

EIP 165: ERC-165 Standard Interface Detection

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Table 1: Data sheet for Standard Interface Detection

Title	Standard Interface Detection
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Status	Final
Created	2018-01-23
Description	http://eips.ethereum.org/EIPS/eip-165
Specification	http://eips.ethereum.org/EIPS/eip-165#Specification
Category	ERC
Requires	EIP 214

Simple Summary

: Creates a standard method to publish and detect what interfaces a [smart contract](#) implements.

Abstract

Herein, we standardize the following:

- 1. How interfaces are identified*
- 2. How a contract will publish the interfaces it implements*
- 3. How to detect if a contract implements ERC-165*
- 4. How to detect if a contract implements any given interface*

Motivation

For some “standard interfaces” like the [ERC-20](#) token interface, it is sometimes useful to query whether a contract supports the interface and if yes, which version of the interface, in order to adapt the way in which the contract is to be interacted with. Specifically for ERC-20, a version [identifier](#) has already been proposed. This proposal standardizes the concept of interfaces and standardizes the identification (naming) of interfaces.

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