

Clarification Request

References: 135-2008 section 12.24.10 List_Of_Object_Property_Reference

135-2008 section 12.24.13 Reliability

Background / Proposed Solution:

12.24.10 List_Of_Object_Property_Reference reads:

If this property is writable, it may be restricted to only support references to objects inside of the device containing the Schedule object. If the property is restricted to referencing objects within the containing device, an attempt to write a reference to an object outside the containing device into this property shall cause a Result(-) to be returned with an error class of PROPERTY and an error code of OPTIONAL_FUNCTIONALITY_NOT_SUPPORTED.

12.24.13 Reliability reads:

All non-NULL values used in the Weekly_Schedule, the Exception_Schedule, and the Schedule_Default properties shall be of the same datatype, and all members of the List_Of_Object_Property_References shall be writable with that datatype. If these conditions are not met, then this property shall have the value CONFIGURATION_ERROR.

Question:

Would should the behavior of the device be for the reverse, when an attempt is made to write into this property a reference to an object inside the containing device, which is not being supported?

Response:

The BTL-WG notes that in order to claim SCHED-E-B a device is required to claim and support SCHED-I-B of a writable property of a supported datatype.

When an attempt is made to write into the List_of_Object_Property_References property a reference to any property which is not being supported, for datatype incompatibility or any other reason, the response should be the same as would occur when pointing List_of_Object_Property_References property at any read-only property. Restrictions found when attempting to use the List_Of_Object_Property_References shall set CONFIGURATION_ERROR in the Reliability property. The Reliability property shall not equal NO_FAULT_DETECTED thereafter, as long as the List_Of_Object_Property_References is invalid. If the IUT can determine that the List_Of_Object_Property_References value in the WriteProperty request will always be invalid, such as to a disallowed standard BACnetPropertyIdentifier in a standard object type, i.e. the Present_Value of the Device object, or to an internal object which does not exist and cannot be created, then the IUT may return a Result(-) to the WriteProperty with error class PROPERTY, error code VALUE_OUT_OF_RANGE.