

CLWP Registry

Acceptance Policy



Version 1.0

Introduction

This document details the acceptance policy for entries to the curated registry of the Consensus Layer Withdrawal Protection. The aim of this registry is to provide the Ethereum validator community a list of verified and reliable set withdrawal address messages to broadcast at the Capella fork.

Disambiguation

The **spelling** of a word or phrase shall refer to not just its spelling, but also its capitalization and usage of spacing and punctuation.

If references are made to previous or existing entries in this registry during the submission of a new entry, they can only be made to entries that have already reached the status of 'Registered' prior to the submission of the new entry in question.

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in the normative portions of this document are to be interpreted as described in [RFC 2119](#). These keywords may appear in lowercase and still retain their meaning unless explicitly declared as non-normative.

Elements required for submission

Field Title	Required	Description	Examples
<i>validator_index</i>	<i>Required</i>	<i>The validator in question for the given chain</i> <i>Take note of the following:</i> <ul style="list-style-type: none"><i>MUST be an integer equal to or greater than 0</i>	<ul style="list-style-type: none"><i>0</i><i>1</i><i>110461</i>
<i>from_bls_pubkey</i>	<i>Required</i>	<i>The public key of the validator withdrawal key</i>	<ul style="list-style-type: none"><i>0x877cc21a067003e848eb3924bcf41bd0e82fbbce026a0ff8e9c3b6b9</i>

		<p>Take note of the following:</p> <ul style="list-style-type: none"> • MUST start with 0x • MUST contain alphanumerics <p>Not case sensitive</p>	<p>2f1fea968ca2e73b55b3908507b4df89eae6bfb</p>
to_execution_address	Required	<p>An Ethereum execution layer address</p> <ul style="list-style-type: none"> • MUST be a valid Ethereum address <p>Not case sensitive</p>	<ul style="list-style-type: none"> • 0x06f2e9ce84d5e686428d361d91b437dc589a5163
CLWP File	Required	<p>A text file which is named as the [validator_index].json</p> <p>File MUST contain a single JSON array containing a single message object, and signature object. See example content structure, but may contain additional fields.</p> <p>See the section “CLWP File Verification” for steps to verify the submitted file.</p>	<p>File verification:</p> <ul style="list-style-type: none"> • “110461.json” file name • Content structure example: <p>https://ipfs.kleros.io/ipfs/QmV1pmATUf3nzVQkXZrnJuxkwwGVjwH4uEcaNE5opNoyP1/110461.json</p>
Item to supersede	Optional	<p>In case there is already an entry on the list for the same validator_index, this field needs to be populated with the ItemID of the other item in this Kleros Curate registry that this entry is meant to supersede.</p> <p>The ItemID is the last part of the URL when viewing the item on curate.kleros.io (e.g. https://curate.kleros.io/tcr/1/0x6E8379f3bf1D95865e46eB88F2aE039923A2d6bb/0xeb5c5b8ba5f651afc7fbc5237cd3877c89f5143f7ff11d892220deb1ff2ca9)</p>	<ul style="list-style-type: none"> • 0x60a5ddd2a0e41a51ce824959137c9ae1864edc47f8e4a09a39dda8e43525a477 • 0x9d46c5f6858e5aa605b3f2b117ca92b0270428156ca4a823897d056325ea31e9 • 0xeb5c5b8ba5f651afc7fbc5237cd3877c89f5143f7ff11d892220deb1ff2ca9ab

		<u>ab)</u> Not case sensitive	
<i>Additional information</i>	<i>Optional</i>	<i>A .pdf file containing any evidence and proof to prove that you are the rightful owner of the validator node.</i>	<i>See below “Conflict Resolution” for details</i> <i>Recommendation: Total evidence should be less than 5MB in size.</i>

CLWP File Verification:

The signature must be verified to match the message:

1. Download the ethdo release 1.27.0 or greater for your target operating system:
<https://github.com/wealdtech/ethdo/releases/>
2. Download the latest available offline-preparation file for the given chain (mainnet):
<https://github.com/benjaminchodroff/ConsensusLayerWithdrawalProtection>
3. Unpack the ethdo release and the offline-preparation file
4. Move the offline-preparation.json.[chain] file to “offline-preparation.json” in the same directory as ethdo
5. Copy the CLWP File contents and run ethdo (for Windows, no ./ is required) with the change-operations file contents in single quotes (Example):

```
./ethdo validator credentials set --offline --json --signed-operations
'["message":{"validator_index":"121518","from_bls_pubkey":"0xa83acb5c8f56c7baba357778df7a
b318819964a206f52408a0532db4a0b688619569041539a80929889beac5c7da6bc2","to_executi
on_address":"0x4a14811ca2d9bc7b702148f422a478703d35d3ea"},"signature":"0xaeeb3247ff4b5
dabb541d91889ab18c9be48410fe52f76d219f07be9544091c101b5fcc07d41d9ea6c236e2917c5ff
9f128d238a4fdcf7b28ee7707f4fc5677df96ff039a68720bf2ea6410ae624f008357a24d7ca8cc0d37
d253bb77caf4ee3"]]'
```
6. If ethdo returns no error and returns the CLWP File contents, it is a valid submission.

Scope

- Any valid Ethereum validator set withdrawal credential be submitted to this registry, even if their withdrawal credentials are already set.
- All disputes must be initiated before [cutoff date 1], and disputes must be concluded before [cutoff date 2]. Beyond [cutoff date 2], further changes to the registration status of any entry will not be taken into account for this exercise, but any ongoing dispute resolution must continue as prescribed by the rules in this document regardless of whether the results will be in time to be included in CLWP.

Conflict resolution

- Any entry that is submitted to the registry that does not fulfill any of the criteria above must be challenged and denied registration outright.
- The first entry for each validator_index that manages to pass validation above must be accepted.

- Any attempt to correct or dispute this first entry shall be handled through an overwrite process using a subsequent entry to supersede the earlier entry using the 'Item to supersede' field.
- There are two scenarios where a subsequent entry can be accepted:
 - If the intention is to replace the first entry, this subsequent submission must:
 - Be submitted by the same submitter address as the first entry
 - No additional justification is needed.
 - If the intention is to dispute the first entry (as you claim to be the rightful owner of the validator node), you will also need to submit proof in the 'Additional information' field to back up your submission.
 - Both publicly verifiable AND non-publicly verifiable data may be submitted as evidence to a jury:
 - Publicly verifiable:
 - Using [MyEtherWallet](#) to sign a message using the original Deposit Address for the validator index as seen by beaconcha.in that contains the date, validator_index, and the intended withdrawal address
 - Using [MyEtherWallet](#) to sign a message using any suggested_fee_recipient for a validator index as seen by beaconcha.in that contains the date, validator_index, slot number, and the intended withdrawal address.
 - Non-Public Data:
 - Photo of passport, or identity document that has a photo along with a notarized statement from legal business providing validator operations attesting to legal validator owner real name, or may be self attested validator operator statement with identity document verification performed by an authorized notary
 - Any other evidence is admissible, but should be considered insufficient alone to demonstrate validator ownership
 - All other subsequent entries that do not fulfill the requirements for these two categories should be rejected outright.
- Only one successfully registered entry for each validator_index will be considered as the correct entry in this list, and the latest accepted entry (i.e. a successful subsequent entry) will be considered as the correct one.

Removal criteria

- Any entry that has already reached the status of 'Registered' will qualify for removal if one of the following criteria are fulfilled:

- The signature in the change-operations entry is found to be incorrect (i.e. violating any of the rules laid out above).
 - It is submitted by the same address who made the submission (no justification required).
- An entry shall not be removed for the following reasons:
 - Accidental submission with valid content. The new submission must provide evidence that demonstrates beyond a reasonable doubt the new submission is the valid validator owner.