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# T10/08-119r0

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To From INCITS T10 Committee Curtis Ballard, HP Michael Banther, HP Rob Elliott, HP

Subject d, HP Automation Controlled Encryption Corrections

**Revision History** Revision 0 – Initial document.

#### **Related Documents**

spc4r09 – SCSI Primary Commands

adc2r07c - Automation/Drive Interface Commands

08-029r2 - ADC-3 Automation Encryption Control

#### Background

After 08-029r2 was voted on and approved for incorporation into ADC-3 a few issues in the proposal were identified which should be corrected. This proposal presents the identified issues and proposes corrections for them.

In the proposed changes that follow, new text appears in blue, deleted text appears in red strikeout comments appear in green.

### Proposed Changes to ADC-3 08-029r2



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Table y puts too strict of requirements on the values that should be reported in an Encryption Algorithm Support page. The table requires that when the policy type is ADI exclusive, then the ENCRYPT\_C field and the DECRYPT\_C field shall be set to capable with external control but that is only the appropriate response if the command is received over the primary port. For a page returned in response to a command received over the ADI port the device server should report that the device is capable with software encryption or hardware encryption. The table also requires that devices support receiving parameters over all interfaces because it uses a shall statement in the footnote.

	Policy Code	Description	Parameters Control		
			ADC Device Server	RMC Device Server	DT Device Management Interface
Vendor Specific	0000b	Vendor specific	VS	VS	VS
Öpen	0001b	No interface has taken exclusive control of data encryption parameters. This is the default setting for the data encryption parameters control policy.	A	A	A <sup>c</sup>
ADC exclusive	0010b	The ADC device server has exclusive control of the ability to establish or change data encryption parameters and shall report all data encryption algorithms in the list of algorithms reported by the DT device with the ENCRYPT_C field set to capable with external control and the DECRYPT_C field set to capable with external control.	A	РÞ	Pd
	0011b	The ADC device server has exclusive control of the ability to establish or change data encryption parameters and all algorithms are removed from the list of algorithms reported by the DT device (see SSC-3).	A	Pb	Pd
RMC exclusive	0100b	The RMC device server has exclusive control of the ability to establish or change data encryption parameters.	P۹	А	Pd
DT device management interface exclusive	01016	The DT device management interface has exclusive control of the ability to establish or change data encryption parameters.	Pa	Pb	A٢
	0110b – 1111b	Reserved			
data encrypti	If en D P P = Pr th in ce server shall term on parameters with	Ilowed this device server or DT device management interface sup incryption parameters, then the DT device shall process a co T device management interface attempting to establish or o arameters. evented e DT device shall reject a command from this device serve terface attempting to establish or change a set of data enco inate a SECURITY PROTOCOL OUT command that attemp CHECK CONDITION status with the sense key set to ILLEG	ommand f change a r or DT de cryption po ots to estal	rom this de set of data wice manc arameters. blish or che	evice server or encryption agement ange a set of
<sup>b</sup> The RMC dev data encryptic <sup>c</sup> The command	ice server shall tern on parameters. Se	PTION CONFIGURATION PREVENTED. ninate a SECURITY PROTOCOL OUT command that attemp e the appropriate command set standard (e.g., SSC-3). r changing a set of data encryption parameters via a DT d rd.			-



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