	CDT's Things to Look For	ExpressVPN	IVPN	Mullvad	TunnelBear	VyprVPN
Date Responses Reviewed		Oct. 17, 2018	Oct. 17, 2018	Oct. 17, 2018	Oct. 17, 2018	Oct. 17, 2018 [Updated 01-14-2019]
CORPORATE ACCOUNTABILITY & BUSINESS MODEL						
What is the public facing and full legal name of the VPI service and any parent or holding companies? Do these entities have contents in or dometric the service of the service information? Where are they incorporated? Is information? Where are they incorporated? Is involved in operating the VPN service, and if so, what is its full legal name?	For commercial privacy and security tools, reputation matters. With should be class about not just the individuals in charge of running and accuring a VPN, but ultimately, who owns the company. The more altimization of the VPI can make available individual of the VPI can make available of the version of the VPI can make available of the version of the VPI can make available its legal name, users should honor this. This should include both the form of any and responsible for operating ongoings, specific addinations who are responsible for operating part of a larger company.	Express/VPI is operated by Express VPN International Limited, a privately held Britth Virgi Islands company. Express/VPI a leadenthy learn and owners are not involved in any other VPN company/brand or any business other than Express/VP. While the company, its infrastructure, and its agreements with users all all under EV jurisdiction. Express/VPN steam is physically distlucture across more then a docan cities workwide, provide payroli services for staff that Express/VPN hires. Our come provide payroli services for staff that Express/VPN hires. Our come unclinosi like engineering, network operations, marketing, and customer service are performed by full-time, declasted amployees who work solety on Express/VPN.	The polici facing name is NPN. The legal name of the company is Privatus Limited. Privatus Limited has no parent or holding companies. There are no other companies or partners directly involved in operating the IVPN service.	The public-facing name is Mulkvad VPN. The legal name of the company is Amagicom AB which is dicady owned by the founders Fridrik Stromberg to the second second second second second second second Sweden. Naither Amagicom AB nor Fredrik Strömberg nor Daniel Bernisson has ownership or comonic states in other VPN services. No other companies are directly involved in operating Mulkvad VPN.	TunnelBear's team and offices are based in Toronto. Canada while the corporation, TunnelBear LLC, is incorporated in Delaware. USA: TunnelBear is wholly owned by MAdrie. MAdree is a well known scurtly software by MAdre MAR and the size will known accurity software While MAckee owns TunnelBear, TunnelBear operates independently with no TunnelBear customer information shared with MARee.	Golden Frog. Ombit is the full legal name of the company that offers Vypr/VH. You can have more dealls about our team and company's ownership on cur About Us page. We do not have accountic states in other VPN providers and thus do not share any user information with any other VPN service. Colden Frag Ombit is incorporated in Switzentand and we shore all of our curron relates in Switzentand. Switzentand's tavorable privacy laws reflect our mission as a company and respect the rights of Internet users. To car howledge, we are the only VPN provider in the work infrastructure, including our zero-knowledge DNS service. We do not rely on this party hosting companies for servers or network services and therefore are not vulnerable to their privacy policies of executly practices.
Does the company, or other companies involved in the operation or ownership of the service, have any ownership in VPN review websites?	One of the major issues with VPN reviews across the internet is that are many incentives for VPN providers to "game" the system. VPN providers should not be reviewing themselves.	No, neither Express VPN International Limited nor any related companies own a VPN review website.	No.	No.	No. TunnelBear offers an affiliate program where we pay commissions to websites who send us customers. We require these affiliates to disclose their financial relationship with TunnelBear. TunnelBear does not own or operate any review or affiliate websites.	No. Our company does not have ownership nor operate any VPN review websites.
What is the service's business model (i.e., how does the VPI make money)? For example, is the sole source of the service's revenue from consumer subscriptions?	A VPN should be upfront about how it makes money and any interests. It all or more of the VPN's revenue comes from customer subscriptions, that suggests a VPN's useen et a scutual customers arber than its product. We would note that as VPNs other companies, and diversity their businesses by othering other security tools or technologies, this should also be disclosed.	Express/VPN s sole source of revenue is from consumer VPN subscriptions. We never sell user information or utilize the information that customers provide to us for any purpose other than operating the VPN service.	All revenue comes from VPN customer subscriptions.	All revenue comes from VPN customer subscriptions.	The paid version of TurnelBear solely and exclusively generates revenue from subscriptions. The free version of TunnelBear serves as a marketing tool to permit individuals to try TunnelBear chock on portfit from free users by selling bandwidth, usage habits, or use them as a bohet. TunnelBear has plans to offer an SDK which would allow select partners to resell a while bladed VPN service.	We do not sell user data to generate revenue. Our sole source of revenue consets from VyprVPN consumer and business subscriptions.
PRIVACY: Logging/Data Collection Practices and Responding to Law Enforcement						
Does the service store any data or methodia generated during a VPN session (from connection to disconnection) after the session is terminated? <i>If so what data?</i>	A responsible VPN is very up find about what it means by boging and what data trains over time, were it is soperapide anonymous. This should be at the top of any privacy policy or terms of service. It should be sparsheld iddicated and easily discoverable via the VPN's website or app.	Express/PVP ages and eserves are engineered to calegorically estimate services information. We do collect limited metadata to aid technical troubleshooting and service improvements, which are operating systems and ago versions successfully advated; dates (not times) when connected to the VPN service; choice of VPN server (colors) (not) addresses are ever store); total amount (n MS) of data transferred per day. None of the above dates (not heaver, advated) to share anonymiced analytics data such as specified data, connection tistures, and cala tas such as specified data. Consection tistures, and cala users because we's engineered our apps to never know which user sends which data. For details, please see our Privacy Policy.	Νο.	No. For dealls, see our privary policy (http://www.multvad.net/en/guides/no-logging-data- policy/).	No. TurnelBaar is proud to not store any data sumraunfary the times and Packinasse when popel usas TurnelBaar We do collect the aggregate amount of data you use in a given month. This data usage is not session specific, aggregated over the month and deleted once a new month starts. At TurnelBaar, we spend a lot of time thinking about how to reduce the data the wire collection and share the process with our customers. Since 2014, our privacy policy has comprehensive policy has meant that very datacian we make has to consider the privacy impact. Whether it's designing features like our map to not store your IP address, setting up marketing tools to respect privacy or very not privacy induced social media buttoms, we try to consider privacy in years.	[UPDATED 01/14/2019] Vpp/TPN is a zero bg VPN Service. We do not record or retain any data when you use the Vyp/TVP Service. We engaged a respected security firm to audit our zero-log policy so users have third party validation of our logging Attestation and N-Log Assessment by Leviathan: https://www. vpprop.com/audit.pd/ This means: We do not log a user's source IP address (typically assigned to the user by their ISP). We do not log a user's source IP address (typically assigned to the user by their ISP). We do not log a user's source IP address (typically assigned to the user by their ISP). We do not log a user's source IP address (typically assigned to the user by their ISP). We do not log a user's failfic or the content of any We do not log a user's failfic or the content of any We are network netratial. We do not discriminate against devices, protocols, or application.
Does your company store (or share with others) any user browsing and/or network activity data, including DNS lookups and records of domain names and websites visited?	This question further addresses the need for VPNs to be clear about how they truet data that douc concervably first into the definition of "usage" or "activity" logs. VPNs should not maintain this information.	No. Express/PN never logs any user browsing or network achivity data, and we go lograel lengths to neurous such information never even hits a disk on any server. We run our own private, zero- knowledge DNS on every VPN server. And of course, as we do not possess any such activity data, we do not (and cannot) share it.	No.	No. For details, see our privacy policy (https://www.mulivad.net/en/guides/no-logging-data- policy/).	No. We do not collect connection times, IP addresses, DNS requests, browing data, or anything else that could be directly linked with an account. TunnelBear has an easy to read privacy policy that outlines what data we collect and how we use it. In it, we explain that we log no customer activity.	We do not store or share any browsing, network activity data, or DNS lookups. We own and operate our own server and network infrastructure, including our zero-knowledge DNS service, so we can ensure that user data is not shared with any third party. This is part of our commitment to providing the highest level of user privacy.
Do you have a clear process for responding to editinate requests for data from law enforcement and courts?	A VPN's physical location and the national law it geneties under can afford user afford the set of the set of the set of the set of the low a VPN might respond to a government request for data. CDT reports about how which the law recease seturit orders and differ government requests and have a clear process in place for responding to any requests for data.	Our first principle is that we never store any data that could match an individual to specific network activity or behavior. Thus, our process is to inform law enforcement that we do not possess log- dout user with an information and the instantion. The store and user with an information also protects user privacy ad security in the vent of law enforcement spaces. They are there in the information also protects user privacy access to servers. This was proven in a high-profile case in They in which law enforcement secarity of VM server leased by investigations to link activity to user or even determine which unestigators to link activity to user or even determine which uses, or whether a specific user, were connected at a given time. Espensel/PM Lisbaed in the British Virgin Islands a justiciduon with strong privacy legislation and no data refension requirements. Engine success when they originate from the British Virgin Islands our orders when they originate from the British Virgin Islands or Information vire to crime active messignation value be (stard crimmital or view profiles foreign government' requests for Information view per privacy server privacy server back by (stard criminality provision).	Yes, please see "Law Enforcement Legal Process Guidelines" - http://www.ivpn.et/legal-process- report – https://www.ivpn.net/transparency-report	Yes, see our article "How we handle government requests for user data" (https://www. net/enguides/how-we-handle-government-requests- user-data).	Over the past 7 years, more than 25 million people have connected to TurnelBear. By degin, we don't know much about who these people are or how they'se used our service. We've done this or purpose, as we see it as crucial to operating a VPN service. When TurnelBear receives a request from governmental authorities, law enforcement agencies or in connection with a legal proceeding, the request if serviced by our legal methods and the service of the service of the service the appropriate nature and scope of our response. At TurnelBear, we believe that the best way to protect our privacy at risk. If we're reguined to respond to a request, you privacy at risk. If we're reguined to respond to a request, you privacy at risk. If we're reguined to respond to a request, you privacy center.	Yes. All legal requests are directed to Goddsmith Forg GmbH is legal team. Goldsmith Frog GmbH is a Swiss corportation and because all customer data is shored in Switzentrad, we are Swiss (legal requests). Ke will only report to a valida legal order from the relevant Swiss law enforcement agency acting is now or at the request of a forcing law enforcement agency using the proper Mutual Legal Assistance Treaty with its legal jurisdiction.



	Invincibull									
Date Responses Reviewed	Mar. 07, 2019									
CORPORATE ACCOUNTABILITY & BUSINESS MODEL										
What is the public facing and full legal name of the VPI service and any parent or bolding companies? Do these entities have VPI services. and fis. do they share user information? Where are they incorporated? Is here any other company or partner directly involved in operating the VPN service, and if so, what is its full legal name?	InvindBull by Finjan Mobile, Inc. is a service of Finjan Hodings, Inc. a NASDAC company (NASDAC FLUM), Finjan locenses the VPN network from partner Avira.									
Does the company, or other companies involved in the operation or ownership of the service, have any ownership in VPN review websites?	Finjan Mobile, Invincibull or Avira do not operate, own, nor do they have any involvement in VPN review websites.									
What is the service's business model (i.e., how does the VPN make money)? For example, is the sole source of the service's revenue from consumer subscriptions?	The sole source of Invincibull VPM revenue is from consumer subscriptions; Invincibull operates as a freemium model.									
PRIVACY: Logging/Data Collection Practices and Responding to Law Enforcement										
Does the service store any data or metadata generated during a VPN session (from connection to disconnection) after the session is terminated? If so what dots?	InvinciBuil does not store nor does it track any data or metada enerated during a VPM season, nor after the seasoin is terminated. We the season is the seasoin is terminated we have been done of operations, last log on and whether or not users paid for a subscription and/or participated in promotions.									
Does your company store (or share with others) any user browsing and/or network activity data, including DNB lookups and records of domain names and websites visited?	Furthermore the company does not store, nor does it share with others any user browsing and/or network activity data, including DNS lookups and records of domain names and websites visited.									
Do you have a clear process for responding to editinate requests for data from law enforcement and courts?	Frijan Holdings (trivinaBult parent company) may share your emil address if Frijan believes that such sharing is required by law. We will take commercially rescuede steps to orably your like to brind parties as part of a legal process. Frijan also may use and disclose your information in the prosecution or defense by Frijan of any litigation molving Frijan that arises out d, or is related to, your use of any Frijan product, service or right.									
SECONIT PROTOCOLS & PROTECTIONS										



	CDT's Things to Look For	ExpressVPN	IVPN	Mullvad	TunnelBear	VyprVPN
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What do you do to protect against unauthorized access to customer data flows over the VPN?	It is very difficult for an individual to assess the security practices of a VPN. While perfect privacy and security coes not exist, VPN users can expect trustworthy VPNs to use up-to-date protocols and software/hardware hardening. Several practices CDT thinks are important to look out for include	ExpressVPN takes the following approach to ensuring the security of our systems and customers: • Make systems very difficult to compromise. • Minimize the potential damage if a system were to be compromised.	If an adversary gains physical access to a server it is prudent to assume that they will gain access to the unencrypted data stored or the server. As VPN servers are not under the direct physical control of IVPN they have been designed with the expectation that they will be compromised. To protect the privacy of IVPN customers the following controls are implemented:	Secure systems are required for privacy, and since Mullvad's beginning, security has always been deeply ingrained in our culture. • In our app we offer such security features as a kill switch, DNS leak protection, and IPv6	Protecting our customers data and preventing unauthorized access is our highest priority. We employ an extensive list of processes, techniques and services. Our infrastructure and client apps have undergone extensive hardening, testing and the VPN industry's only independent to	Our approach is unique in the VPN industry, we fully own, engineer, and manage our VPN servers and network. Therefore, we are the only company that handles VyprVPN users data and we can guarantee higher levels of protection and security from end-to-end.
What do you do to protect against unauthorized access to customer data flows over the VPW?	It is very officul for an individual to assess the security practices of a VPN. While partice privacy and source used, VPN and software/hardware hardwring. Several practices (20T thinks are important to look out for include practices and produces upond and your work of the privacy process for addressing flaway, and any discussion of technical, administrative, and even physical security.	Express/PN laikes the following approach to ensuring the security of our systems and customers: • Male systems very difficult to compromise. • Male systems very difficult to compromise. • Male system common of time that a system can remain a difficult distance of a system were to be compromised. • Male systems very difficult to compromise. • Validate brees points with regular penetration tests, both internal and external. • Sectionally for our VPN servers, here are some examples of measures we employ: Easing difficult to compromise: • Farlenge of the compromise of the server hand the system can be added by the system of the system of the server hand the system can be added by the system of the syste	If an adversary gains physical access to a server it is prudent to samue that they will gain access to the unencrycled data stored or of VPN they have been designed with the expectation that they will be componised. To pretect the physical of the stored to the componised. To pretect the physical of the stored to the componised to the customer connection or network activity generated by an VPN user are created or stored. This includes not reading an temporary or in-memory logs. - No storage of information relating to an VPN user as account i.e. - No storage of information relating to an VPN user's account i.e. - No storage of information relating to an VPN user's account i.e. - Adv monitomory of in-memory logs. - Adv monitomory of a server to alker the ortificates on the server to prevent a potential that is a hardware taut than procedures are followed to revolue the certificates on the server to prevent a potential HTM attract. - Advisory information security faming. - Background screening of all employees. - Mandatory information security faming. - VPN servers do not store any logs relating to the customer connection or nativora activity generated by the customer. - Advisor controls. - Provide the customer or - Advisor controls. - Provide IDM (IMR) (IMR) equilating to the customer connection or low and store any logs relating to the customer - connection or low activity generated by the customer. - Advisor control (SE 12002). - Handitory Access Controls (SE Linux). - Prevalet PLM (ILLKS) requiring password entry at boot. - Customer VPN (ILLKS) requiring password entry at boot. - Customer VPN (ILLKS) requiring password entry at boot. - Customer Charles are secured using Open/PN with Rev 4063 / AES-226-62000 keys. Customer VPN to contention. - Advertific exit in any other location. - Devision in the VPN infrastructure and have their VPN tartific exit in any other location. - advertific exit in any other location. - advertific exit in any othe	Secure systems are required for privacy, and since Mullivack beginning, eacurity has always been deeply ingrained in our outure. I hour app work for such security features as a kill switch, DNS leak protection, and IP-6 source and the secure security features as a kill switch, DNS leak protection, and IP-6 open/VF and Wreclaurd (we were alway adopter of the former and we pioneened the latter). Autor of the former and we pioneened the latter). Rust, a programming language marks and server code. A lot or an systemming language marks and server code. A lot or an systemming language marks and server code. A lot or an systemming language marks and server code. We also protect our laptops against tampering.	Protecting our customers data and preventing unsufforcad access is our higher priority. We employ an actensive list of processes, techniques and services. Our infrastructure and client apps have undergone extensive hardening, testing and the VNI industry's only independent public security audit. Tunnelibear hardness every server with full disk encorption, techniques. Security patches are up to data. Hardware 3AA techniques. Security patches are up to data. Hardware 3AA architecturally reviewed, peer evelwed, tested and independently audited on an annual basis. The results are available for the public to see.	Our approach is unique in the VPN industry, we livy own, engineer, and manage our VPN severa and network. WN users data and we can guarantee higher levels of protection and security from onl-bend. Unlike competitions, we don't use any dis-factory companies to that our servers and we have 247 monitoring for unualisation changes or physical access to all servers and networks.
		4. Frequent reboots: since we boot into a read-only image with integrity checks, a reboot will clear most attempts at persistence in general, security is ingrained in our culture. Express/PN's reputation and long-term business success depend on protecting our customers. We believe we are both properly incentivized as well as capable of doing this well.				
		We maintain a library of content detailing various other measures for other parts of our service such as our website, API servers, and customer support team. For more information, please visit our Trust Center: https://www.expression.com/trust				



	Invincibull									
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What do you do to protect against unauthorized access to customer data flows over the VPN?	InvinciBull is committed to protecting against unauthorized access to customer data flows excess to our customers' data flow, and we do not store it. All data that passes through the Invincibull VFN is encrypted through patented, military-grade AES 256-bit encryption, and thus no one can see it.									



	CDT's Things to Look For	ExpressVPN	IVPN	Mullvad	TunnelBear	VyprVPN
Date Responses Reviewed What other controls does the service use to protect user data?	CDT's Things to Look For	Express/N We work to emposer customers to protect their privacy and security in every aspect of what we do in addition to those we've metioned in previous answers, some other ways we do this include: • Oper that parties to independently welly leakproting claims, providing neight how that our engineers work on to protect users, and raising the bar for the entire VPN industry. • Comprehensile • Comprehen	VPN Oct. 17, 2018 VPN Oct. 17, 2018 VPN Oct. 17, 2018 Oct. 10, 201 Oct. 10,	Nutried 3 Oct 17, 2013 We offer a number of features to protect our users' privacy, including these industry firsts: • We accept payment with cash in the mail and Bitcon. • It our account sign-up process, we ask for no enemail address. • Our VPN app is open source (find an independent audit report of it on our vebsio). We are also contributors to the privacy and security communities at large. When we discovered that Open/PM was vulnerable to Heartbleed and later communities at large. When we discovered that Open/PM was vulnerable to Heartbleed and later communities at large. When we discovered that Open/PM was vulnerable to Heartbleed and later community out are the only VPN service to currently offer VPN lumels with aperimental post quantum security.	Tunnellear : Oct. 17, 2018 Tunnellear is proud to be the first and only VPN provider in the world that has released a public, full infrastructure security audit from a verified third party. We have hoteb to public a coept of the security and the security and the security options for privacy conscious customers, and continue to have annual tui audits of our system. apps and code.	VyprVPN Oct.17, 2018 [Updated 01-14-2019] Any site-0-site transfers of outsomer metadata is via encypted chames only. We store no credit card or other immediately abusable payment information for any of our customers metadata is via encypted chames only. We store no credit card or other immediately abusable payment information to any of our customers metadata is via encypted chames only. We store no credit card or other immediately abusable payment information. We store no credit card or other immediately abusable payment information. We utilize multiple protocols for encryption which include a NAT freewal for all connections when exercise a store and the automatically blocks your internet connection whenever VyprVPN is disconnected. Additionally and pathaps most importantly, we are constantly fields and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge. We tuly work beak and prepared for any potential challenge.
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	Invincibull										
Date Responses Reviewed	Mar. 07, 2019										
What other controls does the service use	Invincibull adheres to industry standard security										
to protect user data?	protocols, backed up by a strong privacy policy, https://ulm.finianmobile.com/app-privacy-										
	statement/ clearly available to all, and to which we										
	adhere. Our goal is to protect customer										
	updating our protocols. We use WPENGINE to										
	host the site and they are a leader in hosting,										
	//www.wpengine.com). We further secure the site										
	with a number of security related plugins that										
	encryption, oauth2 API tokenization, blacklisting										
	suspected IPs, etc. Invincibull launched in										
	audited by CybeRisk upon launch. We will										
	continue to conduct periodic security audits of the										
	site.										
	How does Finjan and Finjan Mobile secure and										
	data breach?										
	Finjan uses, and requires that its service providers use commercially reasonable physical technical										
	administrative, and other safeguards designed to										
	of or destruction of your information. In addition										
	we limit the use and disclosure of your personal										
	information, and work to ensure that anyone with whom we share such information treats that										
	information with the privacy and security it										
	deserves.										
	To the extent applicable law requires that Finjan										
	notify you that your personal information was, or is										
	unauthorized person, Finjan will provide that										
	notice by email (using the latest available address										
	applicable law.										
	Additionally, Incidents of VCA										
	additional signals of trust through the use of open										
	source code where possible, as stated in our End										
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