

# Supported Protocols and Applications

## Layer-7 & Behavioral Protocol Signatures

ipoque's protocol and application classification engine (PACE) is able to identify the protocol of network traffic based on a combination of deep packet inspection (DPI) and behavioral analysis – no matter if they are plain text or use advanced encryption and obfuscation techniques.

The following list includes all supported protocols (in bold), sub-protocols for some of them (in italic), and the most important applications using these protocols (in normal letters). The current 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 PACE updates are available at least once a month to ensure the continuing effectiveness of the protocol signatures. Updates can be downloaded from ipoque's support portal at <http://portal.ipoque.com>. Please note that firmware updates for

PRX Traffic Manager and DPX Network Probe have different release schedules.

## 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 list or URL list for HTTP-based layer-7 protocols
- Traffic direction (i.e. inbound, outbound)
- SSL-certificate information for encrypted traffic

Custom protocol definitions can be used in rule definitions just as standard layer-7 protocols. For example, this enables the individual traffic management for video streams of different Web platforms such as YouTube.

## Supported Protocols and Applications

### Peer-to-Peer (P2P)

<b>Aimini</b>	Azureus / Vuze 4.1.0.2	BitComet 1.21	Blizzard Downloader	LimeWire 4.14.8
Aimini 1.9	Azureus / Vuze 4.1.0.4	BitComet 1.22	BTG 0.9.2	LimeWire 4.16.7
<b>AppleJuice</b>	Azureus / Vuze 4.2.0.0	BitFlu 0.91	BitManager 1.99.4	LimeWire 4.17.3
AppleJuice 0.29.142.229	Azureus / Vuze 4.2.0.2	BitFlu 1.21	BTSharp 3.1.0b	LimeWire 4.18.1
AppleJuice 0.30.146	Azureus / Vuze 4.2.0.8	BitLord 0.56	burst! 3.1.0b	LimeWire 4.18.3
AppleJuice 0.31.149.110	Azureus / Vuze 4.2.0.8a	BitLord 1.01	CTorrent 1.3.4	LimeWire 4.18.8
<b>ANts P2P</b>	Azureus / Vuze 4.2.0.9	BitLord 1.1	Deluge 1.1.9	LimeWire 5.0.11
ANts P2P 1.6	Azureus / Vuze 4.3.0.0	BitLord 1.2 Beta	Deluge 1.2.0	LimeWire 5.1.2
<b>Ares</b>	Azureus / Vuze 4.3.0.1	BitLord 2.0 Beta	Deluge 1.2.0_rc1	LimeWire 5.2.13
Ares 1.9.2	Azureus / Vuze 4.3.0.2	BitPump	Deluge 1.2.0_rc2	LimeWire 5.3.0 Beta
Ares 2.0.8	Azureus / Vuze 4.3.0.4	Bits on Wheels 1.0.6	Deluge 1.2.0_rc3	LimeWire 5.3.6
Ares 2.0.9	Azureus / Vuze 4.3.0.4a	BitSpirit 3.6.0.200	Deluge 1.2.0_rc4	LimeWire 5.4.5
Ares 2.1.1.3035	Azureus / Vuze 4.3.0.5	BitSpirit 3.6.0.300	Deluge 1.2.0_rc5	LimeWire 5.4.6
Ares 2.1.6.3040	Azureus / Vuze 4.3.0.6	BitSpirit 3.6.0.315	Deluge 1.2.1	LimeWire 5.4.7
Filepipe 2.7	Azureus / Vuze 4.3.0.7	BitSpirit 3.6.0.330	Deluge 1.2.2	LimeWire 5.4.8
KCEasy 0.19	Azureus / Vuze 4.3.1.0	BitSpirit 3.6.0.336	Deluge 1.2.3	LimeWire 5.5.5
<b>BitTorrent</b>	Azureus / Vuze 4.3.1.0a	BitSpirit 3.6.0.362	Deluge 1.3.0_rc1	LimeWire 5.5.6
<i>BitTorrent-plain</i>	Azureus / Vuze 4.3.1.1	BitSpirit 3.6.0.401	FlashGet 1.9.6	LimeWire 5.5.7
<i>BitTorrent-encrypted</i>	Azureus / Vuze 4.3.1.2	BitSpirit 3.6.0.403	FlashGet 3.2.0.1060 Beta	LimeWire 5.5.8
ABC 3.1	Azureus / Vuze 4.3.1.4	BitTornado 0.3.17	FlashGet 3.3.0.1092	LimeWire 5.5.9
Acquisition 2.1	Azureus / Vuze 4.3.1.5	BitTornado 0.3.18	FlashGet 3.5.0.1126	LimeWire 5.5.14
Anatomic P2P 0.1	Azureus / Vuze 4.4.0.0	BitTorrent / Mainline 4.26.0	Freeloader	MLDonkey 3.0.0
Arctic Torrent 1.2.3	Azureus / Vuze 4.4.0.1	BitTorrent / Mainline 5.0.0 - 5.0.9	FrostWire 4.20.9.0	MonoTorrent 0.72
Azureus / Vuze 2.3.0.6	Azureus / Vuze 4.4.0.2	BitTorrent / Mainline 6.0.1 - 6.0.3	G3 Torrent 1.01	MooPolice 2.0
Azureus / Vuze 2.4.0.2	Azureus / Vuze 4.4.0.4	BitTorrent / Mainline 6.1.1	Gnome BitTorrent 0.0.32	MooPolice 2.2
Azureus / Vuze 2.5.0.0	Azureus / Vuze 4.4.0.6	BitTorrent / Mainline 6.1.2	Halite 0.3.1	MooPolice 2.3
Azureus / Vuze 2.5.0.2	Azureus / Vuze 4.5.0.4	BitTorrent / Mainline 6.1.2a	Halite 0.3.2	MooPolice 2.4
Azureus / Vuze 3.0	BitComet 0.61 - 0.91	BitTorrent / Mainline 6.2	Halite 0.3.2.1	Opera 10.00
Azureus / Vuze 3.0.0.9.4b	BitComet 0.93	BitTorrent / Mainline 6.2a	Halite 0.3.2.2	Opera 10.63
Azureus / Vuze 3.0.1.6a	BitComet 0.96	BitTorrent / Mainline 6.2b	KTorrent 3.2.3	Pando 2.5.1.4
Azureus / Vuze 3.0.3.0	BitComet 0.99	BitTorrent / Mainline 6.2c	KTorrent 3.3beta	qBittorrent 1.5.1
Azureus / Vuze 3.0.5.0	BitComet 1.0	BitTorrent / Mainline 6.3	q 3.3.4	qBittorrent 2.4.2
Azureus / Vuze 3.0.5.2	BitComet 1.01 - 1.10	BitTorrent / Mainline 6.3a	LimeWire 4.12.11	QTorrent 0.9.5
Azureus / Vuze 3.0.5.2a	BitComet 1.14	BitTorrent / Mainline 6.3b	LimeWire 4.12.15	rTorrent 0.8.5
Azureus / Vuze 3.0.5.2b	BitComet 1.15	BitTorrent / Mainline 6.3c	LimeWire 4.12.6	rTorrent 0.8.6
Azureus / Vuze 3.1.0.0	BitComet 1.16	BitTorrent / Mainline 6.4	LimeWire 4.13.0 Beta	Rufus 0.6.9
Azureus / Vuze 3.1.1.0	BitComet 1.17	BitTorrent / Mainline 6.4a	LimeWire 4.13.14	Rufus 0.7 Beta
Azureus / Vuze 4.0.0.2	BitComet 1.18	BitTorrent / Mainline 6.4b	LimeWire 4.13.14	Shareaza 2.2.5.3
Azureus / Vuze 4.0.0.4	BitComet 1.19	BitTorrent / Mainline 7.1	LimeWire 4.13.2 Beta	Shareaza 2.3.1.0
Azureus / Vuze 4.1.0.0	BitComet 1.20	BitTyrant 1.1.1	LimeWire 4.14.10	Shareaza 2.4.0.0

## ... Peer-to-Peer (P2P)

Shareaza 2.5	DC++ 0.691	Shareaza 2.4.0.0	LimeWire 5.3.0 Beta	OFF 0.17.00
Shareaza 2.5.1	DC++ 0.695	Shareaza 2.5.3.0	LimeWire 5.5.13	OFF 0.19.13
Shareaza 2.5.2	DC++ 0.698	WinMX MP3 4.7.0	Morpheus 5.4.0.1080	OFF 0.19.34
Shareaza 2.5.3	DC++ 0.699	xMule 1.13.6	Morpheus 5.5.1	<b>Pando</b>
Shareaza 7.0.0.91481	DC++ 0.705	XoloX 2.0	Morpheus 5.7.1	Pando 1.5.5.1
Sharktorrent 0.1.8.4	DC++ 0.7091	<b>Filetopia</b>	Mutella 0.4.5	Pando 1.6
Sharktorrent 0.2.0.4	DC++ 0.750	Filetopia 3.04	Phex 3.4.2.116	Pando 2.0.0.5
SymTorrent 1.41	DC++ 0.770	<b>Freenet</b>	Poisoned 0.5191	Pando 2.0.2.2
Tomato Torrent 1.5.1	DCTC 0.85.9	Freenet 0.7	Qtella 0.7.0	Pando 2.0.3.0
TorrentFlux 2.4	Dolda Connect 1.3	Freenet 0.7.5	Shareaza 2.4.0.0	Pando 2.3.0.0
TorrentSpy	Elise 0.005	<b>Gnutella</b>	Swapper.NET 4.5.1.660.30216	Pando 2.3.0.2
Torrent Swapper 1.0	fulDC 6.78	Acquisition 2.1	Symella 1.40	Pando 2.3.2.3
TorrentVolve 1.4 Beta	fulDC 6.79	Acquisition 2.2.1	WinMX MP3 4.7.0	Pando 2.5.1.4
Transmission 1.74	GtkDC	AcqLite 0.3.5	XFactor	<b>SoulSeek</b>
Transmission 1.93	LDCC	AcqLite 0.4.1	XNap 3.0	SoulSeek 156
Turbo Torrent	LinuxDC++ 1.0.2	Apollon 1.0.2.1	XoloX 2.0	SoulSeek 156b
µTorrent 1.6	Microdc	BearFlix 1.2	<b>iMesh</b>	SoulSeek 156c
µTorrent 1.6.2	Microdc2 0.15.6	Cabos 0.8.1	BearShare 6.1	SoulSeek 157 NS 13e
µTorrent 1.7	oDC 5.31	Cabos 0.8.2	BearShare 7.0-7.1	SoulSeek 157 test 8
µTorrent 1.7.2	Revconnect 0.674	CocoGnut 1.21	iMesh 7.1	SoulseekX 1.0b6
µTorrent 1.7.5	SababaDC 1.02	DM2 1.23.1	iMesh 7.2.0	pySoulSeek 1.2.7c
µTorrent 1.7.7	ShakesPeer 0.9.5	Filepipe	iMesh 8.1.0.60.352	<b>StealthNet</b>
µTorrent 1.7 Beta	ShakesPeer 0.9.11	FrostWire 4.18.1	iMesh 9.0	StealthNet 0.8.7.7
µTorrent 1.8.0	StrongDC++ 2.3.0	FrostWire 4.20.9.0	iMesh 10.0	<b>Thunder / WebThunder</b>
µTorrent 1.8.0rc2	StrongDC++ 2.4.1	giFT 0.0.11	iMesh Lite 5.0.2	Thunder / WebThunder
µTorrent 1.8.0rc6	Valknut 0.49	Gnucleus 1.8.6.0	Lphant 4.0	Thunder / WebThunder
µTorrent 1.8.1	<b>eDonkey</b>	Gnucleus 2.0.2.0	Lphant 5.1	Thunder / WebThunder
µTorrent 1.8.2	<i>eDonkey-plain</i>	Gtk-gnutella 0.96.6	Shareaza 7.0	Thunder / WebThunder
µTorrent 1.8.3 Beta	<i>eDonkey-encrypted</i>	Gluz	<b>KaZaa / Fasttrack</b>	Thunder / WebThunder
µTorrent 1.8.3 Stable	aMule 2.2.5	iMesh Light 5.0.2	Apollon 1.0.2.1	Thunder / WebThunder
µTorrent 1.8.4	aMule 2.1.3	KCEasy 0.19	iMesh Light 5.0.2	Thunder / WebThunder
µTorrent 1.8.5	aMule 2.2.3	KCEasy 0.19-rc1	Kazaa 3.2.7	Thunder / WebThunder
µTorrent 2.0 Beta	aMule 2.2.6	Kiwi Alpha 3.1.4	Kazaa Lite	Thunder / WebThunder
µTorrent 2.0.4	eDonkey2000 1.4.5	LimeWire 4.12.11	Mammoth 0.1.3	Thunder / WebThunder
WizBit	eMule 0.46c	LimeWire 4.12.15	Filepipe	Thunder / WebThunder
Xtorrent 1.1	eMule 0.47a-0.47c	LimeWire 4.12.6	<b>Manolito</b>	5.9.7.1062
Xtorrent 2.0	eMule 0.48a	LimeWire 4.13.0 Beta	Blubster 3.02	<b>WinMX</b>
ZipTorrent	eMule 0.49a-0.49c	LimeWire 4.13.14	Blubster 3.1.1	WinMX 3.53
<b>DirectConnect</b>	eMule 0.50a	LimeWire 4.13.2 Beta	Manolito 1.18-1.19	WinMX 3.54 Beta 4
<i>DirectConnect-hub</i>	obfuscated eMule	LimeWire 4.14.10	Manolito 3.07	XNap 2.5r3
<i>DirectConnect-peer</i>	eMule Plus 1.2e	LimeWire 4.14.8	Manolito 3.1.1	<b>Winny</b>
<i>DirectConnect-adc-peer</i>	Hydranode 0.3.0	LimeWire 4.16.7	Piolet 3.07	Winny 2.0b7.1
ApexDc++ 1.2.1	Jubster	LimeWire 4.17.3	Piolet 3.1.1	<b>XDCC</b>
ApexDc++ 1.3.4	Lphant 3.0	LimeWire 4.18.1	<b>Mute</b>	XDCC Catcher 2.3
BCDC++ 0.750b	Lphant 3.50-3.51	LimeWire 4.18.3	Mute 0.5.1	XDCC Fetcher 1.409
BCDC++ 0.770ax	MLDonkey 3.0.0	LimeWire 4.18.8	<b>OpenFT</b>	XDCC Fetcher 1.432
CZDC 0.699b2	MLDonkey 3.0.3	LimeWire 5.0.11	OpenFT 0.5.2	XDCC Klipper 4.5
CZDC 0.699c	Morpheus 5.4.0.1080	LimeWire 5.1.2	Filepipe	
DC#	Morpheus 5.5.1	LimeWire 5.2.13	<b>OFF</b>	

## Instant Messaging (IM)

<b>Gadu-Gadu</b>	Miranda 0.7.6-0.7.7	GMX Multimessenger 3.01.2047	Nimbuzz 1.3.0	Windows Live 14.0.8050.1202
<i>Gadu-Gadu-server</i>	Miranda 0.8.0a25	GMX Multimessenger 3.70.2815	<b>MSN</b>	Windows Live 14.0.8064.206
<i>Gadu-Gadu-file-transfer</i>	Miranda 0.8.0a27	Google Talk 1.0.0.92	<i>MSN-unknown</i>	Windows Live 14.0.8117.416
<i>Gadu-Gadu-voice</i>	Miranda 0.9.0	Google Talk 1.0.0.104	<i>MSN-voice</i>	<b>Oscar</b>
Adium 1.3.10	mIRC 6.3.2	Google Talk 1.0.0.105	<i>MSN-video</i>	<i>Oscar-unknown</i>
GaduGadu 17.02.09	mIRC 7.1	iChat 5.0.3	<i>MSN-file-transfer</i>	<i>Oscar-file-transfer</i>
GaduGadu 4.04.09	<b>Meebo</b>	Kopete 1.0	Adium 1.3.10	<i>Oscar-picture-transfer</i>
GaduGadu 01.09.09	<b>PoPo</b>	Miranda 0.6.6-6.6.8	Aytm 0.4.6	<i>Oscar-voice</i>
GaduGadu 7.7	PoPo 2009beta1	Miranda 0.7.13-0.7.14	GMX Multimessenger 3.01.2047	<i>Oscar-video</i>
GaduGadu 10	<b>QQ</b>	Miranda 0.7.17	GMX Multimessenger 3.70.2815	AIM 1.2
Miranda 0.6.6-6.6.8	QQ 2005	Miranda 0.7.6-0.7.7	Kopete 1.0	AIM 6.1
Miranda 0.7.13-0.7.14	QQ 2007beta3	Miranda 0.8.0a25	Miranda 0.6.6-0.6.6.8	AIM 6.8
Miranda 0.7.17	QQ 2009	Miranda 0.8.0a27	GMX Multimessenger 3.01.2047	GMX Multimessenger 3.70.2815
Miranda 0.7.6-0.7.7	QQ 2009beta2	Miranda 0.9.0	Miranda 0.7.17	ICQ 5.1
Miranda 0.8.0a25	QQ International beta3	Pidgin (previously Gaim) 2.6.2	Miranda 0.7.6-0.7.7	ICQ 6
Miranda 0.8.0a27	<b>Jabber/Google Talk (XMPP)</b>	Psi 0.11	Miranda 0.8.0a25	ICQ 6.5
Miranda 0.9.0	<i>Jabber-unknown</i>	Psi 0.13	Miranda 0.8.0a27	ICQ 7.2
<b>IM+</b>	<i>Jabber-voice</i>	Psi 0.14	Miranda 0.9.0	Kopete 1.0
IM+ 4.3	<i>Jabber-video</i>	Qnext 3.0.4.64beta	Pidgin 2.6.2 (previously Gaim)	Miranda 0.6.32
<b>IRC</b>	<i>Jabber-file-transfer</i>	Qnext 4.0.4.42beta	Pidgin 2.7.3	Miranda 0.6.6-0.6.8
<i>IRC-unknown</i>	<i>Google Talk-unknown</i>	Trillian/Trillian Pro 3.1	Trillian/Trillian Pro 3.1.12.0	Miranda 0.7.13-0.7.14
<i>IRC-file-transfer</i>	<i>Google Talk-voice</i>	Trillian/Trillian Pro 3.1.12.0	Trillian/Trillian Pro 3.1.9.0	Miranda 0.7.17
Aytm 0.4.6	<i>Google Talk-video</i>	Trillian/Trillian Pro 3.1.9.0	Qnext 3.0.4.64beta	Miranda 0.7.6-0.7.7
Miranda 0.6.6-6.6.8	<i>Google Talk-file-transfer</i>	Web.de Multimessenger 3.01.2048	Qnext 4.0.4.42beta	Miranda 0.8.0a25
Miranda 0.7.13-0.7.14	Adium 1.3.10	Web.de Multimessenger 3.70.2816	Web.de Multimessenger 3.01.2048	Miranda 0.7.6-0.7.7
Miranda 0.7.17	Aytm 0.4.6	<b>Jabber App Nimbuzz</b>	Web.de Multimessenger 3.70.2816	Miranda 0.8.0a27

## ... Instant Messaging (IM)

Miranda 0.9.0	Paltalk 17705	Gaim	original Yahoo client 3.5	original Yahoo client 10.0.0.1270
Pidgin 2.6.2 (previously Gaim)	Paltalk 17710	GMX Multimessenger 3.01.2047	original Yahoo client 4.1	Pidgin 2.6.2 (previously Gaim)
Pidgin 2.7.3	Paltalk 17716	GMX Multimessenger 3.70.2815	original Yahoo client 5.0	Pidgin 2.7.3
Trillian/Trillian Pro 3.1.12.0	Paltalk 17772	Kopete 1.0	original Yahoo client 5.5	Qnext 3.0.4.64beta
Trillian/Trillian Pro 3.1.9.0	Web.de Multimessenger	Miranda 6.3.2	original Yahoo client 5.6	Qnext 4.0.4.42beta
Qnext 3.0.4.64beta	Qnext	Miranda 0.6.6 - 0.6.8	original Yahoo client 6.0	Trillian/Trillian Pro 3.1.12.0
Qnext 4.0.4.42beta	<b>Yahoo</b>	Miranda 0.7.13 - 0.7.14	original Yahoo client 6.1	Trillian/Trillian Pro 3.1.9.0
Web.de Multimessenger 3.01.2048	<i>Yahoo-unknown</i>	Miranda 0.7.17	original Yahoo client 7.4	Web.de Multimessenger 3.01.2048
Web.de Multimessenger 3.70.2816	<i>Yahoo-voice</i>	Miranda 0.7.6 - 0.7.7	original Yahoo client 7.5.0.647	Web.de Multimessenger 3.70.2816
<b>Paltalk</b>	<i>Yahoo-video</i>	Miranda 0.8.0a25	original Yahoo client 8.0	
<i>Paltalk-server</i>	<i>Yahoo-file-transfer</i>	Miranda 0.8.0a27	original Yahoo client 8.1.0.421	
<i>Paltalk-file-transfer</i>	<i>Yahoo-webchat</i>	Miranda 0.9.0	original Yahoo client 9.0.0.2152	
<i>Paltalk-voice</i>	Aytm 0.4.6	original Yahoo client 3.0	original Yahoo client 9.0.0.2162	

## Standard Protocols

<b>BGP</b>	<b>pcAnywhere</b>	<b>Usenet</b>	<i>DDL-gigasize.com</i>	<i>DDL-ultrashare.de</i>
<b>DHCP</b>	<b>PPP</b>	<b>VNC</b>	<i>DDL-gigashare.com</i>	<i>DDL-up-file.com</i>
<b>DNS</b>	<b>POP3</b>	<b>Direct Download Link (DDL)</b>	<i>DDL-ifolder.ru</i>	<i>DDL-uploaded.to</i>
<b>EGP</b>	<b>RADIUS</b>	<i>DDL-4shared.com</i>	<i>DDL-live-share.com</i>	<i>DDL-uploading.com</i>
<b>FTP</b>	RADIUS	<i>DDL-badongo.com</i>	<i>DDL-mediafire.com</i>	<i>DDL-uploadingit.com</i>
<i>FTP-control</i>	Syratel Radius	<i>DDL-badongo.net</i>	<i>DDL-megashare.com</i>	<i>DDL-uploadyourfiles.de</i>
<i>FTP-data</i>	<b>RDP</b>	<i>DDL-bigfilez.com</i>	<i>DDL-megashares.com</i>	<i>DDL-wiiupload.net</i>
<b>HTTP</b>	<b>RDS</b>	<i>DDL-easy-share.com</i>	<i>DDL-megaupload.com</i>	<i>DDL-yourfilehost.com</i>
<b>HTTP App ACTIVESYNC</b>	<b>SMB/CIFS</b>	<i>DDL-filearchiv.ru</i>	<i>DDL-mofile.com</i>	<i>DDL-yourfiles.biz</i>
<b>ICMP</b>	<b>SMTP</b>	<i>DDL-filecloud.com</i>	<i>DDL-quicksharing.com</i>	<i>DDL-zshare.net</i>
<b>IGMP</b>	<b>SNMP</b>	<i>DDL-filefactory.com</i>	<i>DDL-rapidshare.com</i>	<i>DDL-hostggg.com</i>
<b>IMAP</b>	<b>SSDP</b>	<i>DDL-filefront.com</i>	<i>DDL-rapidshare.de</i>	<i>DDL-megarotic.com</i>
<b>IPP</b>	<b>STUN</b>	<i>DDL-fileho.com</i>	<i>DDL-rapidupload.com</i>	<i>DDL-load.to</i>
<b>Mapi</b>	<b>Syslog</b>	<i>DDL-filepost.ru</i>	<i>DDL-sendspace.com</i>	<i>DDL-filebase.to</i>
<b>MulticastDNS</b>	<b>TDS</b>	<i>DDL-filer.net</i>	<i>DDL-sharebee.com</i>	<i>DDL-netload.in</i>
<b>NETBIOS</b>	<b>TeamViewer</b>	<i>DDL-files.to</i>	<i>DDL-vip-file.com</i>	<i>DDL-massmirror.com</i>
<b>NFS</b>	<b>Telnet</b>	<i>DDL-fileupload.net</i>	<i>DDL-adrive.com</i>	<b>XDMCP</b>
<b>NTP</b>	<b>TFTP</b>	<i>DDL-fileupyors.com</i>	<i>DDL-simpleupload.net</i>	
<b>OSPF</b>	<b>UltraBac</b>	<i>DDL-ftp2share.com</i>	<i>DDL-speedshare.org</i>	

## Voice over IP (VoIP)

<b>Fring</b>	<i>MGC-rtp</i>	<b>Skinny</b>	Skype v3.1.0.152	Skype v3.6.0.248
<i>Fring-unknown</i>	<b>ooVoo</b>	<b>Skype</b>	Skype v3.2.0.53	Skype v3.8.0.96
<i>Fring-voice</i>	<b>RTCP</b>	<i>Skype-unknown</i>	Skype v3.2.0.63	Skype v3.8.0.115
<b>H.323</b>	<b>SIP</b>	<i>Skype-voice</i>	Skype v3.2.0.82	Skype v3.8.0.139
Ekiga 3.2.0	<i>SIP-unknown</i>	<i>Skype-out</i>	Skype v3.2.0.115	Skype v3.8.0.154
Ekiga 3.2.6	<i>SIP-msn</i>	<i>Skype-video</i>	Skype v3.2.0.145	Skype v3.8.0.180
NetMeeting 3.01	<i>SIP-yahoo</i>	Skype v2.6.0.105	Skype v3.2.0.148	Skype v3.8.0.188
OpenH.323 1.19.0.1	<i>SIP-vonage</i>	Skype v2.8.0.851	Skype v3.2.0.152	Skype Beta v4.0.0.176
XMeeting 0.4p2	<i>SIP-oscar</i>	Skype v3.0.0.106	Skype v3.2.0.158	Skype Beta v4.0.0.226
<b>IAX</b>	<i>SIP-gadu-gadu</i>	Skype v3.0.0.123	Skype v3.2.0.163	Skype v4.0.0.195
Diax 0.9.14	<i>SIP-oscar-video</i>	Skype v3.0.0.137	Skype v3.2.0.175	Skype v4.0.0.206
Firefly 3.3.2	<i>SIP-yahoo-video</i>	Skype v3.0.0.154	Skype v3.5.0.107	Skype v4.0.0.215
IAXComm 1.2.0	<i>SIP-ichat-faceime</i>	Skype v3.0.0.190	Skype v3.5.0.158	Skype v4.0.0.216
IAXPhone 2.1beta3	Ekiga 3.2.0	Skype v3.0.0.198	Skype v3.5.0.178	Skype v4.0.0.224
Idefisk/Zoiper 2.22	Ekiga 3.2.6	Skype v3.0.0.205	Skype v3.5.0.202	Skype v4.0.0.226
Kiax 2.1beta2	Gizmo 3.1.2.291	Skype v3.0.0.209	Skype v3.5.0.214	Skype v4.1.0.136
LoudHush 1.3.21	iPhone Facetime iOS 4.0.2	Skype v3.0.0.214	Skype v3.5.0.229	Skype v4.1.0.141
PURtel	OpenWengo/	Skype v3.0.0.216	Skype v3.5.0.234	Skype v4.1.0.166
YakaPhone 1.4.2	QuiteCom 2.2rc3	Skype v3.0.0.217	Skype v3.5.0.239	Skype v5.0.0.152
ZiaxPhone 0.8	SipGate	Skype v3.0.0.218	Skype v3.6.0.115	Skype Beta v5.0.0.6378
<b>Iskoot</b>	Twinkle 1.4.2	Skype v3.1.0.112	Skype v3.6.0.127	<b>Truphone</b>
<b>MGCP</b>	Vonage 0.9.3	Skype v3.1.0.144	Skype v3.6.0.159	<b>Teamspeak</b>
<i>MGCP-control</i>	XMeeting 0.4p2	Skype v3.1.0.150	Skype v3.6.0.244	

## Streaming Protocols

<b>AVI</b>	myvideo.de	Windows Media Player 11	VLC 1.0.5	<b>ORB-server</b>
<b>Feidian</b>	youporn.com	<b>Move</b>	VLC 1.1.4	<b>ORB-client</b>
Feidian 1.0.1.32	youtube.com	<b>MPEG</b>	Winamp 3.531	<b>ORB-client-rtsp</b>
Feidian 1.3.1	etc.	Jupster 4.0.0	Winamp 5.56	<b>ORB-client-rdt</b>
<b>Flash*</b>	<b>Funshion</b>	Screamer Radio 0.3.8	Winamp 5.581	<b>ORB-client-mwv</b>
BBC	<b>IPTV</b>	Screamer Radio 0.4.3	<b>OGG</b>	<b>ORB-client-wma</b>
clipfish.de	T-Home/TV2 1.2.46058.8	Screamer Radio 0.4.4	Icecast 2.3.2	<b>ORB-client-flash</b>
Coolstream	<b>Kontiki</b>	VLC 0.8.6h	<b>ORB</b>	<b>ORB-client-flv</b>
myspace.com	<b>MMS</b>	VLC 1.0.2	<b>ORB-unknown</b>	<b>ORB-client-3gp</b>

\*Website-embedded flash content

## ... Streaming Protocols

<b>ORB-clientupload-download</b>	PPLive 2.1.0.0011	QQLive 8.0	Slingbox 2.0.2481	TVUPlayer 2.5.3.1
ORB 1.01.0695	PPLive 2.2.1	QQLive 8.32	Slingbox 2.0.3508	<b>UUSee</b>
ORB 2.00.0873	PPLive 2.2.2	<b>QuickTime</b>	<b>SopCast</b>	UUSee 2.0.0.11
ORB 2.00.0885	PPLive 2.3.4.0024	iTunes 7.6.2.9	SopCast 1.1.1	UUSee 2007
ORB 2.00.0930	PPLive 2.6.3	iTunes 9.0.1	SopCast 2.0.4	UUSee 2008
ORB 2.01.0025	<b>PPStream</b>	QuickTime 7.6.4	SopCast 3.0.3	UUSee 2010
ORB 2.01.0026	PPStream 1.0.18.29	QuickTime 7.6.8	SopCast 3.2.4	<b>V CAST</b>
ORB 2.01.0028	PPStream 1.0.4.641	<b>Real Media</b>	SopCast 3.2.9	<b>VeohTV</b>
ORB 2.01.0039	PPStream 2.2.27.1067	RealMediaPlayer 11	<b>Spotify</b>	VeohTV Web Player 1.1.3beta
ORB 2.01.0042	PPStream 2.2.34.1122	RealMediaPlayer 14	Spotify 0.4.8	VeohTV Web Player 1.2.2.1112
ORB 2.50.0185	PPStream 2.6.84.6000	<b>RTP</b>	<b>TVAnts</b>	VeohTV 3.9.6.1048
ORB 2.57.0010	PPStream 2.6.86.7800	<b>RTSP</b>	TVAnts 1.0.0.59	<b>Windows Media Stream</b>
<b>Octoshape</b>	PPStream 2.6.86.8250	<b>SCTP</b>	TVAnts 1.0.0.59.0835	<b>Zattoo</b>
CNN strreaming	PPStream 2.6.86.8800	<b>SHOUTcast</b>	<b>TVUPlayer</b>	Zattoo 3.1.0
<b>Pandora</b>	PPStream 2.7.0.1148	Fishradio 1.1	TVUPlayer 2.3.2	Zattoo 3.3.3 - 3.3.4
<b>PPLive</b>	<b>QQ</b>	iTunes 10.0.1.22	TVUPlayer 2.3.6beta1	Zattoo 3.0.5beta
PPLive 1.8.7	<b>QQLive</b>	<b>Slingbox</b>	TVUPlayer 2.4.1.0	Zattoo 3.1.1.11916
PPLive 1.9.23	QQLive 5.01	Slingbox 1.3.0	TVUPlayer 2.4.5.1	Zattoo 3.3.1.18350
PPLive 2.0.21	QQLive 7.3	Slingbox 1.4.0	TVUPlayer 2.4.8.2	Zattoo 4.0.5

## Tunnel Protocols

<b>SSL</b>	<i>GTP-control</i>	<b>L2TP</b>	<b>PPTP</b>	<b>VTun</b>
HTTPS	<i>GTP-user-data</i>	OpenL2TP 1.6	<b>SoftEthernet</b>	VTun 3.0.2-1.1
IMAPS	<b>HamachiVPN</b>	<b>NetMotion</b>	<b>SSH</b>	<b>YourFreedom</b>
POP3S	HamachiVPN 1.0.3.0	NetMotion 9.1	<b>Teredo</b>	<b>Socks</b>
SMTPS	<b>IP in IP</b>	<b>OpenVPN</b>	<b>Tor</b>	Socks v4
Stunnel	<b>IPsec</b>	Hotspot Shield 1.3	Tor 0.1.10	Socks v5
<b>GRE</b>	<b>IPsec UDP</b>	MyFreedom 2.1-rc9	<b>VoipSwitch VoIP Tunnel</b>	
<b>GTP</b>	<b>ISAKMP</b>	OpenVPN 2.1-rc11	<b>VPN-X</b>	

## Gaming Protocols

<b>Armagetron</b>	<b>Half-Life 2 and Mods</b>	<b>Sina Game</b>
<b>Battlefield</b>	<b>Halo</b>	<b>Spellforce</b>
<b>CGA Games</b>	<b>Lively</b>	<b>Splashfighter</b>
<b>Clubpenguin</b>	<b>Maplestory</b>	<b>Steam</b>
<b>Crossfire</b>	<b>Popo Game</b>	Steam v008 49/770
<b>Dofus</b>	Popo Game 2.0.26176.1	<b>Vietcong</b>
<b>Florensia</b>	<b>PS3</b>	<b>Warcraft 3</b>
<b>Fiesta</b>	<b>Quake</b>	<b>Wii</b>
<b>GameKit</b>	<b>QQ Game</b>	<b>World of Warcraft</b>
<b>Google Earth</b>	<b>Second Life</b>	World of Warcraft 1.4.0.228
<b>Guildwars</b>	Second Life 1.21.6.99587	<b>Xbox</b>

## Business Protocols

<b>Citrix</b>	<b>PostgreSQL</b>
<b>LDAP</b>	<b>SAP</b>
<b>MySQL</b>	<b>MSSQL</b>
<b>Kerberos</b>	MSSQL 2005 9.00.2047.00

## Mobile Internet Protocols

<b>Blackberry</b>	<b>WAP-WTLS</b>
<b>WAP-WSP</b>	<b>Multimedia Messaging Service</b>
<b>WAP-WTP-WSP</b>	

