

2024-09-24 Decentraland ThirdPartyRegistry V3 report

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Author:

[Facundo Spagnuolo](#)

Commit:

[f443815e0313c1b1e7fe422c403e87ca8275c553](#)

Amendment: TBD

Scope

The `ThirdPartyRegistryV2` contract from Decentraland's wearable contracts repo is being upgraded (see [PR#87](#)) to support anyone submitting a third-party NFT that can be used as a wearable instead of only allowing the third-party aggregator to do so.

The diff consists of 11 deletions and 88 additions and can be found [here](#). The scope of this audit remains strictly to the changes made to the previous `ThirdPartyRegistryV2` contract version.

Findings

High

None

Medium

None

Low

None

Informational

I1. Low number of optimizer runs

The new `ThirdPartyRegistryV3` contract requests the solidity compiler version `0.7.6` (see [L3](#)) as its previous contract version `ThirdPartyRegistryV2`.

Based on the hardhat config file defined in the repository, even though the optimizer is turned on, the `number_of_runs` is only set to `1` for this version which probably wouldn't help much. Consider

increasing the number of runs for the optimizer to a considerable number which may incur in gas savings for your users later on.

I2. Missing inline documentation for `_buyItemSlots`

The new `ThirdPartyRegistryV3` contract introduces a new internal function called `_buyItemSlots`. Compared to the rest of the internal functions in the contract, this one does not declare any inline documentation (see [L437](#)). Consider adding it to stay consistent with the rest of the inline documentation of the codebase.

I3. Typos

The following typos were found in the `ThirdPartyRegistryV3` contract:

- `_newinitialThirdPartyValue` ⇒ `_newInitialThirdPartyValue` ([L259-L263](#))
- `_newinitialItemValue` ⇒ `_newInitialItemValue` ([L268-L272](#))
- `recomended` ⇒ `recommended` ([L411](#))
- `mutilple` ⇒ `multiple` ([L509](#) and [L534](#))