

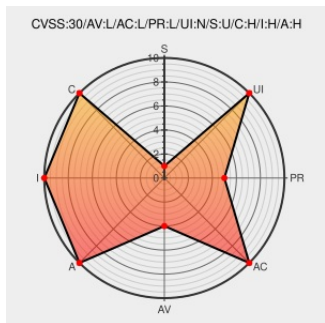


CVE-2019-12572

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CVE-2019-12572

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Private Internet Access](#) from [Londontrustmedia](#) contain the following vulnerability:

A vulnerability in the London Trust Media Private Internet Access (PIA) VPN Client 1.0.2 (build 02363) for Windows could allow an authenticated, local attacker to run arbitrary code with elevated privileges. On startup, the PIA Windows service (pia-service.exe) loads the OpenSSL library from %PROGRAMFILES%\Private Internet

Access\libeay32.dll. This library attempts to load the C:\etc\ssl\openssl.cnf configuration file which does not exist. By default on Windows systems, authenticated users can create directories under C:\. A low privileged user can create a C:\etc\ssl\openssl.cnf configuration file to load a malicious OpenSSL engine library resulting in arbitrary code execution as SYSTEM when the service starts.

CVE-2019-12572 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.8 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
LOCAL	LOW	LOW	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	HIGH	HIGH	HIGH

CVSS2 Score: **7.2 - HIGH**

Access Vector	Access Complexity	Authentication
LOCAL	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
COMPLETE	COMPLETE	COMPLETE

CVE References

Description	Tags	Link
security-research/CVE-2019-12572.txt at master · mirchr/security-research · GitHub	Exploit Third Party Advisory github.com text/html	 MISC github.com/mirchr/security-research/blob/master/vulnerabilities/PIA/CVE-2019-12572.txt
CVE-2019-12572 PIA Windows Privilege Escalation: Malicious OpenSSL Engine – Rich Mirch	Exploit Third Party Advisory blog.mirch.io text/html	 MISC blog.mirch.io/2019/06/10/cve-2019-12572-pia-windows-privilege-escalation-malicious-openssl-engine/

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Londontrustmedia	Private Internet Access	1.0.2	All	All	All
Application	Londontrustmedia	Private Internet Access	1.0.2	All	All	All
Operating System	Microsoft	Windows	-	All	All	All
Operating System	Microsoft	Windows	-	All	All	All

cpe:2.3:a:londontrustmedia:private_internet_access:1.0.2:*****:

cpe:2.3:a:londontrustmedia:private_internet_access:1.0.2:*****:

cpe:2.3:o:microsoft:windows:-:*****:

cpe:2.3:o:microsoft:windows:-:*****:

No vendor comments have been submitted for this CVE

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