EIP 214: New opcode STATICCALL

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Table 1: Data sheet for New opcode STATICCALL

Title	New opcode STATICCALL
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Status	Final
Created	2017-02-13
Description	http://eips.ethereum.org/EIPS/eip-214
Specification	http://eips.ethereum.org/EIPS/eip-214#Specification
Category	Core

Simple Summary

To increase smart contract security, this proposal adds a new opcode that can be used to call another contract (or itself) while disallowing any modifications to the state during the call (and its subcalls, if present).

Abstract

This proposal adds a new opcode that can be used to call another contract (or itself) while disallowing any modifications to the state during the call (and its subcalls, if present). Any opcode that attempts to perform such a modification (see below for details) will result in an exception instead of performing the modification.

Motivation

Currently, there is no restriction about what a called contract can do, as long as the computation can be performed with the amount of gas provided. This poses certain difficulties about smart contract engineers; after a regular call, unless you know the called contract, you cannot make any assumptions about the state of the contracts. Furthermore, because you cannot know the order of transactions before they are confirmed by miners, not even an outside observer can be sure about that in all cases.

This EIP adds a way to call other contracts and restrict what they can do in the simplest way. It can be safely assumed that the state of all accounts is the same before and after a static call.

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