

Large Scale Testing With MIMIC SNMP Simulator By simulating thousands of elements



“We are constantly using MIMIC; it is very useful for testing scalability of our EMS product and it is our best option to simulate the required number of elements to provide high quality releases to our customers. ”

Ksenia Muzika
QA Group Manager

Ribbon is a company that provides IP Optical Networking and Secure Cloud solutions. In the IP Optical division, it offers different types of network equipment for various needs to multiple customers around the world.

Challenge:

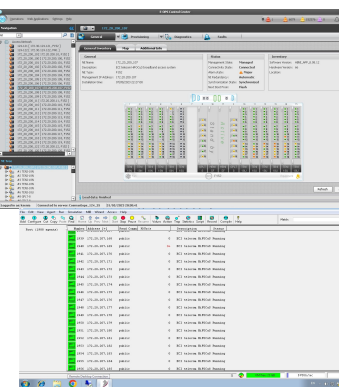
Among many offerings, Ribbon provides physical equipment along with its management system. Ribbon’s customers continuously manage thousands of network elements. In order to test their management system, they need to check its ability to handle and control such a large-scale volume of incoming and outgoing messages and alarms. The problem was that it is expensive and hard to setup thousands of network elements in their lab. They needed to complement the real, physical equipment in the lab with virtual devices to scale up to the required number. After researching various simulators, they found **MIMIC Simulator** which provides all the features they needed,

Solution:

Ribbon started using MIMIC Simulator to create a virtual lab with thousands of elements. They recorded those elements from real live devices. MIMIC enabled them to multiply the devices many times in the desired configurations and topologies. They also installed the proprietary MIB database in order to manage the equipment completely via SNMP. They created many scripts using MIMIC APIs to simulate various multiple actions their customers see in their environments. Those actions involve CPU, memory and other status changes and checks and various traffic patterns. They run those regularly over those simulated elements. They also simulate thousands of traps and alarms to see how the management system responds to them.

Ribbon has many MIMIC Simulator licenses. They have been using those for many years now.

MIMIC is helping Ribbon test scalability, features and performance their management application completely. They are able to confidently provide the application to their customers.



Ribbon EMS connecting to thousands of MIMIC simulated devices

For more information:
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