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

To: T10 Technical Committee
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Subject: T10/06-226r0 ADC-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

<table>
<thead>
<tr>
<th>Bit</th>
<th>Byte</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>PAMR</td>
<td>HIU</td>
<td>MACC</td>
<td>CMPR</td>
<td>WRTP</td>
<td>CRQST</td>
<td>CRQRD</td>
<td>DINIT</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>INXTN</td>
<td>ENCRP</td>
<td>RAA</td>
<td>MPRSNT</td>
<td>Resvd</td>
<td>MSTD</td>
<td>MTHRD</td>
<td>MOUNTED</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>DT DEVICE ACTIVITY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>VS</td>
<td></td>
<td>Reserved</td>
<td>RRQST</td>
<td>INTFC</td>
<td>TAFC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.