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SSL Report: freieturner.de (217.160.3.116)

Assessed on: Thu, 02 Oct 2025 07:59:49 UTC | Hide | Clear cache

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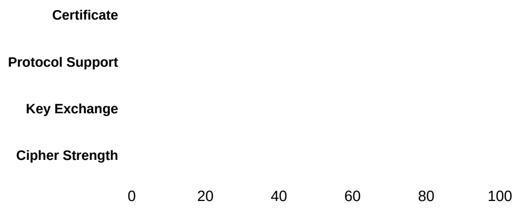
Summary

Overall Rating

A



Visit our documentation page for more information, configuration guides, and books. Known issues are documented here.

This server supports TLS 1.3. MORE INFO »

Certificate #1: EC 256 bits (SHA384withECDSA)

Server Key and Certificate #1

Subject	freieturner.de Fingerprint SHA256: 2551e4415f9d4e123cd5a6b9de0435bab570f9ab76ff1ac3c2406ba7ba1b39aa Pin SHA256: 1SIZlyLNje5FqfB/BrCm5u7qdNtL3hMnnJQ/XE77998=
Common names	freieturner.de
Alternative names	freieturner.de
Serial Number	06174c93c324fd999f7313904921bdee7e2f
Valid from	Fri, 26 Sep 2025 07:51:02 UTC
Valid until	Thu, 25 Dec 2025 07:51:01 UTC (expires in 2 months and 22 days)
Key	EC 256 bits
Weak key (Debian)	No
Issuer	E7 AIA: http://e7.i.lencr.org/
Signature algorithm	SHA384withECDSA
Extended Validation	No
Certificate Transparency	**Yes (certificate)**
OCSP Must Staple	No
Revocation information	CRL CRL: http://e7.c.lencr.org/48.crl
Revocation status	Good (not revoked)
DNS CAA	No (more info)
Trusted	**Yes** **Mozilla Apple Android Java Windows**

Additional Certificates (if supplied)

Certificates provided	2 (2024 bytes)
Chain issues	None

#2

Subject	E7 Fingerprint SHA256: aeb1fd7410e83bc96f5da3c6a7c2c1bb836d1fa5cb86e708515890e428a8770b Pin SHA256: y7xVm0TVJNahMr2sZydE2jQH8SquXV9yLF9seROHHHU=
Valid until	Fri, 12 Mar 2027 23:59:59 UTC (expires in 1 year and 5 months)
Key	EC 384 bits
Issuer	ISRG Root X1
Signature algorithm	SHA256withRSA

Certification Paths

Mozilla Apple Android Java Windows

Path #1: Trusted

1	Sent by server	freieturner.de Fingerprint SHA256: 2551e4415f9d4e123cd5a6b9de0435bab570f9ab76ff1ac3c2406ba7ba1b39aa Pin SHA256: 1SIZlyLNje5FqfB/BrCm5u7qdNtL3hMnnJQ/XE77998= EC 256 bits / SHA384withECDSA
2	Sent by server	E7 Fingerprint SHA256: aeb1fd7410e83bc96f5da3c6a7c2c1bb836d1fa5cb86e708515890e428a8770b Pin SHA256: y7xVm0TVJNahMr2sZydE2jQH8SquXV9yLF9seROHHHU= EC 384 bits / SHA256withRSA
3	In trust store	ISRG Root X1 Self-signed Fingerprint SHA256: 96bcec06264976f37460779acf28c5a7cfe8a3c0aae11a8ffcee05c0bddf08c6 Pin SHA256: C5+lpZ7tcVwmwQIMcRtPbsQtWLABXhQzejna0wHFr8M= RSA 4096 bits (e 65537) / SHA256withRSA

Configuration

Protocols

TLS 1.3	Yes
TLS 1.2	Yes
TLS 1.1	No
TLS 1.0	No
SSL 3	No
SSL 2	No

Cipher Suites

# TLS 1.3 (server has no preference)

TLS_AES_128_GCM_SHA256 (0x1301) ECDH x25519 (eq. 3072 bits RSA) FS	128
TLS_AES_256_GCM_SHA384 (0x1302) ECDH x25519 (eq. 3072 bits RSA) FS	256
TLS_CHACHA20_POLY1305_SHA256 (0x1303) ECDH x25519 (eq. 3072 bits RSA) FS	256

# TLS 1.2 (server has no preference)

TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA (0xc009) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	128
TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256 (0xc023) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	128
TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 (0xc02b) ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_ECDHE_ECDSA_WITH_ARIA_128_GCM_SHA256 (0xc05c) ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_ECDHE_ECDSA_WITH_CAMELLIA_128_CBC_SHA256 (0xc072) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	128
TLS_ECDHE_ECDSA_WITH_AES_128_CCM (0xc0ac) ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_ECDHE_ECDSA_WITH_AES_128_CCM_8 (0xc0ae) ECDH secp521r1 (eq. 15360 bits RSA) FS	128
TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA (0xc00a) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	256
TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 (0xc024) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	256
TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 (0xc02c) ECDH secp521r1 (eq. 15360 bits RSA) FS	256
TLS_ECDHE_ECDSA_WITH_ARIA_256_GCM_SHA384 (0xc05d) ECDH secp521r1 (eq. 15360 bits RSA) FS	256
TLS_ECDHE_ECDSA_WITH_CAMELLIA_256_CBC_SHA384 (0xc073) ECDH secp521r1 (eq. 15360 bits RSA) FS **WEAK**	256
TLS_ECDHE_ECDSA_WITH_AES_256_CCM (0xc0ad) ECDH secp521r1 (eq. 15360 bits RSA) FS	256
TLS_ECDHE_ECDSA_WITH_AES_256_CCM_8 (0xc0af) ECDH secp521r1 (eq. 15360 bits RSA) FS	256
TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 (0xcca9) ECDH secp521r1 (eq. 15360 bits RSA) FS	256

Handshake Simulation

Android 4.4.2	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS
Android 5.0.0	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA ECDH secp521r1 FS
Android 6.0	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Android 7.0	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Android 8.0	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Android 8.1	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Android 9.0	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
BingPreview Jan 2015	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS

Handshake Simulation

Chrome 49 / XP SP3	Server sent fatal alert: handshake_failure		
Chrome 69 / Win 7 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
Chrome 70 / Win 10	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Chrome 80 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Firefox 31.3.0 ESR / Win 7	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 47 / Win 7 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 49 / XP SP3	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
Firefox 62 / Win 7 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
Firefox 73 / Win 10 R	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH x25519 FS
Googlebot Feb 2018	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH x25519 FS
IE 11 / Win 7 R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
IE 11 / Win 8.1 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
IE 11 / Win Phone 8.1 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 ECDH secp256r1 FS
IE 11 / Win Phone 8.1 Update R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
IE 11 / Win 10 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Edge 15 / Win 10 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
Edge 16 / Win 10 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
Edge 18 / Win 10 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
Edge 13 / Win Phone 10 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Java 8u161	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Java 11.0.3	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS
Java 12.0.1	-	TLS 1.3	TLS_AES_128_GCM_SHA256 ECDH secp256r1 FS
OpenSSL 1.0.1l R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS
OpenSSL 1.0.2s R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
OpenSSL 1.1.0k R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH x25519 FS
OpenSSL 1.1.1c R	-	TLS 1.3	TLS_AES_256_GCM_SHA384 ECDH x25519 FS
Safari 6 / iOS 6.0.1	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 7 / iOS 7.1 R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 7 / OS X 10.9 R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 8 / iOS 8.4 R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 8 / OS X 10.10 R	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 ECDH secp256r1 FS
Safari 9 / iOS 9 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 9 / OS X 10.11 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 10 / iOS 10 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 10 / OS X 10.12 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Safari 12.1.2 / MacOS 10.14.6 Beta R	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Safari 12.1.1 / iOS 12.3.1 R	-	TLS 1.3	TLS_CHACHA20_POLY1305_SHA256 ECDH x25519 FS
Apple ATS 9 / iOS 9 R	EC 256 (SHA384)	TLS 1.2 > http/1.1	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp256r1 FS
Yahoo Slurp Jan 2015	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp384r1 FS
YandexBot Jan 2015	EC 256 (SHA384)	TLS 1.2	TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 ECDH secp521r1 FS

# Not simulated clients (Protocol mismatch)

Android 2.3.7 No SNI [2]	Protocol mismatch (not simulated)
Android 4.0.4	Protocol mismatch (not simulated)
Android 4.1.1	Protocol mismatch (not simulated)
Android 4.2.2	Protocol mismatch (not simulated)
Android 4.3	Protocol mismatch (not simulated)
Baidu Jan 2015	Protocol mismatch (not simulated)
IE 6 / XP No FS [1] No SNI [2]	Protocol mismatch (not simulated)
IE 7 / Vista	Protocol mismatch (not simulated)
IE 8 / XP No FS [1] No SNI [2]	Protocol mismatch (not simulated)
IE 8-10 / Win 7 R	Protocol mismatch (not simulated)
IE 10 / Win Phone 8.0	Protocol mismatch (not simulated)
Java 6u45 No SNI [2]	Protocol mismatch (not simulated)
Java 7u25	Protocol mismatch (not simulated)
OpenSSL 0.9.8y	Protocol mismatch (not simulated)
Safari 5.1.9 / OS X 10.6.8	Protocol mismatch (not simulated)
Safari 6.0.4 / OS X 10.8.4 R	Protocol mismatch (not simulated)

(1) Clients that do not support Forward Secrecy (FS) are excluded when determining support for it.

(2) No support for virtual SSL hosting (SNI). Connects to the default site if the server uses SNI.

Handshake Simulation

(3) Only first connection attempt simulated. Browsers sometimes retry with a lower protocol version.

(R) Denotes a reference browser or client, with which we expect better effective security.

(All) We use defaults, but some platforms do not use their best protocols and features (e.g., Java 6 & 7, older IE).

(All) Certificate trust is not checked in handshake simulation, we only perform TLS handshake.

Protocol Details

Secure Renegotiation	**Supported**
Secure Client-Initiated Renegotiation	No
Insecure Client-Initiated Renegotiation	No
BEAST attack	Mitigated server-side (more info)
POODLE (SSLv3)	No, SSL 3 not supported (more info)
POODLE (TLS)	No (more info)
Zombie POODLE	No (more info) TLS 1.2 : `0xc009`
GOLDENDOODLE	No (more info) TLS 1.2 : `0xc009`
OpenSSL 0-Length	No (more info) TLS 1.2 : `0xc009`
Sleeping POODLE	No (more info) TLS 1.2 : `0xc009`
Downgrade attack prevention	**Yes, TLS_FALLBACK_SCSV supported** (more info)
SSL/TLS compression	No
RC4	No
Heartbeat (extension)	No
Heartbleed (vulnerability)	No (more info)
Ticketbleed (vulnerability)	No (more info)
OpenSSL CCS vuln. (CVE-2014-0224)	No (more info)
OpenSSL Padding Oracle vuln. (CVE-2016-2107)	No (more info)
ROBOT (vulnerability)	No (more info)
Forward Secrecy	**Yes (with most browsers)** **ROBUST** (more info)
ALPN	Yes http/1.1
NPN	No
Session resumption (caching)	**No (IDs assigned but not accepted)**
Session resumption (tickets)	Yes
OCSP stapling	No
Strict Transport Security (HSTS)	No
HSTS Preloading	**Not in: Chrome Edge Firefox IE**
Public Key Pinning (HPKP)	No (more info)
Public Key Pinning Report-Only	No
Public Key Pinning (Static)	No (more info)
Long handshake intolerance	No
TLS extension intolerance	No
TLS version intolerance	No
Incorrect SNI alerts	No
Uses common DH primes	No, DHE suites not supported
DH public server param (Ys) reuse	No, DHE suites not supported
ECDH public server param reuse	No
Supported Named Groups	secp256r1
SSL 2 handshake compatibility	No
0-RTT enabled	No

HTTP Requests

1 **https://freieturner.de/** (HTTP/1.1 200 OK)

Miscellaneous

Test date	Thu, 02 Oct 2025 07:58:25 UTC
Test duration	83.880 seconds
HTTP status code	200
HTTP server signature	nginx/1.29.1
Server hostname	-

SSL Report v2.4.1

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