

VantageManager (v4.0)

A STEP-BY-STEP GUIDE

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Login

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 Configuration

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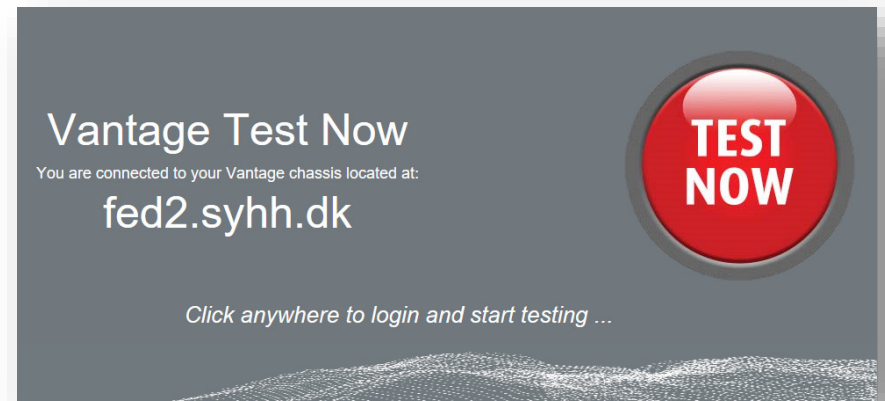
 Add Test and Start

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 Test Result

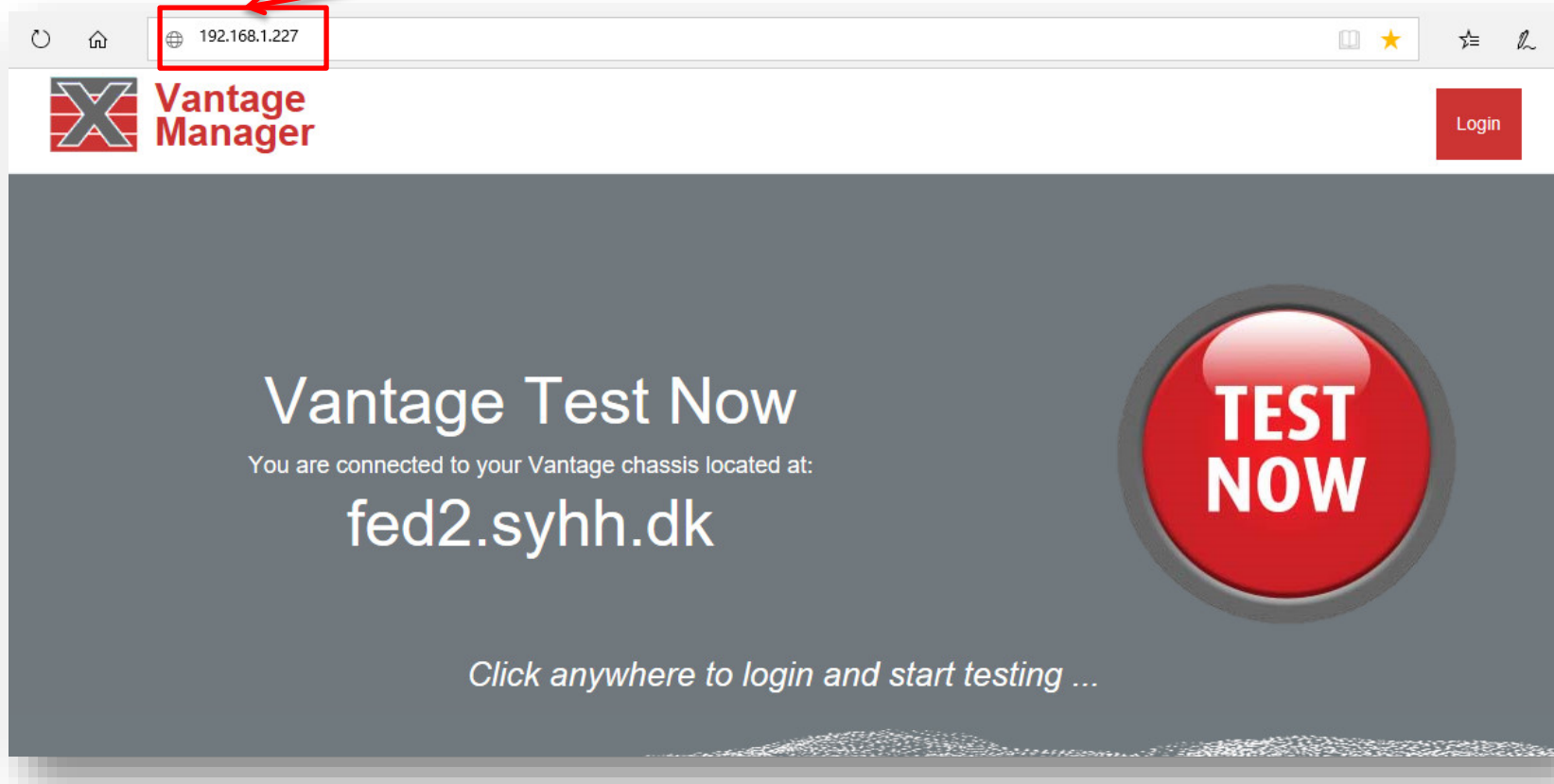
 User Administration

Change IP and upgrade



LOGIN

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

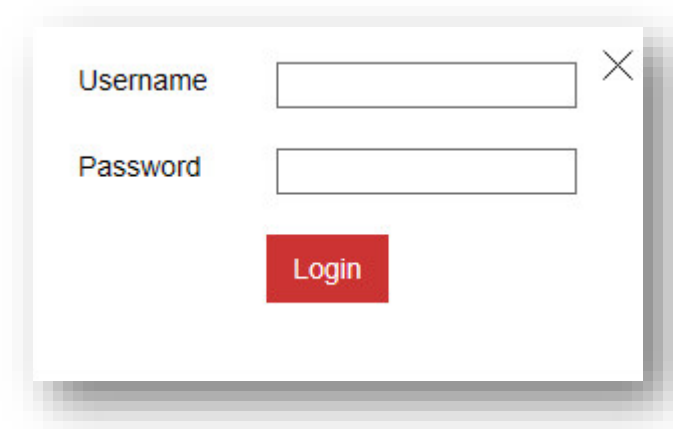


LOGIN

Enter the “Username” and the “Password”

Administrator User: demoa

Password:Xena2018


A login form window with a white background and a light gray border. It contains two input fields: "Username" and "Password". The "Username" field is a simple text box. The "Password" field is a text box with a small 'x' icon in the top right corner, indicating a password field. Below the input fields is a red button with the text "Login" in white. The window has a close button (an 'x' icon) in the top right corner.

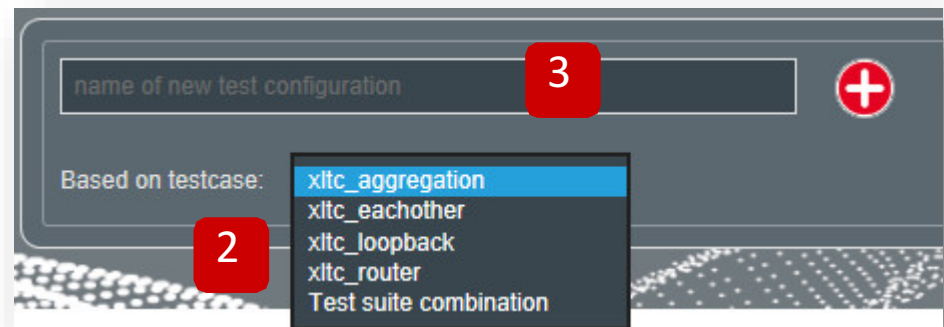
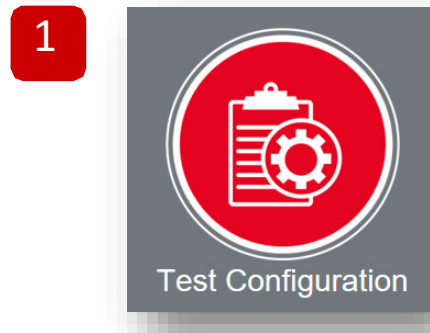
Username

Password

Login

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



CONFIGURATION

1



Click to spread out the Testcase configuration

2

Config the value of the testcase

loopback
Based on testcase: xltc_loopback

Loopback Test Configuration Std 1.2.2

1

loopback
Based on testcase: xltc_loopback

Loopback Test Configuration Std 1.2.2

2

Automatically clone test after delay. Use 0 to disable

0 seconds

Set Reset

Test execution time

5 seconds

Set Reset

Lost packets threshold - each port

0.1%

Set Reset

Timeout for link synchronization before sending first packets

120 seconds

Set Reset

Address learning time after sending first packets

1 seconds

Set Reset

Port and stream connection configuration

Port and stream flow mapping

DUT port #1 [SID=0] → DUT port #2 [SID=1]
DUT port #2 [SID=1] → DUT port #3 [SID=2]
DUT port #3 [SID=2] → DUT port #4 [SID=3]
DUT port #4 [SID=3] → DUT port #1 [SID=0]

Autoconfiguration

Number of ports :

LAN subnet (/24) :

VLAN number :

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 address 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.

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.

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).

Call sequence

Execution: In sequence ▾

# 0:	Loopback ▾
# 1:	Pon ▾
# 2:	Router ▾
# 3:	- select a configuration or a suite - ▾
# 4:	- select a configuration or a suite - ▾
# 5:	- select a configuration or a suite - ▾
# 6:	- select a configuration or a suite - ▾
# 7:	- select a configuration or a suite - ▾
# 8:	- select a configuration or a suite - ▾
# 9:	- select a configuration or a suite - ▾

Set

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.

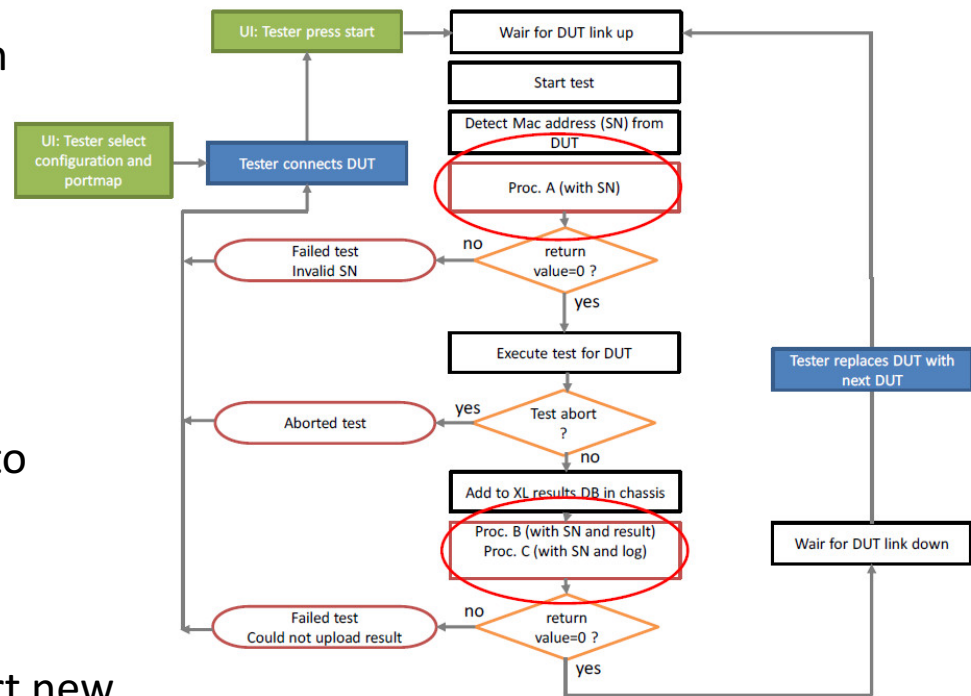


Figure 3. Sample tester workflow

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.

Config ID :	ae278a6e47cd4ec59d3f6ed9cdad6928		
Created by :	demoa on 2018-10-09 08:45		
Updated by :	on 2018-10-09 08:45		
<hr/>			
View	View the raw test configuration		
Download	Download the test configuration		
Upload	<input type="text"/>	Browse...	
Delete	Delete the test configuration		


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”

Test execution time

5 5 seconds

Set Reset 












Display element settings

☒ Show port config in tabbed view

Ok Cancel

Port and stream configuration

All ports Port config Stream address config Stream packet config Save configuration

	Port	IP address 	Mask	Gateway	Speed 	BroadR-Reach 
DUT WAN port 1	DUT WAN port 1	192.168.5.1	255.255.255.0	192.168.5.1	default 	default 
DUT LAN port 2	DUT LAN port 2	192.168.4.2	255.255.255.0	192.168.4.1	default 	default 
DUT LAN port 3	DUT LAN port 3	192.168.4.3	255.255.255.0	192.168.4.1	default 	default 
DUT LAN port 4	DUT LAN port 4	192.168.4.4	255.255.255.0	192.168.4.1	default 	default 

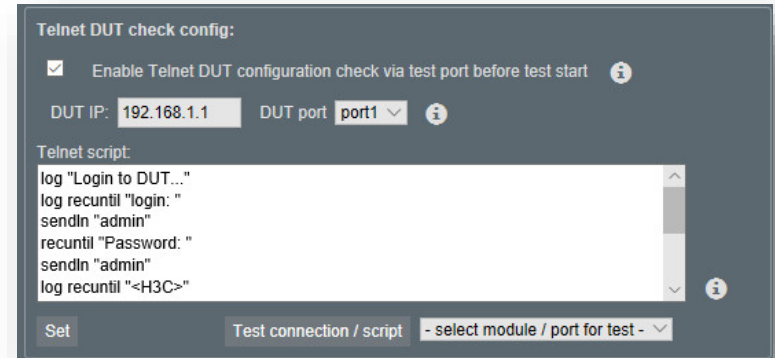
Save configuration

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.

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 expressions.

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

Rescan ports

Click 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.

Test port information

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

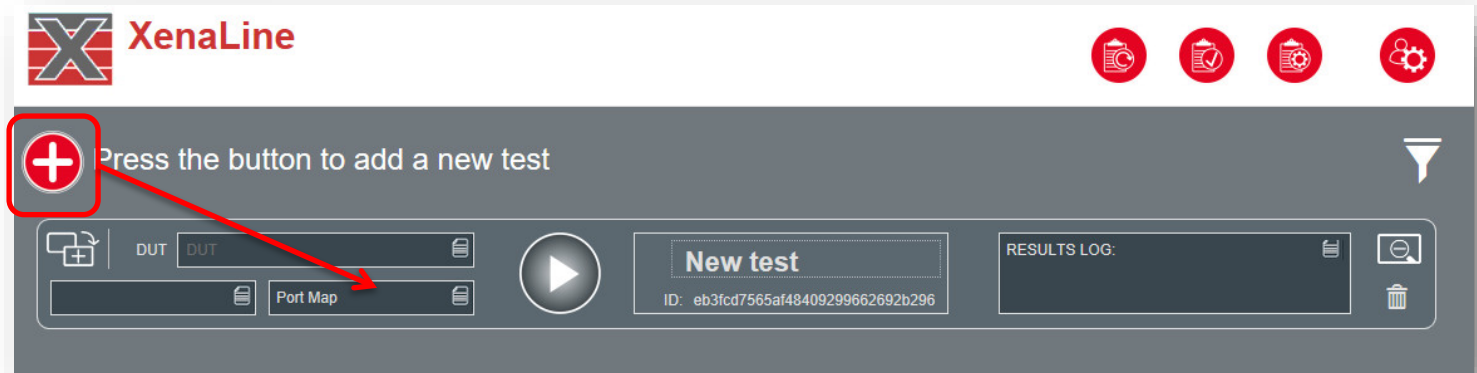
Rescan ports

Chassis	Module	Port	Status	Reserved	Link	Port information
127.0.0.1	0	0	online	demoa	up	"SFP-E 10/100/1000M [Triple] [Auto]"
127.0.0.1	0	1	online	demoa	up	"SFP-E 10/100/1000M [Triple] [Auto]"
127.0.0.1	0	2	online	free	up	"SFP-E 10/100/1000M [Triple] [Auto]"
127.0.0.1	0	3	online	demo1	up	"SFP-E 10/100/1000M [Triple] [Auto]"
127.0.0.1	0	4	online	demo2	down	"SFP empty cage"
127.0.0.1	0	5	online	demoa	down	"SFP empty cage"
127.0.0.1	2	1	online	free	down	"SFP empty cage"
127.0.0.1	2	3	online	free	down	"SFP empty cage"
127.0.0.1	2	4	online	free	down	"SFP empty cage"
127.0.0.1	2	5	online	free	down	"SFP empty cage"
127.0.0.1	4	0	online	free	down	"SFP empty cage"
127.0.0.1	4	1	online	free	down	"SFP empty cage"
127.0.0.1	4	2	online	free	down	"SFP-O SR 850 nm"
127.0.0.1	4	3	online	free	down	"SFP-O SR 850 nm"

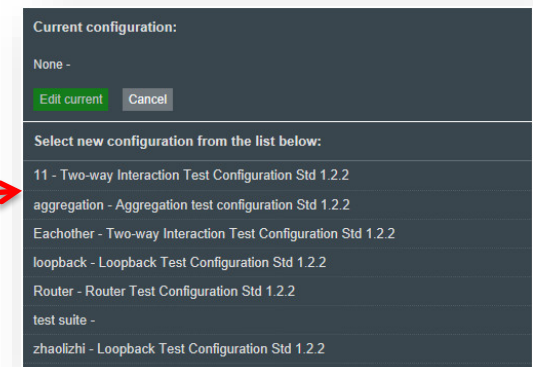
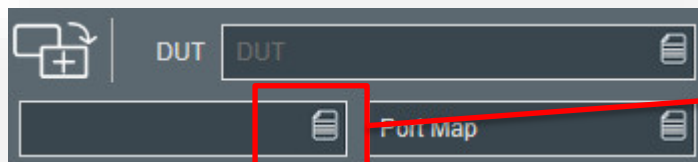
ADD TEST AND START

1 Click  and enter Test page

2 Click  to add a new test

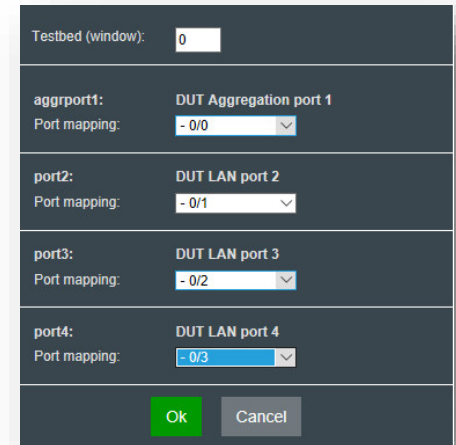


3 Click  to select the testcase which tester has configured



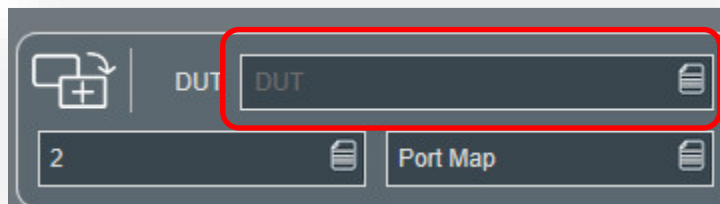
ADD TEST AND START

4 Click  to select configure the port map

The dialog box is titled 'Testbed (window):' and contains several configuration options. It has a 'Testbed (window):' field with the value '0'. Below this are four port configuration sections: 'aggrport1: DUT Aggregation port 1' with 'Port mapping: - 0/0', 'port2: DUT LAN port 2' with 'Port mapping: - 0/1', 'port3: DUT LAN port 3' with 'Port mapping: - 0/2', and 'port4: DUT LAN port 4' with 'Port mapping: - 0/3'. At the bottom are 'Ok' and 'Cancel' buttons.

Testbed (window):	0
aggrport1:	DUT Aggregation port 1
Port mapping:	- 0/0
port2:	DUT LAN port 2
Port mapping:	- 0/1
port3:	DUT LAN port 3
Port mapping:	- 0/2
port4:	DUT LAN port 4
Port mapping:	- 0/3
<input type="button" value="Ok"/> <input type="button" value="Cancel"/>	

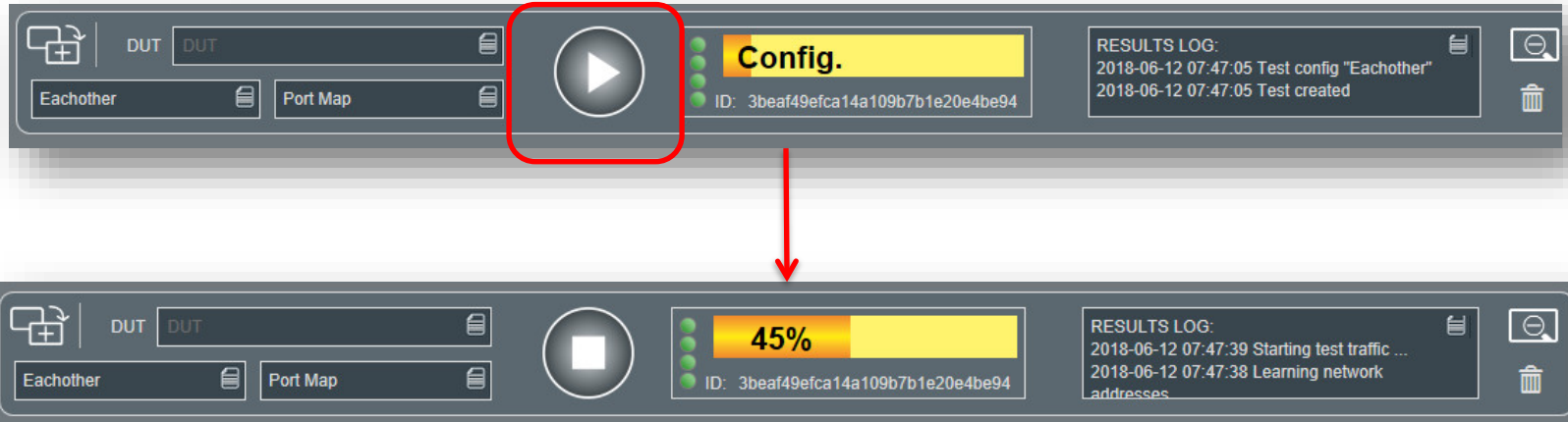
5 You could input the S/N of the DUT in the “DUT” pattern. If you enable “Enable MAC address detection for SN”, you don’t need to input the S/N, the program will input it automatically.



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.

 Press the button to add a new test



ADD TEST AND START

7 Test status



This icon means the test failed



This icon means the test passed

The screenshot shows a list of test entries. Each entry includes a DUT selection, a status icon, a progress bar, an ID, and a 'RESULTS LOG' button. The top entry is failed (2% progress, red X icon) and the bottom entry is passed (100% progress, green checkmark icon). A red box highlights the 'RESULTS LOG' for the passed test, with a red arrow pointing to the expanded log below.

RESULT LOG

- 2018-06-12 07:47:54 Ok. Test completed successfully
- 2018-06-12 07:47:50 Collecting results ...
- 2018-06-12 07:47:50 Stopping test traffic ...
- 2018-06-12 07:47:39 Starting test traffic ...
- 2018-06-12 07:47:38 Learning network addresses ...
- 2018-06-12 07:47:36 Wait for link ...
- 2018-06-12 07:47:28 Test started
- 2018-06-12 07:47:05 Test config "Eachother"
- 2018-06-12 07:47:05 Test created

OK

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:

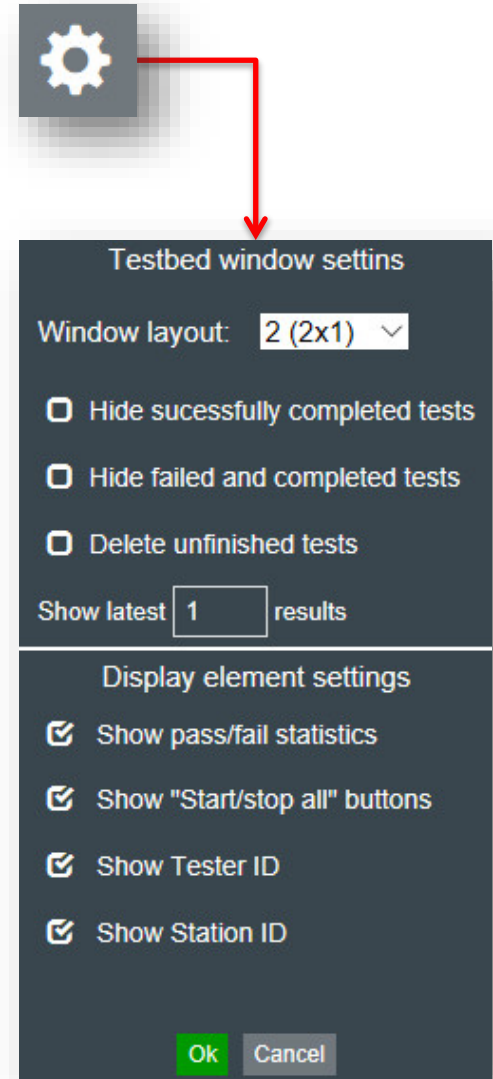
Hide all the failed test, only display the success ones.

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



Testbed window settings

Window layout: 2 (2x1) ▾

☐ Hide successfully completed tests

☐ Hide failed and completed tests

☐ Delete unfinished tests

Show latest 1 results

Display element settings

☒ Show pass/fail statistics

☒ Show "Start/stop all" buttons

☒ Show Tester ID

☒ Show Station ID

Ok Cancel


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

View test results 

 2018-10-09 08:48	1 : [port2, '1'] -> [port3, '2'] Lost packets rate 1	DUT:	CFG: new_demo_loopnaci	  
 2018-10-08 16:20	0 : Lost packets rate 0.0 percent is below limit 0	DUT:	CFG: uiytui	  



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

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 DUT id :

Test configuration : Eachother

Test result : **PASS**

Test chassis : localhost.localdomain

Test started : 2018-06-12 05:47:28

Test duration : 0:00:26

Tester (userid) : demob

Port/stream mapping

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

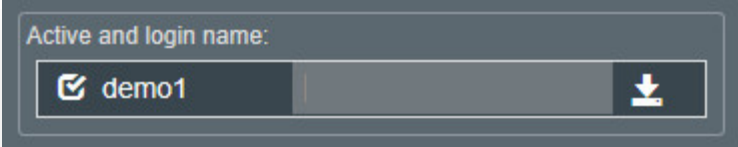
port/stream	tbytes	tpackets	dummy	seq	mis	pld	rbytes	rpackets	min	avg	max
port4/3	1270026702	1605879	0	0	0	0	1270026702	1605879	18	72	154
port1/0	1234942269	1561367	0	0	0	0	1234942269	1561367	50	95	171
port2/1	1246517352	1576124	0	0	0	0	1246517352	1576124	66	118	187
port3/2	1258237074	1591026	0	0	0	0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

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


USER ADMINISTRATION

User administration

Active and login name:
☒ demo1 2 


First name, last name and email:

Roles:
☒ Test ☒ Config ☒ Result ☒ Admin 3

Active and login name:
☒ demo2 


First name, last name and email:

Roles:
☒ Test ☒ Config ☒ Result ☐ Admin

Active and login name:
☒ demoa 


First name, last name and email:

Roles:
☒ Test ☒ Config ☐ Result ☒ Admin

Active and login name:
☒ demob 

First name, last name and email:

Roles:
☒ Test ☒ Config ☒ Result ☐ Admin

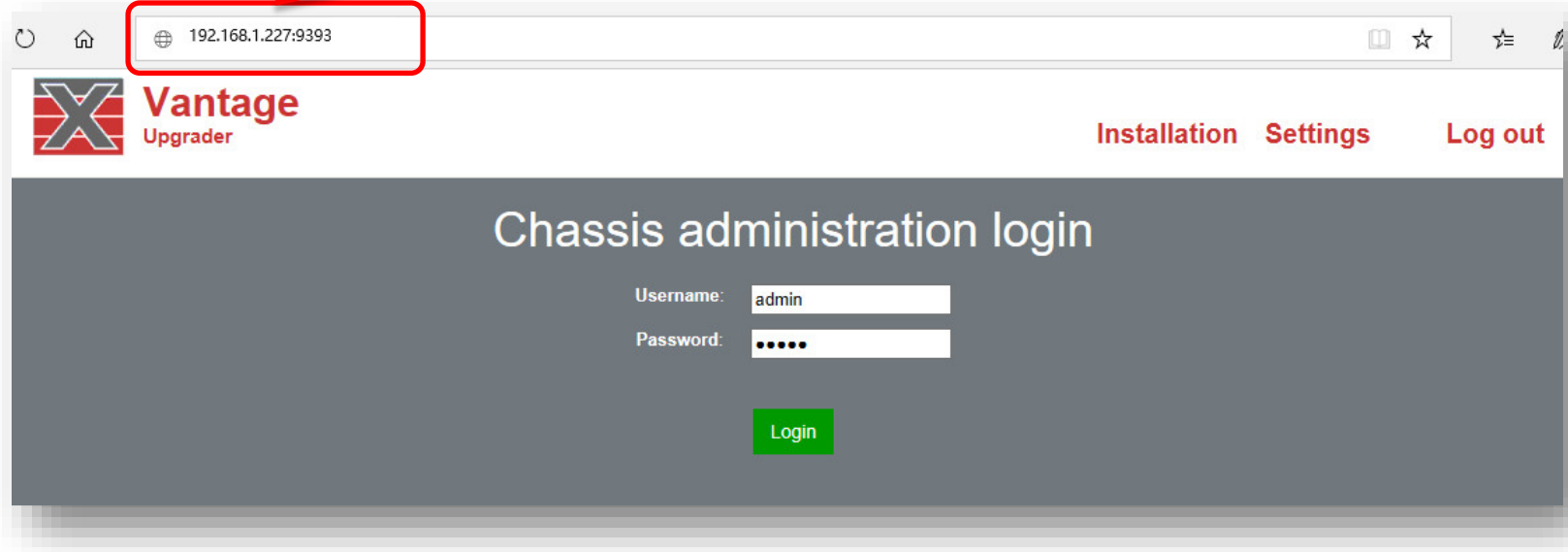
New user login name:
 1 

First name, last name and email:

Roles:
☒ Test ☐ Config ☐ Result ☐ Admin

VANTAGE CHASSIS MANAGER

Input “:9393” which follow the chassis IP address



192.168.1.227:9393

Vantage
Upgrader

Installation Settings Log out

Chassis administration login

Username: admin

Password:

Login

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.

VANTAGE CHASSIS MANAGER



Vantage
Upgrader

Installation

Settings

Log out

Installed software versions






 Click here to upload and install a new version

You could upgrade the release via click this button

Vantage Manager

Vantage Upgrader

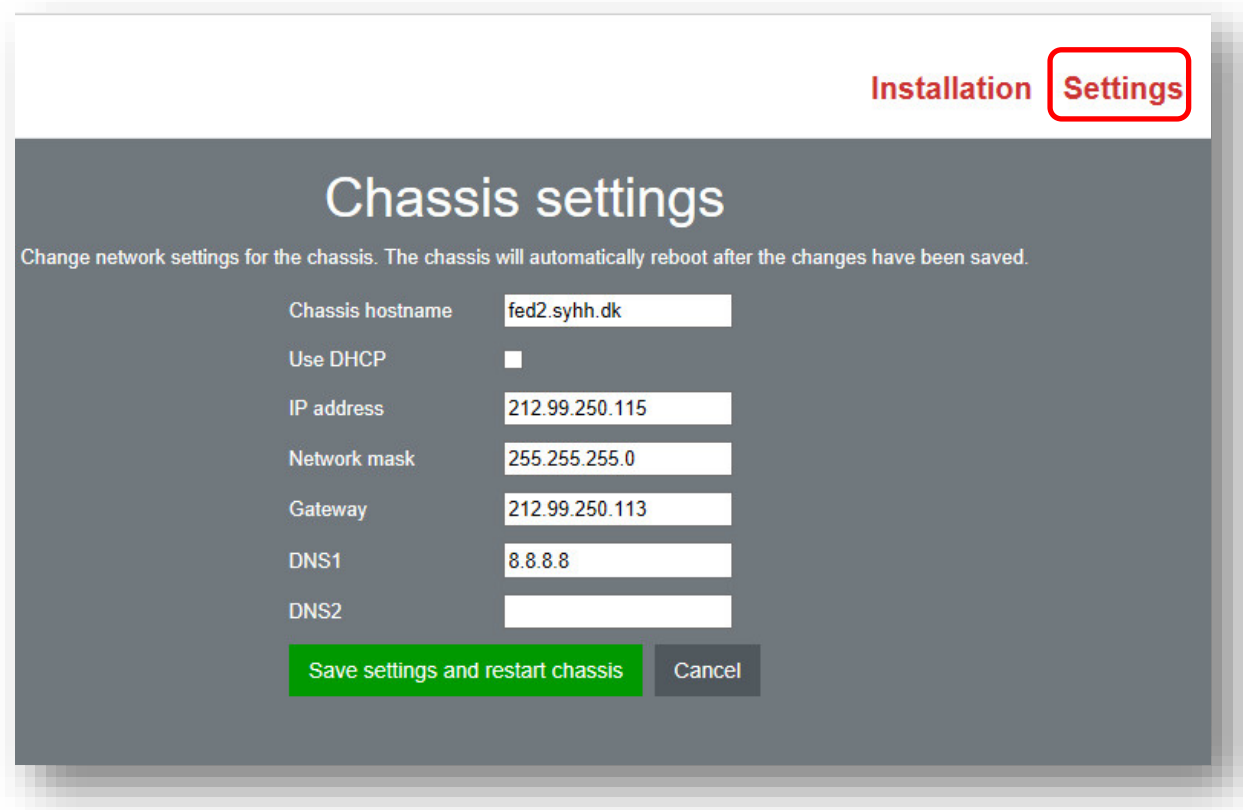
Installed Vantage Manager versions

Appl. ID	Version	Release date	Install date	Status	Action
xl2_3_0_6_d	3.0	2019-04-30	2019-05-01 00:05	Active and running	
xl2_3_0_5_d	3.0	2019-04-28	2019-04-29 00:04	Configured, ready to start	
xl2_2_5_1_d	2.5	2019-03-10	2019-03-10 00:03	Configured, ready to start	
xl2_2_4_2_d	2.4	2018-02-05	2019-02-06 00:02	Configured, ready to start	
xl2_2_4_1_d	2.4	2018-02-01	2019-02-04 00:02	Configured, ready to start	

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



The screenshot shows the 'Settings' tab of the Vantage Chassis Manager. The page title is 'Chassis settings'. Below the title, a message states: 'Change network settings for the chassis. The chassis will automatically reboot after the changes have been saved.' The settings are organized into a table with labels on the left and input fields on the right. The settings include: Chassis hostname (fed2.syhh.dk), Use DHCP (unchecked), IP address (212.99.250.115), Network mask (255.255.255.0), Gateway (212.99.250.113), DNS1 (8.8.8.8), and DNS2 (empty). At the bottom, there are two buttons: 'Save settings and restart chassis' (green) and 'Cancel' (grey).

Label	Value
Chassis hostname	fed2.syhh.dk
Use DHCP	<input type="checkbox"/>
IP address	212.99.250.115
Network mask	255.255.255.0
Gateway	212.99.250.113
DNS1	8.8.8.8
DNS2	

Buttons: Save settings and restart chassis, Cancel

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.

A man in boxing gear, including gloves and a dark shirt, is shown from the chest up. He has a determined, shouting expression with his mouth wide open and eyes squinted. He is wearing black boxing gloves with white stitching. The background is dark and smoky.

Want more?

CHECK TECHNICAL
DOCUMENTATION

TRY OUR LIVE
DEMO SYSTEM

BOOK A GUIDED
SW TOUR

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support@xenanetworks.com