

Representing IPv6 Zone Identifiers in Uniform Resource Identifiers

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Summary of draft

- Make browsers accept:

`http://[fe80::abcd%eth0]`

`https://[fe80::abcd%eth0]`

Reminder of use cases

- Existence check:
`http://[fe80::1234%eth0]` instead of
`ping fe80::1234%eth0`
- Configure device (e.g. home router) via browser
- CUPS printing mechanism
- Microsoft WSD virtual printer port mechanism
- National Marine Electronics Association (NMEA)
“NMEA OneNet Standard for IP Networking of
Marine Electronic Devices”, September 2022.

IESG Status

- Two unresolved DISCUSS ballots since March 2023:
 - Ops AD (Rob Wilton) – concern about applicability to network devices that don't have conforming interface names.
 - ART AD (Murray Kucherawy) – concerns from the W3C and browser community about locally significant URIs and about parsing the % sign.

Updates since IESG review (1)

These changes address non-DISCUSS comments:

- Added NMEA use case.
- Clearly explained cut-and-paste requirement.
- Noted potential exposure of MAC addresses in zone IDs

Updates since IESG review (2)

These changes address Rob Wilton's DISCUSS:

- Clarified character set restrictions and the applicability of numeric identifiers as a work-around.
- Updated ABNF to require lower case (due to host component case normalization).
- Noted that scope is limited to hosts that implement the RFC 4007 model.

Updates since IESG review (3)

These changes address Murray Kucherawy's DISCUSS:

- Mentioned .local as another case of locally significant URIs.
- Expanded text on handling of zone ID at server.
- Added discussion of W3C CORS work, which already covers link-local addresses, with mutual cross-reference to the W3C community draft.
- Noted parsing fragility re % sign.

WG Status

- Waiting for further IESG feedback