

## EIP 181: ENS support for reverse resolution of Ethereum addresses

### [Return to Ethereum ERCs](#)

**Note:** The following is an excerpt from the official Ethereum site. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

Table 1: Data sheet for ENS support for reverse resolution of Ethereum addresses

|               |                                                                                                                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------|
| Title         | ENS support for reverse resolution of Ethereum addresses                                                              |
| Author        | Nick Johnson                                                                                                          |
| Status        | Final                                                                                                                 |
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| Description   | <a href="http://eips.ethereum.org/EIPS/eip-181">http://eips.ethereum.org/EIPS/eip-181</a>                             |
| Specification | <a href="http://eips.ethereum.org/EIPS/eip-181#Specification">http://eips.ethereum.org/EIPS/eip-181#Specification</a> |
| Category      | ERC                                                                                                                   |

### Abstract

*This EIP specifies a TLD, registrar, and resolver interface for reverse resolution of Ethereum addresses using ENS. This permits associating a human-readable name with any Ethereum blockchain address. Resolvers can be certain that the reverse record was published by the owner of the Ethereum address in question.*

### Motivation

*While name services are mostly used for forward resolution - going from human-readable identifiers to machine-readable ones - there are many use-cases in which reverse resolution is useful as well:*

- 1. Applications that allow users to monitor accounts benefit from showing the name of an account instead of its address, even if it was originally added by address.*
- 2. Attaching metadata such as descriptive information to an address allows retrieving this information regardless of how the address was originally discovered.*
- 3. Anyone can configure a name to resolve to an address, regardless of ownership of that address. Reverse records allow the owner of an address to claim a name as authoritative for that address.*

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