								

2.5.4 DHCP pool gateway

Network NAT Route Subnets Domain Back Subnet Network group VPN-Server-02-Office Name 🥝 IPv4 IPv6 IP Version 🔵 None (Static IP Mode 192.168.181.1 255.255.255.0 (/24) IP Address/Subnet Mask •

Set subnet IP address/mask as a DHCP pool gateway address

2.5.5 Config DHCP Pool DNS

You can get DHCP pool DNS IP by WAN or Manual.

DNS Mode	🔾 WAN 💿 Manual
Primary DNS	0.0.0.0
Secondary DNS	0.0.0.0

2.5.6 DHCP Pool IP range

Set IP Range and click Add. For example: 192.168.1.1~192.168.1.200.

IP Range	0.0.0.0	- 0.0.0.0	Add
	Start IP	End IP	Action
		No data	

2.5.7 Static IP and MAC binding

Set static IP and mac to binding

Static IP	Host name 0.0.0	0	00:0	00:00:00:00:00	Ad
	Host name	IP	MAC	Operation	
			No data		
te: this is ontional					

Advanced



Set Domain name and DHCP Option 43 if you need.

Advanced

2.5.8 Default



Except of CAM/CSP WAN port (0/1), the rest ports will follow the subnet DHCP default policy.

2.6. Assign policy to the port

- Click Devices—AC, select your CAM/CSP
- Click Modify—IP/DHCP—Add
- Choose subnet policy under Port.

-			AP(17)	AC(8) GRE devices					
			Summary	AddSubnet			×		Back
B	Clients	•	Summary	10/5	VDN Crown Of	_			
•		^	Ports	IP/Group	VPN-Server-01	•			
1		ŀ			Name: VPN-Server-01 IP/Mask: 192.168.199.1/2	55.255.255.0 (/24)			
		Ì	IF/DITCF		DHCP Server: OFF				
Ň			IP/Group		DHCP Relay: OFF				Operation
			VPN-Server-0	Central Forwarding				(VPN-Server-01)	
			VPN-Server-02	Port	0/1(wan)			2 (VPN-Server-02-Office)	
	Policy		集中转发		VPN 1 (VPN-Server-01)		Cancel		ΔΘ
			集中转发-WSP	_	VPN 2 (VPN-Server-02-Office)				
***		ř.			VPN 3 (VPN-Server-BJ308)	×	VPN 3	3 (VPN-Server-BJ308)	
			VPN-Server-Wu		VPN 4 (VPN-Server-WuHan)	\times	VPN 4	4 (VPN-Server-WuHan)	ΔΘ
8	Overview	~	VPN-Server-BJ3		VPN 5 (VPN-Server-BJ308-GW) (255.255.255.252 (/30)	×	VPN 5	5 (VPN-Server-BJ308-GW)	

2.7. Config NAT

Config SNAT:

Click Network—NAT, Create a new Group

ABLOOMY					Welcom	ne, howard.he Su	perAdmin 🚿	Erg	English	SRefresh		ń	₽
🗈 Dashboard	Network	NAT Ro	ute Subnet	s Doi	main								
Devices	SNAT	DNAT							Group:	VPN 🔻	2		+
Clients	Name	Source IP	Destination IP	Protocol	Source Port	Destination Port	Translat ed	Enab le	Descripti on	Operation			
📀 Settings 🔷 🔺	192.168.2.1	192.168.2.1/255.2 55.255.0 (/24)	0.0.0.0/0.0.0.0 (/0)	Any	0-65535	0-65535	By_Route	 	-			41	
Network	VPN-Server-02-Of fice	172.16.0.0/255.25 5.0.0 (/16)	0.0.0.0/0.0.0.0 (/0)	Any	0-65535	0-65535	By_Route	 	-			11	

Click Add--SNAT

Add

			Wel	come, howard.he	Super/	Admin 🗸	🔤 English	S Refresh	Ĥ	P
🚯 Dashboard	Network NAT Route	Subnets Domain]							
📰 Devices	SNAT DNAT									Back
. Clients	Name 🥝	EnterName								
💽 Settings 🔷 🔺	IP Version	IPv4 IPv6								
Network	Source IP / Mask	0.0.0.0	-	0.0.0.0 (/0)		•				
NAC	Destination IP / Mask	0.0.0.0	-	0.0.0.0 (/0)		•				
VPN	Service	Any				•				
Firewall	Protocol Port	0								
rirewali	Source Port	0	-	65535						
Location	Destination Port	0	-	65535						
Policy	Source IP Translated	By_Route				•				
🐝 System 🗸 🗸	Enable									
🌲 Alerts	Description	Enter the description								
🞗 Overview 🗸 🗸						é				
		Save Cancel								

Enter Name

All default is ok, click save.

The system can do SNAT by route.

- Click Devices—AC, select your CAM/CSP
- Click Modify—SNAT, select your SNAT rule

🚯 Dashboard			AP(17) AC(8)	GRE devices							
		0	rganization	411 (•)	All Selected		Nati	onal			
Clients											
Settings	^	► F	Ports								
Network		• \	/PN								
Network		• 1	P/DHCP								
NAC		► F	Route								
VPN		• [ONS Server								
		Þ F	irewall								
Eirowall											
Firewall		v 9	SNAT								
Firewall Location		- s	SNAT								
Firewall Location Policy		▼ S	NAT Rules: VPN	v							
Firewall Location Policy System	v	si	NAT Rules: VPN	Source IP	Destination IP	Protocol	Source Port	Destination Port	Translated	Enable	Description
Firewall Location Policy System	ř	SI	NAT Rules: VPN Name 192.168.2.1	Source IP 192.168.2.1/24	Destination IP	Protocol Any	Source Port 0-65535	Destination Port 0-65535	Translated By_Route	Enable	Description
Firewall Location Policy System Alerts	Ť	SI	NAT Rules: VPN Name 192.168.2.1 VPN-Server-02-Office	Source IP 192.168.2.1/24 172.16.0.0/16	Destination IP 0.0.0.0/0 0.0.0.0/0	Protocol Any Any	Source Port 0-65535 0-65535	Destination Port 0-65535 0-65535	Translated By_Route By_Route	Enable ✓	Description
Firewall Location Policy System Alerts Soverview	ř	si	NAT Rules: VPN Name 192.168.2.1 VPN-Server-02-Office JZ-LYB	Source IP 192.168.2.1/24 172.16.0.0/16 192.168.88.1/24	Destination IP 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Protocol Any Any Any	Source Port 0-65535 0-65535 0-65535	Destination Port 0-65535 0-65535 0-65535	Translated By_Route By_Route By_Route	Enable	Description

If you customize by yourself, you should understand the following:

Source IP/ Mask: IP network segment which need to network address transform as a source

Destination IP/ Mask: IP network segment which you want to access, 0.0.0.0 mean all.

Source IP Translated: Transform Source IP network segment to specified IP. Default route will select automatically.

2.8. Modify CAM/CSP time

- Click Devices—AC, select your CAM/CSP
- Click NTP—Enable, enter Primary NTP server and Secondary NTP server address, make sure CAM/CSP and ACS/CSP time is synchronized.

		Welcome, howard.he SuperA	kdmin \vee 🔤 English	S Refresh	∞ ∩	P
🕦 Dashboard	AP(17) AC(8) GRE devices					
Devices	Ports					
Clients	> VPN					
 Settings 	Route					
Network	DNS Server					
NAC	Firewall					
VPN	> SNAT					
Firewall	▼ NTP					
Location						-
Policy	Enable					
🌸 System 🗸 🗸	Primary NTP Server Enter					
Alerts	Secondary NTP Server					
• Overview •	Admin					

2.9. Save

		Welcome, howard.he Supe	erAdmin 🖂 🔤 English	🗢 Refresh 🛛 🖻	1	₽
🕦 Dashboard	AP(17) AC(8) GRE devices					
: Devices	© TIANANMEN WE	Grand Hotel Be	eljing (ast			
Clients	🛁 , i					
Settings ^	Organization All Selected	National				
Network						
NAC	Ports					
	▶ VPN					
VPN	► IP/DHCP					
Firewall	Route					
Location	DNS Server					
Policy	Firewall					
	SNAT					
💮 System 🗸 🗸	DNAT					
🔔 Alerts	▶ NTP					
Q Overview ~	Admin					
	Save					١

Click Save button after all config is done. If you forget to click Save button, all configuration will be lost.

3. CLI command

• show ip (show ip configuration)

Abloomy@[192.168.100.1 Interface Slot/Port 0/1 VSLAN 1	22]: show ip IP/Netmask 192.168.100.1 1.1.1/128.0	122/255.255.2 0.0.0	55.0	CS_C on off	ontro	L	TYPE STATI STATI	:c :c	Admin on off
• show ports (show	ports configur	ation)							
Abloomy@[192.168.100.122]: shu Slot 0: 4 ports Slot/Port MAC PPP0E_pass 0/1 00:16:31:f1:65:ad 0/2 00:16:31:f1:65:ad 0/3 00:16:31:f1:65:af 0/4 00:16:31:f1:65:af 	Type Mtu Mc Uplink 1500 Rc Uplink 1500 Rc Downlink 1500 Rc Downlink 1500 Rc Troute configur	ode Br oute – oute – oute – oute –	Trunk Off Off Off	Speed Auto Auto Auto Auto	VSLAN 1 1 1	ByIP Off Off Off Off	Status Enable Enable Enable	PseudoMac 00:00:00:00 00:00:00:00 00:00:00:00 00:00:	PPPOE_user 1:00:00 1:00:00 1:00:00 1:00:00
Abloomy@[192.168.1 DestIP/Netmask	00.122]: sho Gateway	w route Met	ric						
0.0.0.0/0.0.0.0	192.168.100	.1 0							
 show controlserve Abloomy@[192.168.10 Control Server: show vlanif (show Slot/Port Slot/Port 0/2.100 Abloomy@[192.168.100.122] show time 	er (show ACS/C 0.122]: show 192.168.100.1 w vlan ports co MAC 00:16:31:f1:65: 2]: Write failed	CSP address) controlserv 166 onfiguration) Mtu ad 1500 I: Broken pipe	/er Mod Sw:	de itch	Br VSLAN	1	VSL 1	AN ByIF off	9 Status Enable
Abloomy@[192.1 Timezone: NTP Service: NTP Servers: Time:	168.100.12 Asia/Sh Enabled ntp.nas 2014/11	22]: show hanghai d sa.gov 1/26 13:3	v ti 31:1	.me .8					
• show dhcpserver									
Abloomy@[192.16	8.100.122]	: show dh	cpse	erve	r ?				
show dh show dh	cpserver ; cpserver s	tatus;							

• show ambit ip (show DNS configuration)

```
Abloomy@[192.168.100.122]: show ambit_ip
Hostname:
Domain Name:
IP address: 192.168.100.122/24
DHCP enabled: No
Default gateway: None configured
DNS servers: 202.106.0.20 8.8.8.8
Management VLAN: Not tagged
```

• save main

Abloomy@[192.168.100.122]: save main saving configuration.... save configuation success

• factoryreset

Abloomy@[192.168.100.122]: factoryreset

This operation will erase all configuration information and return this system to factory default settings.

Are you sure you want to perform a factory reset [n]?