

To: INCITS Technical Committee T10

From: Kevin Butt, IBM

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Subject: SSC-3: Configurable Early Warning

## 1. Revisions

## 2. Introduction

Computer Associates responded to a request from ISV's by the SSC and SMC working groups to provide input of functionality that ISV's would like to see added to the standards. CA's request was "Some device support allowing the Early Warning size to be set, but can this be made a standard. This would allow us to calculate how much space we will need at the end of a tape and make sure that there will be sufficient space for dumping our data to the tape before running out of space." This proposal's intent is to accomodate this request.

## 3. Proposal

Add the following 2-byte parameter to <<Device Configuration subpage? - add subpage>>

Logical End of Partition — Early Warning (LEOP-EW) This field provides a vehicle for the application client to enable an early warning indication of the approach of the Logical End of Partition (LEOP). This warning may be used by the application client to ensure it has sufficient remaining space on the current tape partition to commit all of its internal write buffers. The early warning is provided in the form of a deferred CHECK CONDITION status with associated sense data of 6/0002 (Unit Attention, End-of-Partition/Medium Detected). This CHECK CONDITION status is returned when the first device block is committed to the medium which comes within the specified number of megabytes of the LEOP. The normal application client response may be to stop further writes and flush all buffered data to the drive. This field is specified in megabytes. A value of X'0000' results in no warning being given. Any other value specifies the number of megabytes prior to the LEOP that the warning shall occur. The device server assumes worst case compression.