THE PACKET COMPANY

PacketRAID Server
Record + Analyse + Playback

THE WORLD'S MOST FEATURE RICH NETWORK RECORDER AND ANALYSER

ABOUT PacketRAID Server

PacketRAID Server is the all-in-one network recorder. Providing you with recording, playback and analysis capabilities in both portable and fixed server platform configurations.

The PacketRAID is a high speed multi-format data recorder purpose-designed for use in network security applications and test labs. It offers a single-platform solution to a wide range of test and monitoring requirements, combining ease of use with excellent performance and reliability.

Combined with it's 10G or 40G network connectivity and generous storage volume, it readily forms the core of a comprehensive high-throughput capture and analysis system.

PacketRAID's 'Raw Analysis' mode allows signals with complex multiplexing to be snapped and decoded, packets extracted and structure displayed. In the case of SDH/SONET, individual channels or GFP groups of interest can then be selected and recorded for longer periods.

WHY BUY PacketRAID Server

✓ 1/10/40GbE, OTU1, OTU2, OTU2e, STM-1/4/16/64

✓ Concurrent record and play back capability

✓ Integrated analytical suite

✓ 2U rack mount chassis

✓ High performance platform for storage & analysis

✓ Includes on-site support, maintenance & consultancy

KEY BENEFITS

ACCESSIBLE DATA
All recordings are stored on standard Linux XFS partitions, securely accessible across your networks

HUGE FAST STORAGE
Up to 96TB of extremely high performance SSD RAID storage

REMOTE AUTOMATION
Fully featured JSON API enables automated control, analysis and testing

OPEN PLATFORM
A Linux based system which allows you to install data analysis tools and applications of your choice

SUPPORT AND WARRANTY
Supplied with a 12 month RTB warranty which includes regular updates and support assistance

FOLLOW US:

MULTI-PORT -- MULTI-FORMAT -- MULTI-SPEED

PacketRAID Server delivers remarkable performance and flexibility with an intuitive GUI in a portable platform. Designed for use in test labs and in network security applications, it can record and replay almost any type of traffic at a wide range of speeds. Portable PacketRAID can record and replay up to 12 x 1G packet streams, 4 x 10G packet streams, or 1 x 40G packet stream at once - any mix of LAN ethernet, WAN ethernet and PoS (SDH). It can also record and replay signals at the raw bit level including STM-1, STM-4, STM-16, channelised STM-64, OTU2 and OTU2e.

All data is stored on a very high speed SSD RAID array - optimised for sustained throughput and built with a standard Linux filing system (XFS). The use of solid state technology allows PacketRAID to record on some ports whilst replaying on others concurrently - there are no disk seek times to impact performance. Data can be imported or exported over NFS, SMB or any other standard protocol.

RECORD

- **Supports Multiple Signal Formats:** Packet capture ports can support: LAN ethernet at both 10Gb/s and 1Gb/s, WAN ethernet at 10Gb/s (over SDH/SONET), and STM64c POS. Store captures as industry standard PCAP files.

- **Multi-port Record and Playback:** All capture/replay ports are capable of operating independently in either record or playback mode.

- **Raw Capture:** Providing a comprehensive range of raw recording of: OTU1, OTU2, OTU2e, STM-1/4/16/64 and 100MbE

ANALYSE

- **High Performance Platform:** Huge I/O and processing performance, combined with a large amount of RAM makes PacketRAID an ideal platform on which to analyse recordings once made.

- **Comprehensive Metadata:** Each recording has an associated metadata file, providing enriched technical information. It also includes additional text fields that can be configured to meet your specific requirements.

- **Open Source Tools:** PCAP files can be loaded into Moloch for: TCP session analysis, IP geolocation identification, AS breakdowns, filtering and searching.

REPLAY

- **Flexible Playback:** Both raw and packet recordings can be replayed, making it an extremely flexible tool for testing.

- **Configurable Replay:** Users can set the replay speed to Gbps or Packets per second or even vary the inter-frame gap.

- **Concurrent Operations:** Recordings can continue to be made concurrently whilst stored signals are replayed.

INTUITIVE GUI

- **Informative Web GUI:** The intuitive GUI gives you immediate access to a wealth of data including: signal type, protocols, data rates, power levels, and payload information.

- **Graphs and Stats:** Providing quick and easy access to both statistics and graphs (e.g. signal structures, bit rates and packet rates). All stats are archived per port and per recording.

- **Command Line and API:** Allows multiple users to access the recorder all at the same time. With the added bonus of remote control through any connected web browser or automation using scripting and JSON API calls.

HIGH PERFORMANCE OPEN PLATFORM

- **High Speed Storage:** Solid state disk RAID array optimised for sustained high throughput providing 80Gb/s read/write bandwidth.

- **Accessible Storage:** Standard Linux XFS file system. Stored data is both secure and accessible. Enabling authorised users access from anywhere, using NFS or SMB sharing.

- **Standard Linux:** Running CentOS with full root access provided. PAM for user authentication and custom security lockdowns.

- **High Spec:** Dual 8-core hyper-threaded Xeon E5 processor with 256GB ECC DDR4 RAM.

CUSTOM BUILD & CONFIGURATION

- **Optical Inputs and Outputs:** Supplied with between 2 to 16 ports, from 100M to 40G. Takes standard SFP+ optics. Supports optical wavelengths of 850, 1310 & 1550nm and also electrical over RJ45.

- **Flexible Storage:** We will advise you in choosing the optimum storage capacity (24 - 96TB) based on your operational needs.

- **Software Customisation:** Install your own applications, utilities and analytics to tailor the platform for your requirements and environment.

- **From 1 to 5 Year Comprehensive Warranty:** Ensuring support and maintenance costs are included and are known from day one.

Innova Engineering Limited,
Suite 6062,
P.O. Box 6945,
London,
W1A 6US,
UK

For more information please visit:
https://packet.company