

BSR/ASHRAE Addendum s  
to ANSI/ASHRAE Standard 135-2004

# Public Review Draft

ASHRAE® Standard

## Proposed Addendum s to Standard 135-2004, *BACnet*®—A *Data Communication Protocol for Building Automation and Control Networks*

First Public Review (September 2008)  
(Draft Shows Proposed Changes  
to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed addendum, go to the ASHRAE website at <http://www.ashrae.org/technology/page/331> and access the online comment database. The draft is subject to modification until it is approved for publication by the responsible project committee, the ASHRAE Standards Committee, and the Board of Directors. Then it will be submitted to the American National Standards Institute Board of Standards Review (BSR) for approval. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE web site) remains in effect. The current edition of any standard may be purchased from the ASHRAE Bookstore @ <http://www.ashrae.org> or by calling 404-636-8400 or 1-800-527-4723 (for orders in the U.S. or Canada).

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AMERICAN SOCIETY OF HEATING,  
REFRIGERATING AND AIR-CONDITIONING  
ENGINEERS, INC.  
1791 Tullie Circle, NE · Atlanta GA 30329-2305



**[This foreword and the “rationale” on the following pages are not part of this standard. They are merely informative and do not contain requirements necessary for conformance to the standard.]**

## FOREWORD

The purpose of this addendum is to present a proposed change for public review. These modifications are the result of change proposals made pursuant to the ASHRAE continuous maintenance procedures and of deliberations within Standing Standard Project Committee 135. The proposed changes are summarized below.

135-2004s-1. Clarify the circumstances that cause the File object's Archive property to be set to TRUE or FALSE, p. 1.

135-2004s-2. Require support for COV subscriptions of at least 8 hours' lifetime, p.2.

In the following document, language to be added to existing clauses of ANSI/ASHRAE 135-2004 and Addenda is indicated through the use of *italics*, while deletions are indicated by ~~strike through~~. Where entirely new subclauses are proposed to be added, plain type is used throughout. Only this new and deleted text is open to comment as this time. All other material in this addendum is provided for context only and is not open for public review comment except as it relates to the proposed changes.

**135-2004s-1. Clarify the circumstances that cause the File object's Archive property to be set to TRUE or FALSE.**

**Rationale**

The File object's Archive property does not clearly define the expected circumstances that cause the value to be set to TRUE and FALSE.

**Addendum 135-2004s-1**

[Change 12.13.6, p. 190.]

**12.13.6 File\_Size**

This property, of type Unsigned, indicates the size of the file data in octets. If the size of the file can be changed by writing to the file, and File\_Access\_Method is STREAM\_ACCESS, then this property shall be writable.

Writing to the File\_Size property with a value less than the current size of the file shall truncate the file at the specified position. Writing a File\_Size of 0 shall delete all of the file data but not the File object itself. Writing to the File\_Size property with a value greater than the current size of the file shall expand the size of the file but the value of the new octets of the file shall be a local matter.

Devices may restrict the allowed values for writes to the File\_Size. Specifically, devices may allow deletion of the file contents by writing a value of zero, but not necessarily allow arbitrary truncation or expansion.

*Any change to the File\_Size property shall also update the Modification\_Date property to reflect the date when the size was changed.*

[Change 12.13.7, p.191.]

**12.13.7 Modification\_Date**

This property, of type BACnetDateTime, indicates the last time this ~~object~~ *object's underlying file data or File\_Size* was modified. A File object shall be considered modified when ~~it is created or written to.~~ *any of these conditions occur:*

1. *the File object is created;*
2. *the underlying file data that it represents is written using AtomicWriteFile or ConfirmedPrivateTransfer or UnconfirmedPrivateTransfer services or by some internal process; or*
3. *the File\_Size property changes.*

[Change 12.13.8, p.191.]

**12.13.8 Archive**

This property, of type BOOLEAN, ~~indicates whether the File object has been saved for historical or backup purposes. This property shall be logical TRUE only if no changes have been made to the file data by internal processes or through File Access Services since the last time the object was archived.~~ *shall be set to FALSE when the Modification\_Date property changes for any reason. It is the responsibility of an archiving process to set the value of this property to TRUE when it completes. The mechanism by which archiving occurs shall be a local matter.*

**135-2004s-2. Require support for COV subscriptions of at least 8 hours' lifetime.**

**Rationale**

The committee determined that devices supporting COV subscriptions should be able to support subscriptions with lifetimes less than or equal to 8 hours. The value was chosen as a round value in hours which can be counted in seconds in a 15-bit register, permitting easy detection that the value has "wrapped" (the sign bit changes).

**Addendum 135-2004s-2**

[Change 13.14.1.5, p. 289.]

**13.14.1.5 Lifetime**

This parameter, of type Unsigned, shall convey the desired lifetime of the subscription in seconds. A value of zero shall not be allowed. A non-zero value shall indicate the number of seconds that may elapse before the subscription shall be automatically cancelled. If both the 'Issue Confirmed Notifications' and 'Lifetime' parameters are absent, then this shall indicate a cancellation request. If the 'Issue Confirmed Notifications' parameter is present then the 'Lifetime' parameter shall be present.

*Devices that execute this service shall accept, at a minimum, lifetime values up to and including 28800 seconds (8 hours). Devices may optionally support lifetime values larger than 28800. Devices that initiate this service shall be capable of providing Lifetime values less than or equal to 28800.*

[Change 13.15.1.5, p. 291.]

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This parameter, of type Unsigned, shall convey the desired lifetime of the subscription in seconds. A value of zero shall not be allowed. A non-zero value shall indicate the number of seconds that may elapse before the subscription shall be automatically cancelled. If both the 'Issue Confirmed Notifications' and 'Lifetime' parameters are absent, then this shall indicate a cancellation request. If the 'Issue Confirmed Notifications' parameter is present then the 'Lifetime' parameter shall be present.

*Devices that execute this service shall accept, at a minimum, lifetime values up to and including 28800 seconds (8 hours). Devices may optionally support lifetime values larger than 28800. Devices that initiate this service shall be capable of providing Lifetime values less than or equal to 28800.*