

### Clarification Request

**References:** BTL TP 15.2 section 2.1.11 / 135.1-2013 – 13.9.1

**Date of BTL-WG Response:** 8-April-2019

☒ All Actions Necessitated have been Completed

#### Background:

Test 13.9.1 from 135.1-2013 checks whether the IUT will exactly do the number of APDU retries, that is documented in the respective device object property. TP 15.2 section 2.1.11 has the test with conditionality “must be executed”. There are no further instructions when and how to apply the test so it could be assumed, that the intention is, that all confirmed requests from the IUT need to pass that test.

#### Problems:

- Assume a device is a BACnet router from IP to MSTP. It supports Slave Proxy Auto-discovery. The only ConfirmedRequest the device initiates is readproperty to identify potential slave devices. But it does not really make sense to apply APDU retry rules on the slave discovery requests.
- Another case may be ReadProperty(Multiple) requests to system status or database revision of peer devices for the purpose of alive check for those peers. The IUT may want to apply their own special timing and retry rules for such alive checks and not use the normal APDU retry procedure for that purpose.

#### Questions:

- Is an IUT allowed to not apply APDU retries to requests for slave discovery and skip test 13.9.1 for these requests?
- Is an IUT required to apply APDU retries to requests for the purpose of alive checks?
- Does the BACnet standard mandate that the IUT uses exactly the APDU retry number from the property for all use cases and at all times or is the IUT generally free to use different retry numbers for different purposes or in different load or networking situations.

#### Responses:

**The BACnet standard is clear on how retries are applied and does not give allowance for deviation.**

**If this is important to a vendor, then the correct forum to get this changed is to bring a proposal to the BACnet Committee.**