

Draft-ietf-core-dev-urn-02

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A Uniform Resource Name (URN) namespace for hardware device identifiers.

Potentially useful in applications such as in sensor data streams and storage, or equipment inventories.

Complements other similar identifiers NIs (RFC 6920), UUIDs (RFC 4122), IMEIs (RFC 7254) etc. Supports, e.g., MAC and EUI-64, identifiers as well as various organisation-specific free formats.

urn:dev:mac:0024beffe804ff1

Version -02

- For aligning the usage across the world:
 - **Folded in the “urn:dev:os:” and “urn:dev:ops:” sub-branches from OMA LwM2M specifications**
 - Three levels of “private” device identifiers
- Other changes made as a consequence of the above:
 - **Changed the “org:” sub-branch** to use “-“, not “:” to separate the PEN and the rest of the identifier (to align with the above)
 - A few other **syntax changes**, including allowing %-encoding

The Private Device Identifier Spaces

- Three levels of “private” device identifiers
- My organisation (org:), my serial number (os:), my product and serial number (ops:)

urn:dev:org:32473-blaablaa

urn:dev:os:32473-12345

urn:dev:ops:32473-Refrigerator-12345

Questions

- The **unification** with suggested OMA types seems necessary — **does the WG agree?**
- However, OMA used OUIs, not PEN numbers
 - Easy if you already have an OUI, but otherwise acquiring one is costly, **change to PEN?** Or support both? Or use OUI for all?
- The OMA and IETF draft syntax style for os/ops/org was different, which leads to other desired changes
 - OMA format allowed %-encoding, but this may be a problem
- Do we have **usage of org/os/ops that would be affected?** If we still can, this would be a good opportunity for cleanup & alignment!