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ITRINEGY EMULATORS HELP ACCENTURE ACHIEVE SPECIALIZED TESTING SOLUTIONS

Accenture is a global management consulting and professional services firm that provides strategy, consulting, digital, technology and operations services to clientele across a wide variety of industries. As of 2018, they were one of the largest consulting companies in the world, partnered

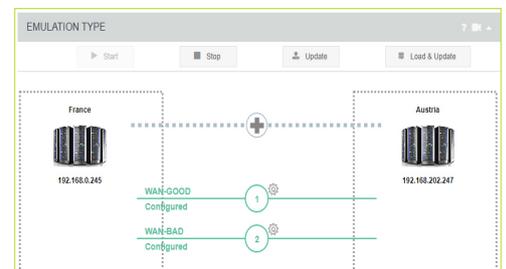
with over 75% of the Fortune Global 500 list with a total revenue of \$41.06 billion. They promise their clients to 'deliver transformational outcomes for a demanding new digital world', and their growing client-base, partnered with an ethos of embracing technological innovations, show that they strive to fulfil that promise. It was during their search for innovative solutions to a persistent Oracle Database replication issue over the WAN that they came to utilize iTrinegy's NE-ONE Professional Emulator range with excellent results.



THE PROBLEM

Accenture were working for a client who had two servers in two different countries that needed to be able to sync and 'swap' instantaneously with exact precision, for both data recovery in the event of unforeseen incidents, but also to enable server maintenance to be carried out on the primary server without impacting the user experience. Infrastructure Team Leader Dimitri Eloy knew that the precision required would prove to be problematic without an understanding of how the large geographical distances would impact the database replication. "We have two sites- a backup and a primary - but they will both be online at the same time, and the synchronization between the sites has to be exact. It's using a dedicated link for verification but the distance between the two sites is pretty far - we were having a lot of latency because of this, and the databases have to be synchronized at exactly the same time."

Dimitri knew that he needed to understand exactly how their Oracle database would perform over different WAN conditions and over the geographical distance between France and Austria. However, the only option they had available to them at the time was to purchase a new environment in Austria and use it remotely to compile data about how the network would be impacted; a process that was both time consuming and very expensive. It was in Dimitri's search for an alternative that he came across iTrinegy's NE-ONE Professional Network Emulator range.



Accenture's clients needed two servers to be able to synchronize with extreme precision over long distances

THE SOLUTION

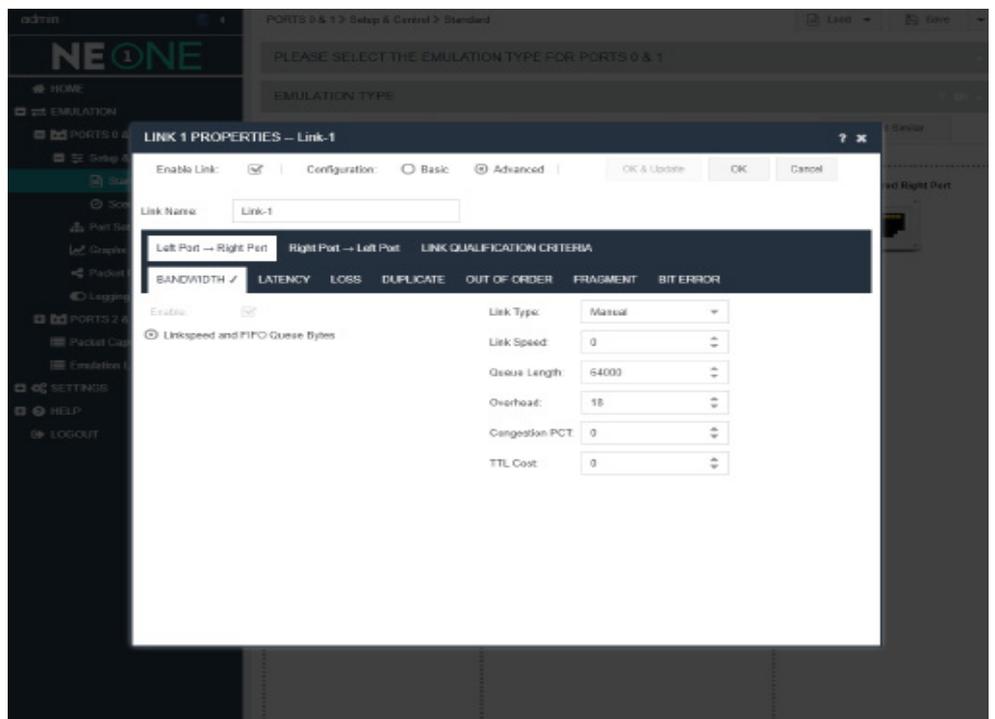
After researching iTrinegy's range of network emulators, and talking with iTrinegy's product specialists, Dimitri knew that the NE-ONE Professional's ability to accurately imitate international network environments would give him and his team the insight they needed to solve their client's problems. "Rather than using a new remote environment, we used the NE-ONE Professional Emulator to understand how the Oracle database would work in poor network conditions. We used it to recreate a 'generated' environment, recreate old transactions made from France to Austria in order to see the amount of latency and packet loss that occurred, and which would occur in future transactions."



Dimitri's team soon decided that the NE-ONE Professional Model 10 would give them the ability to meet the requirements of their client, and two were quickly deployed into their environments- a virtual appliance for their VMware dev environment, and a physical appliance for their test laboratory in France.

EASY TO IMPLEMENT, EFFICIENT TO USE

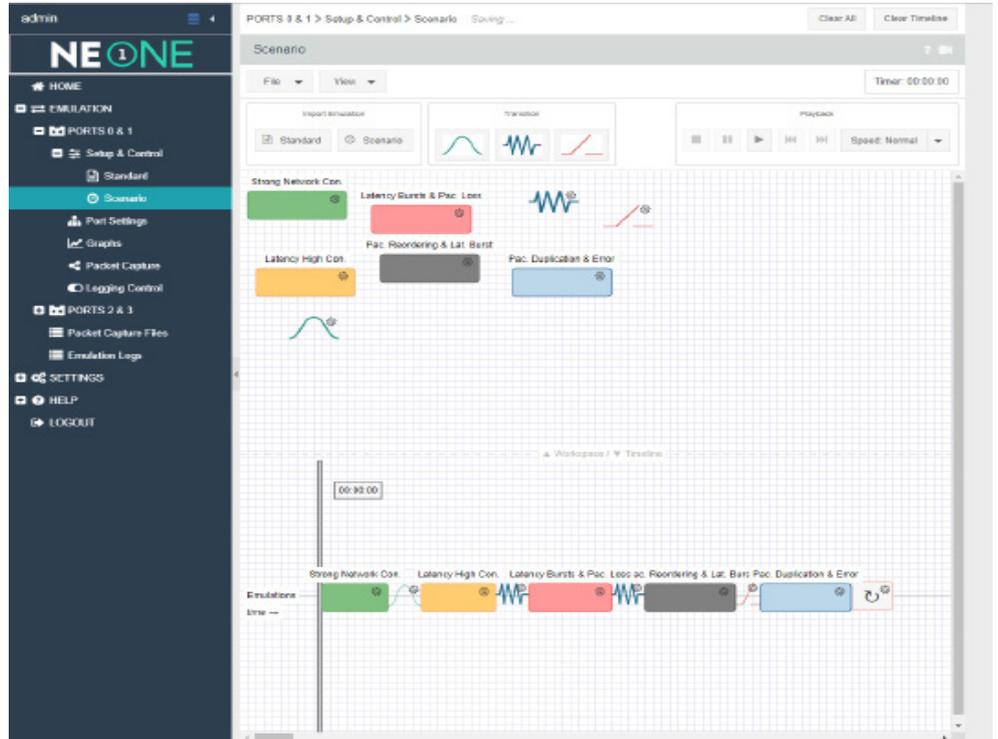
It didn't take long for the NE-ONE Professional Model 10 to produce results. Quickly introducing it into their labs, the initial setup had no issues, and with some assistance from the iTrinegy support team, Dimitri and his team were soon utilising the NE-ONE Professional's 'Advanced' settings to fine-tune their testing. "It was quite easy", Dimitri remarks. "We had the skills to understand how to use the emulator; however, the generation of the mac address which is based on the IP was not included in the documentation. This was the main issue we had; for the rest it was fine. We began using the emulator immediately afterwards, and found a bug in the appliance search which we reported, and it was patched in the next two days, which was really good".



iTrinegy's 'Advanced Settings' gave Accenture the ability to create highly specialized emulations for advanced testing

SPECIALIZATION IS KEY

The ability to specialize and adapt tests was the factor that Dimitri and his team found to be especially valuable. “The way you can fine tune the connections and the scenarios, this allows you to hone your testing to really do what you want” he explains. “It’s the main point. This really allows us to push our testing. You can create a multitude of scenarios with the scenario builder and tailor it to what you want, and really fine tune the connection to fit the needs of the test. We hadn’t been able to do this before at all.”



The Network Scenario Builder’s ability to chain different network experiences together allowed Accenture to perform both creative and thorough tests for better results.

BENEFITS OF THE NE-ONE

Upon reflection, Dimitri feels certain that Accenture’s investment has proven not only to be an excellent in-lab tool, but has allowed them to save a lot of time in testing, whilst being remarkably cheaper than their initial plan of renting a new client in another country. “What is the major benefit of using the NE-ONE Professional? Saving time! And indeed money! We would have had to rent a new client just to test in a new country, which is not cheap at all. So this has been pretty good. In addition to this, the support we got was very quick, and very good.”

FINDING OUT MORE

Dimitri’s Accenture team found iTrinegy’s NE-ONE Professional Network Emulator to be an innovative approach into a field of testing that, otherwise, would have been both expensive and time consuming, as well as requiring an in-depth knowledge of networks. If you feel like your organization’s applications have been suffering due to network issues, have had troubles with error identification, or if you are developing network-reliant applications, contact an iTrinegy product specialist and find out more!