

**INTERPRETATION IC 135-2008-1 OF
ANSI/ASHRAE STANDARD 135-2008 BACnet® -
A Data Communication Protocol for Building
Automation and Control Networks**

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Request from: Roland Laird (rlaird@reliablecontrols.com), Reliable Controls, 120 Hallowell Road, Victoria, BC V8L5B4.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE Standard 135-2008, Sections 12.19.10 and 12.20.10, relating to Shrinking Number_of_States in Commandable Multi-state objects.

Background: A question came up regarding what to do with the Present_Value, Priority_Array and the Relinquish_Default values if they exceed the new value of a shrunk Number_Of_States property.

Imagine the Present_Value, Relinquish_Default and Priority_Array having values of 9. The number of states property is adjusted from 10 to the value 7. What should happen to elements of the Priority_Array, Relinquish_Default and the Present_Value?

In Section 12.20.10 the definition of the Number_Of_States property includes "defines the number of states the Present_Value may have.", but the Priority_Array and Relinquish_Default properties are not limited in the same way.

This issue was identified to the BTL-WG.

Interpretation: Existing Priority_Array, Relinquish_Default, and Present_Value values are not required to be changed when the Number_Of_States shrinks.

Question: Is this interpretation correct?

Answer: Yes.

Comments: It should be noted that there are other properties such as Alarm_Values and Fault_Values that are not required to be updated when the Number_of_States shrinks.