

Defensics

Technology Specifications

Defensics is a next-generation security testing platform that enables builders and users of technology to rapidly, reliably and efficiently find and correct dangerous errors and flaws. No other solution does more to quickly empower organizations to discover unknown vulnerabilities that can put business performance and reputation at risk.

Defensics At-A-Glance

- Proactively brings the unknown into total view
- Easy to deploy, cost effective solution to minimize the risks of incursions on the Core of systems, networks or devices
- Automated solution to keep teams moving forward to advance security and robustness
- Supports over 270 protocols and file formats
- Fully automated test case generation, execution, reporting and regression testing
- Easy to integrate into existing testing environments
- Supports multiple users across multiple locations

Test Suites

Core Internet: IPv4 (TCP, UDP, IPv4, ICMP, IGMP, ARP), IPv6 (TCP, UDP, IPv6, ICMPv6), DNS, DNSSEC, NTP Client, NTP Server, DHCP/BOOTP Client, DHCP/ BOOTP Server, HTTP Server, HTTP Client, FTP Server, DHCPv6 Client, DHCPv6 Server, FTP Client, NetBIOS, PMIPv6 Client, PMIPv6 Server

Net Management: HTTP Server, HTTP Client, TLS/SSL, TLS 1.2, Telnet Server, SSH1 Server, SSH2 Server, SNMPv1/v2 Server, SNMPv3 Server, TFTP Server, UPnP Server, Syslog, SNMP Trap

Routing: IS-IS, DVMRP, GRE, OSPFv2, OSPFv3, PIM-SM/DM, RSVP, VRRP, BGP4, RIP, RIPng, MPLS/LDP, HSRP, NHRP, CDP, OpenFlow

Remote Access: EAPOL Server, PPPoE, Diameter Server, Diameter Client, LDAPv3 Server, TACACS+ Server, TACACS+ NAS, RADIUS (Server, Client), Kerberos Server

VPN: IPsec, SSH1 Server, SSH2 Server, TLS/SSL, TLS 1.2, ISAKMP/ IKEv1 (Client, Server), IKEv2, OCSP (Client, Server), L2TPv2, X.509

VoIP/IMS: SCTP, H.248, H.323, RTSP (Client, Server), TLS/SSL, TLS 1.2, SIP UAS, SIP UAC, SigComp, RTP/RTCP/SRTP, MGCP, UPnP Server, X.509, BICC, SIP TT

3G/4G LTE: SCTP, GRE, IPsec, Diameter Server, Diameter Client, LDAP Server, TLS/SSL, TLS 1.2, SIP UAS, SIP UAC, GTPv1, GTPv0, RADIUS (Server, Client), GTPv2, SMPP, SMS/SMPP, SMS/PDU, PMIPv6

Digital Media: Audio (AIFF, AU, AMR, IMY, MP3, VOC, WAV), Images (BMP, GIF, JPEG, MBM, PCX, PNG, PIX, PNM, RAS, TIFF, WBMP, XBM, XPM, WMF), Video (AVI, QuickTime, MPEG1, MPEG2, MPEG4, MOV), Archives (ZIP, CAB, JAR, LHA, GZIP), vCalendar, vCard, MPEG2-TS, NFS Media, UPnP

Email: POP3, IMAP4, SMTP, MIME

File Systems / Storage: CIFS/SMB Server, iSCSI Server, SunRPC Server, SMBv2, NFSv2, NFSv3, NFSv4

WiFi: AP Test Suite, AP WPA Test Suite, Client Test Suite, Client WPA Test Suite

Link Management: LACP, STP, MSTP, RSTP, ESTP

Bluetooth: L2CAP, SDP, RFCOMM, OBEX, OPP, FTP, IrMC Synch, BIP, BPP, BNEP, HFP, HSP, DUN, PBAP, FAX, AVRCP, A2DP, HCRP, HID, SAP, MDP

IPTV: MPEG4, MPEG2, IPsec, TLS/SSL, TLS 1.2, RTP/RTCP, RTSP, HTTP, FTP, TFTP, IPv4, IPv6, PIM-SM/DM, RSVP, IGMP, CWMP(TR-69) ACS, CWMP(TR-69) CPE

PDA/Smartphone: IPv4, IPv6, DHCP/BOOTP, HTTP, TLS/SSL, TLS 1.2, UPnP, SIP, Audio, Images, Video, Bluetooth, 802.11, SMS/PDU, SMS/SMPP

Industrial Automation: (SCADA/DCS) Modbus, IPv4 (TCP, UDP, IPv4, ICMP, IGMP, ARP), IPv6 (TCP, UDP, IPv6, ICMPv6), Profinet, DNP3, IEC-61850/MMS, GOOSE-SV, IEC-104, TCF, OPC UA, CoAP, BACnet, CIP/EtherNet/IP

Metro Ethernet: BFD, CFM, E-LMI, Ethernet, GARP, LLDP, OAM, PBT/PBB-TE, L2TP

General Purpose: XML SOAP, Traffic Capture Fuzzer, Universal Fuzzer

Finance: FIX

Web Applications: FIX, JSON, OAuth, SOCKS Client, SOCKS Server, Traffic Capture Fuzzer, Universal Fuzzer, Web Applications Fuzzer, Web Sockets, XML file format, XML SOAP Server, XML SOAP Client

Web: HTTP, XML, Web Applications, Digital Media, Universal Fuzzer

Automotive: Bluetooth, WiFi, Digital Media, SMS, General purpose fuzzers

Protocols Supported: Defensics supports over 270 protocols. The following is a short list of the most commonly requested protocols.

ARP	FAX
AVRCP	FCoE
A2DP	FIP
BACnet	FIX
BGP4	FTP
bfd	GARP
BICC	GOOSE
BIP	GRE
BNEP	GTPv0
BPP	GTPv1
BOOTP	GTPv2
BT	HCRP
CDP	HDP
CFM	HFP
CIFS/SMB	HID
CIP/EtherNet/IP	HSP
CWMP (TR- 069)	H.248
CoAP	H.323
DHCP	HSRP
DHCPv6	HTTP
Diameter	iCalendar
DNP3	ICMP
DNS	ICMPv6
DNSSEC	IEC-104
DNS Zone Transfer	IEC-61850/MMS
DUN	IEEE 1588
DVMRP	IGMP
E-LMI	IKEv2
EAP	IMAP4
EAPoL	IPMI
ESTP	IPsec

IPv4	PBT/PBB-TE
IPv6	PIM-DM/SM
IS-IS	PBAP
ISAKMP/IKE	PFC
iSCSI	PMIPv6
JSON	POP3
Kerberos	PPPoE
L2TPv2	Profinet
L2TPv3	RADIUS
L2CAP	RFCOMM
LACP	RIP
LDAPv3	RIPng
LLDP	Rlogin
LPD	RSTP
MGCP	RSVP
MIME	RTCP
Modbus	RTP
MPEG2-TS	RTSP
MPEG4	SAP
MPLS/LDP	SCTP
MSTP	SDP
NFSv2	SigComp
NFSv3	SIP
NFSv4	SIP-I
NetBIOS	SMBv2
NHRP	SMBv3
NTP	SMS/PDU
OAM	SMS/SMPP
OCSP	SMTP
OSPFv2	SNMPv1
OSPFv3	SNMPv2c
OBEX	SNMPv3
OpenFlow	SMPP
OPC UA	SNMP Trap
OPP	SOCKS

SRTP
SSH1
SSH2
STP
STUN
SunRPC
SyncEthernet
Syslog
TACACS+
TCP
TCPv6
Telnet
TFTP
TLS/SSL
TLS 1.2
TURN
UDP
UPnP SSDP Control Point
UPnP SSDP Device
UPnP GENA Server
UPnP Multicast Eventing
UPnP SOAP
vCalendar
vCard
VLACP
VRRP
Web Applications
Web Sockets
WiFi
WPA1
WPA2
X.509
XML

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