

OCTOBOX® scriptMachine™

Improve control of the testbed, accelerate test automation development and enable synchroSniffing

Increasing complexity in Wi-Fi test management drives the need for an easier way to perform testing and to deploy test scripts across OCTOBOX testbeds. A single OCTOBOX scriptMachine allows running scripts on any testbed or on multiple testbeds at once. The scriptMachine enables customers to develop their own customized test automation sequences and comes with Python libraries and script examples.

scriptMachine comes installed with the OCTOBOX synchroSniffer® Wireshark enabling multiprobe sniffing and OFDMA captures on an OCTOBOX testbed.

scriptMachine is required to run any OCTOBOX Wi-Fi test automation packages such as TR.398.



Features

- Preconfigured for accessing one or more OCTOBOX testbeds
- Execution environment for running test scripts
- Includes tools for advanced packet captures
- Test script development environment
- Includes all the necessary Python libraries to develop test scripts on the OCTOBOX testbeds
- Sample scripts examples to start development quickly

Benefits

- Control any OCTOBOX testbed
- Run scripts on any testbed
- Develop your own test automation sequences
- Perform wireless captures in an OCTOBOX testbed

Software Solution Overview

The scriptMachine comes with software that enables remote control of testbeds, running OCTOBOX synchroSniffer traces and developing test automation sequences:

- Web browser to control any testbed
- Spirent's version of Wireshark for synchroSniffing
- Test automation environment including:
 - Spirent's python library that can be used to implement test scripts that run on an OCTOBOX testbed. Library includes documentation.
 - Python interpreter
 - OCTOBOX scriptManager, a User Interface for configuring and running scripts
- Script examples

Software Development Tools and Documentation

The scriptMachine bundles all necessary tools remotely control any OCTOBOX testbed as well as to develop test scripts for the OCTOBOX testbed. While the OCTOBOX testbed supports a REST API, the scriptMachine come with Python libraries that implement those APIs and can be used develop test automation scripts.

The scriptMachine includes the necessary documentation to use the Spirent Python libraries (see Figure 1). The scriptMachine also comes bundled with script examples to jump start test automation development.

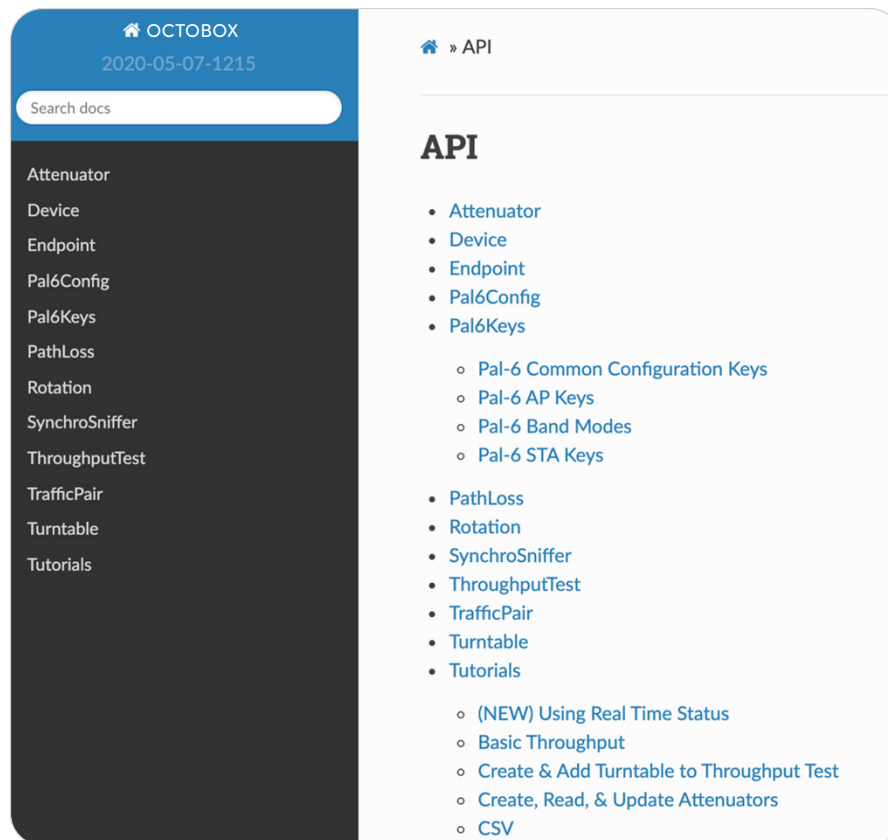


Figure 1: API documentation available on the scriptMachine

About Spirent

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks. We help bring clarity to increasingly complex technological and business challenges. Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

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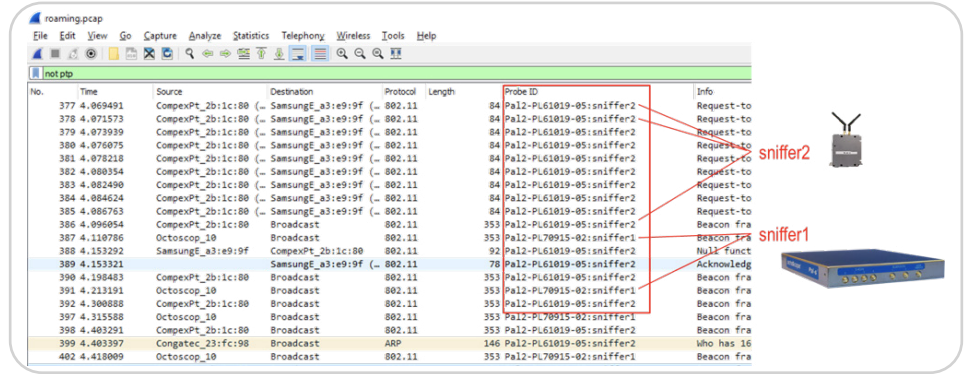


Figure 4: Wireshark user interface for synchroSniffer

synchroSniffer capability is particularly helpful when testing OFDMA links with multiple stations operating on different resource units (RUs) because a single sniffer can only monitor a single AID. For an OFDMA link with 4 stations, you may need 4 sniffer probes, one on each station. The palBox™ can assign a STApal® sniffer to each STApal endpoint. The sniffer captures from each Pal are aggregated via the synchroSniffer engine for powerful KPI analysis of the entire complex OFDMA link. In addition to conventional monitor mode sniffing, Pal-6E radios can also work as in-line sniffer probes when configured as an AP or a STA. Thus, Pal-6E radios can be synchroSniffer probes in two modes: monitor (capture all packets), inline AP/STA (capture packets addressed to the AP/STA).