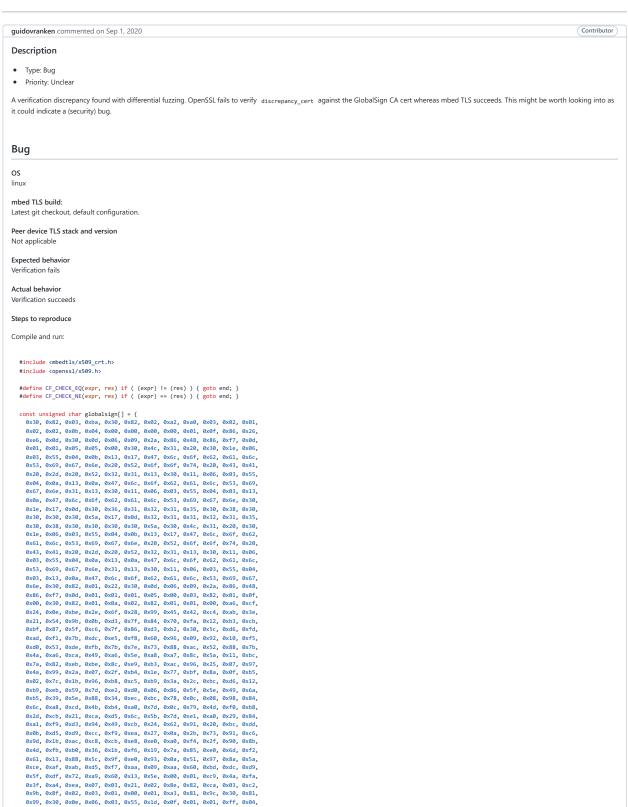


New issue

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Certificate verification discrepancy between OpenSSL and mbed TLS #3629





```
0x04, 0x03, 0x02, 0x01, 0x06, 0x30, 0x0f, 0x06, 0x03, 0x55, 0x1d, 0x13, 0x01, 0x01, 0xff, 0x04, 0x05, 0x30, 0x03, 0x01, 0x01, 0xff, 0x30, 0x1d, 0x06, 0x03, 0x55, 0x1d, 0x0e, 0x04, 0x16, 0x04, 0x14, 0x9b, 0xe2, 0x07,
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0x29, 0x89, 0xd7, 0xdd, 0x91, 0xee, 0xd3, 0x5c, 0xa2, 0x3e, 0xa1, 0x5b,
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      0x8c. 0xe8. 0xf8. 0x2d. 0xa4. 0x74. 0x56. 0x49. 0xc5. 0x05. 0xh5. 0x4f
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       0x18, 0x91, 0xbb, 0xf4, 0x6f, 0x9d, 0xc1, 0xf0, 0x8c, 0x35, 0x8c, 0x5d
       0x01, 0xfb, 0xc3, 0x6d, 0xb9, 0xef, 0x44, 0x6d, 0x79, 0x46, 0x31, 0x7e
     0x0a, 0xfe, 0xa9, 0x82, 0xc1, 0xff, 0xef, 0xab, 0x6e, 0x20, 0xc4, 0x50, 0xc9, 0x5f, 0x9d, 0x4d, 0x9b, 0x17, 0x8c, 0x0c, 0xe5, 0x01, 0xc9, 0xa0,
       0x41, 0x6a, 0x73, 0x53, 0xfa, 0xa5, 0x50, 0xb4, 0x6e, 0x25, 0x0f, 0xfb
       0x4c. 0x18. 0xf4. 0xfd. 0x52. 0xd9. 0x8e. 0x69. 0xh1. 0xe8. 0x11. 0x0f
      0xde, 0x88, 0xd8, 0xfb, 0x1d, 0x49, 0xf7, 0xaa, 0xde, 0x95, 0xcf, 0x20,
      0x78, 0xc2, 0x60, 0x12, 0xdb, 0x25, 0x40, 0x8c, 0x6a, 0xfc, 0x7e, 0x42, 0x38, 0x40, 0x64, 0x12, 0xf7, 0x9e, 0x81, 0xe1, 0x93, 0x2e
const unsigned char discrepancy cert[] = {
   0x30, 0x82, 0x04, 0x4a, 0x30, 0x82, 0x03, 0x32, 0xa0, 0x03, 0x02, 0x01, 0x02, 0x02, 0x00, 0x01, 0xe3, 0xb4, 0x9a, 0xa1, 0x8d, 0x8a, 0xa9, 0x81, 0x25, 0x69, 0x50, 0xb8, 0x30, 0x0d, 0x06, 0x09,
    0x2a, 0x86, 0x48, 0x86, 0xf7, 0x0d, 0x01, 0x01, 0x0b, 0x05, 0x00, 0x30, 0x4c, 0x31, 0x20, 0x30,
   0x1e, 0x06, 0x03, 0x55, 0x04, 0x0b, 0x13, 0x17, 0x47, 0x6c, 0x6f, 0x62, 0x61, 0x6c, 0x53, 0x69, 0x67, 0x6e, 0x20, 0x52, 0x6f, 0x6f, 0x74, 0x20, 0x41, 0x20, 0x2d, 0x20, 0x52, 0x52, 0x32, 0x31
    0x13, 0x30, 0x11, 0x06, 0x03, 0x55, 0x04, 0x0a, 0x13, 0x0a, 0x47, 0x6c, 0x6f, 0x62, 0x61,
   0x53, 0x69, 0x67, 0x6e, 0x31, 0x13, 0x30, 0x11, 0x06, 0x03, 0x55, 0x04, 0x03, 0x13, 0x0a, 0x47, 0x6c, 0x6f, 0x62, 0x61, 0x6c, 0x53, 0x69, 0x67, 0x6e, 0x30, 0x1e, 0x17, 0x0d, 0x31, 0x37, 0x30,
   0x36, 0x31, 0x35, 0x30, 0x30, 0x30, 0x30, 0x30, 0x34, 0x32, 0x5a, 0x17, 0x0d, 0x32, 0x31, 0x31, 0x32, 0x31, 0x35, 0x30, 
    0x03, 0x55, 0x04, 0x06, 0x13, 0x02, 0x55, 0x53, 0x31, 0x1e, 0x30, 0x1c, 0x06, 0x03, 0x55, 0x04,
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    0x03, 0x13, 0x0a, 0x47, 0x54, 0x53, 0x20, 0x43, 0x41, 0x20, 0x31, 0x4f, 0x31, 0x30, 0x82, 0x01,
   0x22, 0x30, 0x0d, 0x06, 0x09, 0x2a, 0x86, 0x48, 0x86, 0xf7, 0x0d, 0x01, 0x01, 0x01, 0x01, 0x05, 0x00, 0x08, 0x82, 0x01, 0x0f, 0x06, 0x38, 0x82, 0x01, 0x0f, 0x06, 0x18, 0x00, 0x18, 
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  0x98, 0x10, 0x49, 0xe7, 0x0b, 0x9d, 0x83, 0x39, 0xdd, 0x20, 0xc6, 0x1c, 0x2d, 0xef, 0xd1, 0x18,
    0x61, 0x65, 0xe7, 0x23, 0x83, 0x20, 0xa8, 0x23, 0x12, 0xff, 0xd2, 0x24, 0x7f, 0xd4, 0x2f,
    0x44, 0x6a, 0x5b, 0x4d, 0xd7, 0x50, 0x66, 0xb0, 0xaf, 0x9e, 0x42, 0x63, 0x05, 0xfb, 0xe0, 0x1c,
   0xc4, 0x63, 0x61, 0xaf, 0x9f, 0x6a, 0x33, 0xff, 0x62, 0x97, 0xbd, 0x48, 0xd9, 0xd3, 0x7c, 0x14, 0x67, 0xdc, 0x75, 0xdc, 0x2e, 0x69, 0xe8, 0xf8, 0x6d, 0x78, 0x69, 0xd0, 0xb7, 0x10, 0x05, 0xb8,
   0xf1, 0x31, 0xc2, 0x3b, 0x24, 0xfd, 0x1a, 0x33, 0x74, 0xf8, 0x23, 0xe0, 0xec, 0x6b, 0x19, 0x8a,
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   0x01. 0x00. 0x01. 0xa3. 0x82. 0x01. 0x33. 0x30. 0x82. 0x01. 0x2f. 0x30. 0x0e. 0x06. 0x03. 0x55.
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   0x06, 0x03, 0x55, 0x1d, 0x0e, 0x04, 0x16, 0x04, 0x14, 0x98, 0xd1, 0xf8, 0x6e, 0x10, 0xeb, 0xcf,
   0x9b, 0xec, 0x60, 0x9f, 0x18, 0x90, 0x1b, 0xa0, 0xeb, 0x7d, 0x09, 0xfd, 0x2b, 0x30, 0x1f, 0x06, 0x03, 0x55, 0x1d, 0x23, 0x04, 0x18, 0x30, 0x16, 0x80, 0x14, 0x9b, 0xe2, 0x07, 0x57, 0x67, 0x1c,
   0x1e, 0xc0, 0x6a, 0x66, 0x6e, 0x59, 0xb4, 0x9a, 0x2d, 0xdf, 0xdc, 0x19, 0x86, 0x2e, 0x30, 0x35, 0x06, 0x08, 0x2b, 0x66, 0x61, 0x65, 0x05, 0x07, 0x01, 0x01, 0x04, 0x29, 0x30, 0x27, 0x30, 0x25,
    0x06, 0x08, 0x2b, 0x06, 0x01, 0x05, 0x05, 0x07, 0x30, 0x01, 0x86, 0x19, 0x68, 0x74, 0x74, 0x70,
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    0x3e, 0x36, 0x79, 0xfb, 0xf3, 0x2e, 0xa9, 0x46, 0x37, 0x7d, 0x5e, 0x54, 0x16, 0x35, 0xae, 0xc7,
   0x4e. 0x08. 0x99. 0xfe. 0xbd. 0xd1. 0x34. 0x69. 0x26. 0x52. 0x66. 0x07. 0x3d. 0x0a. 0xba. 0x49.
    0xcb, 0x62, 0xf4, 0xf1, 0x1a, 0x8e, 0xfc, 0x11, 0x4f, 0x68, 0x96, 0x4c, 0x74, 0x2b, 0xd3, 0x67,
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    0x9f, 0x71, 0x8e, 0xee, 0x2d, 0x58, 0x34, 0x07, 0xf0, 0xd5, 0x54, 0xe9, 0x86, 0x59, 0xfd, 0x7b,
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   0x51. 0x2a. 0x71. 0xbb. 0xac. 0x7a. 0xb5. 0xdd. 0x15. 0xed. 0x2b. 0xc9. 0x08. 0x2a. 0x2c. 0x8a.
    0xb4, 0xa6, 0x21, 0xab, 0x63, 0xff, 0xd7, 0x52, 0x49, 0x50, 0xd0, 0x89, 0xb7, 0xad, 0xf2, 0xaf,
   0xfb. 0x50. 0xae. 0x2f. 0xe1. 0x95. 0x0d. 0xf3. 0x46. 0xad. 0x9d. 0x9c. 0xf5. 0xca. 0x27. 0xa4.
    0xeb, 0x4d, 0xb7, 0x8b, 0xd0, 0x77, 0x84, 0xc8, 0xc0, 0xea, 0x42, 0x21, 0x3a, 0x6f, 0x02, 0x1f,
    0xa7, 0x4d, 0x89, 0x5e, 0xea, 0xad, 0x95, 0x8e, 0x6a, 0x12, 0x87, 0x5b, 0xce,
   0xd3, 0x26, 0x11, 0xa6, 0xbe, 0xa0, 0x20, 0xac, 0x32, 0x02, 0x8b, 0x20, 0xeb, 0x83, 0x1b, 0x2c, 0xfd, 0x52, 0xa2, 0xb4, 0x44, 0xee, 0x52, 0x45, 0x2a, 0x2f, 0x5b, 0xbe, 0x15, 0xce, 0x78, 0xba, 0x47, 0x19, 0x97, 0x98, 0xa9, 0x56, 0x23, 0xa9, 0x9f, 0x57, 0xe2, 0xd7, 0x92, 0xf6, 0x4c, 0x53,
```

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   8xce, 8x78, 0xba, 0x47, 0x19, 0x19, 0x97, 0x98, 0xa9, 0x56, 0x23, 0xa9, 0x97, 0x57, 0x22, 0x41, 0x50, 0x17, 0x24, 0x57, 0x22, 0x12, 0x30, 0x17, 0x24, 0x51, 0x12, 0x30, 0x51, 0x12, 
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      0x00, 0x30, 0x80, 0x06, 0x09, 0x60, 0x86, 0x48, 0x01, 0x86, 0xf8, 0x42, 0x01, 0x01, 0x04, 0x0c};
static void mbedtls(void) {
    mbedtls_x509_crt cert;
                mbedtls_x509_crt ca;
                /* noret */ mbedtls x509 crt init(&cert);
                /* noret */ mbedtls_x509_crt_init(&ca);
                \label{lem:cf_check_eq} \begin{subarray}{ll} CF\_CHECK\_EQ(mbedtls\_x509\_crt\_parse(\&cert, discrepancy\_cert, \begin{subarray}{ll} size of (discrepancy\_cert)), 0); \\ \end{subarray}
                CF_CHECK_EQ(mbedtls_x509_crt_parse(&ca, globalsign, sizeof(globalsign)), 0);
                                 uint32_t flags;
printf("mbed TLS:\n");
                                 if ( mbedtls_x509_crt_verify(&cert, &ca, NULL, NULL, &flags, NULL, NULL) == 0 ) {
    printf("Verification succeeded\n");
                                 } else {
                                               printf("Verification failed\n");
end:
               /* noret */ mbedtls_x509_crt_free(&cert);
                 /* noret */ mbedtls_x509_crt_free(&ca);
 static void openssl(void) {
                X509* x509 = NULL;
               X509* ca = NULL;
X509_STORE* store = NULL;
                X509_STORE_CTX* storeCtx = NULL;
                                  const unsigned char* p = discrepancy_cert;
                                 CF_CHECK_NE(d2i_X509(&x509, &p, sizeof(discrepancy_cert)), NULL);
                                 const unsigned char* p = globalsign;
                               CF_CHECK_NE(d2i_X509(&ca, &p, sizeof(globalsign)), NULL);
                CF_CHECK_NE(store = X509_STORE_new(), NULL);
               CF_CHECK_EQ(X509_STORE_add_cert(store, ca), 1);
               CF_CHECK_NE(storeCtx = X509_STORE_CTX_new(), NULL);
CF_CHECK_EQ(X509_STORE_CTX_init(storeCtx, store, x509, NULL), 1);
                /* noret */ X509_STORE_CTX_set_flags(storeCtx, X509_V_FLAG_CB_ISSUER_CHECK);
                 printf("OpenSSL:\n");
                 if ( X509_verify_cert(storeCtx) == 1 ) {
                                 printf("Verification succeeded\n");
                                 printf("Verification failed\n");
end:
                X509_free(x509);
                X509_free(ca);
                 X509_STORE_CTX_free(storeCtx);
                X509_STORE_free(store);
 int main(void)
                 mhedtls()
                 openssl();
                return 0;
```

- A averodgman assigned paul-elliott-arm on Sep 3, 2020
- Omponent-x509 labels on Sep 7, 2020
- mail = paul-elliott-arm added this to To Do in OBSOLETE PLEASE SEE https://github.com/orgs/Mbed-TLS/projects/2 via automation on Oct 16, 2020
- 🔟 🎅 paul-elliott-arm moved this from To Do to In Progress in OBSOLETE PLEASE SEE https://github.com/orgs/Mbed-TLS/projects/2 on Oct 26, 2020

