

HUTRR88 - Add Microsoft Pen Protocol to Digitizers Page.txt

Request #: HUTRR88  
Title: Add Microsoft Pen Protocol to Digitizers Page  
Spec Release: 1.12  
Requester: Nathan Sherman  
Company: Microsoft  
Phone:  
Email: nathans@microsoft.com

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Pages Affected: Digitizers 0x0D  
Values checked: Yes, by Chair  
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Current Status: Approved  
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Required Voter: Microsoft  
Required Voter: Intel  
Required Voter: Wacom  
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Received: 09 Oct 2018  
Voting Begins: 25 Oct 2018  
Voting Ends: 01 Nov 2018  
Voting Result: Approved 6-0-0  
Approved Date: 02 Nov 2018  
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Summary:

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This request extends HUTRR67 to add support for the Microsoft Pen Protocol to the list of ratified pen protocol usages (USI and Wacom AES), and also amends the text in HUT 1.12 (Chapter 16.2) to allow the Stylus usage to be used as a top level collection.

Background:

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It is becoming more common that a transducer used on a digitizer device is from a different manufacturer. These usages help bundle together manufacturer and version information that is needed to determine if a transducer needs a firmware update. This request adds a usage to identify an additional protocol which a digitizer or stylus can support.

Active powered digital pens may have the ability to connect to the OS independently from the digitizer, for the communication of other digital data. In this scenario it is advantageous for the host to understand that the information exposed through a side channel like Bluetooth corresponds to a stylus which can report through

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the digitizer present on the system.

Proposal:

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All changes are localized to Chapter 16 Digitizers (0x0D).

Change in usage type to be made to Table 18: Digitizer Page

20 Stylus CA,CL 16.2

New usages to be added to Table 18: Digitizer Page

98 Microsoft Pen Protocol Sel 16.3.1

Text changes\*\* referenced by the above usages:  
Section 16.2 Digitizer Transducer Collection Usages

Stylus CA,CL - A stylus is a hand-held transducer that looks and is used like a pen. A digitizer typically reports the coordinates of the tip of a stylus. \*\*A stylus may report additional data independently of the digitizer\*\*. The Stylus collection is a physical collection containing all the controls physically located on the stylus. In the Stylus collection a Pointer physical collection will contain the axes reported by the stylus.

Additions referenced by the above usages:  
Section 16.3.1 Digitizer-Specific Fields

Microsoft Pen Protocol Sel - Indicates the transducer supports the Microsoft Pen protocol.

Response:

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Notes on Approval Procedure:  
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HID WG On Line Voting Procedures

1. Votes are on a per company basis.

2. Each Review Request shall have attached a Required Voter List that is the result of recruiting by the HID Chair and submitter of members of the USB IF. Required Voter List must include the HID Chair plus 2 companies (other than the submitter) plus any others designated by the HID Chair at the Chair's discretion. The Required Voter List ensures that a quorum is available to approve the Request.

3. Impose a 7-calendar-day posting time limit for new Review Requests. HID Chair or designate must post the RR within 7 calendar days. HID Chair or designate must work with the submitter to make sure the request is valid prior to posting. Valid review request must include all fields marked as required in the template. A new template will be adopted that requires at least the following fields: Change Text, Required Voter List, Review Period End Date and Voting End Date, Submittal Date, Submitter, Review Request Title and RR Number.

4. If a RR approval process stalls, the HID Chair may call a face-to-face meeting or conference call to decide the issue. Submitter may request that this take place.

5. Impose a minimum 15-calendar-day review period on a posted RR prior to the voting period. At HID Chair discretion, changes to the RR may require this review period to restart.

6. The Chair will accept votes via documentable means such as mail or e-mail during the 7 calendar days after the close of the review period. If a Required Voter does not vote during the period, then there is no quorum and the Chair may pursue the absent required voter and extend the voting period. The Chair may designate a substitute for the absent voter and extend the voting period if necessary.