

VPN Packages for Private Users Put to the Test under Windows 10

Version Information

Operating system setup and program version of tested products.

Developer, Distributor	F-Secure	Kaspersky Lab	NordVPN - Tefincom
Product name	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Language of the tested version	English	English	English
Program version Windows	2.42.736.0	1.45.0.33	6.39.6.0
Program version Android	2.7.1.9113	21.3.10.391	5.6.4
Operating system	Windows10 Pro (English), (64-Bit)		
Operating system Mobile	Android 8.0.0		

Usability

Features and tools to improve ease of use for the user.

Convenience

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Automatically reconnect after reboot	+	+	+
Use previously used or set connection	+	+	+

Compatibility

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Native OS support Win (8/10) / MacOS / Linux / ChromeOS ¹	+ / + / - / -	+ / + / - / -	+ / + / + / -
Native Mobile OS support iOS / Android / AndroidTV / FireTV ¹	+ / + / + / -	+ / + / - / -	+ / + / + / +
Option for manual setup available (installation through configuration eg Router, OpenVPN app etc.) ¹	-	+	+

¹ Provider information

Licensing

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Number of days Trial is available for ¹	5 days	7 days (Android, MacOS, iOS) 0 days (Windows)	0 days
Money-back option for how many days ¹	30 days	30 days	30 days
Number of devices per license ¹	3, 5, 7	5	6
No registration required for the user	+	(+)	-
Location AS (Japan) Payment Methods available Bank Transfer / Cash / Credit card / Crypto Currency / DebitCard / PayPal / Pre Paid Cards ¹	- / - / + / - / + / + / -	- / + / + / - / - / - / -	- / - / + / + / - / + / -
Cost for subscription in AS, monthly / yearly / other periods (default 5 devices)	- / 8864Y / 12500Y*	480Y / 2900Y / -	1256Y / 6202Y / 10407Y
Location EU (Netherlands) Payment Methods available Bank Transfer / Cash / Credit card / Crypto Currency / DebitCard / PayPal / Pre Paid Cards ¹	+ / - / + / - / + / + / -	+ / + / + / - / - / + / +	- / - / + / + / - / - / -
Cost for subscription in EU, monthly / yearly / other periods (default 5 devices)	- / 59.90€ / 99.90€*	5€ / 30€ / -	10.16€ / 50.15€ / 84.15€
Location US Payment Methods available Bank Transfer / Cash / Credit card / Crypto Currency / DebitCard / PayPal / Pre Paid Cards ¹	- / - / + / - / + / + / -	- / + / + / - / - / + / +	- / - / + / + / - / - / -
Cost for subscription in US, monthly / yearly / other periods (default 5 devices)	- / 64.99\$ / 99.99\$*	4.99\$ / 30.00\$	11.95\$ / 59.00\$ / 99.00\$

¹ Provider information

* 2 years

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Full report: <https://www.av-test.org/en/news/vpn-packages-for-private-users-put-to-the-test-under-windows-10/>

Location of Servers

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Number of countries with server¹	22	54	59
Number of server locations (actual server location) ¹	28	58 - Win, 71 - Android/iOS/Mac	59

¹ Provider information

Additional (Win/Android)

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Network automatic protection (e.g., Wifi unencrypted)	- / +	+ / +	+ / +
Specific App or data Protection (Inverse Split Tunneling, Split Exclude)	- / -	- / +	+ / -
Ability to add exceptions to routing through VPN tunnel (split-tunnelling)	- / +	- / -	+ / +

Support

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Chat / Forum / Contact support	+ / + / +	+ / + / +	+ / - / +
Support torrents / Accessible from all locations	+ / -	+ / +	+ / +
Support IPv6 addressing	+	-	-
Can the VPN be used to watch geo-blocked video content and if so, is there a limitation to the locations? (tested for the US only)	+	+	+
Can the VPN be used to watch Netflix across geo-locations and if so, is there a limitation to the locations? (tested for US Netflix)	+	+	+

Security

Detailed information on how well does the product secures the real user IP, as well as help, protect the user.

DNS Leak Test

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Not possible to see the internet provider (Win/Android)	+ / +	+ / +	+ / +

IP Address & Kill switch leak

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Kill switch option available (Win)	+	+	+
Kill switch disables connection until the VPN is established (disable-enable network card)	+	+	+
Kill switch duration disconnected in seconds	0	0	0
Kill switch disables connection until the VPN is established (pull the plug), 0sec / 10sec / 300sec	+ / + / +	+ / + / +	+ / + / +
Kill switch duration disconnected in seconds	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Kill switch option available (Android)	+	+	+
Kill switch disables connection until the VPN is established (disable wan on the router)	+	+	+
Kill switch duration disconnected in seconds	0	0	0
Kill switch disables connection until the VPN is established (disable WLAN on the router), 0sec / 10sec / 300sec	+ / + / +	+ / + / +	+ / + / +
Kill switch duration disconnected in seconds	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0

WebRTC leak

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Protection against browser leak (Win/Android)	+ / +	+ / +	+ / +

P2P & Torrent Protection

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Not possible to determine the location (Win/Android)	+ / +	+ / +	+ / +

Email Leak

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
No Leaked IP (Win/Android)	+ / +	+ / +	+ / +

False Positive Detection Test

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Number of files classified by AV as threatening/dangerous (Win/Android)	0 / 0	0 / 0	0 / 0
Number of files classified by AV as potentially dangerous (Win/Android)	0 / 0	0 / 0	0 / 0

Privacy

Details regarding user privacy are provided by the VPN provider.

Logging

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
General statement of no personal user data is logged¹	+	+	+
How long will logged data be stored¹	n/a	n/a	n/a

¹ Provider information

n/a not applicable

Server Tunnel and Encryption

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Available protocols¹	Windows - OpenVPN, IKEv2 Android/iOS - OpenVPN	Win/Mac - Catapult Hydra, Android/iOS/native - OpenVPN	OpenVPN, IKEv2/IPsec, NordLynx
How is the data encrypted¹	256-bit AES encryption	256-bit AES encryption	256-bit AES encryption

¹ Provider information

Performance

Local connection measures, Asia to Asia, EU to EU and US to US

	Reference	Test Average	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Torrent Average (KB/s)	19788,03	14177,71	n/a	13578,98	16597,65
Latency Average (ms)	2,42	11,94	9,50	5,93	5,92
Download Average (Mb/s)	7624,27	452,31	241,22	357,89	995,37
Upload Average (Mb/s)	962,40	318,69	130,16	406,20	651,10

n/a not applicable, not enough tested results

Overseas connection measures, Asia to EU and US, EU to Asia and US and US to Asia and EU

	Reference	Test Average	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Torrent Average (KB/s)	n/a	11997,80	n/a	14375,95	12248,45
Latency Average (ms)	159,79	170,53	164,93	164,22	172,50
Download Average (MB/s)	4357,00	291,60	87,89	292,48	613,77
Upload Average (MB/s)	540,73	123,26	19,49	116,37	361,11

n/a not applicable, not enough tested results

Transparency

How transparent and open are the vendors with their company information and privacy policies.

Transparency Report

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Transparency Report made available	-	+	-
Previous reports available	-	-	-
At least annually updated	n/a	15.09.2021	n/a
Requests for data during the last transparency report period	n/a	0	n/a
Information about data shared during the last transparency report period	n/a	0	n/a

n/a not applicable

Warrant Canary

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Warrant Canary available / Date last updated provided	- / -	- / -	+ / +
If not, has it ever been available?	-	-	n/a

n/a not applicable

Independent Audit

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
Have there been relevant independent audits?	-	+	+
Proprietary protocol	n/a	-	-
Who / When / Published? / Issues found and fixed?	n/a	-	-
Security and Privacy policies	n/a	+*	+
Who / When / Published? / Issues found and fixed?	n/a	Pango, the infrastructure owner, has an independent Audit performed*	VerSprite / 2019 / + / +&+ PricewaterhouseCoopers AG Switzerland / 2020 / - / ²
Other relevant	n/a	+	-
Who / When / Published? / Issues found and fixed ?	n/a	Deloitte / 2019-07-09 / - / +	-

* Expected in November

² No details available

Company Details

	F-Secure FREEDOME	Kaspersky Secure Connection	NordVPN
CEO details	+	+	-
Board of Directors or Management Team details	+	+	+
No Third-Party Investors	+	+	+
Official Address	+	+	+
Main offices information provided ¹	Tammasaarenkatu 7, P.O. Box 24, 00181 Helsinki, Finland	39A/2 Leningradskoe Shosse Moscow, 125212 Russian Federation	PH F&F TOWER, 50th Street & 56th Street, Suite #32-D, Floor 32, Panama City, Republic of Panama
Additional offices information provided ¹	+	+	-
Jurisdiction	Finland	Russia	Panama
Company Founding date information available ¹	1988	1997	2012
Parent Company	-	-	-
Parent Company Jurisdiction	n/a	n/a	n/a
Separate Privacy Statement	+	+	+
Privacy Statement Date	10.2020	10.06.2020	02.06.2021

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Provided contact details for the data protection office	+	+	+
Provided information on data collection	+	+	+
The purpose for data collection specified	+	+	+
Expiration information for data collected provided	+	+	+
Information provided about how the data is kept safe (Data -security and -integrity, Incident Response plan etc.)	+	+	+
Information provided on data sharing or selling and if so the purpose and receiving party	+	+	+
Information about third parties collecting personal information?	+	+	+
Information about third-parties collecting of personal information and if so the purpose and receiving party	+	+	+

n/a not applicable