

DREAM S.A.S.

USB Vendor ID / Product ID Guidelines

(See also the USB-IF website www.usb.org)

1. Introduction

There are identification and certification options when designing a USB product with DREAM chips. Choices are USB-Implementers Forum assigned Vendor ID with OEM-assigned Product ID or DREAM Vendor ID with DREAM-assigned Product ID. This document outlines these options and identifies requirements for obtaining various certifications.

2. USB Identification Background

As stated on the USB Implementers Forum web site (www.usb.org):

“USB Implementers Forum, Inc. is a non-profit corporation founded by the group of companies that developed the Universal Serial Bus specification. The USB-IF was formed to provide a support organization and forum for the advancement and adoption of Universal Serial Bus technology. The Forum facilitates the development of high-quality compatible USB peripherals (devices), and promotes the benefits of USB and the quality of products that have passed compliance testing. Some of the many activities that the USB-IF supports include:

- USB compliance workshops
- USB compliance test development
- www.usb.org website
- USB pavilions at CES, CeBIT, IDF, WinHEC, and other events
- Marketing programs and collateral materials, such as retail newsletters, retail salespeople
- training, store end-caps, etc.
- USB developer conferences
- and many more...”

Members of the USB-IF have the option of obtaining a Vendor ID for use with their products. This Vendor ID is used in conjunction with a Product ID to uniquely identify USB devices, providing traceability to the OEM.

There are instances where production runs of a device may not be very large, or companies are working on a limited budget. Membership in the USB-IF, in these cases, may cause a USB project to become economically infeasible. In this situation, DREAM offers customer's Product IDs for use with DREAM Vendor ID.

Each of these choices has consequences in visual and official identification of the OEM end device. This document outlines the various identification choices, the associated issues and certification requirements.

3. USB Identification Choices

3.1 DREAM Vendor ID, DREAM Assigned Product ID



DREAM customers who wish to use unique product identifications may obtain, at no charge, a block of Product IDs from DREAM by contacting DREAM with the following information:

- Contact Name
- Company Details
- Country
- Email Address and other contact details
- Product Name
- Production Schedule

Advantages of using a DREAM assigned PID:

- OEM-specific identification of the hardware is available at multiple locations.
 - The Manufacturer and Product Description strings are defined by the firmware running on the DREAM IC. The Product Description is the text that displayed in the "Found New Hardware" tool tip that appears the first time a new device is plugged-in.
 - Product ID assignments are unique to your company, usually issued in blocks of 16 numbers. DREAM maintains a database of assigned values.
- Useful for prototype or low-volume production runs.
- USB-IF membership not required.


Disadvantages of using a DREAM assigned PID:

- USB Certification of the OEM device is not available
- USB Logo:
 - Only the USB Icon  , sometimes called the "trident logo", may be used to identify the connectors, as described in the USB 2.0 specification
 - USB Certified logos like this  may *not* be used.

3.2 USB-IF Assigned Vendor ID, OEM Assigned Product ID

DREAM customers who wish to use the USB logo and have their products listed with the USB-IF must select this option. In order to obtain a unique Vendor ID, the company must be a current member of the USB-IF (see www.usb.org about possible choices for this).

Advantages of USB-IF assigned VID, OEM assigned PID:

- OEM-specific identification of the hardware is available at multiple locations.
 - The Manufacturer and Product Description strings are defined by the firmware running on the DREAM IC. The Product Description is the text that displayed in the "Found New Hardware" tool tip that appears the first time a new device is plugged-in.
 - Vendor ID assignment is unique to the OEM.
 - Product ID assignments are controlled by the OEM.
- Useful for all sized production runs.
- USB-IF membership by the OEM is required. Products are listed by the USB- IF upon completion of compliance tests.
- USB Logo: 
 - USB Certified Logos may be used in conjunction with the USB Icon according to the testing and certification guidelines posted on www.usb.org.
 - USB Icon, sometimes called the "trident logo", may be used to identify the connectors, as described in the USB 2.0 specification.

Disadvantages of USB-IF assigned VID, OEM assigned PID:

- Although a product can be released prior to USB certification, use of the USB Certified logos is not available until after the product has passed compliance tests.

4. Summary

DREAM customers have two choices in determining the USB identification path that is most beneficial and cost effective to their application. DREAM VID and unique PID assignments requires a few steps. Time to market remains quick, but devices cannot be listed on the USB Implementers Forum. USB-IF certification requires a financial commitment on the part of the OEM; however, there are advantages in the marketing and customer acceptance of a device in the USB-IF product list.

Both options are supported by DREAM S.A.S.

5. Contact Information

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