

OSTINATO

An open, scalable packet/traffic generator

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What – Who?

Existing Solutions

Advantage Ostinato

Supported OS

Architecture

Deployment Options

Typical Usage

Feature Tour

History and Current Status

Contributing



What is it for?

Networking Protocol Development and Analysis

Functional Testing

Performance Testing

Security Testing

Penetration Testing

Who is it for?

Programmers/Developers

QA Testers

Security Researchers



Existing Solutions

Low-End

Freeware





- **→**PC
- → Win Only
- → Simplistic
- **→** Crippled
- → Don't scale

Medium-End

Open Source



- → Cross Platform
- → CLI (mostly)
- → Limited Protocols
- → Limited Controls
- → Narrow Focus
- → No Controlled Environment

High-End

Commercial



- → Fully Featured
- → Dedicated H/W
- **→** Expensive
 - => Insufficient
- → Overkill



Advantage Ostinato

Scales from low-end to high-end use cases

Viable Alternative to Commercial Tools

Cost Savings

Productivity Improvement

Facilitates new Testing Scenarios

Frees up ports for where they are really needed

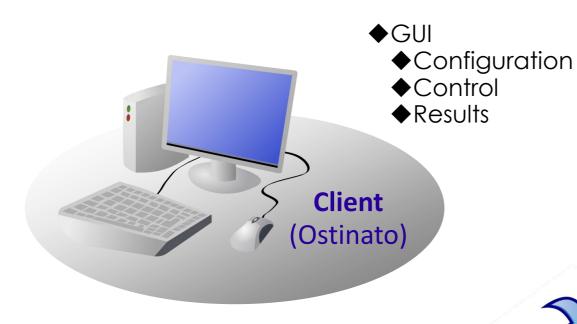


Supported OS





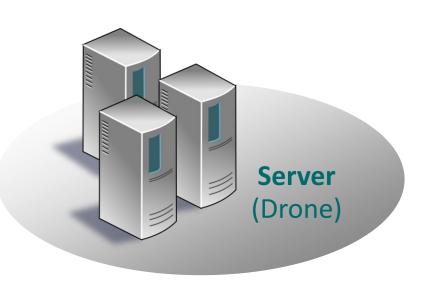
Architecture



◆Open Protocol



- ◆Packet Generation
- ◆Packet Capture
- **◆**Statistics





Deployment Options



PC Application

◆PC runs both client and server applications



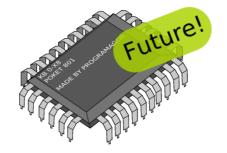
Live CD/USB

◆Convert any PC to a dedicated traffic generator



DD-WRT opkg

◆ Package Drone (server) for DD-WRT



Repurpose Custom Hardware

◆ Port Drone (server) for custom hardware



Ostinato Hardware

Ostinato hardware running Drone (server)



Late Breaking News ...

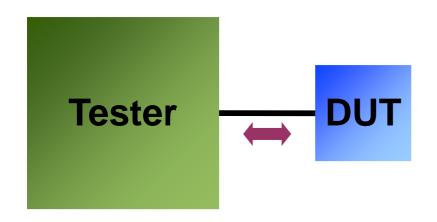


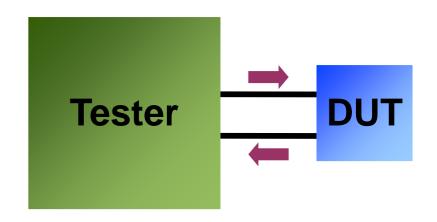


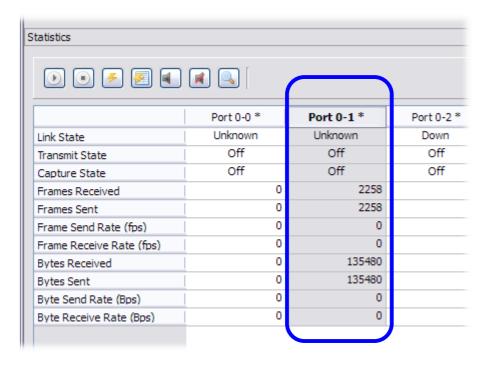
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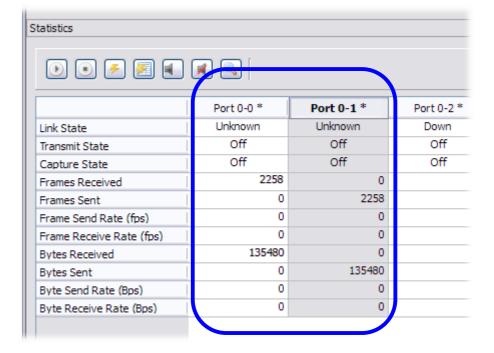


Typical Usage



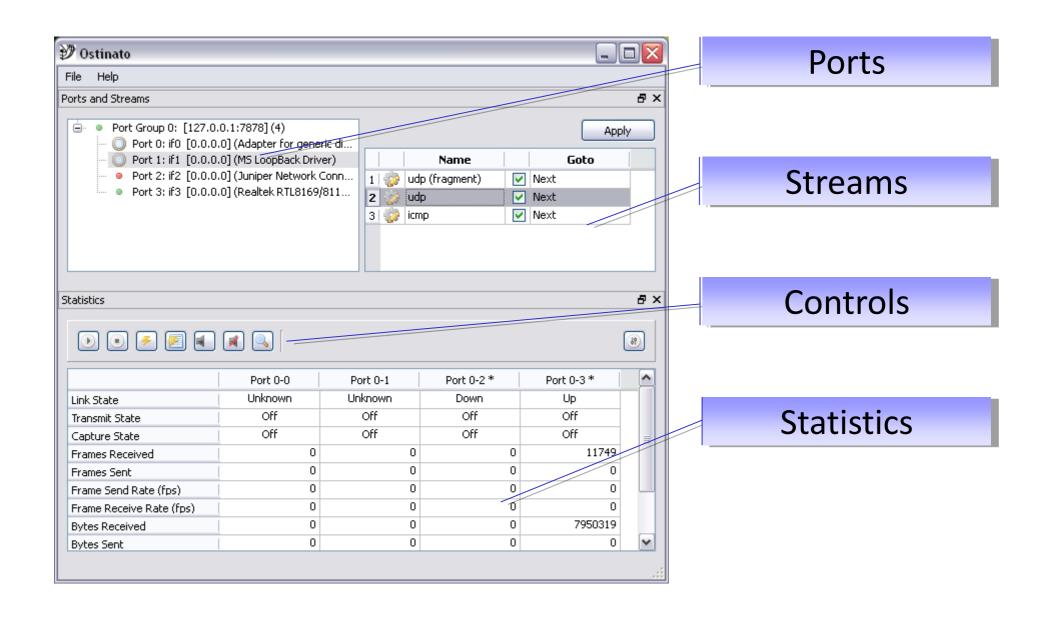






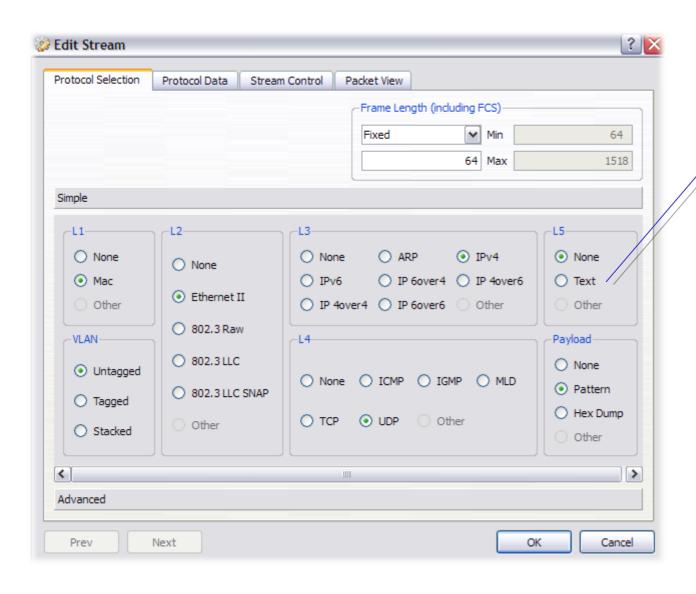


Feature Tour (Layout)





Feature Tour (Protocols)



Any text based Protocol e.g. SIP, HTTP, RTSP, NNTP etc.



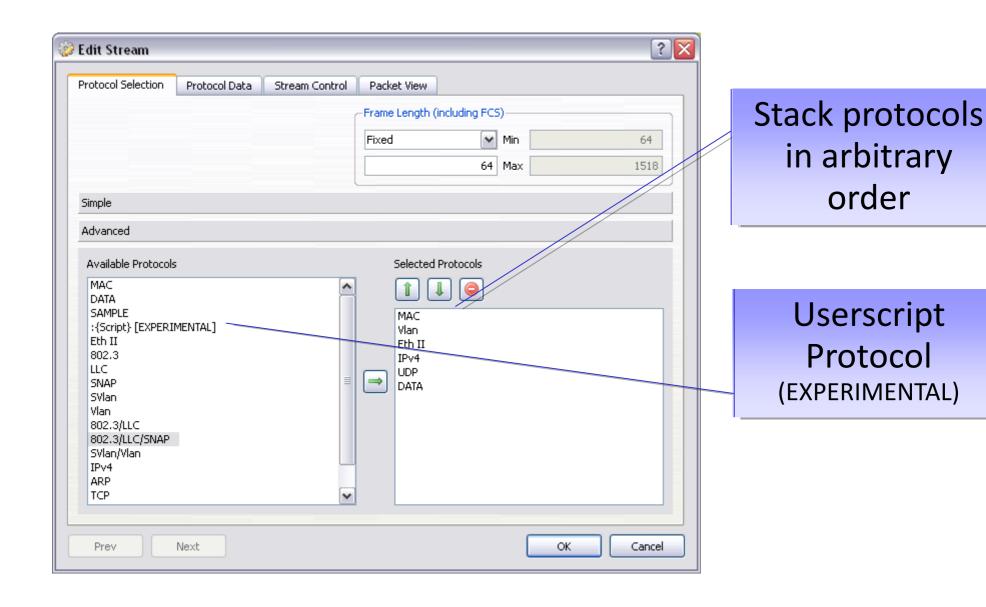
Feature Tour (Protocols)



Modify
ANY field
of ANY protocol

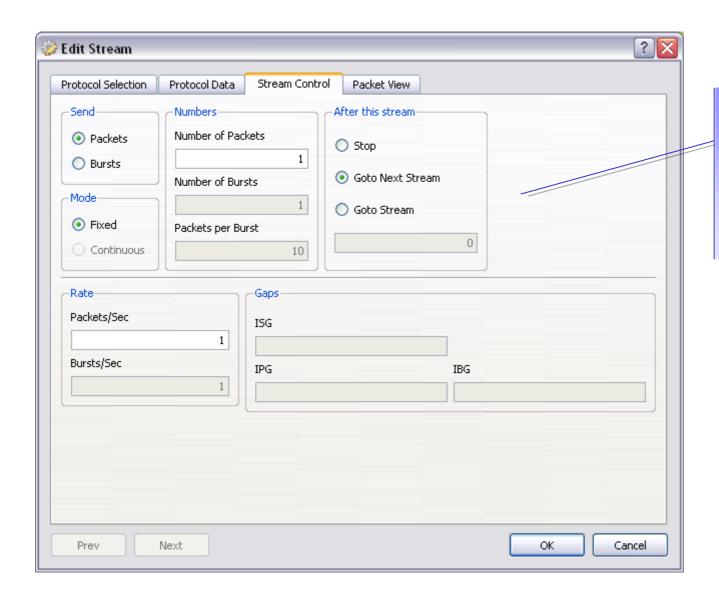


Feature Tour (Advanced Protocols)





Feature Tour (Stream Controls)



Rates
Packets
Bursts
Order



History and Current Status

2007 – Started Hacking

Apr 2010 – First public release 0.1

Nov 2010 – Latest release 0.3



Contributing

Spreading the word – blog, social media etc.

Packagers/Maintainers

Testing/QA

Programming

C++

Qt Toolkit

Protocol Buffers

LibPcap/WinPcap

Mercurial (Hg)







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That's all folks!

Questions?

What does <u>Ostinato</u> mean?