

6.1.3. Unit Attention Condition

A unit attention condition shall begin (after the logical unit becomes ready) for each initiator whenever the removable medium may have been changed, the MODE SELECT parameters affecting this initiator have been changed by another initiator, or the target has been reset (by a BUS DEVICE RESET message or a "hard" RESET condition). The unit attention condition shall persist for each initiator until that initiator clears the condition from the logical unit as described in the following paragraphs.

[add implementor's note to explain mode select changes] [Also, Gary Stephens has some issues with this section.]

If an INQUIRY command is received from an initiator with a pending unit attention condition (before the target reports CHECK CONDITION status), the target shall perform the INQUIRY command, report GOOD status, and shall not clear the unit attention condition. If the INQUIRY command is received after the target has reported CHECK CONDITION status to the initiator for a pending unit attention condition, then the unit attention condition shall be cleared, the target shall perform the INQUIRY command, and the target shall report GOOD status.

If a REQUEST SENSE command is received from an initiator with a pending unit attention condition (before the target reports CHECK CONDITION status), then the target may either:

- (1) report any pending sense data and preserve the unit attention condition for later reporting
- (2) discard any pending sense data, report UNIT ATTENTION sense key, and clear the unit attention condition for that initiator.

If the target has already reported CHECK CONDITION status to this initiator for the unit attention condition, the target shall perform the second action listed above.

If an initiator issues a command other than INQUIRY or REQUEST SENSE while a unit attention condition exists for that initiator (prior to reporting CHECK CONDITION for the unit attention condition), the target shall not perform the command and shall report CHECK CONDITION status unless a higher priority status as defined by the target (e.g., BUSY or RESERVATION CONFLICT) is also pending.

If after reporting CHECK CONDITION status to an initiator for a pending unit attention condition the next command received from that initiator is not REQUEST SENSE, then the unit attention condition shall be cleared for that initiator and the sense data is lost.

(2) Changes to Unit Attention Condition paragraph 6.1.3

There are several items that are ambiguous in this section and at least one situation that is not addressed at all. To cover these uncertainties, I propose that this section be reworded as follows:

"6.1.3 Unit Attention Condition

A Unit Attention Condition shall begin (after the logical unit becomes Ready) for each initiator whenever the removable medium may have been changed, the target has been reset (by a BUS DEVICE RESET message or a "hard" RESET condition), or some MODE SELECT parameters affecting this initiator were changed by another initiator. The Unit Attention condition shall persist for each initiator until that initiator clears the condition from the logical unit as described in the following paragraphs.

If an INQUIRY command is received from an initiator with a pending Unit Attention condition (before or after the target reports CHECK CONDITION status), the target shall perform the INQUIRY command, report GOOD STATUS, and shall not clear the Unit Attention condition.

If a REQUEST SENSE command is received from an initiator with a pending Unit Attention condition (before the target reports CHECK CONDITION status), then the target may either:

1. report any pending sense data and preserve the Unit Attention condition for later reporting
2. discard any pending sense data, report UNIT ATTENTION Sense Key, and clear the Unit Attention condition for that initiator.

If the target has already reported CHECK CONDITION status to this initiator for the Unit Attention condition, then the target shall perform the second action listed above.

If an initiator issues a command other than INQUIRY or REQUEST SENSE while a Unit Attention condition exists for that initiator, the target shall not perform the command and shall report CHECK CONDITION status unless a higher priority status is also pending. If a REQUEST SENSE is issued next, the Unit Attention condition will be reported and cleared as noted in the preceding paragraph. If another command other than REQUEST SENSE or INQUIRY is issued instead, then the target shall perform the command and return the appropriate status. The Unit Attention condition is cleared for that initiator and the sense data is lost."