



# IXNETWORK

The following table highlights the primary new features and enhancements of the past three ixNetwork releases.

HARDWARE, PLATFORM, & IXOS	VIRTUAL EDITION	SOFTWARE DEFINED NETWORKING	ROUTING, SWITCHING, & MPLS
13	29	39	27
TIMING & SYNC AUDIO VIDEO BRIDGING		AUTOMATION	INFRASTRUCTURE & FRAMEWORK
7		32	21

- New LM: Novus 1/10 & 100G, 400G
- Metronome sync
- 4 port Novus One version
- VE on AWS
- Advanced LAG
- REST API & browser & WebUI
- VXLAN, SR, SRv6, PCEP, NETCONF, BIER, EVPN, NTP
- L3VPN over SRv6
- BGP route import up to 10M routes
- MPLSoGRE, MPLSoUDP
- AVB, TSN
- Planned new DPDK VE engine - linerate on 64b packets
- eCPRI & MACsec for 5G

# IXLOAD

The following table highlights the primary new features and enhancements of the past three IxLoad releases.

INFRASTRUCTURE AND HARDWARE	VOICE AND VIDEO	VIRTUAL EDITION	OTHER FEATURES	WIRELESS ACCESS	WIRELESS CORE
25	31	29	22	23	82

- New LM: PerfectStorm & CloudStorm
- HTTP2.0 & TLS 1.3
- SSL SNI support
- ECDHE curve selection
- WebRTC over WebSockets
- ixLoad VE on AWS & Docker (beta)
- Google QUIC for OTT
- RCS testing support
- ISUP support in VoIP SIP
- GRE & GRE Over IPsec
- ixLoad WebUI + REST API
- PESQ & POLQA on VE
- 5G core testing

# BREAKINGPOINT

The following table highlights the primary new features and enhancements of the past three BPS releases.

APPLICATIONS	APP FLOWS	STRIKES	MALWARE 36,000+ DDOS 41 EXPLOITS+ 8,472
441	3,891	44,000+	

- New LM: PerfectStorm & ColudStorm
- BPS VE
- AWS & Azure (beta) support
- DPDK support on AWS – 10G
- TLS performance 5x-7x improvement
- SSL SNI support
- TrafficRewind (+TLS support)
- New HTML5 webUI
- REST API
- DB update from cloud
- Daily malware updates
- Advanced proxy testing support
- Display of resource utilization
- IPsec on VE

# VIRTUALIZATION

- ESXi & KVM, vCenter & Openstack
- Intel & Mellanox support
- Support for PCI-PT & SR-IOV
- AWS & Azure
- New product for NFVi testing: CloudPeak
- SNMP traps support on VE LM

# IXLOAD WIRELESS

- 4G & 5G core & RAN testing (Xair2&3)
- Diameter testing
- WebUI (phase1)
- Negative testing
- IMSI/MSISDN from file
- 10Gps on single UE (TCP&UDP)
- MCPPT (Mission critical Push to talk)
- Dual Connectivity testing (Option 3X, Rel15)
- CUPS (Sx interfaces)
- Cellular IoT support & Diameter (S6t)
- Tethering support (custom TTL)

