

## Clarification Request

**Request from:** Norbert Stroick (Norbert.Stroick@siemens.com)

**References:** "BTL Specified Tests 3.0.final"- 9.23.1.X6 Writing Maximum Multiple properties

**Stage:** ☒Request, ☒Listed, ☒Analysis, ☒Resolved

### Background / Proposed Solution:

In the BTL Specified Test 9.23.1.X6 an attempt is made to write the maximum number of Properties within one Write Multiple Property Service. For Devices that use a large APDU-Size and may support Segmentation this number is very large.  
e.g.:

```
NumPropertiesToWrite =  
  (MaxAPDU - NonSegRqstHdrSize - ObjIdSize - TagsSize) / (PropIdSize + TagsSize +  
  ValueSize) =  
  ( MaxAPDU - 4 - 5 - 2 ) / (PropIdSize + 2 + ValueSize) =  
  ( MaxAPDU - 11 ) / (PropIdSize + 2 + ValueSize)
```

MaxAPDU = 1476 , no segmentation ValueSize = 2

NumPropertiesToWrite = ( 1476 -11) /6 = 244

For devices with segmentation support this ends in a really large number (the given formula in the specification is erroneous).

For devices that may have some actions behind the properties it is may be not possible to execute such a large amount of writes in the APDU-timeout.

The proposal is to allow a reject with error code TOO\_MANY\_ARGUMENTS if the device is not able to execute all writes in the given APDU Timeout

### Question:

Is it allowed to reject a WritePropertyMultiple Service with the error code TOO\_MANY\_ARGUMENTS if a device is not able to execute all writes in a WritePropertyMultiple Service in the given APDU-Timeout.

### Response:

No.

While the problem you note with the test is valid the proposed response is not correct. A Reject-PDU represents an error in the PDU. Instead, a Result(-) should be returned, indicating the last property that was written before the application layer timed out or Abort-PDU with either OTHER or PREEMPTED\_BY\_HIGHER\_PRIORITY\_TASK (as documented in the Timeout transition of clause 5.4.5.3 AWAIT\_RESPONSE).

Due to this problem and others with this test, this test will be removed from the test package.