



**Common Criteria Certification**  
**BSI-DSZ-CC-xyz      BSI-CC-PP-00zz**

**Test Coverage ATE\_COV**

**MAUVECORP MAUVEVPN CLIENT**  
**Version 2.11**

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# 1 Introduction

This document is the test coverage ATE\_COV for MauveCorp MauveVPN Client. The tables in the following sections show the TOE's test coverage. The tables show different representations of the same data. Section 3 lists each test case and sets it into relation to the TDS module, the SFR and TSFI, that are covered by this test case. Before that, the tables in Section 2 show summaries: The number of test cases per TDS module, per SFR and per TSFI. All tables are based on the entities and relations defined in the database *mauvecorp\_vpn\_client.db*. Further queries in the evaluation process can be generated from the tables *testcases*, *testcase\_module*, *testcase\_sfr* and *testcase\_tsfi*.

## 2 Summary

### 2.1 Number of Test Cases per TDS Module

| Modul                           | Status         | # | Modul                                    | Status        | # | Modul                           | Status        | # |
|---------------------------------|----------------|---|------------------------------------------|---------------|---|---------------------------------|---------------|---|
| Administration::Management-App  | SFR-supporting | 0 | Crypto Services::Random Number Generator | SFR-enforcing | 1 | TLS-Server::Certificate Service | SFR-enforcing | 3 |
| Administration::HTTP-Server     | SFR-enforcing  | 3 | NTP Client::Core                         | SFR-enforcing | 2 | TLS-Server::Core                | SFR-enforcing | 2 |
| Crypto Services::Algorithms     | SFR-enforcing  | 3 | Protection::Memory Protection            | SFR-enforcing | 1 | VPN Client::Certificate Service | SFR-enforcing | 3 |
| Crypto Services::Key Management | SFR-enforcing  | 2 | Protection::Self Test                    | SFR-enforcing | 1 | VPN Client::Core                | SFR-enforcing | 2 |

## 2.2 Number of Test Cases per SFR

| SFR            | # | SFR                 | # | SFR                | # | SFR             | # |
|----------------|---|---------------------|---|--------------------|---|-----------------|---|
| FCS_CKM.1      | 1 | FCS_COP.1/HMAC      | 1 | FPT_TDC.1/TLS.Zert | 3 | FTP_ITC.1/VPN   | 2 |
| FCS_CKM.2/IKE  | 2 | FCS_COP.1/TLS.AES   | 2 | FPT_TDC.1/Zert     | 3 | FTP_TRP.1/Admin | 3 |
| FCS_CKM.2/TLS  | 2 | FCS_COP.1/TLS.Auth  | 2 | FPT_STM.1          | 2 |                 |   |
| FCS_CKM.4      | 1 | FCS_RNG.1/Hash_DRBG | 1 | FPT_TST.1          | 1 |                 |   |
| FCS_COP.1/Hash | 2 | FDP_RIP.1           | 1 | FTP_ITC.1/TLS      | 2 |                 |   |

## 2.3 Number of Test Cases per TSFI

| TSFI             | #  | TSFI         | # | TSFI         | #  |
|------------------|----|--------------|---|--------------|----|
| LI.LAN           | 0  | LI.LAN.UDP   | 0 | LI.WAN.IPsec | 11 |
| LI.LAN.Ether     | 0  | LI.LED       | 0 | LI.WAN.NTP   | 2  |
| LI.LAN.HTTP_MGMT | 4  | LI.WAN       | 0 | LI.WAN.TCP   | 0  |
| LI.LAN.IP        | 0  | LI.WAN.DHCP  | 0 | LI.WAN.UDP   | 0  |
| LI.LAN.TCP       | 0  | LI.WAN.Ether | 0 | Keine TSFI   | 1  |
| LI.LAN.TLS       | 11 | LI.WAN.IP    | 0 |              |    |

### 3 Test Cases

| ID            | subsystem::module                        | SFR                                                                 | TSFI                     |
|---------------|------------------------------------------|---------------------------------------------------------------------|--------------------------|
| Adminsystem_1 | Administration::HTTP-Server              | FTP_TRP.1/Admin                                                     | LI.LAN.HTTP_MGMT         |
| Adminsystem_2 | Administration::HTTP-Server              | FTP_TRP.1/Admin                                                     | LI.LAN.HTTP_MGMT         |
| Adminsystem_3 | Administration::HTTP-Server              | FTP_TRP.1/Admin                                                     | LI.LAN.HTTP_MGMT         |
| Cryptsystem_1 | Crypto Services::Algorithms              | FCS_COP.1/Hash                                                      | LI.LAN.TLS, LI.WAN.IPSec |
| Cryptsystem_2 | Crypto Services::Algorithms              | FCS_COP.1/Hash                                                      | LI.LAN.TLS, LI.WAN.IPSec |
| Cryptsystem_3 | Crypto Services::Algorithms              | FCS_COP.1/HMAC                                                      | LI.LAN.TLS, LI.WAN.IPSec |
| Cryptsystem_4 | Crypto Services::Key Management          | FCS_CKM.1                                                           | LI.LAN.TLS, LI.WAN.IPSec |
| Cryptsystem_5 | Crypto Services::Key Management          | FCS_CKM.4                                                           | LI.LAN.TLS, LI.WAN.IPSec |
| Cryptsystem_6 | Crypto Services::Random Number Generator | FCS_RNG.1/Hash_DRBG                                                 | LI.LAN.TLS, LI.WAN.IPSec |
| NTP_1         | NTP Client::Core                         | FPT_STM.1                                                           | LI.WAN.NTP               |
| NTP_2         | NTP Client::Core                         | FPT_STM.1                                                           | LI.WAN.NTP               |
| Selfprotect_1 | Protection::Memory Protection            | FDP_RIP.1                                                           | Keine TSFI               |
| Selfprotect_2 | Protection::Self Test                    | FPT_TST.1                                                           | LI.LAN.HTTP_MGMT         |
| TLS_1         | TLS-Server::Core                         | FTP_ITC.1/TLS, FCS_CKM.2/TLS, FCS_COP.1/TLS.AES, FCS_COP.1/TLS.Auth | LI.LAN.TLS               |
| TLS_2         | TLS-Server::Core                         | FTP_ITC.1/TLS, FCS_CKM.2/TLS, FCS_COP.1/TLS.AES, FCS_COP.1/TLS.Auth | LI.LAN.TLS               |
| TLS_3         | TLS-Server::Certificate Service          | FPT_TDC.1/TLS.Zert                                                  | LI.LAN.TLS               |
| TLS_4         | TLS-Server::Certificate Service          | FPT_TDC.1/TLS.Zert                                                  | LI.LAN.TLS               |
| TLS_5         | TLS-Server::Certificate Service          | FPT_TDC.1/TLS.Zert                                                  | LI.LAN.TLS               |
| VPN_1         | VPN Client::Core                         | FTP_ITC.1/VPN, FCS_CKM.2/IKE                                        | LI.WAN.IPSec             |
| VPN_2         | VPN Client::Core                         | FTP_ITC.1/VPN, FCS_CKM.2/IKE                                        | LI.WAN.IPSec             |
| VPN_3         | VPN Client::Certificate Service          | FPT_TDC.1/Zert                                                      | LI.WAN.IPSec             |
| VPN_4         | VPN Client::Certificate Service          | FPT_TDC.1/Zert                                                      | LI.WAN.IPSec             |
| VPN_5         | VPN Client::Certificate Service          | FPT_TDC.1/Zert                                                      | LI.WAN.IPSec             |