To: Membership of X3T9.2

From: Tetsuro Motoyama, Ricoh Corporation

Date: July 22, 1993

Subject: Scanner Window Descriptor Bytes Proposal

This is a proposal for Scanner command to incorporate the wider data width. It is SCSI-3 proposal under the SCSI-3 Graphics Commands (SGC) project.

1. **Definition of Bit Ordering in the "Window Descriptor Bytes" for SET WINDOW**

<table>
<thead>
<tr>
<th>(MSB)</th>
<th>15</th>
<th>14</th>
<th>13</th>
<th>12</th>
<th>11</th>
<th>10</th>
<th>9</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>(LSB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**B0:**

0: Output leading bit to the least significant data bit
1: Output leading bit to the most significant data bit

**B1:**

0: Output the lower byte on the lower data position (Big Endian)
1: Output the higher byte on the lower data position (Little Endian)

*<for example>*

**Image data**

byte0,byte1,byte2,byte3,byte4,byte5,byte6,byte7...

**Big Endian**

((byte0,byte1),((byte2,byte3)),((byte4,byte5)(byte6,byte7)),...

(B1, B0) = (0,1)

**Little Endian**

16bit (byte1,byte0),(byte3,byte2),(byte5,byte4),(byte7,byte6),...

32bit (byte3,byte2,byte1,byte0),(byte7,byte6,byte5,byte4),...

(B1, B0) = (1, 1)
B2:
  0: Output Multi-value unpacked
  1: Output Multi-value packed

B3 - B6:
  Reserved

B7:
  0: Normal Output
  1: Mirroring Output

B8 - B15:
  Reserved

2. Additional scanner error commands for Additional Sense Code/Qualifier

<table>
<thead>
<tr>
<th>Automatic Document Feeder (ADF) Error</th>
<th>Additional Sense Code/ Qualifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADF Error</td>
<td>65H / 00H</td>
</tr>
<tr>
<td>ADF Cover Open</td>
<td>65H / 01H</td>
</tr>
<tr>
<td>ADF Lift Up</td>
<td>65H / 02H</td>
</tr>
<tr>
<td>Document Jam in ADF</td>
<td>65H / 03H</td>
</tr>
<tr>
<td>Document Miss Feed in ADF</td>
<td>65H / 04H</td>
</tr>
</tbody>
</table>
