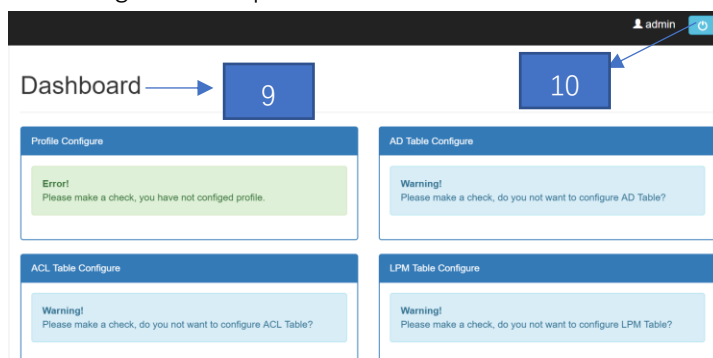




- 1-> clicking the tab will help users configure the table
- 2-> clicking the tab will help users configure the profile
- 3-> clicking the tab will help users determine the type of generate the rules
- 4-> clicking the tab will help users determine the type of generating the search key
- 5-> clicking the tab will generate the nseappx and rule.txt and search\_key.txt
- 6-> clicking the tab will show the interface of document management
- 7-> clicking the tab will set e-mail to administrators if have any questions.
- 8->user guide and quick reference



- 9->show the configuration
- 10->sign out

## Corigine- Quick Reference Of Auto-gen System

Auto-gen System

Quick Reference



Configure Mode

Mode:

☒ enable AD

☒ enable ACL

☒ enable LPM

NSE\_MODE\_SINGLE\_PORT  
NSE\_MODE\_DUAL\_PORT\_SINGLE\_BANK  
NSE\_MODE\_DUAL\_PORT\_DUAL\_BANK

next step

Configure AD

name:

baseAddr:

size:

width:

last step next step

Configure ACL

table1

name:

depth:

width:

adBlock:

last step Submit

Configure LPM

table1

name:

depth:

width:

type:

last step Submit

- 1-> select the NSE's mode.
- 2-> The checkbox will provide three types of tables with the users.

**Note: the LPM table and ACL table are chosen at least one.**

- 3-> increase one ad
- 4-> AD handle e.g. ADx, x is digit
- 5-> AD base address: general is 0

- 6-> AD entry e.g. 1024\*128, 1024\*64, 1024\*32, 1024\*16
- 7-> Priority range including 32, 64, 128, 256

**Note: the AD size has a one-to-one relationship with the AD width i.e. 32->128\*1024\*n, 64->64\*1024\*n, 128->32\*1024\*n, 256->16\*1024\*n (n >= 1)**

- 8-> increase one ACL table
- 9-> ACL table name, e.g. Tx, x is digit

- 10-> base unit K, default 1K, e.g. 1024\*x, x is digit
- 11-> Rules' bits including 80, 160, 320, 640

12-> AD handle, e.g. AD1 **select the AD handle which is filled in the "Configure AD"**

- 13-> increase one LPM table
- 14-> LPM table name, e.g. Tx, x is digit, **don't repeat the name**

- 15-> base unit K, default 1K, e.g. 1024\*x, x is digit
- 16-> Rules' bits only 144

- 17-> LPM have 4 types i.e. select one

**Note: LPM table has a maximum of four tables, one type has only one LPM table.**

**Configure Profile**

Profile1

tb-num: 2

submit

**Configure table1**

type: LPM

table: T2

channel: 0

kgu: 0

**Add Rules**

Table: T1

Type: ☒ INC ☐ LPM-RND ☐ ACL-RND ☐ From File

**Rule1**

Table: T1

Type: ☒ INC ☐ LPM-RND ☐ ACL-RND ☐ From File

Form: s1,s1,s3,s3

**Add Rules**

**Hint**

avaialbe segments splited by comma:  
s1,s2,s3,s4,s5  
s1 delegates IP address V4, 4 bytes taken  
s2 delegates IP address V6, 16 bytes taken  
s3 delegates MAC address, 6 bytes taken  
s4 delegates port number, 2 bytes taken  
s5 delegates protocol number, 1 byte taken

Form: s1,s1,s3,s3

**Rule1**

Table: T1

Type: ☐ INC ☐ LPM-RND ☒ ACL-RND ☐ From File

Address: C:\Users\peng.zhang\Downloads\T1.txt

1->increase profile  
2-> the number of tables that are configured in profile e.g. 1, 2, 3  
3-> Click the drop-down mark and further configure the tables of profile in dropdown box.  
4->LPM/ACL. It is determined by the table configuration,e.g. LPM or ACL, **watch your capitalization carefully**

5-> The name of the table contained in the table configuration, e.g. T1  
6-> Select channel e.g. 0, 1, 2, 3  
**If there is a LPM table in profile, its channel selection can only be 0, the profile also has only one LPM table. The selection of channel is corresponding to the location of key,**

7->Select kgu, e.g. 0, 1, 2, 3  
8->in crease rules configuration  
9-> The name of the table contained in the table i.e. T1  
**Only the previously configured tables can be filled in, and these tables must be filled in to determine the way the rules are produced.**

10->the type of generating the rules, acl including inc and random  
Lpm including inc and random

11-> Generating ACL rules according to the Random pattern, i.e. s1, s1, s3, s3

12->11's hint, according this, Fill in the components of the rule as required, **make sure the length equal the rule's bits, e.g.**  
 $s1+s1+s3+s3 = 160/8$

13-> Fill in the address of the local rule file, the template is:  
C:\\Users\\peng.zhang\\Downl  
pads\\T1.txt

**Search Key**

Key1

Profile ID:

Type: ☒ Auto ☐ From File

submit

**Search Key**

Key1

Profile ID:

Type: ☐ Auto ☒ From File

Address:

**Profile Configure**

Profile ID	Chan 0	Chan 1	Chan 2	Chan 3
1	T2	T1		

[Detail >>](#)

**AD Table Configure**

Table ID	name	baseAddr	size	width
1	AD1	0	1024*128	32

[Detail >>](#)

**ACL Table Configure**

Table ID	name	depth	width	adBlock
1	T1	1024	160	AD1

[Detail >>](#)

**LPM Table Configure**

Table ID	name	depth	width	type
1	T2	1024	144	ehNseLpmTableType_IP4

[Detail >>](#)

**Generate Application**

please click the file to download

app	rule	key
<a href="#">nseApp_admin_2018-02-09_01-24-36-249</a>	<a href="#">nseApp_admin_2018-02-09_01-24-36-249_rule</a>	<a href="#">nseApp_admin_2018-02-09_01-24-36-249_key</a>

close

1->increase the search key,  
Generally, the number is equal to  
the number of profile.

2->The serial number of the  
profile contained in the profile  
configuration, i.e. 1

3->the type of generating the  
search key, including Auto and  
from file, auto is that automatically  
generate key according to the  
generated rules.

4-> From-file is that Fill in the  
address of the local rule file, the  
template is  
C:\Users\peng.zhang\Downl  
oads\key.txt

5->show the profile configure

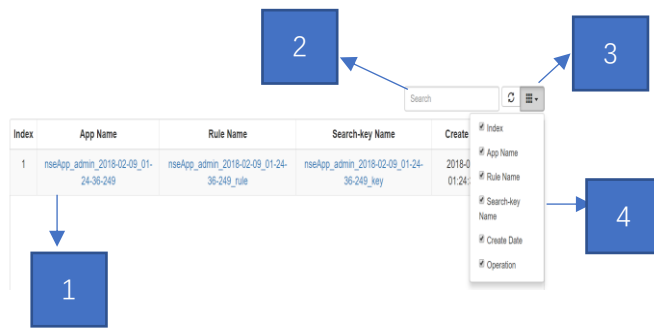
6->show the ad configure

7->show the acl table configure

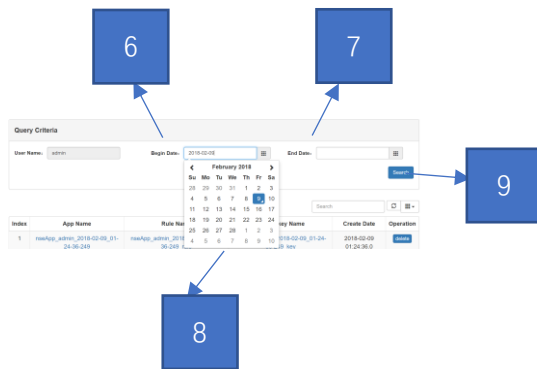
8->show the lpm table configure

9-> show the popup of "  
Configure".

10-> display the generated files  
including NSEAPPx.c, rule.txt and  
search\_key.txt for the users. Users  
can download them according to  
their needs.



Index	App Name	Rule Name	Search-key Name	Create Date	Operation
1	nseApp_admin_2018-02-08_00-10-47-034	nseApp_admin_2018-02-08_00-10-47-034_rule	nseApp_admin_2018-02-08_00-10-47-034_key	2018-02-08 00:11:24.0	<a href="#">delete</a>
2	nseApp_admin_2018-02-08_01-14-01-013	nseApp_admin_2018-02-08_01-14-01-013_rule	nseApp_admin_2018-02-08_01-14-01-013_key	2018-02-08 01:14:04.0	<a href="#">delete</a>



1-> file display interface, There is a total of 6 column including index, App Name, Rule Name, Search-key Name, Create Date and Operation. Users can download and delete these files according to their needs.

2->keyword search

3->show the drop-down menu

4-> decide what to display by the drop-down menu

5-> delete this record

6->data search: begin data

7-> data search: end data

8-> the calendar on the drop-down menu, can select data

9->show the relative record in the file display interface