January 31, 2011

C8051F38x, C8051T62x, C8051T32x, C8051F34x, C8051F32x, CP25xx, and CP21xx USB Errata

Errata Status Summary

Errata #	Title	Impact	Affected Products
1	USB timeout qualifier	Minor	C8051F38x, C8051T62x, C8051T32x, C8051F34x, C805132x, CP25xx, and CP21xx

Impact Definition: Each erratum is marked with an impact, as defined below:
- Minor—Workaround exists.
- Major—Errata that do not conform to the data sheet or standard.
- Information—The device behavior is not ideal but acceptable. Typically, the data sheet will be changed to match the device behavior.

Errata Details

1. **Description**: The USB Serial Interface Engine (SIE) applies a timeout qualifier to a retransmitted OUT packet at the end of the Status Stage transaction of a Control Read Transfer. This response may be seen if a bit error occurs in the ACK packet of the Status stage.

   Impact: If the error condition occurs, the end user may observe that the USB enumeration process may be extended by the time it takes the host to re-schedule two retries and the control read transfers, a bus bandwidth usage increase of typically less than one millisecond.

   Workaround: The error condition is cleared automatically by error handling built into the USB protocol.
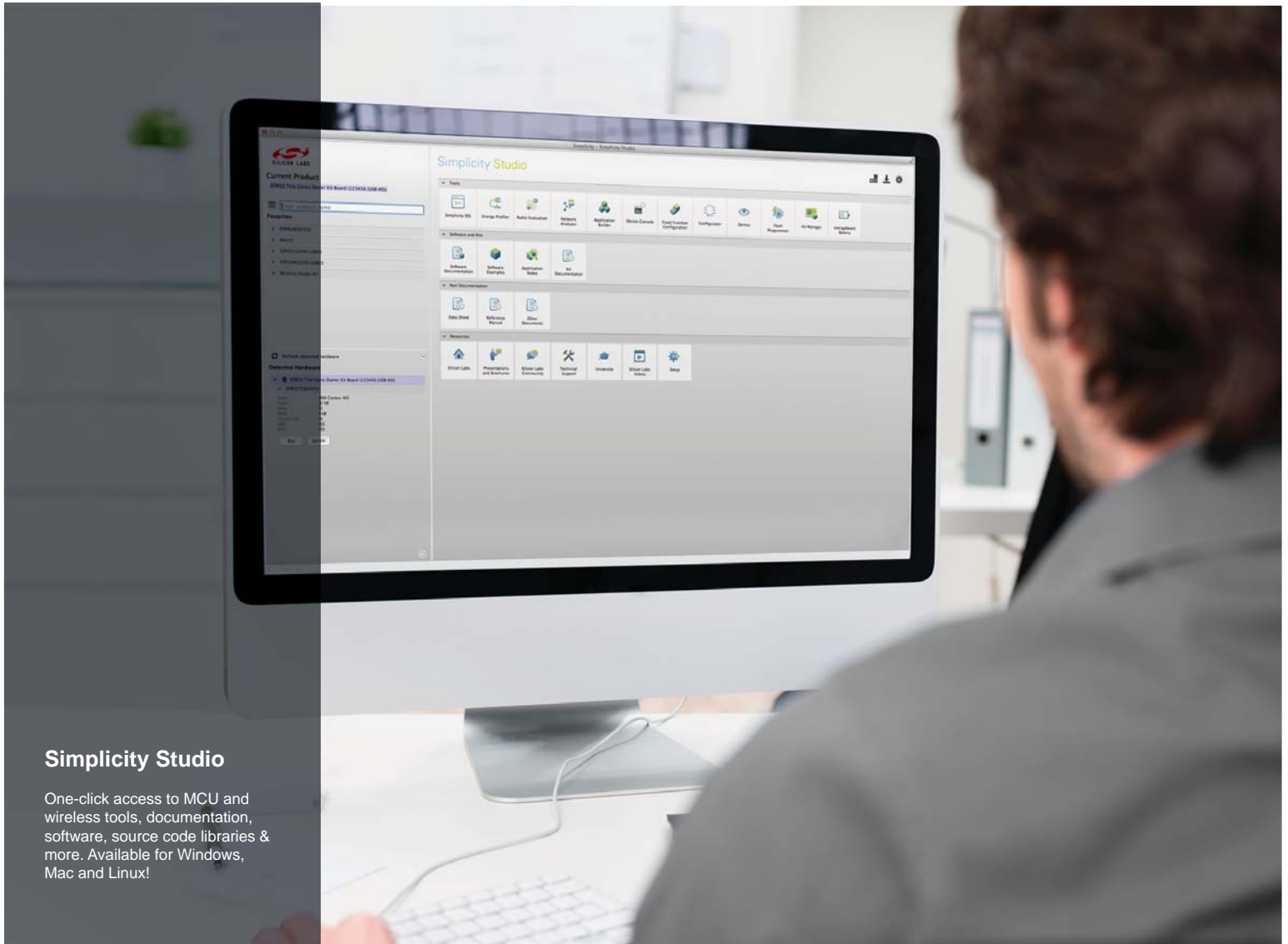
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