



Supported Protocols and Applications

Layer-7 & Behavioral Protocol Signatures

ipoque's application classification engine is able to identify the protocol of network traffic based on a combination of deep packet inspection (DPI) and behavioral analysis – not matter if they are plain text or using advanced encryption and obfuscation techniques.

The following list includes all supported protocols (in bold) and the most important applications using these protocols. The most up-to-date version of this protocol list and more information about ipoque's products are available on our Web site <http://www.ipoque.com>.

Regular Signature Updates

Regular firmware updates available at least every two months ensure the continuing effectiveness of the protocol signatures. Every customer with a valid support contract gets an account on ipoque's support portal at <http://portal.ipoque.com>. Upon

availability of a new firmware, ipoque or the sales partner send e-mail notifications to all customers who can then download and install the update.

Custom Protocol Definition

Custom protocol definitions allow the administrator to specify protocol patterns based on the following criteria:

- Layer-4 protocol (i.e. TCP, UDP)
- Layer-4 ports (lists and ranges of source and destination ports)
- Layer-7 protocol
- HTTP host for HTTP-based layer-7 protocols
- Traffic direction (i.e. inbound, outbound)

These custom protocols can then be used in rule definitions just as normal layer-7 protocols. For example, this makes it possible to individually manage video streams of different Web platforms such as YouTube.

Supported Protocols and Applications

Peer-to-Peer (P2P)

AppleJuice

Ares

Ares
KCEasy

BitTorrent (encrypted and unencrypted)

ABC
Acquisition
Anatomic P2P
Arctic Torrent
Azureus / Vuze
BitComet
BitFlu
BitLord
BitPump
Bits on Wheels
BitSpirit
BitTornado
BitTorrent / Mainline
BitTyrant
Blizzard Downloader
Blog Torrent - BTG
BitManager
BTSharp
burst!
CTorrent
Deluge
FlashGet
freeloader
G3 Torrent
Gnome BitTorrent

Halite
KTorrent
LimeWire
Localhost
MLDonkey
MonoTorrent
MooPolice
Opera
Qbittorrent
QTorrent
rTorrent
Rufus
Shareaza
sharktorrent
SymTorrent
Tomato Torrent
TorrentFlux
TorrentSpy
Torrent Swapper
TorrentVolve
Transmission
Turbo Torrent
µTorrent
WizBit
XTorrent
ZipTorrent
DirectConnect
ApexDc++
BCDC++
CZDC
DC#

DC++
dc_gui
dctc
Dolda Connect
Elise
fulDC
GikDC
ldcc
LinuxDC++
microdc
microdc2
oDC
Revconnect
SababaDC
ShakesPeer
StrongDC++
Valknut
eDonkey
aMule
eDonkey2000
eMule and its Mads
obfuscated eMule ext.
eMule Plus
Hydranode
Jubster
Lphant
MLDonkey
Morpheus
Shareaza
xMule
Filetopia

Freenet

Gnutella

Acquisition
AcqLite
Apollon
Cabos
CocoGnut
DM2
FrostWire
giFT
Gnucleus
Gik-gnutella
Gluz
KCEasy
Kiwi Alpha
LimeWire
MLDonkey
Morpheus
Mutella
Phex
Poisoned
Qtella
Shareaza
Swapper.NET
Symella
XFactor
XNap
XoloX
iMesh
BearFlux
BearShare

iMesh

KaZaa / Fasttrack

Apollon
Grokster
Kazaa
Kazaa Lite
KCEasy
MLDonkey
Manolito
Blubster
Manolito
Piolet
Mute
OpenFT
OFF
Pando
SoulSeek
SoulSeek
pySoulSeek
Thunder / Webthunder
WinMX
Winy
XDCC
XDCC Catcher
XDCC Fetcher
XDCC Klipper



Instant Messaging (IM)

Gadu-Gadu	Jabber/Google Talk	MSN	Oscar	Paltalk
IRC	Gaim	Gaim	AIM	Yahoo
PoPo	Google Talk	Kopete	Gaim	Gaim
QQ	Kopete	Miranda	ICQ	original Yahoo client
	Miranda	original MSN client	Kopete	Kopete
	Trillian / Trillian Pro	Trillian / Trillian Pro	Miranda	Miranda
			Trillian / Trillian Pro	Trillian / Trillian Pro

Voice over IP (VoIP)/ Skype

H.323	OpenWengo	Skype v2.5.0.82	Skype v3.0.0.154	Skype v3.2.0.158
Ekiga	SipGate	Skype v2.5.0.91	Skype v3.0.0.190	Skype v3.2.0.163
NetMeeting	Twinkle	Skype v2.5.0.113	Skype v3.0.0.198	Skype v3.2.0.175
OpenH.323	Vonage	Skype v2.5.0.122	Skype v3.0.0.205	Skype v3.5.0.107
XMeeting	XMeeting	Skype v2.5.0.126	Skype v3.0.0.209	Skype v3.5.0.158
IAX	Skinny	Skype v2.5.0.130	Skype v3.0.0.214	Skype v3.5.0.178
DiAx	Skype	Skype v2.5.0.137	Skype v3.0.0.216	Skype v3.5.0.202
Firefly	Skype v2.0.0.43	Skype v2.5.0.141	Skype v3.0.0.217	Skype v3.5.0.214
IAXComm	Skype v2.0.0.63	Skype v2.5.0.146	Skype v3.0.0.218	Skype v3.5.0.229
IAXPhone	Skype v2.0.0.69	Skype v2.5.0.151	Skype v3.1.0.112	Skype v3.5.0.234
Idefisk	Skype v2.0.0.73	Skype v2.5.0.154	Skype v3.1.0.144	Skype v3.5.0.239
Kiax	Skype v2.0.0.76	Skype v2.6.0.67	Skype v3.1.0.150	Skype v3.6.0.115
LoudHush	Skype v2.0.0.79	Skype v2.6.0.74	Skype v3.1.0.152	Skype v3.6.0.127
PURtel	Skype v2.0.0.81	Skype v2.6.0.81	Skype v3.2.0.53	Skype v3.6.0.159
YakaPhone	Skype v2.0.0.90	Skype v2.6.0.97	Skype v3.2.0.63	Skype v3.6.0.248
ZiaxPhone	Skype v2.0.0.97	Skype v2.6.0.103	Skype v3.2.0.82	Skype v3.8.0.96
MGCP	Skype v2.0.0.103	Skype v2.6.0.105	Skype v3.2.0.115	Skype v3.8.0.188
SIP	Skype v2.0.0.105	Skype v3.0.0.106	Skype v3.2.0.145	SkypeBeta v4.0.0.176
Ekiga	Skype v2.0.0.107	Skype v3.0.0.123	Skype v3.2.0.148	
Gizmo	Skype v2.5.0.72	Skype v3.0.0.137	Skype v3.2.0.152	

Standard Protocols

Citrix	RDP	easy-share.com	keepmyfile.com	sharebig.com
BGP	SMB/CIFS	filearchiv.ru	livedepot.net	sharebigfile.com
DHCP	SMTP	filecloud.com	live-share.com	sharebigfile.com
DNS	SNMP	filefactory.com	mediafire.com	megashare.com
EGP	SSDP	filefront.com	megashares.com	speedshare.org
FTP	STUN	filehost.tv	megaupload.com	turbouupload.com
HTTP	Telnet	filesafe.to	mofile.com	ultrashare.de
ICMP	Usenet	filesend.net	mofile.net	up-file.com
IGMP	VNC	files.to	mytempdir.com	uploaded.to
IMAP	DirectDownload Link (DDL)	files-upload.com	quicksharing.com	uploading.com
MySQL	4shared.com	file-upload.net	rapidshare.com	uploadingit.com
NFS	badongo.com	file-upload.to	rapidshare.de	uploadpower.com
NTP	badongo.net	fileuypours.com	rapidupload.com	uploadyourfiles.de
OSPF	bestsharing.com	ftp2share.com	savefile.com	wiiupload.net
pcAnywhere	bigfilez.com	gigasize.com	sendmefile.com	yourfilehost.com
POP3	chinamofile.com	gigashare.com	sendspace.com	yourfiles.biz
PostgreSQL	depositfiles.com	ifolder.ru	sharebee.com	zshare.net

Streaming Protocols

AVI	Icecast	QQ	TVAnts
Feidian	Kontiki	QuickTime	TVUPlayer
Flash*	MMS	Real Media Stream	UUSee
clipfish.de	Move	RTP	VCAST
myspace.com	MPEG	RTSP	VeohTV
myvideo.de	OGG	SCTP	Windows Media Stream
youporn.com	ORB	SHOUTcast	Zattoo
youtube.com	PPLive	Slingbox	
etc.	PPStream	SopCast	

* Website-embedded flash content

Tunnel Protocols

SSL	SMTSPS	IPsec	Tor
HTTPS	Stunnel	OpenVPN	VPN-X
IMAPS	GRE	SoftEthernet	VTun
POP3S	HamachiVPN	SSH	

Gaming Protocols

Battlefield	Quake	Steam	Xbox
Half-Life 2 and Mods	SecondLife	World of Warcraft	

Distributor

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