XENA™

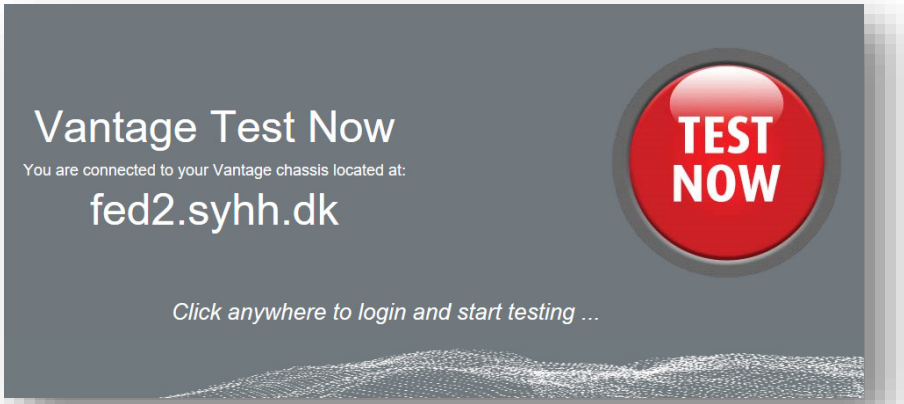
Test. Improve. Repeat.

VantageManager (v4.0)

A STEP-BY-STEP GUIDE

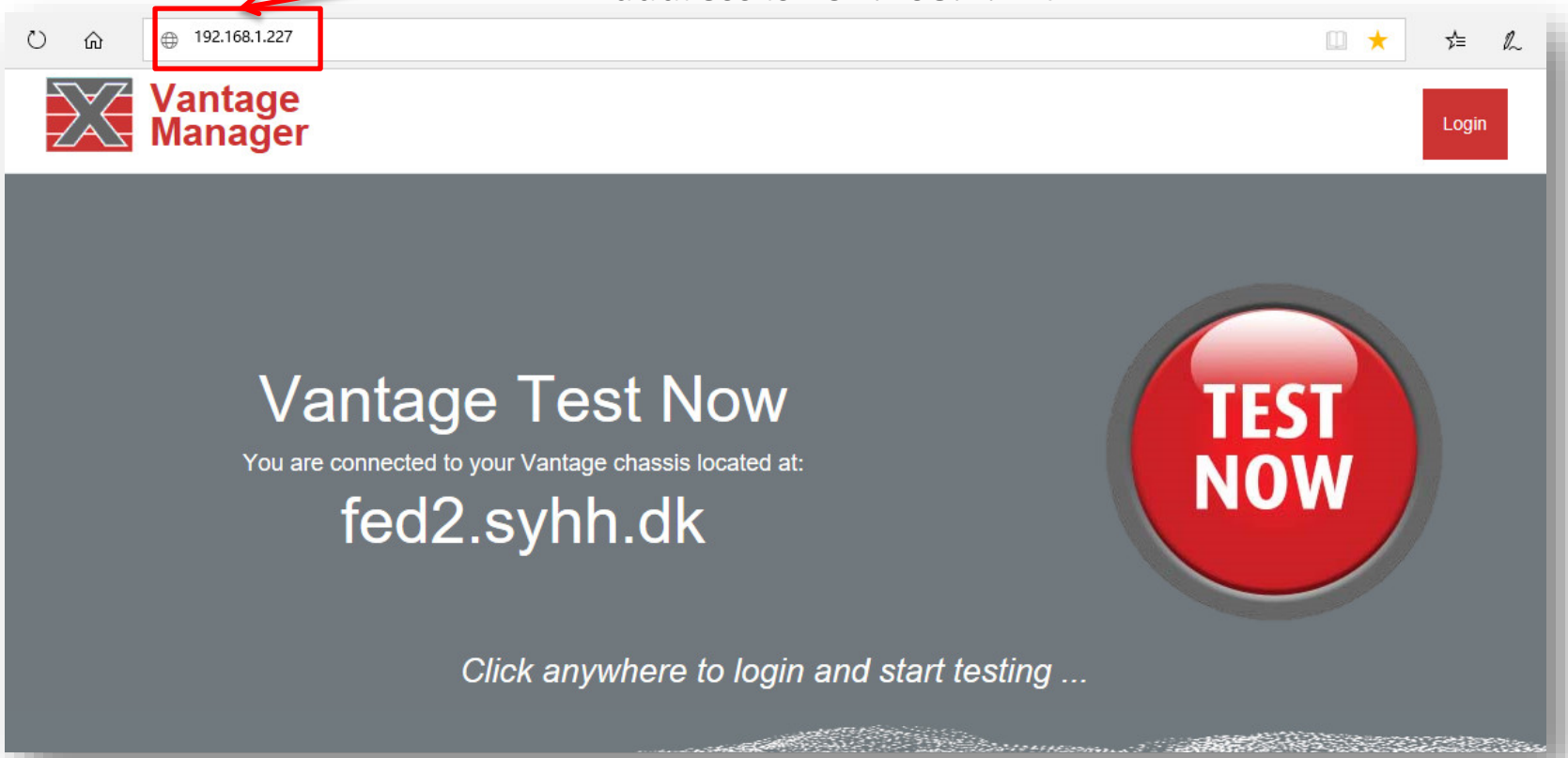
CONTENT

- Login
- Add Test Configuration
- Configuration
- **Telnet** feature
- Reserved Ports
- Add Test and Start
- Test Window and Filter
- Test Result
- User Administration
- Change IP and upgrade



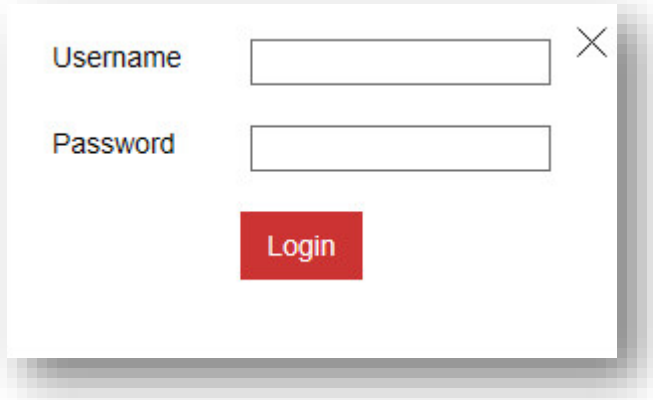
LOGIN

Open the browser and input the IP address. The default IP address is 192.168.1.227



LOGIN

Enter the “Username” and the “Password”
Administrator User: demoa
Password:Xena2018



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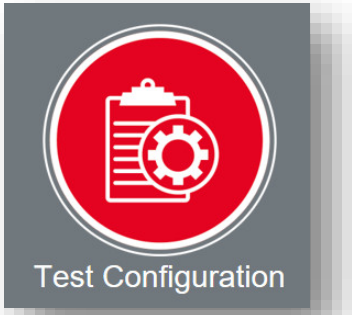
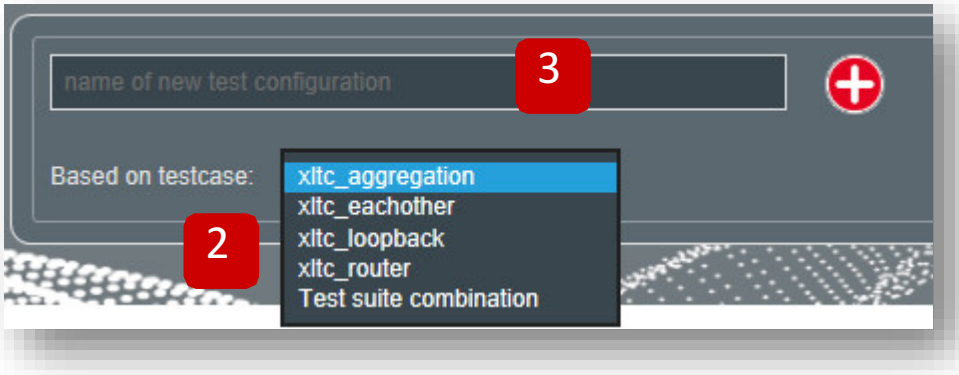
ADD TEST CONFIGURATION

1. Click “Test Configuration” into the Test Configuration interface
2. Select the template testcase and click  to add a new configuration
3. Enter the name of new test configuration

1





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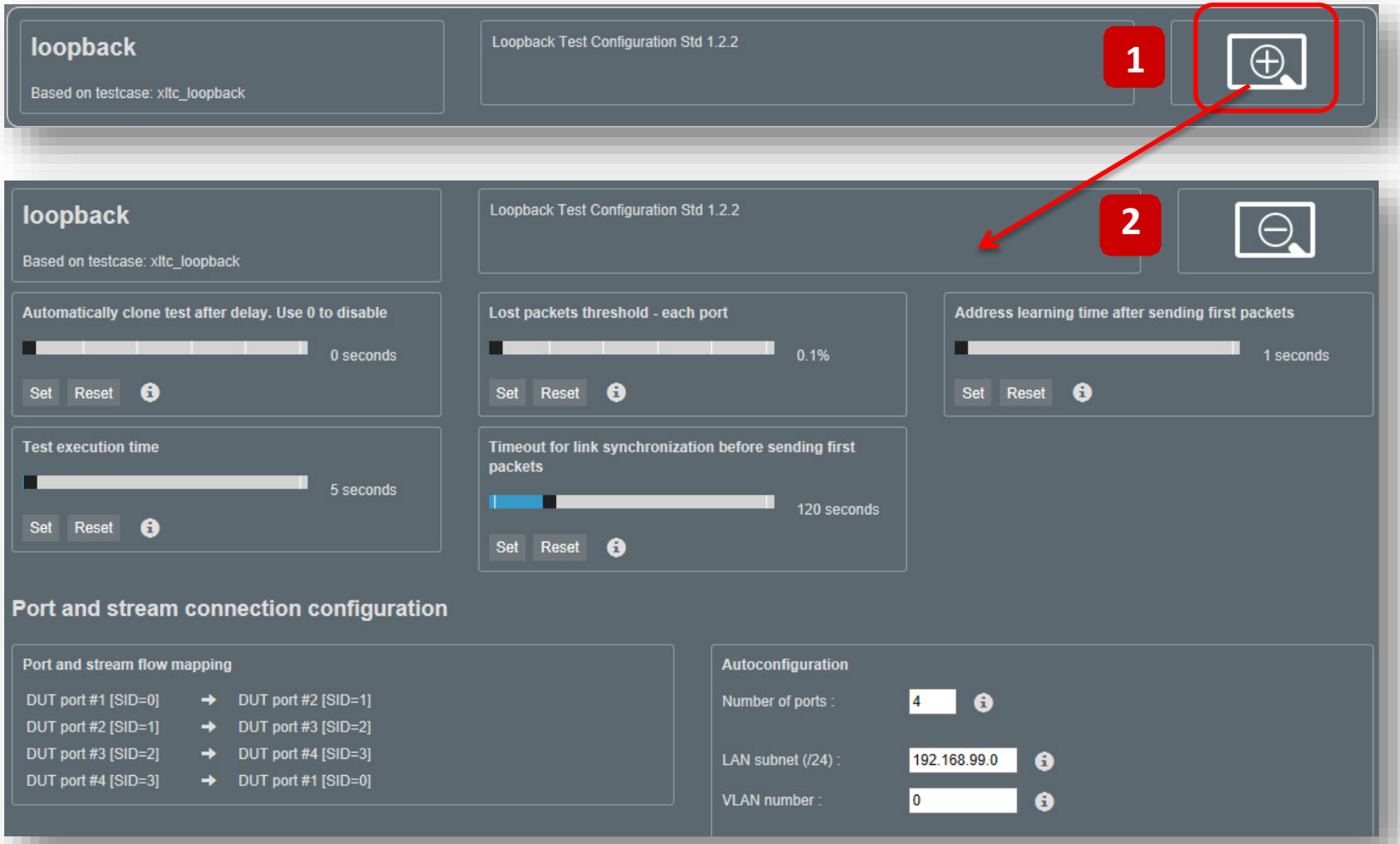
CONFIGURATION

1 Click  to spread out the Testcase configuration

2 Config the value of the testcase



CONFIGURATION

3 Testcase Properties

Column	Explanation
Automatically clone	When program detect the select port reconnected, the test will automatically clone and start again. Set 0 to disable the feature.
Lost packets threshold	The threshold of loss packets per ports. If the loss rate over this value, the test result will display “Failed”.
Autolearn time and MAC detection	The max time of the mac learning. If enable the “Enable MAC addrss detection for SN”, program will detect the DUT’s mac address as SN number.
Test execution time	The duration of the real test.
Timeout for link synchronization	Timeout for link synchronization before sending first packets, once the link sync timeout, the test will failure. Port(s) to await: Program will detect the link sync of the select if enable “Automatically clone ”
Port and stream connection configuration	The port and stream flow mapping of the testcase.
Autoconfiguration	The global value of the testcase. Port number, Vlan and Lan subnet.

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CONFIGURATION

3 Testcase Properties

Column			Explanation
Port configuration			IP address, mask, gateway and port speed of each port.
Stream configuration	MAC address		Sets the source and destination MAC address inserted in the header of test packets.
	Protocol	IP	Define the stream packet into IP packet. Allow customer define the src and dst ip address.
		TCP	Define the stream packet into IP packet. Allow customer define the src and dst port id.
		UDP	Define the stream packet into UDP packet. Allow customer define the src and dst port id.
		-	Define the stream packet into Ethernet packet.
	VLAN		Enables and sets the VLAN tag for insertion of VLAN headers in the stream packets
	Packet lengths		Enter desired length of stream packets
	Rate		Set the maximum rate fraction for this stream on the port. If the sum of fractions for streams on a port is above 100%, actual traffic rate will be lower.
	Distr		Set the type of the packet length. Random, BTFLY(Butterfly), INCR(Incrementing) , MIX, Fixed.
	Payload type		Set the type of byte pattern used for payload data in test packets.

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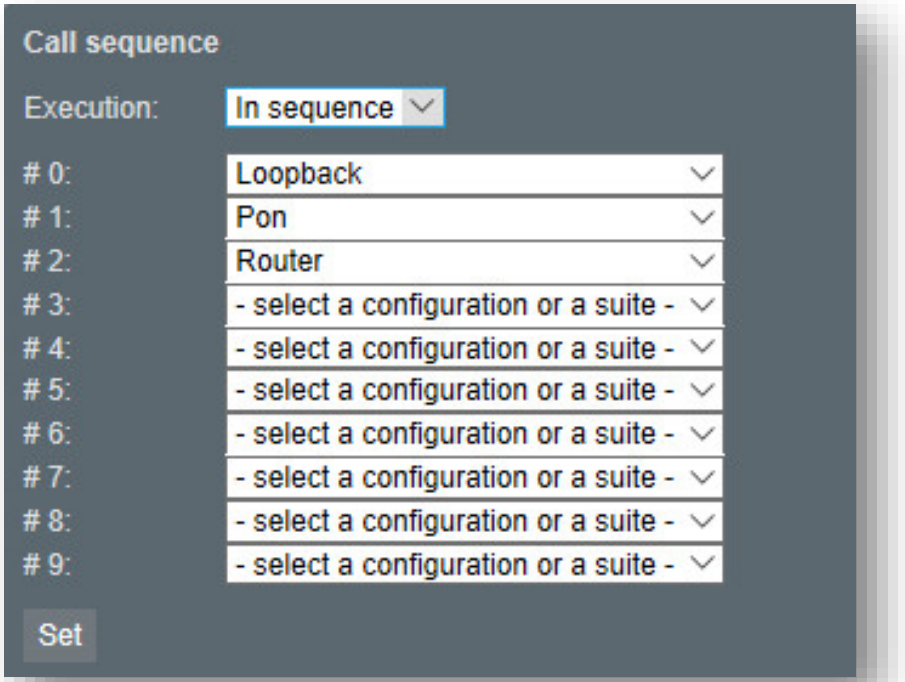
CONFIGURATION

4 Test Suite combination

Test Suite combination is a special test case which could allow customer generate a list of test case into one test. Customer could select the perious define test case and add it into the list. The program will start the test case in sequence(parallel).



XENA NETWORKS

CONFIGURATION

5 What's "Automatically clone test"

"Automatically clone test" is a very useful feature when customer do the repeatability test. The program process will go as the below picture. It will save the control step and time in the repeatability test task.

1. Complete configuration file and assign the port map.
2. Connect the DUT port with Xena tester.
3. Start the test
4. Test complete and wait tester replace DUT
5. Tester replace DUT, in this moment, program will detect the link status to confirm customer has changed another DUT.
6. Program detect the ports reconnected and then start new test automatically.

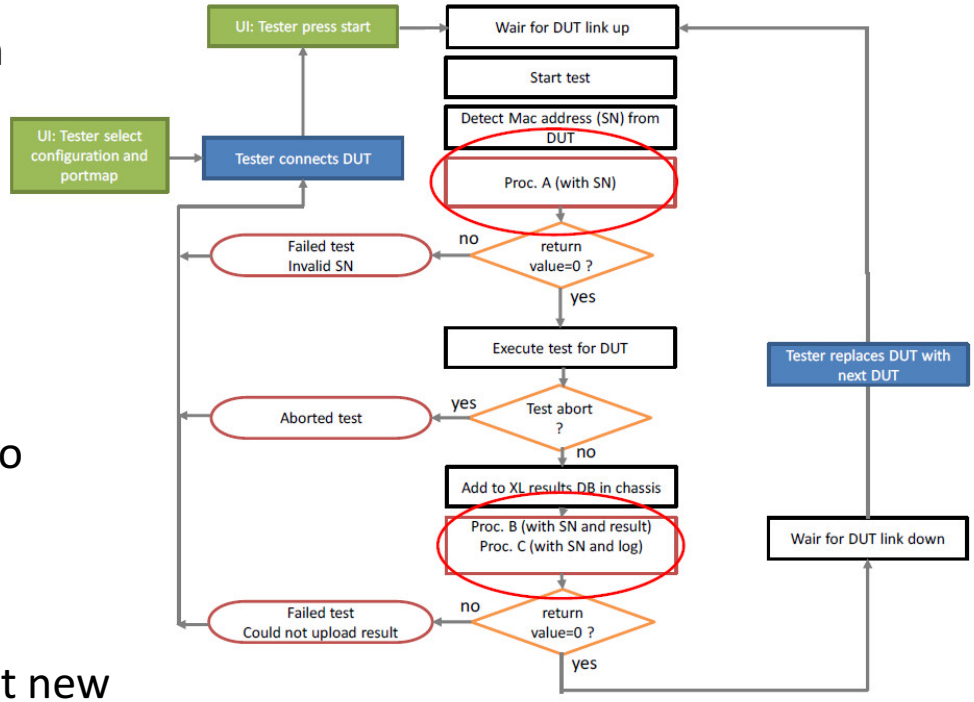
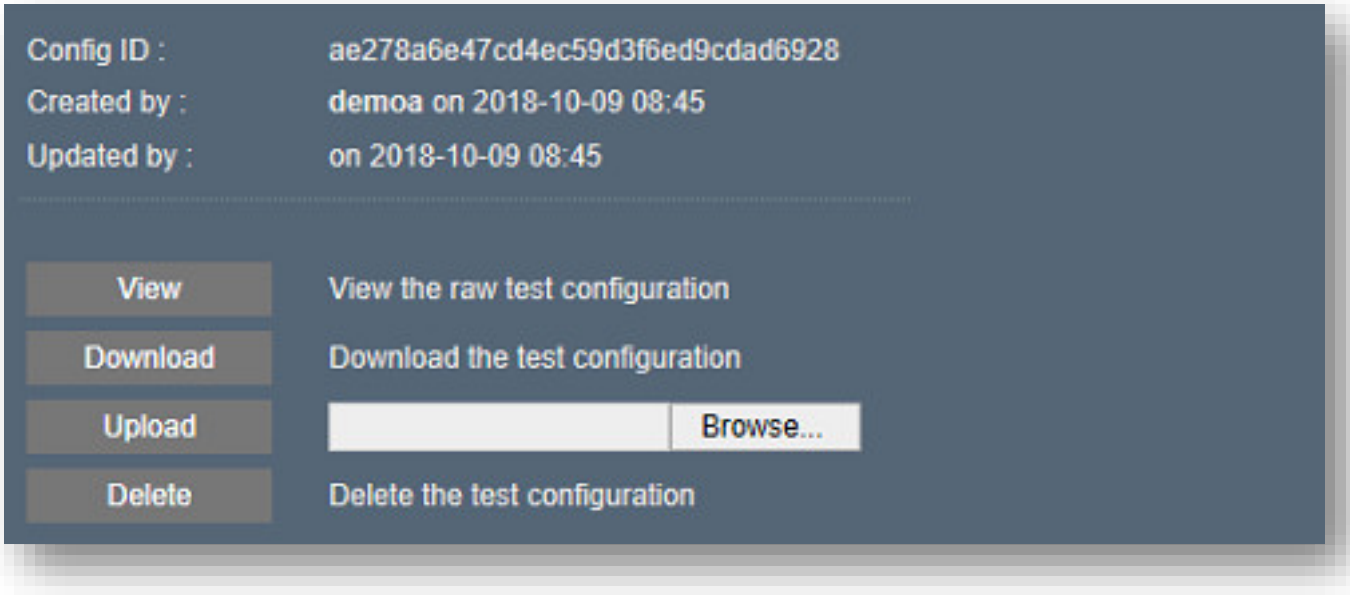


Figure 3. Sample tester workflow

CONFIGURATION

6 Test cases save and download

View : View the raw test configuration.
Download : Download the test configuration to the manage PC.
Upload : Upload the test configuration from the manage PC.
Delete : Delete the test configuration.



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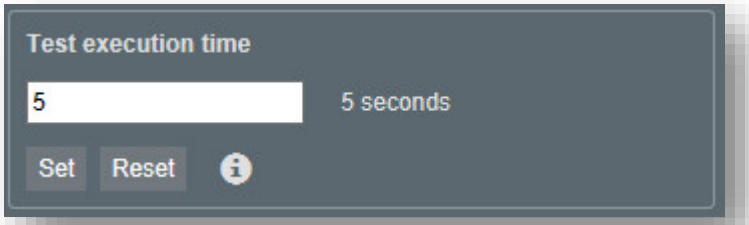
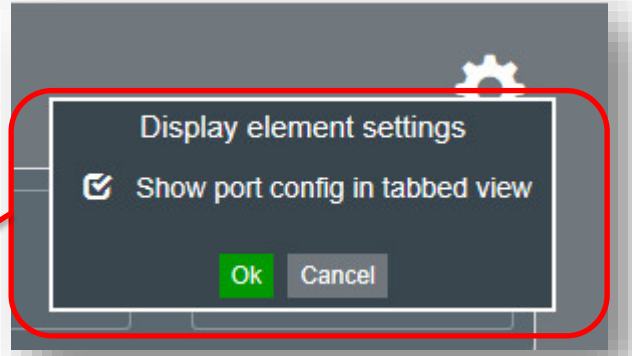
CONFIGURATION

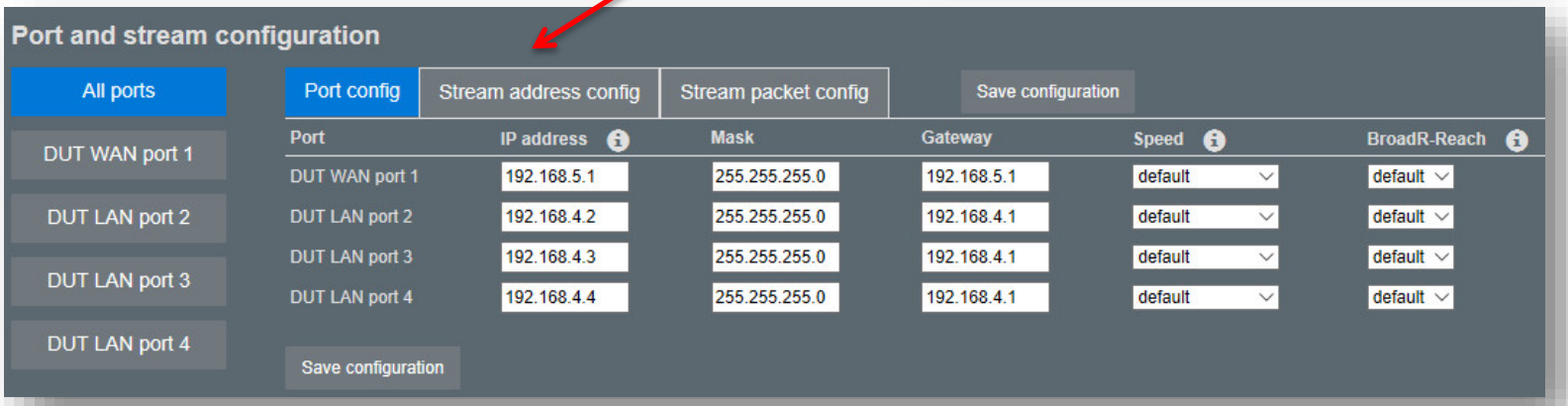
7 Tips

- Customer could double click the current value, then the slider will change to an input field



- Click  button, customer could change the display types about the “Port and Stream configuration”





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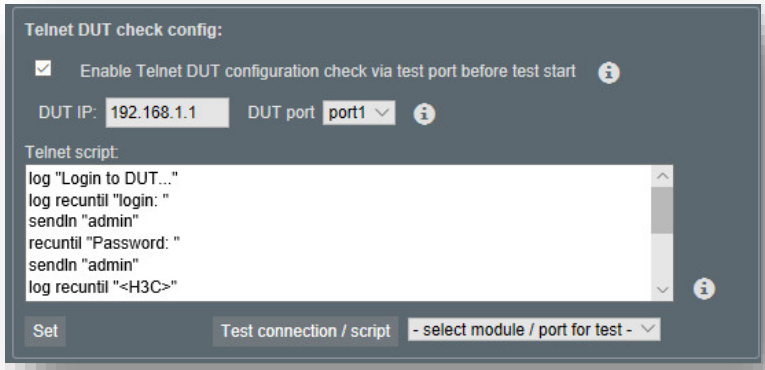
TELNET

Telnet is a very strong feature which could simplify the testing process, implement more advanced test scenarios.

What we could do with telnet feature:

1. Get the serial number from the DUT
2. Change the configuration
3. Get DUT status via telnet
4. Reboot DUT
5. Reset the DUT



In the past, if your PON device need to test traffic both in GPON mode and EPON mode. You need to test it in GPON mode and then change it into EPON mode manually, it will waste too much time.

But now, with Vantage Telnet feature, Vantage could telnet to the DUT and change it into EPON mode and then test the traffic automatically. It will save your time and make the Work efficient.

Or you could even telnet to the DUT to get the serial number instead of scan the serial number manually.

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TELNET

send <str-exp>
Send a string to the DUT via telnet
Returns the same string as sent.

sendln <str-exp>
Send a string followed by CRLF to the DUT via telnet
Returns the same string as sent.

recuntil <str-exp>
Receive data from the DUT until it contains the string specified
Return the received data up to but not including the string.

wait <int-exp>
Wait the specified number of seconds
Returns 1

failif <int-exp>
Will abort script execution (and also test execution) with an error message if <int-exp> is not 0.
Returns 0 if the script is not aborted. Does not return if it is aborted.

TELNET

log <str-exp>
Prints the specified expression to the test log on the UI
Returns the same string..

match <str-exp-1> , <str-exp-2>
Matches two expessions.
Returns 1 if <str-exp-1> is contained in <str-exp-2> and 0 otherwise.
<str-exp-1> may be a regular expression with usual wildcards, regex syntax etc.

set <varid> = <str-or-int-exp>
Assign the value to the variable specified which may be used in other expressions.
Returns the value of the expression.

Examples of scripts:

```
; script that will login to DUT
log "Login to DUT..."
log recuntil "login: "
sendln "admin"
recuntil "Password: "
sendln "12345" recuntil " >"
log "Login successfull..."
```

RESERVED PORTS

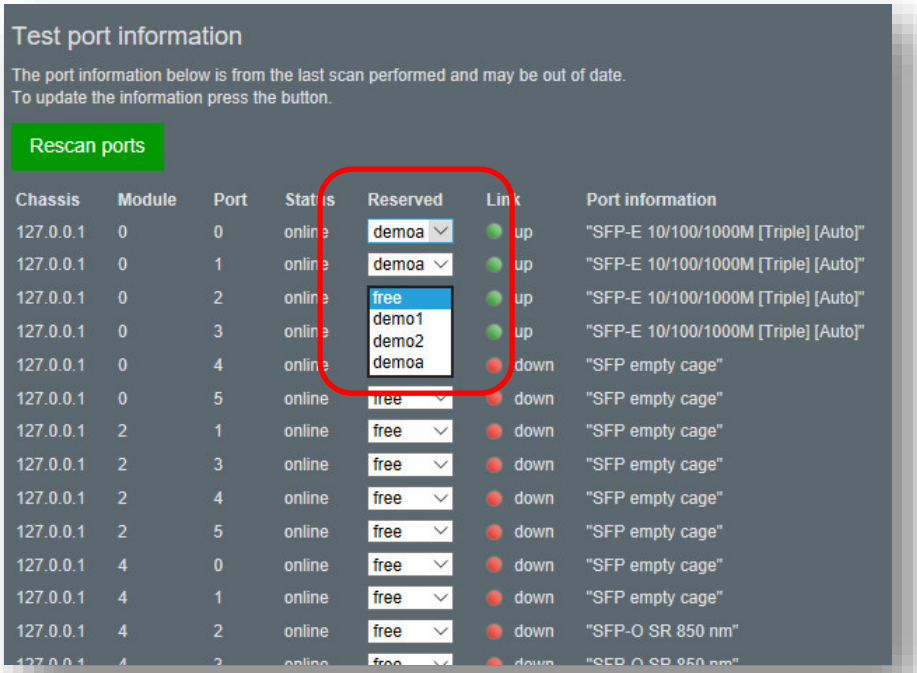
1 **Click**  **and enter “XenaLine Chassis Administration page”**

2 **Click** Rescan ports **to refresh the ports link status**

The port information below is from the last scan performed and may be out of date. To update the information press the button.

3 **Reserve the ports to the users**

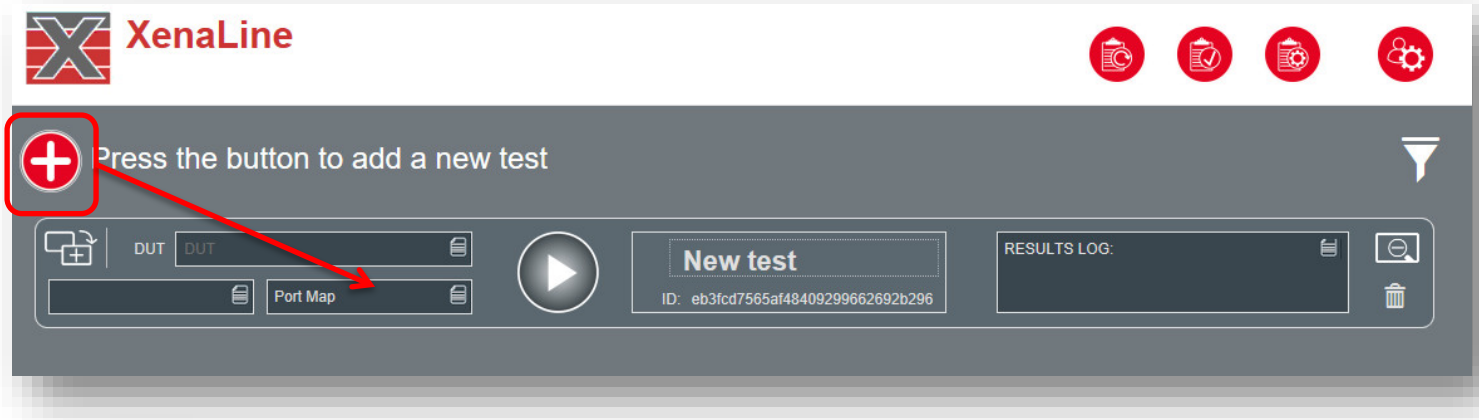
Administrator could reserve the ports to different users. Each user could only use the ports which are served by himself.



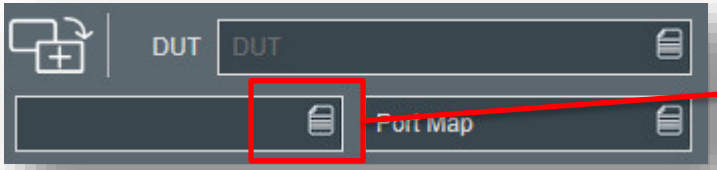
ADD TEST AND START

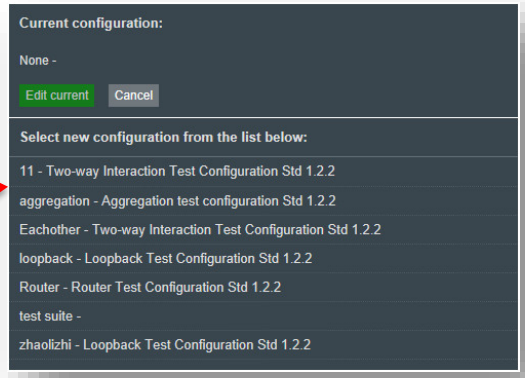
1 Click  and enter Test page

2 Click  to add a new test



3 Click  to select the testcase which tester has configured





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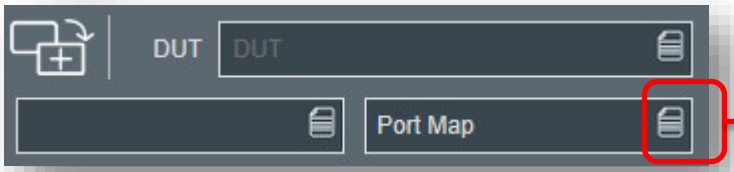
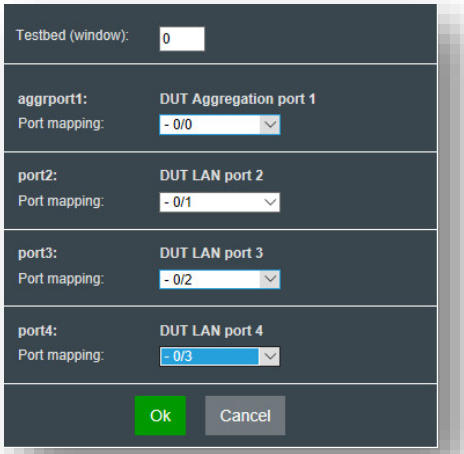
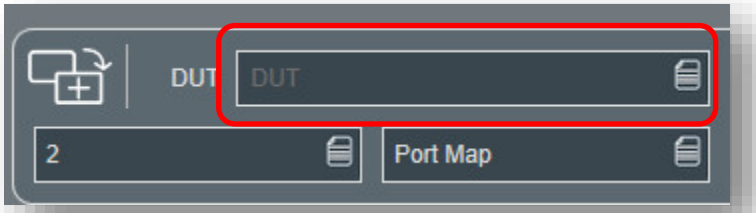
ADD TEST AND START

4 Click to select configure the port map



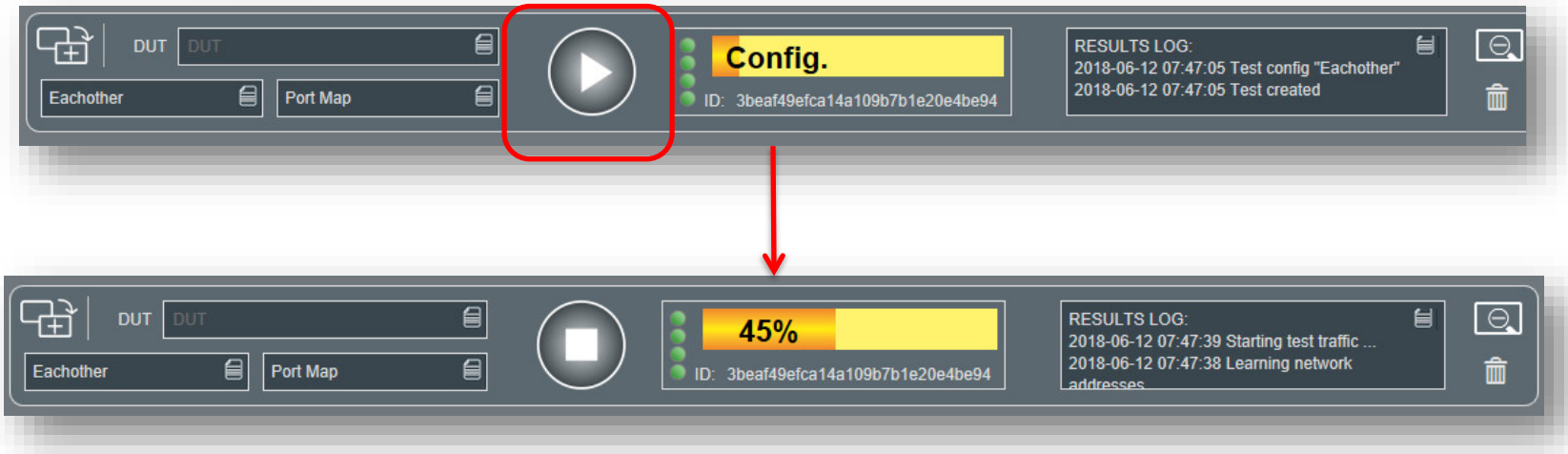


5 You could input the S/N of the DUT in the “DUT” pattern. If you enable “Enable MAC addrss detection for SN”, you don’t need to input the S/N, the program will input it automatically.



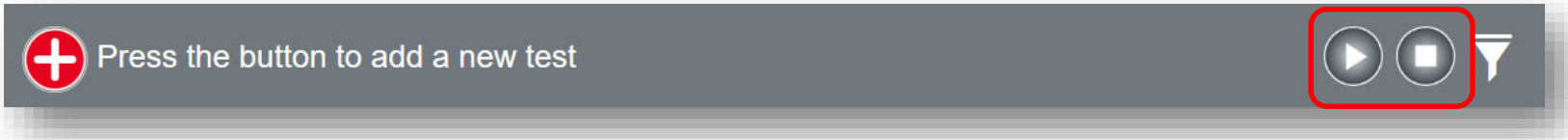
ADD TEST AND START

6 Click  start button to start the test



PS: You could also click the top “  ” button to start the whole test case.

Those two button are the global control of the whole test.

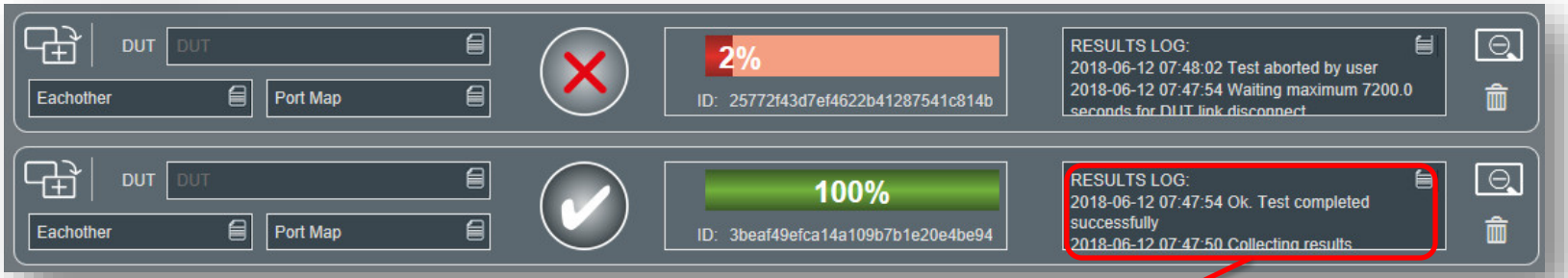


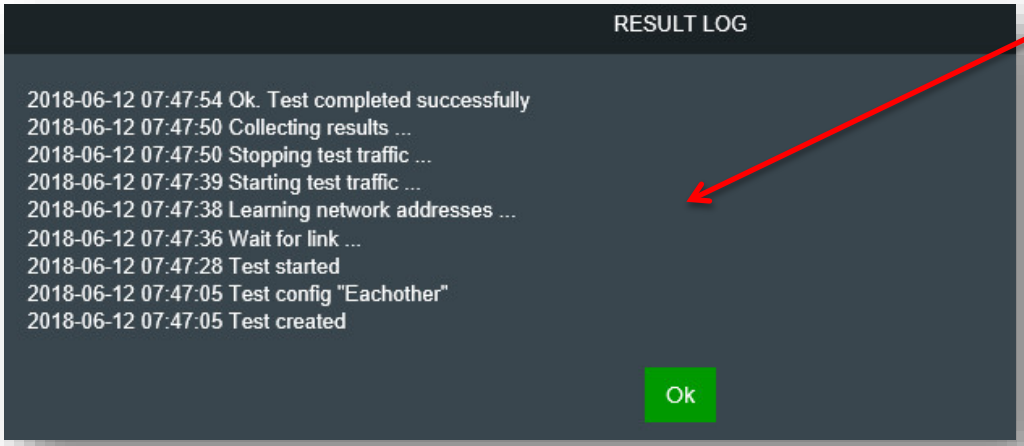
ADD TEST AND START

7 Test status

This icon means the test failed

This icon means the test passed





7 Results Log

Customer could click this area to check the log information about the test.

TEST WINDOWS AND FILTERS

Testbed windows: User could set different number of test window on the UI page.

Hide successfully completed tests: Hide all the successful test, only display the failed ones.

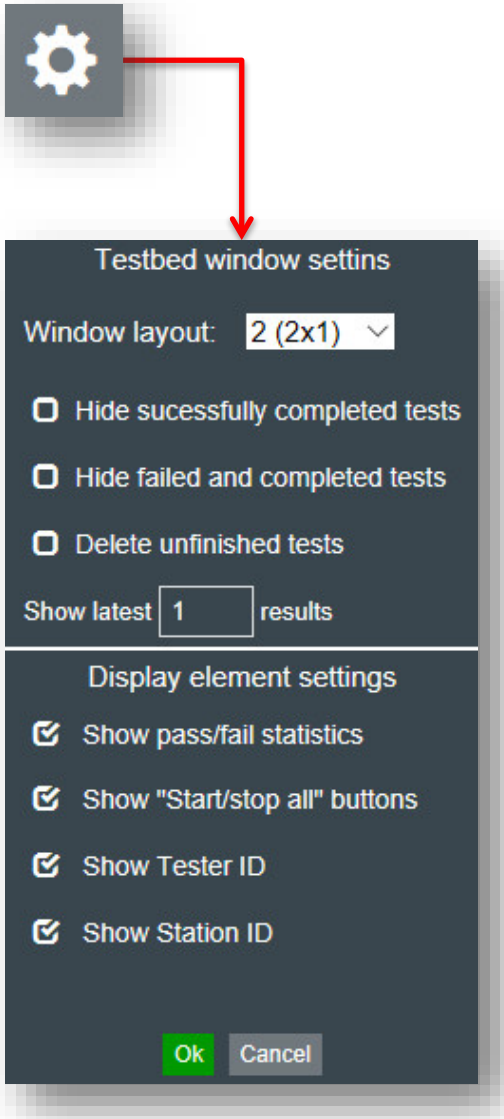
Hide failed and completed tests: Hide all the failed test, only display the success ones.

Delete unfinished test: Delete all the test which is unfinished.

Show latest x results: Only display the latest x tests

Show pass/fail statistics: Display the global test statistics of pass and fail.

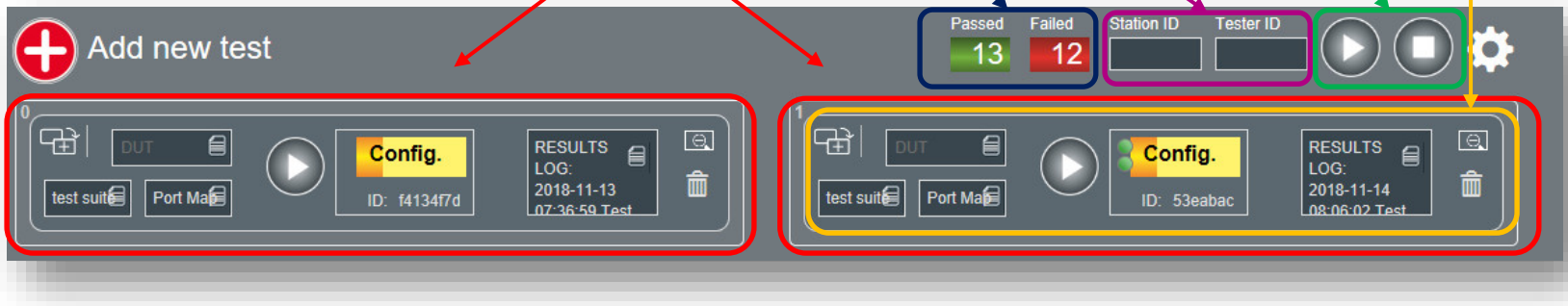
Show “Start/stop all” button: Customer could hide the “Start/stop all” button



TEST WINDOWS AND FILTERS

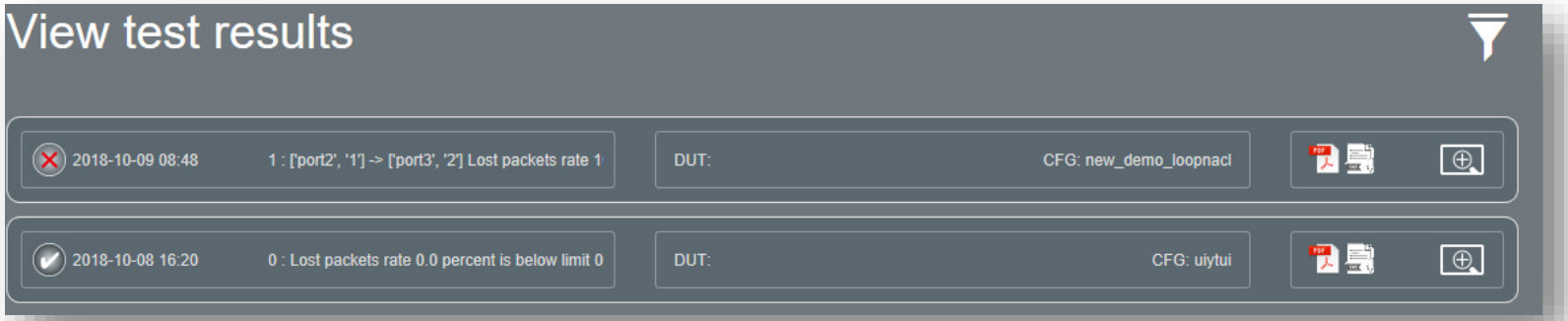
Example：

- Set “Windows layout” into “2(2x1)”
- set “Show last * result ” into “1”
- Enable “Show “Start/stop all” button”
- Enable “Show Tester ID”
- Enable “Show Station ID”
- Enable “Show pass/fail statistics”



TEST RESULT

Click  to enter the “View test Result” page



 This icon indicates that this test result is “failed”

 This icon indicates that this test result is “passed”

 Download the PDF test report

 Download the Text test report

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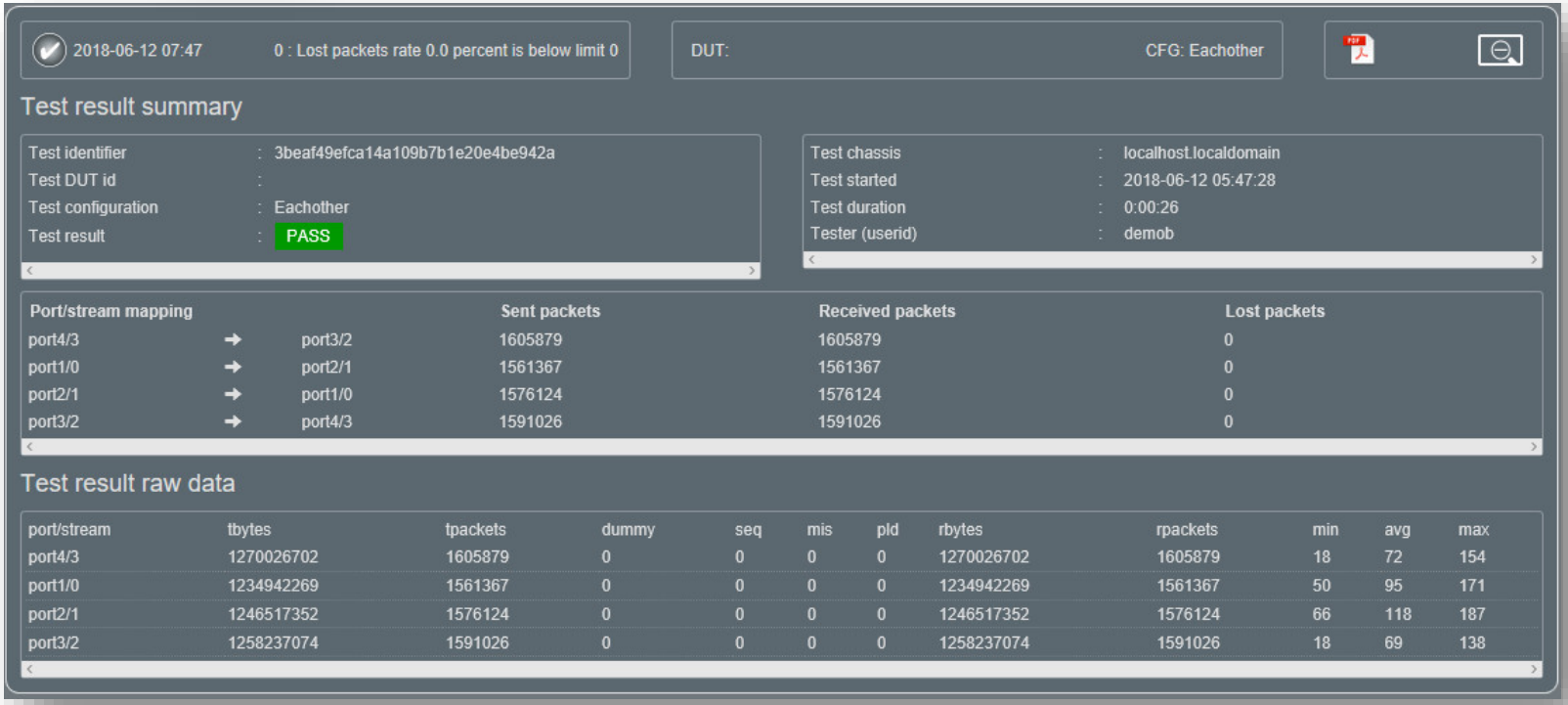
TEST RESULT

Click  to check the detail information about the test



2018-06-12 07:47 0 : Lost packets rate 0.0 percent is below limit 0

DUT: CFG: Eachother

Test result summary

Test identifier	:	3beaf49efca14a109b7b1e20e4be942a	Test chassis	:	localhost.localdomain
Test DUT id	:		Test started	:	2018-06-12 05:47:28
Test configuration	:	Eachother	Test duration	:	0:00:26
Test result	:	PASS	Tester (userid)	:	demob

Port/stream mapping			Sent packets	Received packets	Lost packets
port4/3	→	port3/2	1605879	1605879	0
port1/0	→	port2/1	1561367	1561367	0
port2/1	→	port1/0	1576124	1576124	0
port3/2	→	port4/3	1591026	1591026	0

Test result raw data

port/stream	tbytes	tpackets	dummy	seq	mis	pld	rbytes	rpackets	min	avg	max
port4/3	1270026702	1605879	0	0	0	0	1270026702	1605879	18	72	154
port1/0	1234942269	1561367	0	0	0	0	1234942269	1561367	50	95	171
port2/1	1246517352	1576124	0	0	0	0	1246517352	1576124	66	118	187
port3/2	1258237074	1591026	0	0	0	0	1258237074	1591026	18	69	138

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USER ADMINISTRATION

Click  **-> “User administration”**

1 **Enter the user’s name and click**  **to add a new user**

2 **Set the password of the user and click**  **button to ensure**

3 **Set user’s roles**

Test : User could login the “Test” interface and test
Config : User could login the “Configuration” interface, add and configure the Test configuration
Result : User could open and download the test result
Admin : User has Admin privileges

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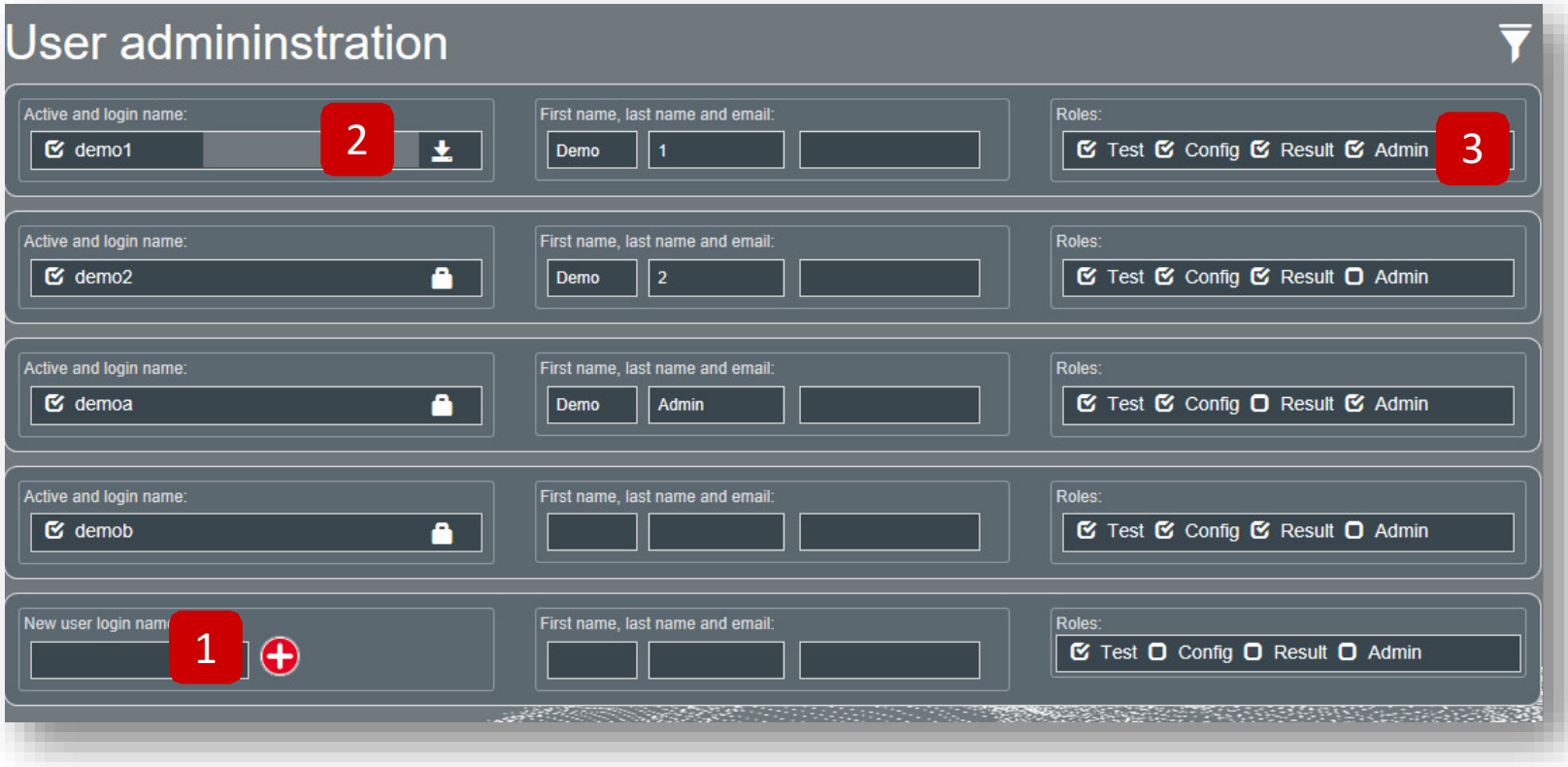
USER ADMINISTRATION



VANTAGE CHASSIS MANAGER

Visit the IP: "192.168.1.227:9393" to enter the Vantage Chassis Manager page.
The user name and password is "admin"

In this page, you could manage the version and the chassis IP address.

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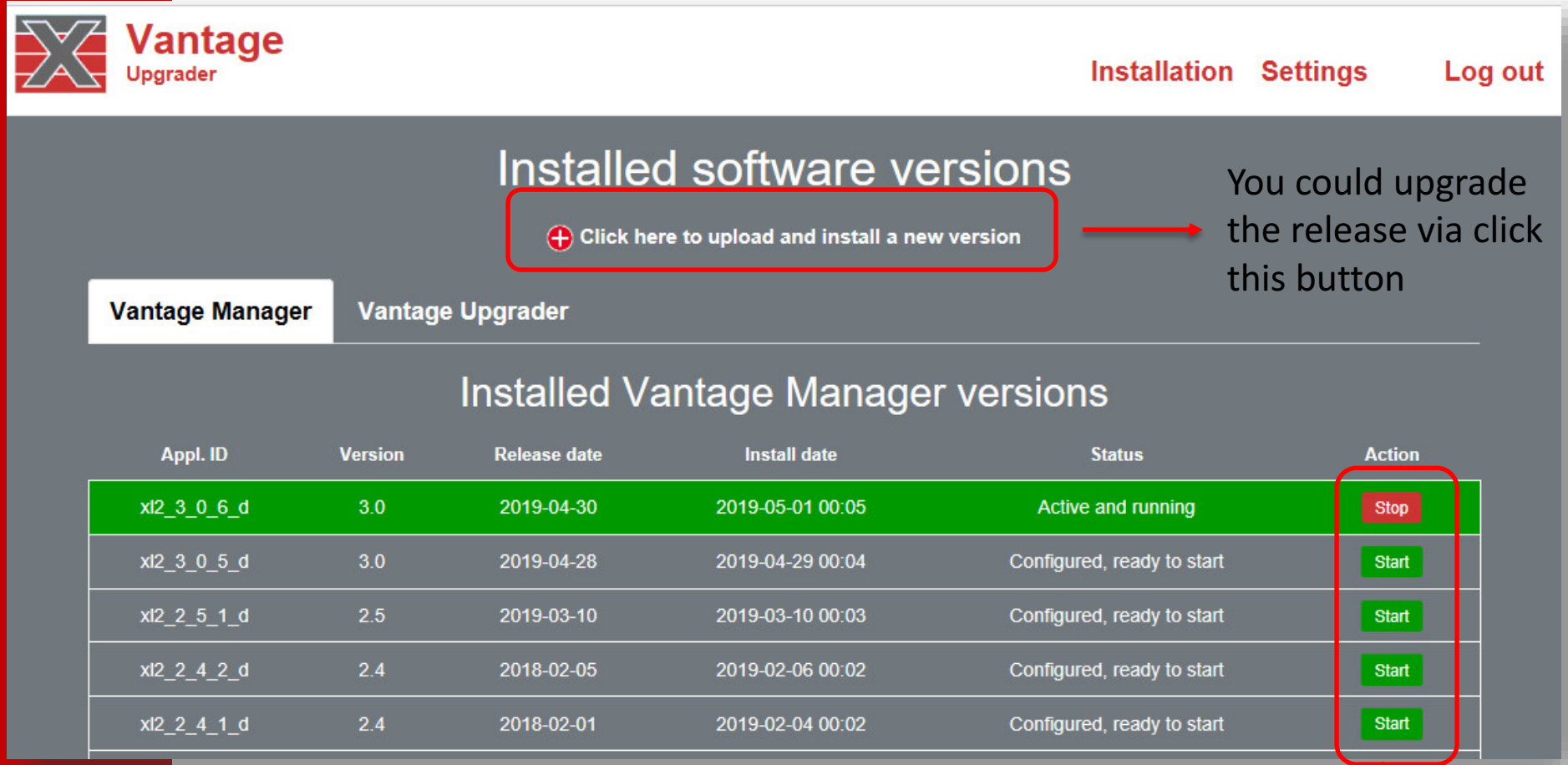
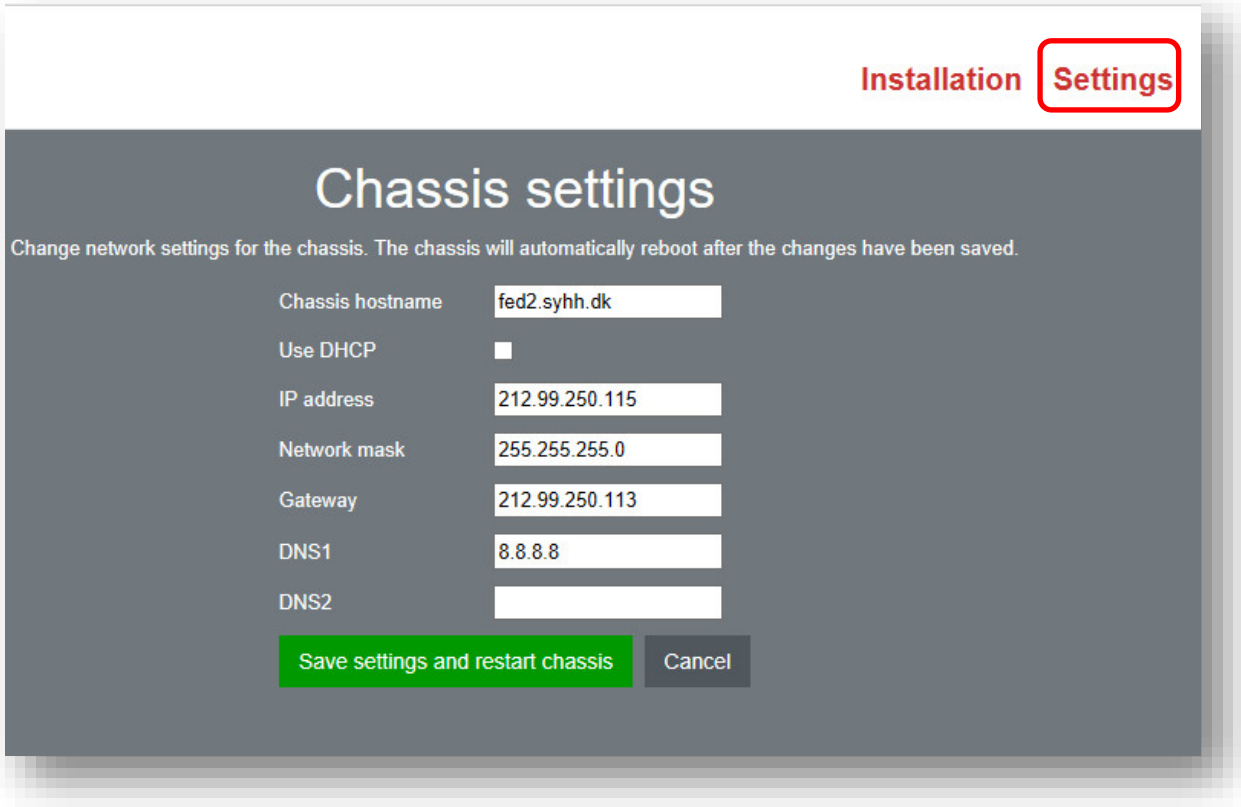
VANTAGE CHASSIS MANAGER



To enter the “Installation” page, you could manage the Vantage versions.

Of course you could downgrade or upgrade the version which you have installed into the chassis with “start/stop” action.

VANTAGE CHASSIS MANAGER



To enter the “Setting” page, you could manage the chassis ip address.

Modify the ip address and then click the “Save settings and restart chassis” button,
the chassis new ip address will active after the chassis reboot.

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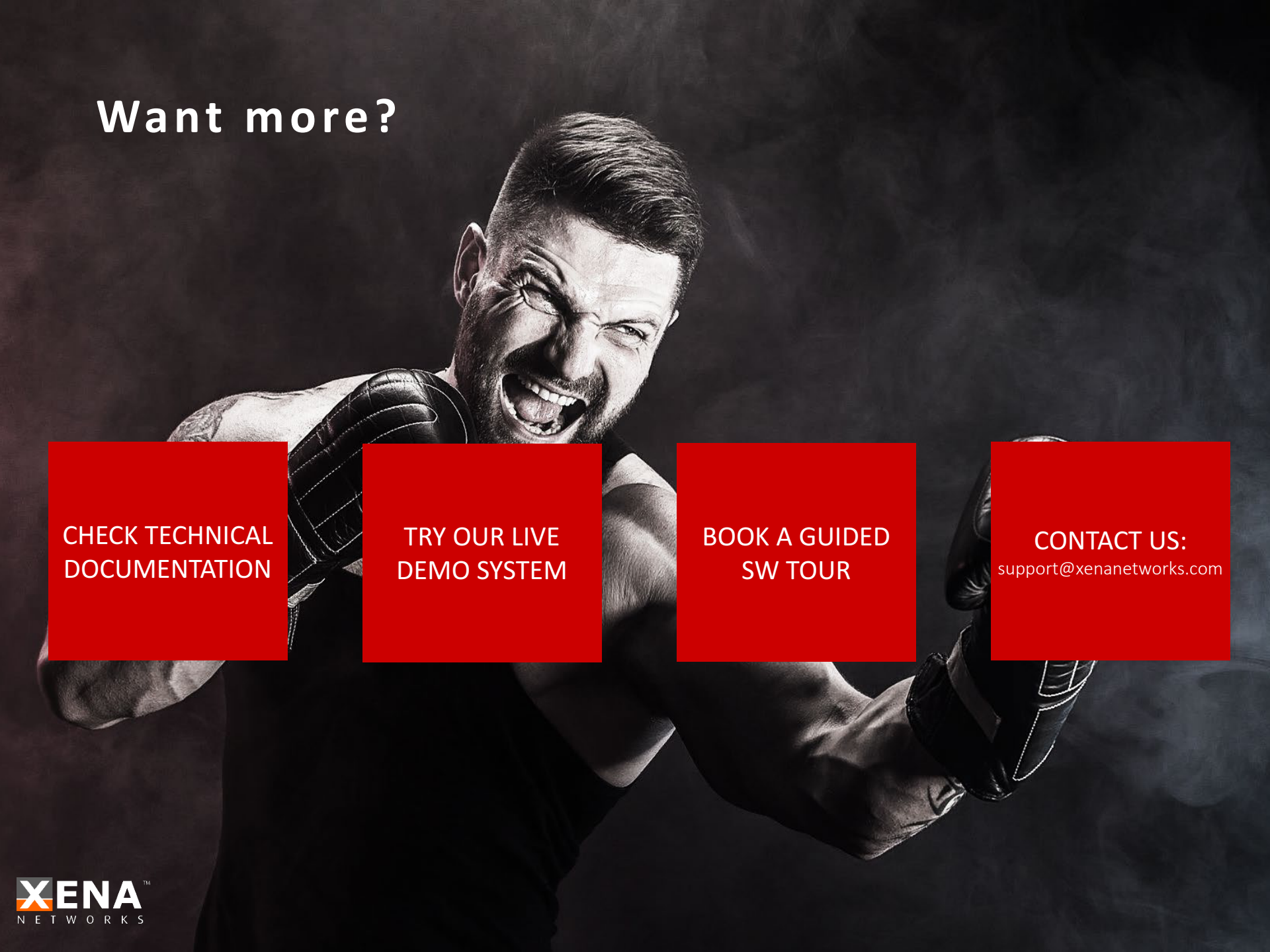
Want more?



CHECK TECHNICAL DOCUMENTATION

TRY OUR LIVE DEMO SYSTEM

BOOK A GUIDED SW TOUR

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support@xenanetworks.com

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