

Clarification Request

References: ASHRAE 135.1-2025, ASHRAE 135-2024, Test Package 26.1.

Date of BTL-WG Response: May 28, 2026

Background:

7.3.1.28.3 Value_Source Property None Test

Reason for Change: The other Value Source properties are not tested. The minimum on/off requirement from 19.5.1.3 paragraph 4 is not tested.

Purpose: To verify that the Value_Source property shall have the value 'None' when there is no active value source.

Test Concept: If there is no active value source, i.e., the Present_Value has taken on the value of Relinquish_Default, then the Value_Source property shall have the value 'None' *and the other value source properties are updated. If minimum on/off is supported verify the Value_Source_Array at priority 6 is commanded object, O1, and the Command_Time_Array has the present local time.*

Configuration Requirements: The object (O1) to be tested shall have 1 non-NULL entry in its Priority_Array and the Current_Command_Priority has a value other than NULL or 6.

Test Steps:

1. READ PRIO = Current_Command_Priority
2. ~~CHECK(PRIO < 6 and PRIO < NULL)~~
2. VERIFY Value_Source = (is not 'None')
3. WRITE Present_Value = NULL, PRIORITY = PRIO
4. VERIFY Last_Command_Time ~ (T1, the current local time)
5. VERIFY Value_Source_Array = TD, ARRAY_INDEX = PRIO
6. IF (Command_Time_Array is present) THEN
7. VERIFY Command_Time_Array = T1, ARRAY_INDEX = PRIO
8. IF (O1 has Minimum_On_Time or Minimum_Off_Time properties) THEN
9. WAIT the larger of Minimum_Off_Time and Minimum_On_Time
10. VERIFY Value_Source_Array = O1, ARRAY_INDEX = 6
11. IF (Command_Time_Array is present) THEN
12. VERIFY Command_Time_Array ~ (the current local time), ARRAY_INDEX = 6
13. VERIFY Current_Command_Priority = NULL
14. VERIFY Value_Source = 'None' -- the value is the choice 'none'

Problem:

The value of the Command_Time_Array at PRIO in Step #7 does not exactly match the Last_Command_Time. This is because a product evaluates the minimum on/off mechanism and updates the time in the Command_Time_Array at priority 6 before evaluating time in the Command_Time_Array at PRIO.

Question:

Can the time at array index = PRIO of the Command_Time_Array in Step #7 be approximately equal to T1?

Response:

Yes.