

# UUID

01

- ✦ 128 bit label to identify objects
- ✦ GUID – Globally Unique Identifier
- ✦ Duplicate is not Zero ( Negligible)
- ✦ 1 to 8 Versions and Variants available

✦ Universally Unique Identifier



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✦ 1,8 » Date Time + MAC address

✦ 48 bit (MAC) + 60 (TS + Clock Seq)

✦ 2 » Date Time + MAC address + DCE code

✦ 3,5 » Namespace and Name ( Hashing)

✦ 4 » Randomly

✦ 7 » Timestamp + Random

✦ 8 » Custom

## Versions / Variants

- ✦ 1 to 8
- ✦ Unique implementation methods

## Null & Max

- ✦ NULL – filled with Zeros
- ✦ Max – filled with F's



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- Version indicate in 7<sup>th</sup> byte of uuid

- Character after second dash

- UUID can be represent in Integer as well

- URN's can make out of UUID

- Mostly Using distributed computing

- Shared File system paths

- Remoting Object Identification

- Database Unique Key

## Size & Usage

- 128 bits ( 2 to 4 bytes)
- Additional 4 bits for variants

