To: INCITS Technical Committee T10
From: Kevin Butt, IBM
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Subject: ADT: Replace Figure 3 with text example

I have an action item from the ADI working group to replace Figure 3 with a textual example.

The question I have is why do we want the example related to Figure 2 but not Figure 3? Notwithstanding the question, here is the fulfillment of the action item.

In ADTr08 clause 4.1:

Figure 3 shows an example in which the automation device has only ADT ports and one of the data transfer devices is performing bridging. The upper data transfer device contains an active bridging manager. Its ADT port is operating both in initiator mode (to issue commands to the automation device) and in target mode (to receive commands initiated by the automation device). The corresponding ADT port on the automation device also operates in both modes.

The lower data transfer device is not performing bridging and its ADT port only operates in target mode. The corresponding ADT port on the automation device only operates in initiator mode.

Figure 3 shows an example in which the automation device has only ADT ports and one of the data transfer devices is performing bridging. The upper data transfer device contains an active bridging manager. Its ADT port is operating both in initiator mode (to issue commands to the automation device) and in target mode (to receive commands initiated by the automation device). The corresponding ADT port on the automation device also operates in both modes.

The lower data transfer device is not performing bridging and its ADT port only operates in target mode. The corresponding ADT port on the automation device only operates in initiator mode.

An automation device may chose to use an ADT port to communicate with a data transfer device that is willing to act as a bridge between the automation device and an application client. The data transfer device will receive commands on its primary port and process them through a “Bridging Manager” that resides in the data transfer device. This “Bridging Manager” will forward these commands to the automation device through the ADT port. The automation device will respond with status back to the data transfer device and the data transfer device will forward the status on to the application client. In this case both the ADT port on the data transfer device is acting as an initiator port (to issue commands to the automation device) and target port (to receive commands initiated by the automation device). The corresponding ADT port on the automation device also operates as both an initiator port and a target port. Multiple data transfer devices may be in the automation device operating without using bridging. In this case the data transfer device ADT port is operating as a target port and the automation ADT port is operating as an initiator port.