memorandum

T10/04-380r0

To	From	Subject	Date
INCITS T10 Committee	Michael Banther, HP	ADT Optional hard reset signal	06 November, 2004

Revision History

Revision 0 – Initial proposal.

Background

ADT letter ballot comment HPQ 96 calls for removal of the TARGET RESET task management function (see 04-162r2). During discussion of this letter ballot comment, some automation vendors expressed a desire for a method to reset the DT device regardless of the operational status of the ADT link.

This proposal allows DT device vendors to treat the receipt of an active signal on the $Reset_a$ connection as a hard reset.

Proposed changes to the draft standard

5.2 Bus composition

Table 7 — ADT bus connections

Connection Name	O/M[a]	Connection Type	Driven By	Connection Definition
$Reset_a$	O	Signal	automation device port	An automation device may use this connection to signal a reset request to a DT device. A DT device shall treat the receipt of a signal on this connection either: a. As a port logout (see 6.5.5); or b. As a hard reset (see 4.7).
$Sense_a$	M	Sense	automation device port	A DT device shall use this connection to sense the presence or absence of an automation device on the ADT bus.
$Sense_{aux}$	O	Sense		This standard does not define the use of this connection.
$Sense_d$	M	Sense	DT device port	An automation device shall use this connection to sense the presence or absence of a DT device on the ADT bus.
$Signal_{aux}$	O	Signal		This standard does not define the use of this connection.
$Tx_a – Rx_d$	M	Tx-Rx	automation device port	An automation device shall use this connection to send serialized data. A DT device shall receive serialized data on this connection.
$Tx_d – Rx_a$	M	Tx-Rx	DT device port	A DT device shall use this connection to send serialized data. An automation device shall receive serialized data on this connection.
[a] O indicates support is optional, M indicates support is mandatory				