

Perytons

Wireless Visibility



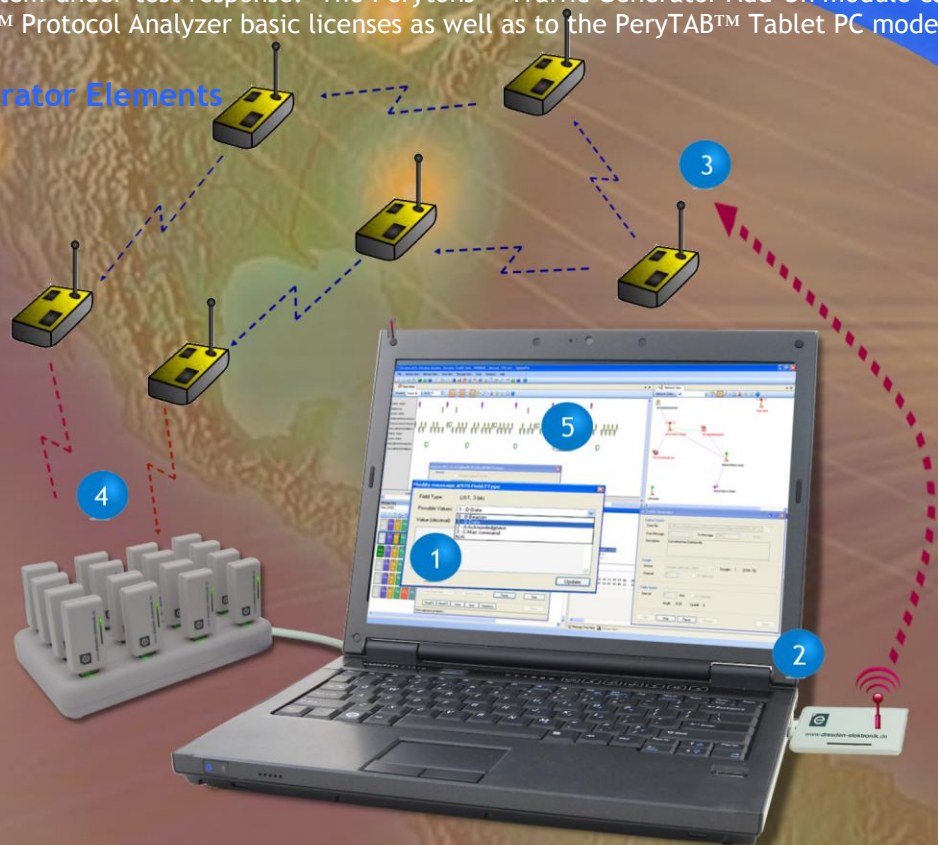
ZigBee - 6LoWPAN - IEEE802.15.4 Over-the-Air Traffic Generator

ΣΙΒΒΕ - 6ΛΟΜΠΑΝ - IEEE802.15.4 ΟΥΕΡ-ΤΗΓ-ΑΙΡ ΤΡΑΦΙΚ ΓΕΝΕΡΑΤΟΡ

The Perytons™ Traffic Generator Add-On enhances the Perytons™ Protocol Analyzer basic licenses by adding the ability to generate and transmit pre-defined traffic over the air. This innovative tool enables using the Perytons™ Protocol Analyzer to stimulate the system-under-test by transmitting messages and in parallel capture the resulting traffic while analyzing the system-under-test response. The Perytons™ Traffic Generator Add-On module can be added to any of the Perytons™ Protocol Analyzer basic licenses as well as to the PeryTAB™ Tablet PC models.

Perytons™ Traffic Generator Elements

1. Edit message fields and add or modify relevant messages into a new .ANL file
2. Transmit messages over-the-air from the modified .ANL file or via an Open Source Rule, using an additional USB dongle (provided)
3. The system-under-test gets stimulated by the generated traffic
4. Using the Perytons™ Protocol Analyzer, capture both the generated traffic and the system-under-test response
5. The Perytons™ Protocol Analyzer displays the received messages for analysis especially marking the generated messages for easy distinction



Typical Usage Scenarios

- Quickly and easily test and confirm module/network behavior during different message scenarios.
- Using an intuitive user interface, check how encrypted data would look like when specific messages are modified.
- Verify system response to modified messages that comply with a new change or update of the protocol standard.
- Analyze various "what-if" scenarios by transmitting different traffic as a part of QA and final testing procedures.
- Alter parameters of the transmitted file on-the-fly, such as channel number or page modulation type (for Sub 1 GHz networks), and observe how such change affects the system.

Perytons™ Traffic Generator Main Features

Edit and Modify files to create message fields and sections of interest. Use of an intuitive and sophisticated user interface allows changing any field with minimal protocol knowledge.

Create new messages based on the latest protocol standard, or insert deliberate errors to observe, analyze and verify system responses to new and unpredicted scenarios. The analyzer rebuilds modified messages, including encryption and authentication of the modified data.

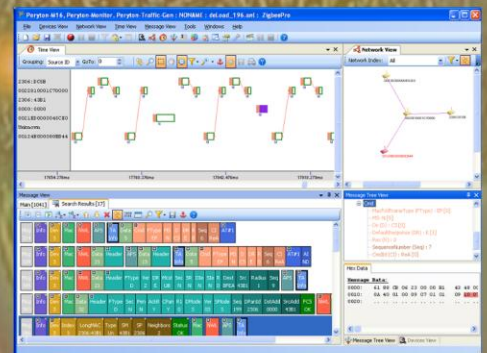
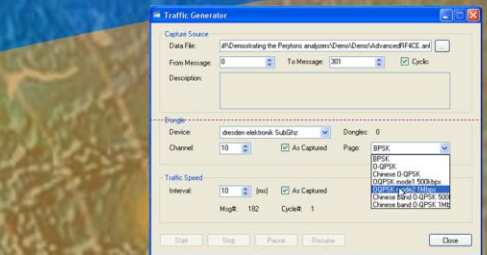
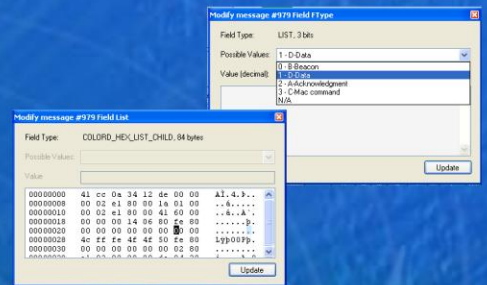
Save modified messages in an updated capture file ready for transmission, or for sharing with colleagues.

Generate over-the-air traffic based on previously captured or manually modified data files and enable analyzing system-under-test responses.

Simultaneously transmit test files and capture and analyze the response.

Easily distinguish between the transmitted messages and the response of the system-under-test.

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