

Clarification Request

References: [BTL testpackage 18.1.3](#)

Date of BTL-WG Response: October 28, 2021

Problem:

A specific BACnet device has a fixed set of BACnet Objects, each object with a fixed set of properties. These are defined in the device firmware. But depending on configuration options of the application some of the objects are not in use in certain operating modes. Now the device has implemented, that the objects, that are not in use have a fixed PresentValue of 0.0 and a fixed RelinquishDefault property of 0.0 in order to make it obvious the object is currently not in use. For each object a configuration exists where it is in use and it is not fixed at 0.0 but in each configuration there are a couple of unused objects.

The objects, that are not in use do technically support COV and commandability and alarming as indicated by existence of properties specific for these functionalities. When executing COV or alarming or commandability related tests the tester should be free to randomly select any object from the device for testing so she might decide to use one of these currently unused objects. But many of the tests in these areas require to change the PresentValue to different values. So the tests can not really be executed or fail because the value is fixed at 0.0.

Question:

Is it allowed for a device to have unused analog objects with fixed value and should testing of COV and commandability and alarming for the type of the object just use different instances of the object type?

Response:

Yes. This is allowed, but this is not the preferred method. It is preferred that the objects are removed and not disabled. If a product does have disabled objects, the objects must still operate in accordance with the standard.

It is the tester's choice to reconfigure the IUT such that the object to be tested is no longer disabled or to select an object which is not disabled in the current configuration.