



Argent Factory & ENS update

March 4, 2020

# Argent Factory and ENS update / February 2020

### Files in scope

Following solidity files present in the repository at this commit

https://github.com/argentlabs/argent-contracts/tree/ff1a5097de697c56becc23d766e33ea9dc92241c

```
contracts/
    ens/
    ArgentENSManager.sol
    ArgentENSResolver.sol
    ENSResolver.sol
    ENSReverseRegistrar.sol
    IENSManager.sol
wallet/
    WalletFactory.sol
    BaseWallet.sol
storage/
    GuardianStorage.sol
```

#### **Current status**

As of March 4th 2020 all raised issues have been fixed by the developer.

### **Issues**

### 1. Guardian address should be part of salt for create2 call when deploying new wallets

Type: security / Severity: medium

In WalletFactory.createCounterfactualWalletWithGuardian, \_guardian should be part of the salt, otherwise there's no deterministic relationship between wallet address and management rights.

status - fixed

Issue has been fixed and is no longer present in:  $\frac{https://github.com/argentlabs/argent-contracts/tree/945a01ad3ad0fd8bfa94dff4bfe3f44c765fd64a}{https://github.com/argentlabs/argent-contracts/tree/945a01ad3ad0fd8bfa94dff4bfe3f44c765fd64a}$ 

#### **Notes**

### 2. Redundant code in WalletFactory

Type: code quality / Severity: minor

createCounterfactualWallet seems to be redundant copy of
createCounterfactualWalletWithGuardian, same with createWallet and
createWalletWithGuardian, potential gas savings don't seem worth the doubling of code.

status - fixed

Issue has been fixed in: https://github.com/argentlabs/argent-contracts/tree/945a01ad3ad0fd8bfa94dff4bfe3f44c765fd64a

### 3. Wallet owner has full control over the reverse ENS record of the wallet.

Type: informational

It should be kept in mind that wallet owner can at any time change resolver, owner and ttl of the reverse ENS node.

## 4. It should be kept in mind that wallet owner can at any time change resolver, owner and ttl of the reverse ENS node.

Type: informational

There doesn't seem to be an explicit need right now, when claimWithResolver call is invoked in WalletFactory, to transfer the ownership of the reverse ENS node to the ArgentENSManager, if it is to allow change of resolver for the node in the future, #1 means that it might not be possible in all cases.