SANDVINE

PacketLogic/V™

Leveraging high-performance, COTS hardware environments

Full PacketLogic functionality in a virtual platform without performance sacrifices

PacketLogic/V enables flexible deployments of Sandvine PacketLogic solutions using industry-standard, off-the-shelf hardware and software virtual machine environments.

Network operators are demanding greater deployment flexibility and hardware independence when selecting subscriber experience intelligence, analytics and 3GPP-compliant policy enforcement solutions. PacketLogic/V platforms provide all of the software capabilities offered on its hardware-based PacketLogic counterparts, available on virtual machine environments running on COTS hardware.

All of the functional components that make up Sandvine's PacketLogic solutions can be readily provisioned without purchasing vendor-specific, single-use hardware configurations or purpose-built hardware.

This provides ultimate flexibility in provisioning computing resources and PacketLogic software licenses to provide detailed, subscriber-centric analytics and support for intelligent, real-time policy enforcement.

KEY SYSTEM BENEFITS

- Designed to comply with the ETSI NFV architectural framework
- VNFs can scale easily with additional CPU and memory
- Simplified high availability (HA) deployments
- Equivalent functionality to hardware-based PacketLogic platforms

SOFTWARE-OPTIMIZED ANALYTICS AND ENFORCEMENT SOLUTIONS

PacketLogic/V platform components run as individual Virtual Network Function Components (VNFC); part of an ESTI-defined Virtual Network Function (VNF) environment that a network operator would need to support a PacketLogic analytics or enforcement solution.

Capabilities supported include:

- **COMPLETE PACKETLOGIC PRODUCT LINE SUPPORT** to enable collapsed deployments and efficient use of off-the-shelf hardware
- **FLEXIBLE NETWORK DEPLOYMENT** supporting full migration capabilities to add services wherever needed without pre-installation of PacketLogic-specific hardware platforms
- **ANALYTICS AND ENFORCEMENT** capabilities sized for your needs with easy upgrades from 1Mbps to over 150Gbps of network traffic throughput
- **MULTIPLE SOLUTIONS CAN BE DEPLOYED** delivering the features required for specific services
- **DESIGNED FOR TIGHT INTEGRATION** with partner NFV products based on the ETSI NFV architectural framework and ONF SDN standards

### THE POWER OF VIRTUAL WITH ALL THE CAPABILITIES OF THE PACKETLOGIC SOLUTION:

- **REAL-TIME DYNAMIC LIVEVIEW QUERY ENGINE AND PACKETLOGIC CLIENT** enables sophisticated real-time forensics to manage quality of experience (QoE), network congestion, and network security issues.
- **DRDL (DATASTREAM RECOGNITION DEFINITION LANGUAGE)** processing identifies properties of individual session flows in real-time, enabling operators to create and define services on-the-fly.

PACKETLOGIC/V™ PLATFORM

- **POLICY-BASED TRAFFIC MANAGEMENT CAPABILITIES** that include asymmetric traffic control, traffic shaping and filtering, traffic flow classification and prioritization, traffic monitoring, and packet re-write.

- **ADVANCED PACKET QUEUING**, including parallel queuing to enable more flexible traffic management policies which ensure predictable delay and jitter, enabling operators to meet their customers' QoE expectations.

- **STATISTICS GATHERING** for individual flows to enable real-time and historical reporting, including real-time QoE updates.

- **CONTENT INTELLIGENCE** enables network operators, cloud providers, and high-speed enterprises to combine the policy management capabilities of PacketLogic with industry-leading URL content categorization functionality.

- **HTTP HEADER ENRICHMENT** leveraging PacketLogic's stateful awareness and subscriber awareness.

- **ADVANCED TRAFFIC STEERING** that combines PacketLogic Real-Time Enforcer capabilities with Application Delivery Networking functionality to provide a single Application Delivery Controller solution with unmatched performance and scalability, enabling service chaining with subscriber, service plan, charging, and Layer 7 awareness.

- **EVENT-BASED TRIGGERS** that automatically change policy in response to specified real-time network traffic conditions by dynamically enabling DoS/DDoS connection limits, traffic shaping, or filtering.

- **BGP INTEGRATION** enables peering and CDN visibility, including QoE metrics support for Origin-AS and Transit analysis.

Figure 1

Sandvine's 2.0 NFV Implementation - ETSI NFV Framework
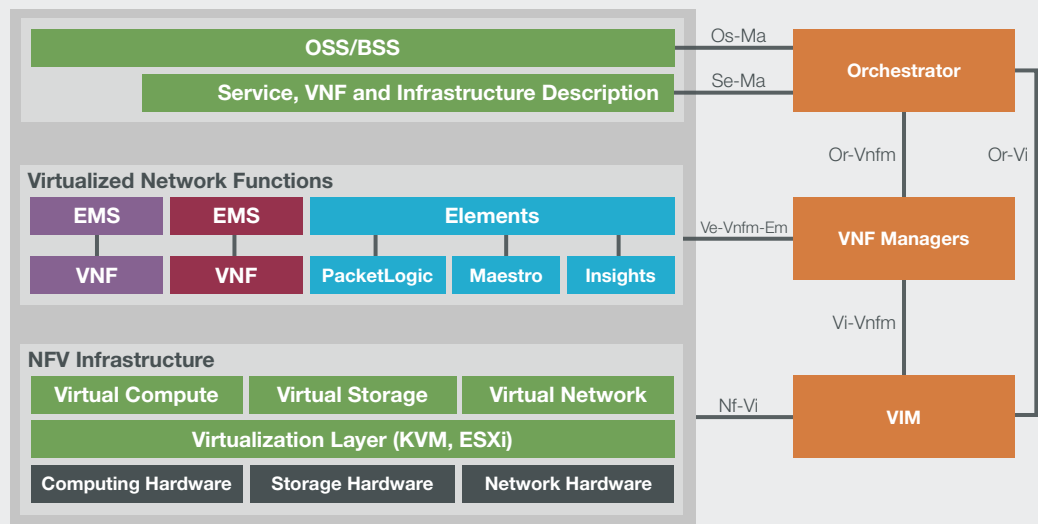
ABOUT SANDVINE

Sandvine helps organizations run world-class networks with Active Network Intelligence, leveraging machine learning analytics and closed-loop automation to identify and adapt to network behavior in real-time. With Sandvine, organizations have the power of a highly automated platform from a single vendor that delivers a deep understanding of their network data to drive faster, better decisions. For more information, visit **sandvine.com** or follow Sandvine on Twitter at **@Sandvine**.

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