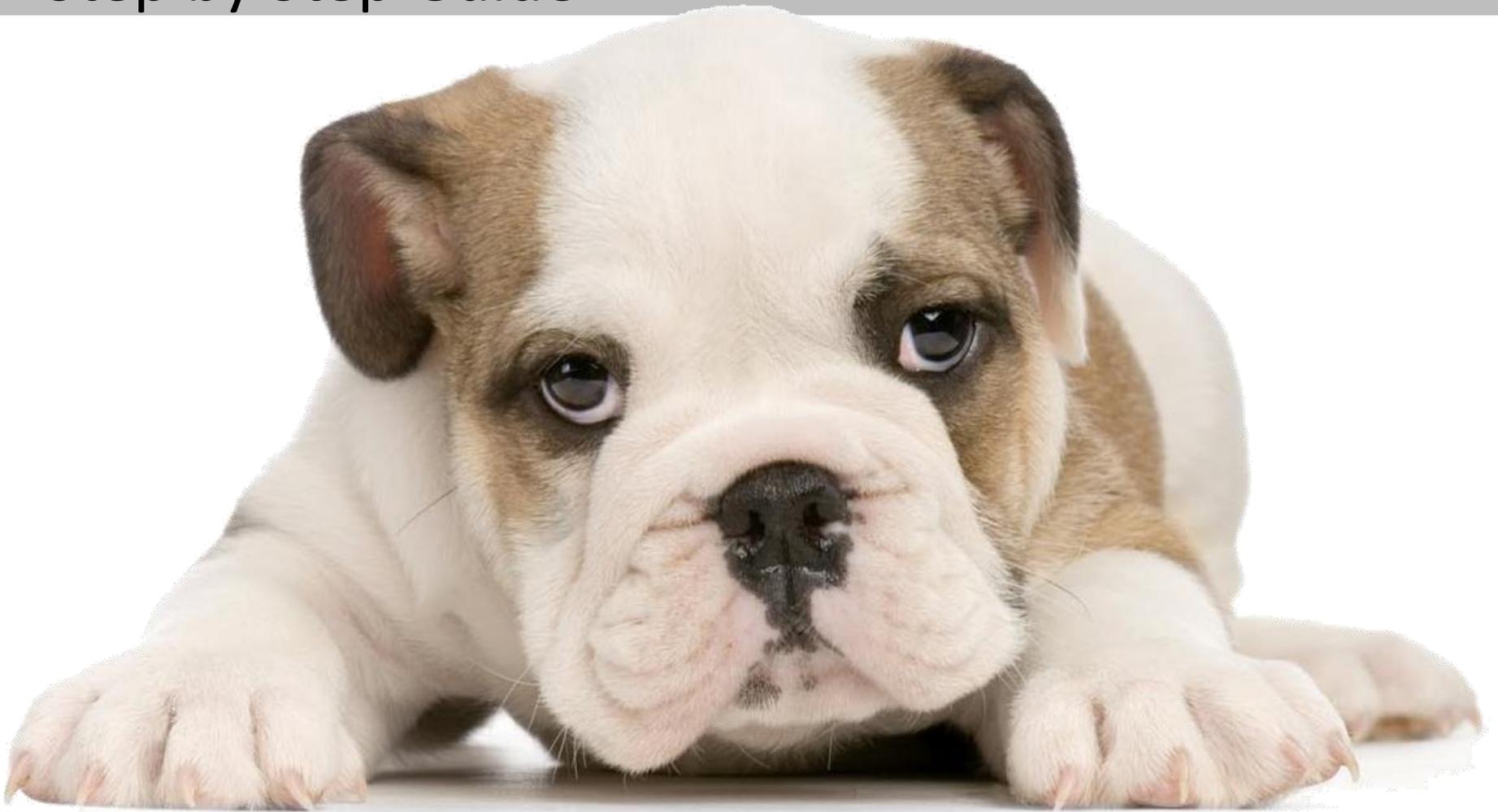




VantageManager^(v4.0)

Step by Step Guide





Login

Login

Add Test Configuration



Configuration



Telnet feature



Reserved Ports



Add Test and Start



Test Window and Filter

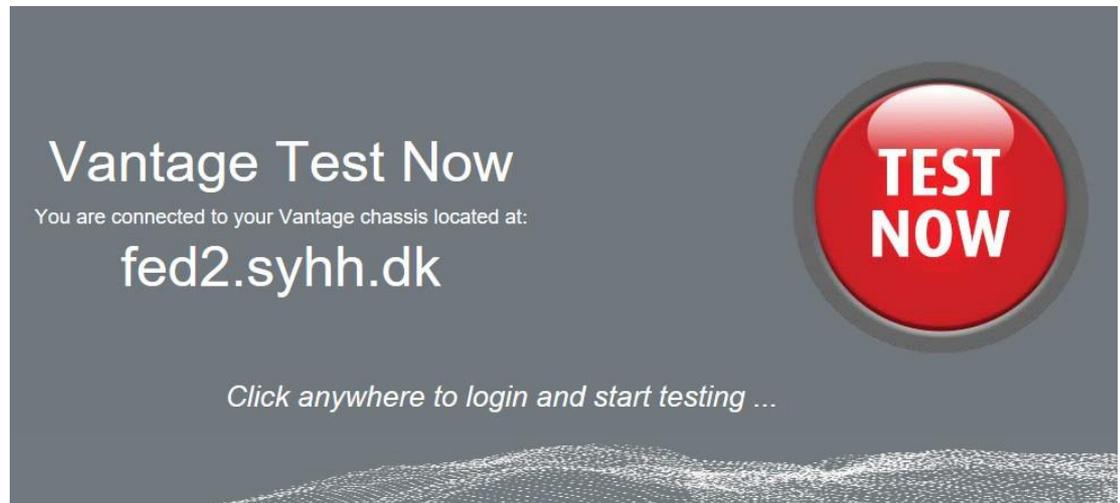


Test Result



User Administration

Change IP and upgrade





192.168.1.227



Login

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

Vantage Test Now

You are connected to your Vantage chassis located at:

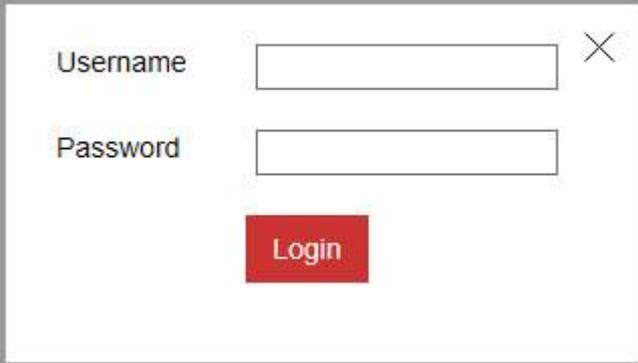
fed2.syhh.dk



Click anywhere to login and start testing ...

Enter the administrator “Username” and
“Password”

User: demoa
Password: Xena2018



A login form with a white background and a grey border. It contains two input fields: "Username" and "Password". Below the fields is a red "Login" button. A close button (X) is located in the top right corner of the form.

Username	<input type="text"/>	×
Password	<input type="password"/>	
<input type="button" value="Login"/>		

Add Test Configuration

1 Click “Test Configuration” on the Test Configuration interface

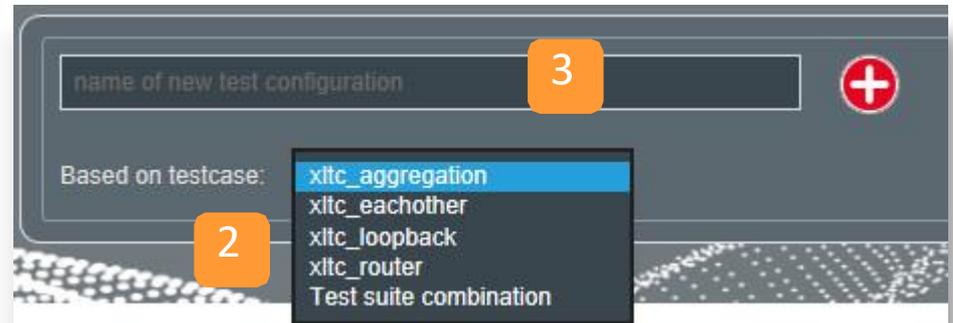
2 Select the testcase template and click  to add a new configuration

3 Enter the name of new test configuration

1



2



3



Configuration

1 Click  to expand the Testcase configuration

2 Configure the values 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 

Lost packets threshold - each port
0.1%
Set Reset 

Address learning time after sending first packets
1 seconds
Set Reset 

Test execution time
5 seconds
Set Reset 

Timeout for link synchronization before sending first packets
120 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 : 



3 Testcase Properties

Column	Explanation
Automatically clone	When the program detects the selected port reconnecting, the test will automatically clone and start again. Set 0 to disable the feature.
Lost packets threshold	The threshold of lost packets per port. If the loss rate is over this value, the test result will return "Failed".
Autolearn time and MAC detection	The max time of the MAC learning. If enabled the "Enable MAC address detection for SN", the program will detect the DUT's MAC address as a Serial 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 time out, the test will fail. Port(s) to await: The program will detect the link sync of the selection if "Automatically clone" is enabled.
Port and stream connection configuration	The port and stream follow the 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 of the IP packet. Allows customer to define the SRC and DST IP address.
		TCP	Define the stream packet of the IP packet. Allows customer to define the SRC and DST port id.
		UDP	Define the stream packet of the UDP packet. Allows customer to define the SRC and DST port id.
		-	Define the stream packet of the 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.	



4 Test Suite combination

Test Suite combination is a special test case which allows the customer to make a list of test cases into one test. The customer can select the previously defined test case and add it into the list. The program will start the test case in sequence (parallel).

Call sequence

Execution:

# 0:	<input type="text" value="Loopback"/>	▼
# 1:	<input type="text" value="Pon"/>	▼
# 2:	<input type="text" value="Router"/>	▼
# 3:	<input type="text" value="- select a configuration or a suite -"/>	▼
# 4:	<input type="text" value="- select a configuration or a suite -"/>	▼
# 5:	<input type="text" value="- select a configuration or a suite -"/>	▼
# 6:	<input type="text" value="- select a configuration or a suite -"/>	▼
# 7:	<input type="text" value="- select a configuration or a suite -"/>	▼
# 8:	<input type="text" value="- select a configuration or a suite -"/>	▼
# 9:	<input type="text" value="- select a configuration or a suite -"/>	▼



Configuration

5 What is "Automatically clone test"?

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

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

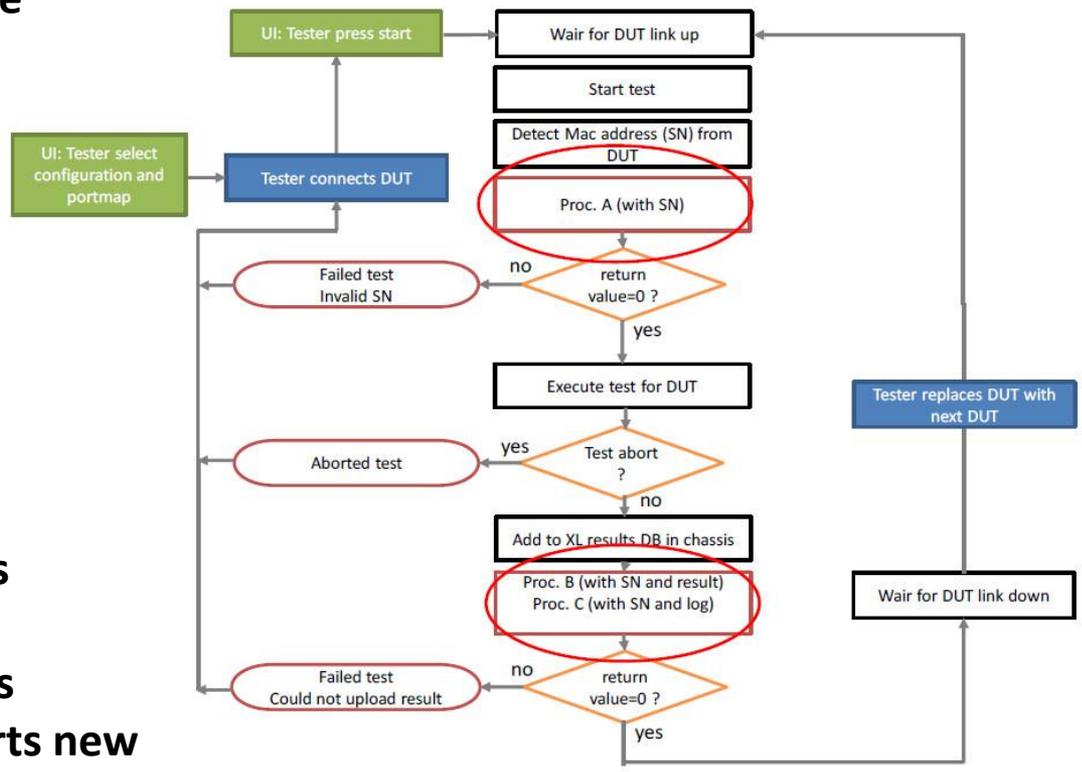


Figure 3. Sample tester workflow



6 Test cases save and download

View : View the raw test configuration.

Download : Download the test configuration to the manager PC.

Upload : Upload the test configuration from the manager 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

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 can double click the current value, then the slider will change to an input field
- Click  button, and the customer can change the display types regarding "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

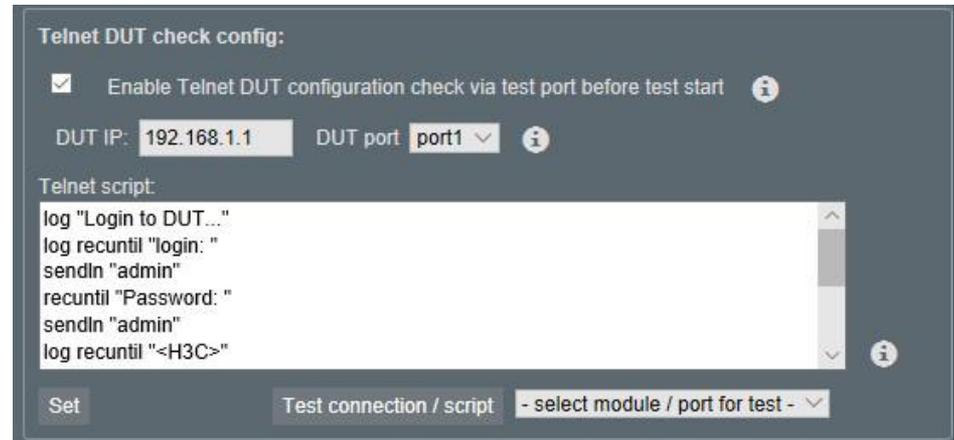
All ports	Port config	Stream address config	Stream packet config	Save configuration		
	Port	IP address 	Mask	Gateway	Speed 	BroadR-Reach 
DUT WAN port 1	DUT WAN port 1	192.168.5.1	255.255.255.0	192.168.5.1	default	default
DUT LAN port 2	DUT LAN port 2	192.168.4.2	255.255.255.0	192.168.4.1	default	default
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 is a great feature that simplifies the testing process and implements more advanced test scenarios.

What we can do with the 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 needs to test traffic in both GPON mode and EPON mode, you needed to test it in GPON mode first, then change it into EPON mode manually.

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

Alternatively, you could even telnet to the DUT to get the serial number instead of scanning the serial number manually.



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 specified string

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.



`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 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

The administrator can reserve the ports to different users. Each user can 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"



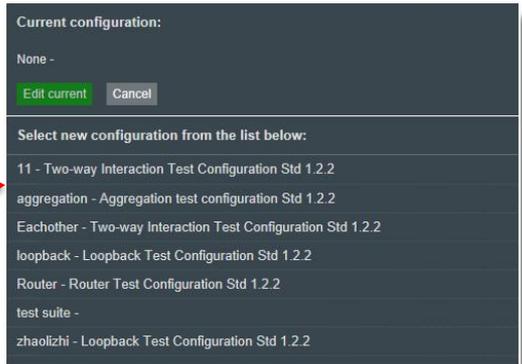
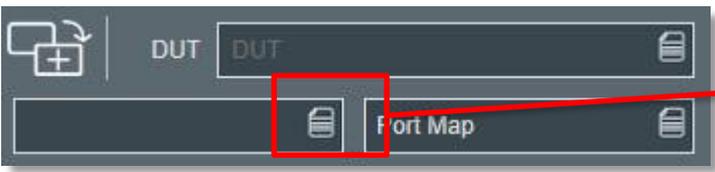
Add Test and Start

1 Click  and enter Test page

2 Click  to add a new test



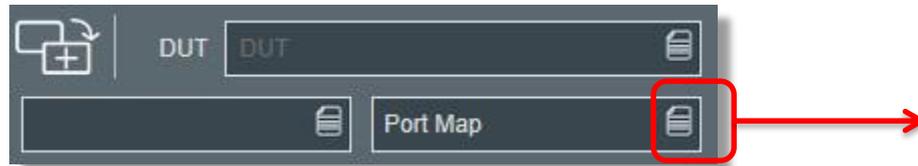
3 Click  to select the testcase which tester has configured





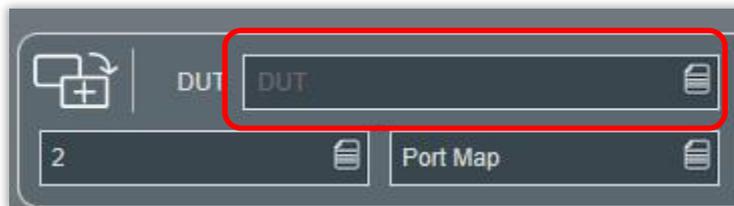
Add Test and Start

4 Click  to configure the port map



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





Add Test and Start

6 Click  start button to start the test



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

Those two buttons 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

The screenshot shows two test cards. The top card has a red 'X' icon, a 2% progress bar, and a log entry: '2018-06-12 07:48:02 Test aborted by user'. The bottom card has a green checkmark icon, a 100% progress bar, and a log entry: '2018-06-12 07:47:54 Ok. Test completed successfully'. A red box highlights the log for the passed test, and a red arrow points from it to the expanded log window 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

Click this area to check the information log about the test.



Test Windows and Filter

Testbed windows:

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

Hide successfully completed tests:

Hide all the successful tests, only display the failed ones.

Hide failed and completed tests:

Hide all the failed tests, only display the successful ones.

Delete unfinished test:

Delete all the tests which are unfinished.

Show latest x results:

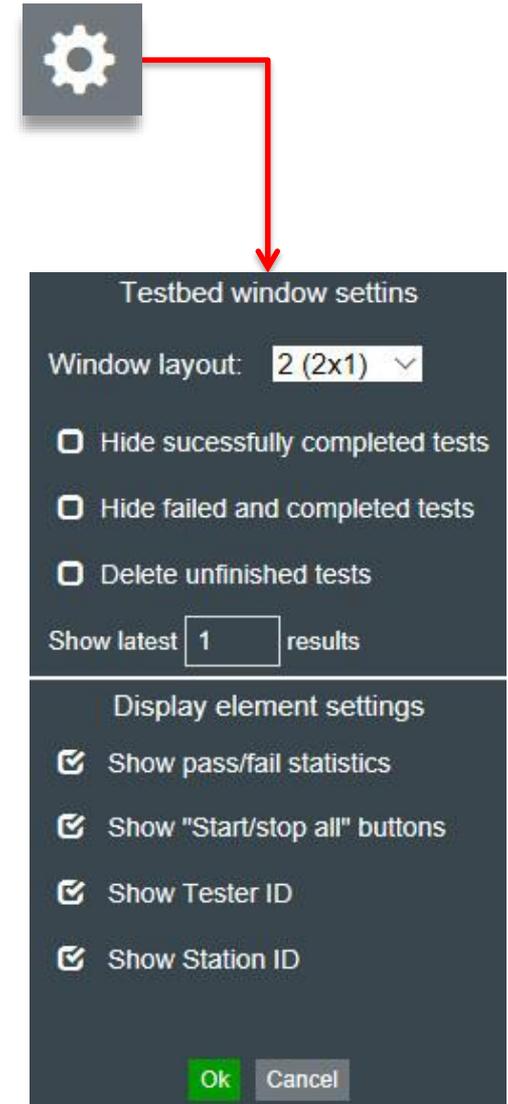
Only display the latest x tests

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 Filter

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”

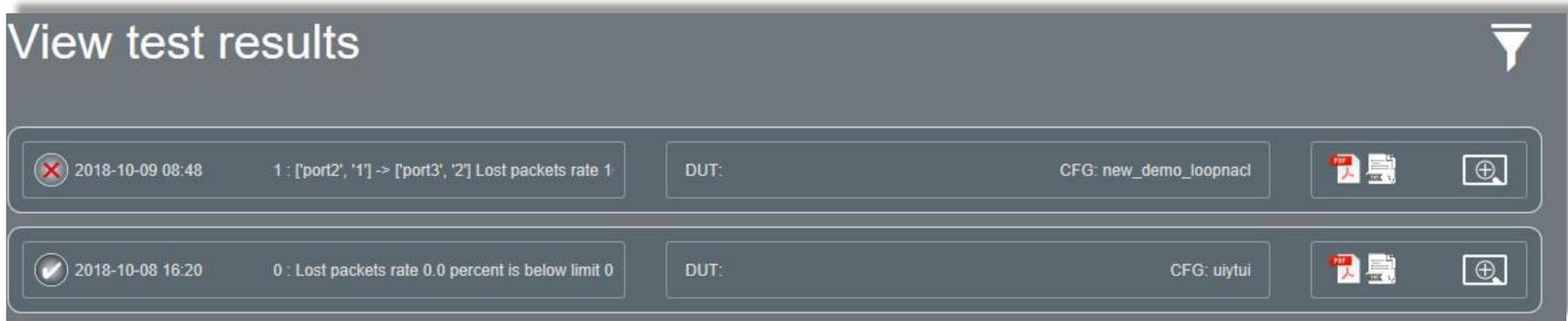
The screenshot shows a test management interface with two test windows (0 and 1) and a top control bar. The top bar includes a '+ Add new test' button, a 'Passed' counter (13), a 'Failed' counter (12), 'Station ID' and 'Tester ID' fields, and 'Start/stop all' buttons. The two test windows show details for test configurations with IDs f4134f7d and 53eabac, including test suite, port map, and results logs.

Passed	Failed	Station ID	Tester ID
13	12		

Test Window	Config ID	Test Suite	Port Map	Results Log
0	f4134f7d	test suite	Port Map	2018-11-13 07:36:59 Test
1	53eabac	test suite	Port Map	2018-11-14 08:06:02 Test

Click  to enter the “View test results” page

View test results



Date	Test Description	DUT	CFG	PDF Report	Text Report
2018-10-09 08:48	1 : [port2', '1'] -> [port3', '2'] Lost packets rate 1		CFG: new_demo_loopnacl		
2018-10-08 16:20	0 : Lost packets rate 0.0 percent is below limit 0		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



Click



to check the detailed 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

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



Active and login name:

demo1 

3 Set user’s roles

Test : User can login to the “Test” interface and test

Config : User can login to the “Configuration” interface, add and configure the Test configuration

Result : User can open and download the test result

Admin : User has Admin privileges



User administration



<p>Active and login name:</p> <input type="text" value="demo1"/>   2	<p>First name, last name and email:</p> <input type="text" value="Demo"/> <input type="text" value="1"/> <input type="text"/>	<p>Roles:</p> <input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Config <input checked="" type="checkbox"/> Result <input checked="" type="checkbox"/> Admin 3
<p>Active and login name:</p> <input type="text" value="demo2"/> 	<p>First name, last name and email:</p> <input type="text" value="Demo"/> <input type="text" value="2"/> <input type="text"/>	<p>Roles:</p> <input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Config <input checked="" type="checkbox"/> Result <input type="checkbox"/> Admin
<p>Active and login name:</p> <input type="text" value="demoa"/> 	<p>First name, last name and email:</p> <input type="text" value="Demo"/> <input type="text" value="Admin"/> <input type="text"/>	<p>Roles:</p> <input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Config <input type="checkbox"/> Result <input checked="" type="checkbox"/> Admin
<p>Active and login name:</p> <input type="text" value="demob"/> 	<p>First name, last name and email:</p> <input type="text"/> <input type="text"/> <input type="text"/>	<p>Roles:</p> <input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Config <input checked="" type="checkbox"/> Result <input type="checkbox"/> Admin
<p>New user login name:</p> <input type="text"/>  1	<p>First name, last name and email:</p> <input type="text"/> <input type="text"/> <input type="text"/>	<p>Roles:</p> <input checked="" type="checkbox"/> Test <input type="checkbox"/> Config <input type="checkbox"/> Result <input type="checkbox"/> Admin



192.168.1.227:9393

Vantage
Upgrader

[Installation](#) [Settings](#) [Log out](#)

Chassis administration login

Username:

Password:

[Login](#)

Input “:9393” which follow the chassis IP address

Visit the IP: “192.168.1.227:9393” to enter the Vantage Chassis Manager page. The username and password is “admin”

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



Installed software versions

[+ Click here to upload and install a new version](#)

Upgrade the release by clicking this button

Vantage Manager

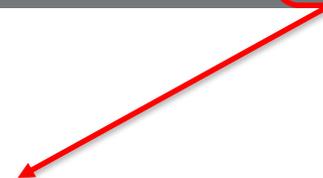
Vantage Upgrader

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	Stop
xl2_3_0_5_d	3.0	2019-04-28	2019-04-29 00:04	Configured, ready to start	Start
xl2_2_5_1_d	2.5	2019-03-10	2019-03-10 00:03	Configured, ready to start	Start
xl2_2_4_2_d	2.4	2018-02-05	2019-02-06 00:02	Configured, ready to start	Start
xl2_2_4_1_d	2.4	2018-02-01	2019-02-04 00:02	Configured, ready to start	Start

Enter the “Installation” page, to manage the Vantage versions.

Downgrade or upgrade the version which you have installed into the chassis with “start/stop” action.





Installation **Settings**

Chassis settings

Change network settings for the chassis. The chassis will automatically reboot after the changes have been saved.

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

Enter the “Settings” page, to 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 activate upon rebooting.



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www.xenanetworks.com

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support@xenanetworks.com



XenaWiki

Detailed user manuals and
technical documentation