Creating a Test Series on Ixia BreakingPoint Hardware

Overview

A test series allows you to create and run a sequence of individual test scenarios that you have previously created. This can be very useful in a variety of scenarios.

For example, you may have complex operations that must finish first before moving on to another scenario. A behavioral modeling simulation might be one such use case. As another example, you may wish to safely run tests for longer than seven days. Though we typically recommend seven days as the maximum for single test runtimes due to internal memory and database considerations, using a test series allows you to circumvent that limit.

To run a test series, first select Test > Test Series:

	CONTROL CENTER	TEST	MANAGERS	HELP			
		New Test					
Welcor	ne, Pat McGarry	Open Test					?
	and the second	Open Recent Tests					
		Run Recent					
		Quick Test					
4	Create a Test	Reporting			Breaking	Point	n1
	_	RFC 2544			Find it ha	foro thou do	м
		Session Sender			Find it be	lore they do.	
		Resiliency Score					
	Labs	Multicast			Su	pport 1(866)352.6691	
		LTE			support@	<pre>breakingpoint.com</pre>	
	Resiliency Sc	Test Series Multi-box Testing					
-	Reporting						
					Software Version: 10832	0	
0	Configuration				ATI Update: 114555		
					Strike Date: March 11, 24	113 at 8-17 PM	
	-	_			Joine Date, March 11, 24		

Select the "New" button at the bottom of the Test Series screen, give it a name, and click "OK."



You can then add a new category name (top right) if desired or leave the default IPS. Categories may help in searching through test series' more easily if you have hundreds of them, which you probably never will. If not, you can ignore the category option and just add your tests, one after the other, by clicking the plus sign in the bottom right:

Control Center Test Managers Help	Hom	⊵ Test Series		Using Group 1
• Test Series				1
User Last Edited	Max Returned		Test Series Category	
Everybody Any Time	15 •		IPS •	
Category Type			1440-4	
Any Any •	Search		Add Callegory.	
Test Series		Associated Tests		
BreakingPoint IPS Test - Attack Evasion IP Fragmentation				
BreakingPoint IPS Test - Attack Evasion TCP Segmentation	n			
BreakingPoint IPS Test - FTP Attack Evasion				
BreakingPoint IPS Test - HTTP Attack Evasion				
BreakingPoint IPS Test - RPC Attack Evasion				
Test Series				
EditName.		Export		
C				

In the subsequent screen, select the test(s) you want to put in series. These can be the same tests over and over again if you'd like. Just scroll/click through the tests and pages on the left, select the ones you want, and transfer them to the Selected Test(s) pane on the right using the blue right arrow. The example below shows the same test being run three times in a row. Next click "Associate Tests" at the bottom right:

Control Center Test Managers	Help Home> Test Series	Using Group 1
<u> </u>		4
Control Center Test Managers Ustor Any DUT Last Ed Any Last Ed Max Bandwidth MAX Packets per Second MCTSSA RF FFTP 1 session per sec Security Microsoft Strikes Multicast Lab Template Multicast Lab Template MultiveRB DDos NAT - PCP Mapped HTTP Traffic Security New Strikes Security New Strikes	Heip Type Any Selected Test(s) Any Time 15 Any Time Search	Using Group 1
Next Gen Cyber Range		
	¥	
Page << <	3 4 5 6 7 > >>	
	Associate Tests	Cancel
Edit Name.	Export	

Once you click on "Associate Tests," you'll be back to your main "Test Series" screen. The test series has already been saved and can be run using the "run" icon. Leave the "Use Original Test(s) Settings" checked, then click the "Accept" button:

Control Center Test Managers Help	Home> Test Series	Using Group 1
• Test Series		<u></u>
User Last Edited Everybody Gategory Type Any Any Type Any Any Test Series BreakingPoint IPS Test - Attack Evasion IP Fr BreakingPoint IPS Test - Attack Evasion IP Fr BreakingPoint IPS Test - Attack Evasion BreakingPoint IPS Test - TFP Attack Evasion BreakingPoint IPS Test - RPC Attack Evasion BreakingPoint IPS Test - RPC Attack Evasion BreakingPoint IPS Test - RPC Attack Evasion	Max Returned me 15 • IPS Search agmentation Segmentation Run test with current settings? C Use Original Test(e) Settings	ries Category
Edilliame	Accept Change Cancel	

As soon as the first test finishes, the system will clean up everything (memory, etc.) and automatically start the next test in the series (in this case, another instance of the same test). The example screen below appears while the test is running. The naming convention shows the test series name, the current test name in the sequence, and the current iteration number for the test series (in this case 1 of 3):

Control Center Test Managers Help	Home> Executing	Using Group 1			
Real Time Statistics	Running Test Series :: Research Test Series / Research (1 of 3)				
0% 25%	50%	75% 100%			
	0%				
Summary Interface TCP E	ncryption Application Client Attacks	GTP Resources			
Application Transaction Rate	TCP Connection Rate	Interface Stats			
Attempted: 49992	<u>Client</u> <u>Server</u>				
Successful: 49960	Attempted: 49950 Established: 49950	Bandwidth			
Failed: N/A	Established: 49950 Closed: 49977	Tx (Mbps): 383.22			
	Closed: 49992	Rx (Mbps): 383.22			
Application Transactions	Cumulative TCP Connections	Frame Pate			
Attempted: 2550698	<u>Client</u> <u>Server</u>	Tx (Ens): 500113			
Successful: 2550661	Attempted: 2550301 Established: 2550401	Rx (Fps): 500111			
Failed: N/A	Established: 2550301 Closed (FIN) 2550382				
	Closed (FIN) 2550297 Close (RST): N/A	Cumulative Frames			
Concurrent Flows	Close (RST): N/A	Tx: 25532398			
Superflows: 49		Rx: 25532395			
TCP Flows: 57	Average TCP Time				
UDP Flows: 0	Syn/Ack (ms): N/A	Ethernet MAC Errors: N/A			
SCTP Flows: 0	1st Byte (ms): N/A				
	Close (ms): 0.0003				
Duration (ms): 0.0021					
There have been no exceptions.					
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Last but not least, note that in the bottom right of the running screen, you can choose to stop the entire series or the single test run at any time. Selecting "Stop Test" will impact the currently running test only, and the system will continue the series by moving onto the next test. In contrast, selecting "Stop Series" will cause the entire test series to stop.