KEYKING DPU3000 Serires **System configure**





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Chapter 1 Application in WAN

1.1 Requirement

Requirement:

- 1. Multi installation site for DPU3000 series Access Controller
- 2. Head office for management centre.



1.2 Solutions

Solutions:

- 1. Make a virtual connection through VPN technology. But we will not introduce it in this manual, and you can get support from microsoft.
- 2. Fixed Public IP in Head office for management centre. We will introduce this solution in this manual.

There is a solution to solve the problem about how to control the Access Control System through WAN in different places.



As you can see in the picture, there is a PC server in London, a controller connect the PC server through HUB directly, then there are two controllers in Washington, the other two in New York, and now it is going to connect these controllers with the PC Server in London through WAN.There is a way introduced in Chapter 2 to connect controllers to Sphinx through WAN.

1.3 Condition before configuration

Please make sure below conditions are existing. If not, please create these conditions.

Conditions:

- (1) There is a fixed public IP for Router 1# in head office (server).
- (2) Router 1# will support MAPPING feature.

Solution:

- (1) PC Sphinx will work as the server (Host).
- (2) Panel will work as Client.

Chapter 2 Steps of Configuration

From the follow picture, there is a fixed IP in PC side. PC will work as the TCP server (Host), and Panel will work as TCP client.



As above, you should map the port of Router 1# to the PC Server which has been installed Sphinx.

2.1 Server Site Configuration

2.1.1 Configuration in Sphinx

In this case: host / Server IP: 192.168.0.1 Router public IP: 202.196.135.138

Click "Setup/Communication/Communication".

KEYKING KEYKING GROUP

Communication Configuration								
Server Communication Clock Adjustment Desktop Reader & Card Number Format DVR Intrusion Fingerprint Face Recognition	n 🛛 Times Cantee 🔨 🕨							
Communication								
Network Delay Time 1000 😴 Milliseconds								
Est suesta from paral initiatiuslu (Mood ro start Software)								
Cet transactions and human (RS495 Bus)								
Time duration between swines for the same event	1 🕿							
Send data to controller after transactions								
Get Component Status with Component Events (During up-saved Component Events, don't check it))								
Area will be changed by valid event (Without sensor, PC should be online).								
Every day will change all personnel area to the specific area Please check this	one "Small							
All the controllers share temp date and holiday.	n"							
For invalid card event, use the software to check level again	11							
Using multi-threaded communication with the TCP controller								
Using a small packet to communicate (for WAN or Internet)								
Ownload Configuration for all controller automatically	KEY							
Download Configuration for all controller manually	KL I							
words during there	e are							
Network Controller Setup	olace.							
Host IP Address Key	3							
132, 100, 0, Paddress for keywords (for a fixed IP, LAN)	73741823							
8000 MAC address for keywords (for dynamic IP / WAN) Datas Time (UC)								
Send UDP Reset Command when Network Controller is disconnect) 2 Hours							
Timing Download Controller Parameters								
Time 1 Time 2 Time 3 Time 4 Time 5 Time 6 Time	neout(S)							
00-00-00 🔎 00-00-00 🔍 00-00-00 🔍 00-00-00 🔍 00-00-00 🔍								
	Appiy							

IP address as keywords: You can check "IP address as keywords" when there is 1 piece panel in any place.

MAC address as keywords: You have to check "MAC address as keywords" once there are several panels in some place. Of course if there is only 1 controller in any place, you can use "IP Address as Keywords".

Small Data communication: This feature is only for WAN. So, you are supposed to check "using a small packet to communication (for WAN or Internet)", and check the "MAC address for keywords" because there are several panels in the internet.

2.1.2 Mapping port of router to Server PC in Head office

Regarding this step, you have to ask your IT manager, because only this person will know all parameter of network.

Then, make a map in the gateway of Router 1#: input the monitor port 8000 and the computer's IP address on the follow picture.

The map is: One port in the gateway of Router $1\# \iff$ the IP of "TCP SERVER"+port number. The setting of gateway can be modified to complete mapping in the Router 1#, such as the follow picture.

Tomato ## 1.28.20130605 MIPSR2-RT-N5x-Arctic K							(Dpe	nLir	iksys
System Status	IPv4	Forward	ding						E	leGatesRouter
System Status	Enable	Agreen	ant	Source IP	External Port	Internal Port	Internal IP		Description	
Online Equipments	Yes	TCP	iem	Source II	81	80	172. 21. 1. 121		BegatesDVR	
Site Record	V	ТСР	-		8101	8101	172.21.1.121		BegatesDVR	
Log Monitoring					1			Delete	OK	Cancel
Bandwidth Monitering	Yes	TCP			82	80	172, 21, 1, 52	Dence	tfs:sharepoi	nt
Real-time Traffic	Yes	TCP			8082	8080	172. 21. 1. 52		tfs:tfs	
24 hours Traffic		ТСР	-							
Daily Traffic										Add
Weekly Traffic										1100
Monthly Traffic										
IP Traffic Monitoring										
Utilities										
o unitos										
Basic Settings										
Advanced Settings										
Port Forwarding										
IPv4 Forwarding										
IPv6 Forwarding										
DMZ Settings										
Port Triggering										
UPnP Settings										
Access Restrictions										
OoS Settings										
IP Bandwidth Limit										
Network Announcement										
USB Applications										
VPN Settings										
System Managerment										
About										
Roout										
Restart										
Exit										

Click "Port Forwarding NPv4 Forwarding", add "TCP PORT" , such as "8000" and "server's IP address" , click "OK".

Among them, the "server port" should be consistent with the port used in software.

2.2 Setup panels in local place

2.2.1 Setup panel in LAN2#

Configure panel through TCP/IP Setting:TCP/IP Setting is a tool for local network, so you cannot

setup this panel through TCP/IP Setting from any PC in LAN 1#, because you cannot find this panel in LAN 1#.

	0					
ľ	Search and Upload Controller	KK TCP/IP Setting				
	Search Options Ple	Search	Mac Address	IP Address	Model	Name 🔺
	COM Port	- Hannel Canfirma	💑 00.10.F0.00.71.93	192.168.3.252	DPU3088NT	
	COM1 -	Manual Conliguie	34 00.10.F0.00.2B.D6	192.168.0.28		
		<u>A</u> uto Config	3 00.10.F0.00.63.73	192.168.3.103	DPU3022NT	
		<u>W</u> izard I	💑 00.10.F0.00.63.6D	192.168.3.112	DPU3022NT	
	U.U.U.U 🖬 🔛 🖉	Reset	34 00.10.F0.00.63.75	192.168.3.104 192.168.3.250	DPU3022NT DPU1012NT	=
			3 00.10.F0.00.36.01	192.168.4.157	FSC8105	
		neset All	💑 00.10.F0.00.11.EF	192.168.3.11	DI03168	
		Connect Controller	34 00.10.F0.00.63.6F	192.168.3.111	DPU3022NT DPU3024NT	
		Connect All Controllers	3 00.10.F0.00.63.77	192.168.3.109	DPU3022NT	
		Exit	💑 00.10.F0.00.68.6E	192.168.2.157	TC344	
		Do not show evicting devices	34 00.10.F0.00.63.6C	192.168.3.106	DPU3022NT TC344	
		PC Network Configuration	4 00.10.F0.00.6B.EB	192.168.3.72	TC344	
		IP Address: 192.168.2.106 -	💑 00.10.F0.00.63.72	192.168.3.108	DPU3022NT	
		IP Mask: 255.255.248.0 -	34 00.10.F0.00.6D.3E	192.168.3.253	DPU3044NT DPU3022NT	_
		Gateway: 192.168.2.249 -	 Control to to	132.100.3.103	0103022141	
		Search finished. Total: 28 PCS.	1			
	0/0 Select All Invert Selection					
	Standalone Fingerprint					
	Search					
Ľ						
			Г			
	TCP/IP Setting			Mac: 0010)f0006373	
	Model:	DPU3022NT				
	Mac Address:	00.10.F0.00.63.73				
	bi			Panel IP	in LAN	2# for
	Name.					2,, 101
				example I	92.168.1.1	03
	IP Address:	192.168.1.1	03			
	Mask:	255 255 248	0			
	MOSK.	233.233.240.	0			
	Gateway:	192.168.1.	1			
	_	0000		Public Fix	ed IP of R	outer 1#
	Port:	8000		I uone I iz		0 uter 1 π ,
	Work Mode:	TCP Client	•	for examp	le: 202.196	5.135.138
	Host IP:	202.196.135.1	38			
	Hard Date	8000				
	HOSt POIT:	0000				

Run TCP/IP Setting from any PC in LAN 2#, you will see below picture.

Mac Address: Physical address of the controller, an unchanged and unique TCP Mark.

Cancel

Name: Controller's network identity, can be identified by users.

IP Address: The IP of NT controller, the unique mark on LAN 2#.

ΟK

Auto Config

Port: Input the network monitor port in this part, and TCP\IP module monitors the

connection request of data server in this TCP port. Normally, the port is 8000, you

can choose the other free ports when the port 8000 be used.

- Server IP: In this part, you should input the public IP Address which manage the computer server.
- Server Port: Input the data server's monitor port in this part, and the server is waiting TCP\IP module's connection request at the port. The common port is 8000. This port should be mapped though LAN 1#, and transferred by router.

You can add panel by adding the controller's Mac address or IP address, instead of using "search" in the software, and Controller parameters should setup before adding.

Of course you can setup this panel through IE browser also, but I will not introduce it here.

2.2.2 Setup panel in LAN 3#

Do the same step as 2.2.1 in LAN3#.

2.3 Add panel in Sphinx software

Please add a panel in "Setup/Hardware/Panel", and click "Add" to finish this step. Don't use "search", because "Search" is not available for WAN, just for LAN.



Click Add, and type all information needed for this controller you would like to add to system.

Add a controller	Choose a correct model to
Controller ID Model 1 Image: DPU3022NT Controller(2 Dorg) Name Controller(2 Doors,In) Site Keyking Group	match this panel in LAN 2#
Connection COM Port COM Port COM Port COM1	Type the correct Mac address:0010f0006373 here.
OK Cancel	

Click Ok, you will see below picture, and if the controller is power on, and everything work well, it will show you "Connected".

KK Controller	Configuration			_			and the second se
Controller List:							
Controller ID	Name	Model	Firmware	Connected Line ID	Host PC	COM/IP	Mac Address Site Name
1	DEMO DPU3024NT	DPU3024NT	V03.02		0 KALVIN-X240S	192.168.1.102	0010F0007659 Keyking Group
1	FPC2000NT Standalone	FPC2000	V02.03		1 KALVIN-X240S	192.168.2.103	0010F0007500 Keyking Group
1	Controller(2 Doors,In)(001	IDPU3022NT	V01.01		3 KALVIN-X240S	0.0.0.0	0010F0006373 Keyking Group

Add another controller follow above steps. Done.

Chapter 3 Trouble shooting

Q1: When I used the controller as a client, the PC searches locally and setup first. A: correctly.

- Q2: How to fill out the controller's IP address? Can I assign it free?
- A: First, you must be sure your ADSL Modem have routing and automatic dialing feature, in other words, the PPOE feature. Then, controller's IP and LAN port's gateway of ADSL Modem should be in the same network. For example, ADSL Modem's LAN port is 192.168.1.1, then the controller's IP is 192.168.1.x; and the x is not equal to "1".
- Q3: The controller's gateway should use the IP provided by local ADSL, right?
- A: The gateway must fill in the LAN port's IP of ADSL Modem which you are using now. For example, LAN port of ADSL Modem is 192.168.0.1, then you should fill 192.168.1.1 in the gateway of controller.