EUI-48 and EUI-64 Address Assignments for use in Documentation
draft-jabley-eui48-eui64-doc-addr-00

Abstract

48-bit Extended Unique Identifiers (EUI-48) and 64-bit Extended Unique Identifiers (EUI-64) are address formats specified by the IEEE for use in various layer-2 networks, e.g. ethernet.

This document describes an allocation of EUI-48 and EUI-64 addresses under the IANA Organisationally Unique Identifier (OUI) to be used for the purposes of documentation.

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1. Introduction

48-bit Extended Unique Identifiers (EUI-48) [EUI48] and 64-bit Extended Unique Identifiers (EUI-64) [EUI64] are address formats specified by the IEEE for use in various layer-2 networks, e.g. ethernet.

This document describes an allocation of EUI-48 and EUI-64 addresses under the IANA Organisationally Unique Identifier (OUI) to be used for the purposes of documentation, in accordance with the guidelines and requirements for such allocations described in [RFC5342].

As noted in [RFC5737], the use of designated address ranges for documentation and examples reduces the likelihood of conflicts and confusion arising from the use of addresses assigned for some other purpose.
2. Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].
3. EUI-48 Addresses for use in Documentation

   The 256 unicast identifiers from 00-00-5E-XX-XX-XX to 00-00-5E-XX-XX-XX have been allocated for use in documentation.

   The 256 multicast identifiers from 01-00-5E-XX-XX-XX to 01-00-5E-XX-XX-XX-XX have been allocated for use in documentation.
4. EUI-64 Addresses for use in Documentation

The 256 unicast identifiers from 00-00-5E-XX-XX-XX-XX-XX to 00-00-5E-XX-XX-XX-XX-XX have been allocated for use in documentation.

The 256 multicast identifiers from 01-00-5E-XX-XX-XX-XX-XX to 01-00-5E-XX-XX-XX-XX-XX have been allocated for use in documentation.
5. Guidance for Document Authors

Documents which include literal EUI-48 or EUI-64 addresses, as examples or for other reasons, SHOULD choose addresses within the ranges described in Section 3 and Section 4.

Where literal EUI-48 or EUI-64 addresses in a document are required to be part of a different allocation, e.g. for reasons specific to a particular protocol, authors MAY use addresses from ranges other than those specified in Section 3 and Section 4.
6. Operational Implications

Addresses within the ranges described in Section 3 and Section 4 SHOULD NOT be used for any purpose other than documentation.
7. IANA Considerations

The IANA is directed to document the allocations described in
Section 3 and Section 4 in the appropriate IANA Ethernet Numbers
subregistry.

7.1. IANA Unicast 48-bit MAC Addresses

<table>
<thead>
<tr>
<th>Addresses</th>
<th>Usage</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX-XX-XX to XX-XX-XX</td>
<td>Documentation</td>
<td>this document</td>
</tr>
</tbody>
</table>

7.2. IANA Multicast 48-bit MAC Addresses

<table>
<thead>
<tr>
<th>Addresses</th>
<th>Usage</th>
<th>Reference</th>
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</tr>
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</table>

7.3. IANA 64-bit MAC Addresses

<table>
<thead>
<tr>
<th>Addresses</th>
<th>Usage</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX-XX-XX-XX to XX-XX-XX-XX-XX</td>
<td>Documentation</td>
<td>this document</td>
</tr>
</tbody>
</table>
8. Security Considerations

   The specification presented in this document presents no additional threat to the Internet.
9. Acknowledgements

[RFC5737], concerning the allocation of IPv4 address blocks for
documentation, provided a useful reference in the preparation of this
document.

"EUI-48" and "EUI-64" are registered trademarks of the Institute of
Electrical and Electronics Engineers (IEEE).
10. Normative References

[EUI48] IEEE, "Guidelines for use of a 48-bit Extended Unique Identifier (EUI-48)".

[EUI64] IEEE, "Guidelines for use of a 64-bit Extended Unique Identifier (EUI-64)".


Appendix A. Editorial Notes

This section (and sub-sections) to be removed prior to publication.

A.1. EUI-48/EUI-64 Identifier or Identifier Block Template

Applicant Name:

Joe Abley

Applicant Email:

jabley@teksavvy.ca

Applicant Telephone: (starting with country code)

+1 519 670 9327

Use Name: (brief name of Parameter use such as "Foo Protocol")

Document: (ID or RFC specifying use to which the identifier or block of identifiers will be put.)

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Specify whether this is an application for EUI-48 or EUI-64 identifiers:

Both EUI-48 and EUI-64

Size of Block requested: (must be a power-of-two-sized block, can be a block of size one (2**0))

256 EUI-48 addresses
256 EUI-64 addresses

Specify multicast, unicast, or both:

Both

A.2. Change History
00 Initial idea, circulated for the purposes of entertainment.
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