To: Membership of X3T10

From: Tetsuro Motoyama, Ricoh Corporation
             Ralph O. Weber, X3T10

Date: June 22, 1994

Subject: Scanner Window Descriptor Bytes Proposal

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As requested at the May Plenary, I have discussed the disposition of the
scanner proposal (originally X3T9.2/93-036r1) with Mr. Tetsuro Motoyama.
As shown by the following e-mail message, Mr. Motoyama desires that the
proposal be approved as revised. The only revision from the origianl
proposal is an ASC value that is acceptable to George Penokie and me.
This is this only revision ever requested by the committee. -- Ralph

Hi Ralph:

Thank you for your input. I would like to take your first option, that is,
to see you propose the final copy to the committee. As my schedule stands
now, I may not be able to attend the meeting.

Tetsuro

% ====== Internet headers and postmarks (see DECWRL::GATEWAY.DOC) ======
% Received: from inet-gw-2.pa.dec.com by us2rmc.bb.dec.com (5.65/rmc-22feb94)

id AA09501; Tue, 14 Jun 94 16:02:58 -040
% Received: from relay2.UU.NET by inet-gw-2.pa.dec.com (5.65/27May94) id
AA07956; Tue, 14 Jun 94 12:58:38 -070
% Received: from uucp4.UU.NET by relay2.UU.NET with SMTP (rama) id
QQwuhj25298; Tue, 14 Jun 1994 15:57:21 -040
% Received: from mercury.UUCP by uucp4.UU.NET with UUCP/RMAIL ; Tue, 14 Jun
1994 15:57:21 -040
% Received: by mercury.src.ricoh.com (4.1/6.3Junet-1.0) id AA04148; Tue, 14
Jun 94 13:00:02 PD
% Received: by rsivax.str.ricoh.com (4.1/6.3Junet-1.0) id AA19335; Sun, 12
Jun
94 04:53:27 PD
% Date: Sun, 12 Jun 94 04:53:27 PDT
% From: motoyama@rsivax.str.ricoh.com (Tetsuro Motoyama +1-408-954-5445)
% Message-Id: <9406121153.AA19335@rsivax.str.ricoh.com>
% To: uunet!star.enet.dec.com!weber@mercury.src.ricoh.com
% Subject: RE: Regarding the Additional Sense Code and Qualifier

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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

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            _____
   (MSB)   |     |     |     |     |     |     |     |     |
           | 15  | 14  | 13  | 12  | 11  | 10  |  9  |  8  |
           |_____|_____|_____|_____|_____|_____|_____|_____|
           |  7  |  6  |  5  |  4  |  3  |  2  |  1  |  0  |
           |_____|_____|_____|_____|_____|_____|_____|_____|  (LSB)
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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

Automatic Document Feeder (ADF) Error	Additional Sense Code/ Qualifier
ADF Cover Open	66H / 00H
ADF Lift Up	66H / 01H
Document Jam in ADF	66H / 02H
Document Miss Feed in ADF	66H / 03H