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**Technical  
Report**

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## **ECMA-402 Test Suite**

**Technical  
Report**

DRAFT



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## Introduction

The ECMA-402 test suite is a project of Ecma International's Technical Committee 39 that has the goal to make a test suite widely available that can be used by ECMAScript implementers to improve their adherence to the Ecma-402 specification. The test suite consists of individual tests that have been contributed by Ecma TC39 members. The ECMA-402 test suite is publicly available and is designed to be executable by any modern web browser simply by loading the web page at <http://tests.ecmascript.org/ecma-402>.

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This Ecma Technical Report has not yet been adopted by the General Assembly of December 2012.

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# ECMA-402 Test Suite

## 1 Scope

This Ecma Technical Report describes a test suite and harness developed by TC39 partners to validate how well an implementation of the Standard ECMA-402 Edition 1 adheres to the ECMA-402 set of standards. It is assumed that readers are familiar with general software testing methodologies and the Standard ECMA-402 Edition 1.

## 2 References

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ECMA-402, *ECMAScript Internationalization API Specification*, Edition 1 (December 2012)

ECMA TR/104, *ECMA-262 Test Suite* (December 2011)

## 3 Abbreviations

TC39      Technical Committee 39

## 4 Status

Development of the ECMA-402 test suite is an on-going process. As of August 2012, the test suite consisted of 137 individual test files covering the majority of the pseudo-code algorithms defined in the Standard ECMA-402 Edition 1. Each of these files contains one or more distinct test cases. While test coverage is broad, TC39 does not consider coverage to be complete and as with any software project there exists the possibility of omissions and errors. As TC39 members correct issues or contribute further tests the test suite will be updated.

The latest version of the test suite is available at <http://www.ecma-international.org/publications/files/ECMA-TR/test262-Latest.zip>. Prior snapshots of the test suite will be available at <http://www.ecma-international.org/activities/Languages/test262/archive.htm>. The active development version of the source code may be viewed at <http://hg.ecmascript.org/tests/test262>. Note that the URLs refer to test262 – while the ECMA-402 test suite is a separate set of test cases, it uses the test harness of test262 and is therefore bundled with it.

## 5 Contributions

The tests are composed of contributions from Ecma members Mozilla and Google. Development of the ECMA-402 test suite began in spring 2012. The test suite uses the test harness of test262, the test suite for the ECMAScript Language Specification.

## 6 Relation to ECMA-402 Edition 1

The Standard ECMA-402 Edition 1 specification provides the normative definition of the ECMAScript internationalization API. The ECMA-402 test suite is a non-normative test suite for implementations of Standard ECMA-402 Edition 1. Any differences between the requirements of ECMA-402 Edition 1 and those tested by the ECMA-402 test suite must be resolved in favour of the ECMA-402 Edition 1 specification.

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