

# SPIRENT iTEST

## VIRTUAL TESTBEDS

Virtual Testbeds (VTB) is a breakthrough capability available in iTest® 3.4 that delivers significant value to testing organizations. VTB enables iTest to emulate responses from devices, allowing test development to proceed when testers don't have access to test lab equipment—or even before the new version of equipment or software is available.

VTB allows test organizations to drive costs down, improve lab utilization, and move testing months forward.

### BENEFITS OF VIRTUAL TESTBEDS

#### Enable earlier testing

Test development can begin well in advance of new feature or device/prototype availability, speeding time to market.

#### Improve tester productivity

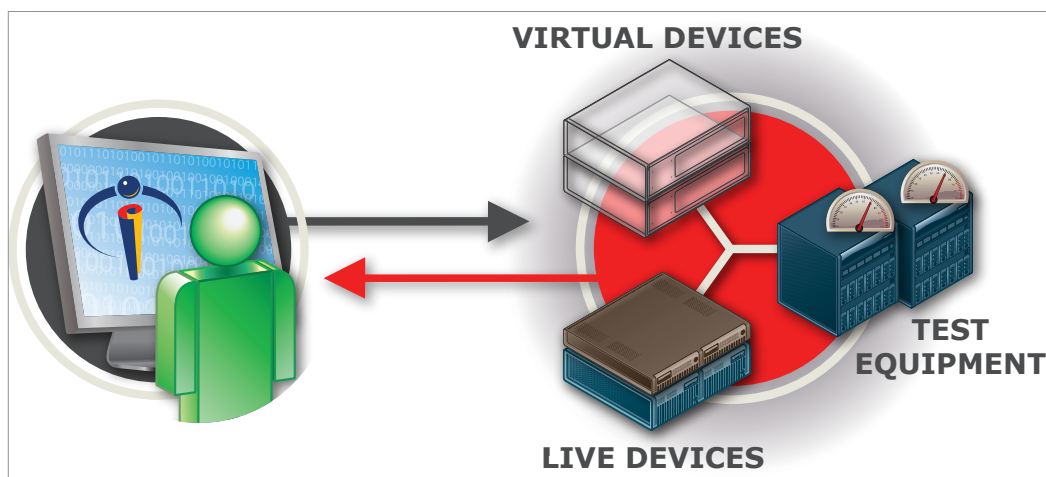
Testers no longer need to be physically connected to devices, allowing test development to continue when testers are offline or remote.

#### Reduce capital expenditures

Many test development activities can be performed without tying up lab assets, allowing better utilization of expensive lab equipment.

#### Eliminate device staging

Emulated responses can be used to simulate device failures and/or abnormal conditions, verifying that test cases are properly designed to capture errors.



With iTest's virtual testbed capability, virtual devices become an integral part of your testing environment.

<b>Use Case #1</b>	<p style="text-align: center;"><b>I want to work on test cases without being connected to the lab.</b></p> <p><b>WITH VTB YOU CAN:</b></p> <ul style="list-style-type: none"><li>• Build, edit, and validate test cases on the train, plane, or in the coffee shop.</li><li>• Get work done while on travel, at home, or just at your desk and not in the noisy lab.</li></ul> <p><b>HOW DOES IT WORK?</b></p> <ul style="list-style-type: none"><li>• VTB allows you to create an emulation of each device, controlling the command-response pairing.</li><li>• You can quickly create an emulation of each device and then use this library for the creation, editing, and running of a test case in emulation mode.</li></ul>
<b>Use Case #2</b>	<p style="text-align: center;"><b>I want to test negative use cases and ensure they work.</b></p> <p><b>WITH VTB YOU CAN:</b></p> <ul style="list-style-type: none"><li>• Test the test: you can change values to ensure errors are reported and captured.</li><li>• Ensure diagnostic procedures work correctly and branching works as designed.</li><li>• Create real-world scenarios for complex features such as spanning tree, fail over, etc.</li></ul> <p><b>HOW DOES IT WORK?</b></p> <ul style="list-style-type: none"><li>• VTB allows you to force a device to give the data you want by changing its output.</li><li>• You simply take the last response output and edit with the desired values, then run the test, selecting emulation for just that response.</li></ul>
<b>Use Case #3</b>	<p style="text-align: center;"><b>I want to start my testing cycle earlier.</b></p> <p><b>WITH VTB YOU CAN:</b></p> <ul style="list-style-type: none"><li>• Build, modify, and validate tests months before a prototype is even ready.</li><li>• Prepare and test your regression suite for a minor software upgrade before development is even finished.</li></ul> <p><b>HOW DOES IT WORK?</b></p> <ul style="list-style-type: none"><li>• VTB makes it possible to create a fully emulated command-response pairing for a device that is still in development by using the design spec. to create the expected output of the device response.</li><li>• VTB can make software upgrades a snap by emulating just the changes expected in the next software release. This is done by editing an existing response.</li></ul>
<b>Use Case #4</b>	<p style="text-align: center;"><b>I want to ensure my expensive lab equipment is being used wisely.</b></p> <p><b>WITH VTB YOU CAN:</b></p> <ul style="list-style-type: none"><li>• Free up lab equipment from testing that is being used to develop or edit test cases.</li><li>• Allow costly equipment and prototypes to support larger groups, saving capital expenditures.</li></ul> <p><b>HOW DOES IT WORK?</b></p> <ul style="list-style-type: none"><li>• VTB allows you to create an emulation of specific devices so that creation of test cases doesn't tie up lab equipment or prototypes.</li><li>• You can build a virtual testbed library for the creation, editing, and running of a test case in emulation mode then, once the test works, run it against the real equipment.</li></ul>

**AVAILABILITY**

The Virtual Testbeds feature is available as an add-on module for all versions of iTest (iTest *Personal*, iTest *Team*, and iTest *Enterprise*). Please contact your account team for more information about licensing and purchasing options.

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