

Request #: HUTRR52
Title: New Usage IDs for System Display Rotation Lock Controls
Spec Release: 1.12
Received: 17 Oct 2014
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CurrentStatus: Review
Priority: Normal
Submitted: 22 Oct 2014
Voting Starts: 7 Nov 2014
Voting Ends: 14 Nov 2014
Required Voter: Microsoft
Required Voter: Intel
Required Voter: Qualcomm

Summary:

Proposing new HID usage IDs for system display rotation lock controls.

Background:

System display rotation lock controls are common for portable devices today. Standardization of these controls using HID usages will enable a uniform implementation and experience across a broad range of devices and provide the industry with implementation guidance.

Proposal:

Add the following to Section 4, Table 6: Generic Desktop Page.

Usage ID	Usage Name	Usage Type
-----	-----	-----
0xC9	System Display Rotation Lock Button	OOC
0xCA	System Display Rotation Lock Slider Switch	OOC

Change the following in Section 4, Table 6: Generic Desktop Page

From:

Usage ID	Usage Name
-----	-----
C9-FFFF	Reserved

To:

Usage ID	Usage Name
-----	-----
CB-FFFF	Reserved

Add a new section referenced by the above usages:

Section 4.12 System Display Rotation Lock Controls

System Display Rotation Lock Button OOC - Indicates the current state of a system display rotation lock on/off momentary push button. State must be reported once for every button press.
 System Display Rotation Lock Slider Switch OOC - Indicates the absolute value for the state of system display rotation lock. State must be reported when it goes from 0 to 1 as well as from 1 to 0.

Sample Report Descriptors:

1. Button

COLLECTION (Application)	A1 01
USAGE_PAGE (Generic Desktop)	05 01
LOGICAL_MINIMUM (0)	15 00
LOGICAL_MAXIMUM (1)	25 01
USAGE (System Display Rotation Lock Button)	09 C9
REPORT_SIZE (1)	75 01
REPORT_COUNT (1)	95 01
INPUT (Data,Var,Rel)	81 06
REPORT_SIZE (7)	75 07
REPORT_COUNT (1)	95 01
INPUT (Cnst,Ary,Abs)	81 01
END_COLLECTION	C0

2. Slider Switch

COLLECTION (Application)	A1 01
USAGE_PAGE (Generic Desktop)	05 01
LOGICAL_MINIMUM (0)	15 00
LOGICAL_MAXIMUM (1)	25 01
USAGE (System Display Rotation Lock Slider Switch)	09 CA
REPORT_SIZE (1)	75 01
REPORT_COUNT (1)	95 01
INPUT (Data,Var,Abs)	81 02
REPORT_SIZE (7)	75 07
REPORT_COUNT (1)	95 01
INPUT (Cnst,Ary,Abs)	81 01
END_COLLECTION	C0

Response:

<Added by HID Chair upon closing the Request>

Notes on Approval Procedure:

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.