

Technical Specifications

Supported Media and Network Types

Promiscuous mode: 10/100/1000 Mbps Ethernet

Non-promiscuous Mode: Virtual or Dial-up Adapters, Wireless Ethernet 802.11 a/b/g/n/ac

Operating Systems

Microsoft Windows 7, Windows 8, Windows 8.1, Windows 10, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2. Both 32- and 64-bit versions are supported.

System Requirements

Minimum: Intel Core 2 processor, 2 GB of RAM, 200 MB of disk space for program files. *Recommended:* Intel i7 processor, 4 GB of RAM, 200 MB of disk space for program files. Extra disk space is required for storing captured network content in the dataset.

Depending on the traffic volume and usage mode, the requirements may be higher. NetResident requires a running instance of MS SQL server.

Content Filtering

Content filtering can be performed by:

- Data source
- Network node
- Event date and time
- Network protocol

Supported Formats for Capture File Import

- CommView and CommView for WiFi native file format (NCF)
- Wireshark/PCAPNG
- Network Instruments Observer[®]
- Network General Sniffer[®] for DOS
- Network General Sniffer[®] for Windows
- Microsoft[®] NetMon
- WildPackets EtherPeek[™]
- WildPackets AiroPeek[™]
- Tcpdump (libcap)

Supported Network Content

Short Name	Protocols	Description
Web	HTTP, HTTPS	Web contents, such as Web pages. Used mostly by Web browsers.
FTP	FTP	File transfer protocol. Used for downloading and uploading files from/to FTP servers.
Mail	POP3, SMTP, IMAP	Sending and receiving e-mail.
Telnet	TELNET	Telnet console communications.
News	NNTP	Reading and posting news to newsgroups.
ICQ/AIM	ICQ/AIM	Used in ICQ, Pidgin, Miranda, QIP, and a few other instant messaging applications.
Jabber	XMPP	Used in Psi, Gajim, Pidgin, Miranda, and many other instant messaging applications.
IRC	IRC	Used in KVIrc, mIRC, XChat, and many other applications.
Yahoo	Yahoo Messenger Protocol	Used in Yahoo Messenger
WebMail	Web-based E-mail Systems	Sending and receiving e-mail using Web-based services. Currently, NetResident supports Gmail, Live mail, AOL, Yahoo! Mail, Web.de, Gmx.de.
WebSocial	Social Networks	Posting messages in social networks. Currently, NetResident supports Twitter, Facebook, LinkedIn, MySpace, Xing, Google+, Tumblr, StudiVZ, MeinVZ, VKontakte, SchuelerVZ, Odnoklassniki, LiveInternet, and LiveJournal.
FileShare	File Sharing Systems	Downloading and uploading files from/to file sharing services.
OWA	Outlook Web Access	Sending e-mails in Outlook Web Access.
iCloud	iCloud	Files downloaded from iCloud.
MRA	Mail.ru Agent	Messaging and group chats in Mail.ru Agent.
VoIP	VoIP	Voice calls using SIP and H.323 protocols and RTP voice streams.

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