

[White Paper]

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ucode- μ -ID Domain

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ucode- μ -ID Domain

Introduction

Scope

This document specifies how to store μ -ID designed by Hitachi, Ltd. in the ucode [1].

Position of this Document

This document specifies " μ -ID Domain" of authorized standard meta-code in ucode [2].

Reference Documents

- [1] T-Engine Forum, Ubiquitous ID Center, "Ubiquitous Code: ucode," 930-S101 (1)/UID-00010, 2006.
- [2] T-Engine Forum, Ubiquitous ID Center, "Authorized Standard Meta-code in ucode," 930-S101 (2)/UID-00011, 2006.

1. μ -ID

1.1. Definition

μ -ID is a unique ID assigned to μ -chip designed in Hitachi, Ltd. during factory shipment.

1.2. Width

The width of μ -ID is 128 bits.

2. μ -ID Domain

2.1. ucode- μ -ID

The portion other than 24-bit trailer in the μ -ID is defined a ucode- μ -ID. Therefore, the ucode- μ -ID is 104 bits.

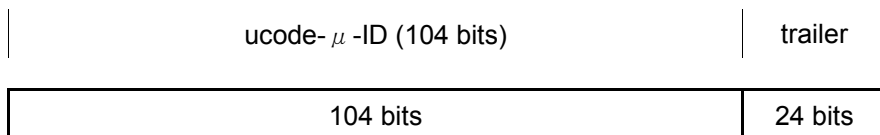


Figure 1: ucode- μ -ID

2.2. μ -ID Domain

16,777,216 second level domains (SLDs) shown in Table 1 are reserved in the TLD space for the authorized standard meta-code in ucode to a ucode space which stores ucode- μ -ID.

Table 1: μ -ID Domain

Domain Name	μ -ID
Class	Class B \times 16,777,216
Version	0x0
TLDc	0xe000
SLDc	0xa = (1010) ₂
dc (24 bits)	0x000000 - 0xffffffff (16,777,216)

2.3. ucode of μ -ID Domain

Figure 2 shows the correspondence between ucode in μ -ID domain and μ -ID.

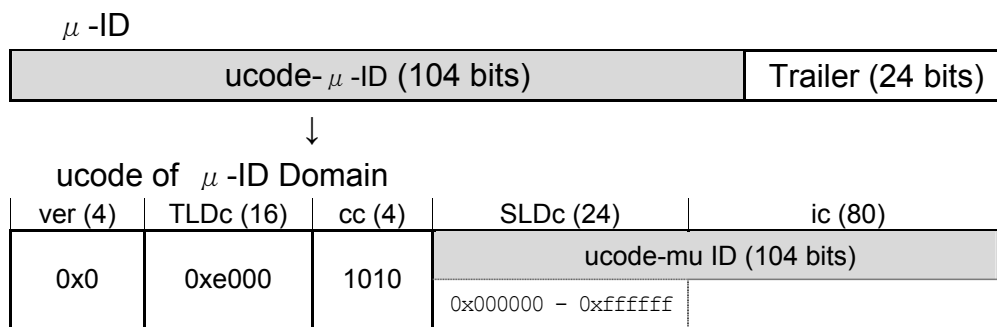


Figure 2: ucode of μ -ID Domain

