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TC_process underflow resolved

 dev1 parent [45e079a](#) commit ca39cb9  Filter files...

src/core

 crypto_tc.c

test/unit

 ut_tc_process.c 2 files changed +60 -0 lines changed Search within codesrc/core/crypto_tc.c  

+7 000000 ...

```
@@ -1871,6 +1871,13 @@ int32_t Crypto_TC_ProcessSecurity_Cam(uint8_t *ingest, int
     *len_ingroup, TC_t *tc

1871 1871
1872 1872     Crypto_TC_Calc_Lengths(&fecf_len, &segment_hdr_len);
1873 1873
1874 +     if(tc_sdls_processed_frame->tc_header.fl <= TC_FRAME_HEADER_SIZE - segment_hdr_len
1875 -     fecf_len + 1)
1876 +     {
1877 +         status = CRYPTO_LIB_ERR_TC_FRAME_LENGTH_UNDERFLOW;
1878 +         mc_if->mc_log(status);
1879 +         return status;
1880 +
1881 // Parse & Check FECF
1882     Crypto_TC_Parse_Check_FECF(ingest, len_ingroup, tc_sdls_processed_frame);
1883
...
```

```
..... @@ -1262,4 +1262,57 @@ UTEST(TC_PROCESS, TC_KEY_STATE_TEST)
1262    1262        Crypto_Shutdown();
1263    1263    }
1264    1264
1265    + UTEST(TC_PROCESS, TC_HEAP_BUFFER_OVERFLOW_TEST)
1266    + {
1267    +     remove("sa_save_file.bin");
1268    +     // Local Variables
1269    +     int32_t status = CRYPTO_LIB_SUCCESS;
1270    +
1271    +     // Configure Parameters
1272    +     Crypto_Config_CryptoLib(KEY_TYPE_INTERNAL, MC_TYPE_INTERNAL, SA_TYPE_INMEMORY,
1273    +                             CRYPTOGRAPHY_TYPE_LIBGCRYPT,
1274    +                             IV_INTERNAL, CRYPTO_TC_CREATE_FECF_TRUE,
1275    +                             TC_PROCESS_SDLS_PDUS_TRUE, TC_HAS_PUS_HDR,
1276    +                             TC_IGNORE_SA_STATE_FALSE, TC_IGNORE_ANTI_REPLY_TRUE,
1277    +                             TC_UNIQUE_SA_PER_MAP_ID_FALSE,
1278    +                             TC_CHECK_FECF_TRUE, 0x3F,
1279    +                             SA_INCREMENT_NONTRANSMITTED_IV_TRUE);
1280    +     // AOS Tests
1281    +     // Crypto_Config_Add_Gvcid_Managed_Parameter(0, 0x0003, 0, TC_HAS_FECF,
1282    +     //                                               TC_HAS_SEGMENT_HDRS, TC_OCF_NA, 1024,
1283    +     //                                               // AOS_FHEC_NA, AOS_IZ_NA, 0);
1284    +     GvcidManagedParameters_t AOS_Managed_Parameters = {
1285    +         0, 0x0003, 0, TC_HAS_FECF, AOS_FHEC_NA, AOS_IZ_NA, 0, TC_HAS_SEGMENT_HDRS,
1286    +         1024, TC_OCF_NA, 1};
1287    +     Crypto_Config_Add_Gvcid_Managed_Parameters(AOS_Managed_Parameters);
1288    +
1289    +     status = Crypto_Init();
1290    +
1291    +     TC_t *tc_sdls_processed_frame;
1292    +     tc_sdls_processed_frame = malloc(sizeof(uint8_t) * TC_SIZE);
1293    +     memset(tc_sdls_processed_frame, 0, (sizeof(uint8_t) * TC_SIZE));
1294    +
1295    +     // Test frame setup
1296    +     char *test_frame_pt_h =
1297    +         "080300007f0b000af020202027fff020202020202020202020202029bdd5f3c98dd1c50d27a430"
1298    +
1299    +         "a4b6757aa33ec183952a9f76e504eb5f8001066ed6c00c8788e11997f2a058da1633e11fed9851d45"
1300    +
1301    +         "7bb31a9637ec8f4f15bc8575a0e7104dba5c666b17f7cccdc2adbff9";
```

```
1293 +     uint8_t *test_frame_pt_b = NULL;
1294 +     int      test_frame_pt_len = 0;
1295 +
1296 +     SecurityAssociation_t *test_association;
1297 +     sa_if->sa_get_from_spi(10, &test_association);
1298 +     test_association->sa_state = SA_OPERATIONAL;
1299 +     test_association->est      = 1;
1300 +     test_association->arsn_len = 0;
1301 +     test_association->shsnf_len = 0;
1302 +
1303 +     crypto_key_t *ekp = NULL;
1304 +     ekp             = key_if->get_key(test_association->ekid);
1305 +     ekp->key_state = KEY_ACTIVE;
1306 +
1307 +     // Convert input test frame
1308 +     hex_conversion(test_frame_pt_h, (char **) &test_frame_pt_b, &test_frame_pt_len);
1309 +
1310 +     status = Crypto_TC_ProcessSecurity(test_frame_pt_b, &test_frame_pt_len,
1311 +                                         tc_sdls_processed_frame);
1312 +
1313 +     ASSERT_EQ(CRYPTO_LIB_ERR_TC_FRAME_LENGTH_UNDERFLOW, status);
1314 +     free(test_frame_pt_b);
1315 +     free(tc_sdls_processed_frame);
1316 +     Crypto_Shutdown();
1317 +
1265 1318     UTEST_MAIN();
```

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