T10/06-226r0 ADC-2 Add Encrypting field in VHF data

To: T10 Technical Committee
From: Noud Snelder, BDT (noud.snelder@bdt.de)
Date: 04 May 2006
Subject: T10/06-226r0 ADI-2 Add Encrypting field in VHF data

Revision History
Revision 0 (04 May 2006): initial revision

Related Documents
ADC-r04 – Automation Drive Interface Commands - 2 revision 4

Overview
In ADC-2r04, table 16: VHF Data Descriptor, several bits are defined which return information about the current state of the data transfer device. Amongst these bits are CMPR, WRTP, PARM. Currently new proposals are discussed in SSC-3 which adds encryption as a feature to a data transfer device. This proposal adds a bit in the VHF data which returns information whether the data transfer device is currently encrypting/decrypting.

Suggested Changes to ADC-2

Table 16 — VHF DATA DESCRIPTOR field

Bit Byte	7	6	5	4	3	2	1	0
0	PAMR	HIU	MACC	CMPR	WRTP	CRQST	CRQRD	DINIT
1	INXTN	**ENCRP**	RAA	MPRSNT	Rsvd	MSTD	MTHRD	MOUNTED
2	DT DEVICE ACTIVITY							
3	VS	Reserved				RRQST	INTFC	TAFC

An Encryption (ENCRP) bit set to one indicates that the DT device currently has data encryption enabled. An ENCRP bit set to zero indicates that encryption is not enabled.