

## [MS-TOUCH]:

# Microsoft Edge Touch Events Standards Support Document

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## Revision Summary

| Date      | Revision History | Revision Class | Comments   |
|-----------|------------------|----------------|--|
| 7/7/2015  | 1.0              | New            | Released new document.   |
| 11/2/2015 | 1.1              | Minor          | Clarified the meaning of the technical content.                              |
| 3/22/2016 | 1.2              | Minor          | Clarified the meaning of the technical content.                              |
| 11/2/2016 | 1.2              | None           | No changes to the meaning, language, or formatting of the technical content. |
| 3/14/2017 | 1.2              | None           | No changes to the meaning, language, or formatting of the technical content. |
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| 8/28/2018 | 1.2              | None           | No changes to the meaning, language, or formatting of the technical content. |

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# 1 Introduction

This document describes the level of support provided by Microsoft web browsers for the W3C *Touch Events* specification [W3C-TOUCH], published 10 October 2013. The [W3C-TOUCH] specification defines a set of low-level events that represent one or more points of contact with a touch-sensitive surface, and changes of those points with respect to the surface and any DOM elements displayed upon it or associated with it.

## 1.1 Glossary

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## 1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[W3C-TOUCH] World Wide Web Consortium, "Touch Events", W3C Recommendation 10 October 2013, <http://www.w3.org/TR/2013/REC-touch-events-20131010/>

### 1.2.2 Informative References

None.

## 1.3 Microsoft Implementations

The following Microsoft web browser versions implement some portion of the [W3C-TOUCH] specification:

- Microsoft Edge

Each browser version may implement multiple document rendering modes. The modes vary from one to another in support of the standard. The following table lists the document modes supported by each browser version.

| Browser Version | Document Modes Supported |
|-----------------|--------------------------|
| Microsoft Edge  | EdgeHTML Mode            |

For each variation presented in this document there is a list of the document modes and browser versions that exhibit the behavior described by the variation. All combinations of modes and versions that are not listed conform to the specification. For example, the following list for a variation indicates that the variation exists in EdgeHTML Mode in all browser versions that support that mode:

## 1.4 Standards Support Requirements

To conform to [\[W3C-TOUCH\]](#), a user agent must implement all required portions of the specification. Any optional portions that have been implemented must also be implemented as described by the specification. Normative language is usually used to define both required and optional portions. (For more information, see [\[RFC2119\]](#).)

The following table lists the sections of [W3C-TOUCH] and whether they are considered normative or informative.

| Sections | Normative/Informative |
|----------|-----------------------|
| 1,2      | Informative           |
| 3-7      | Normative             |
| 8,9      | Informative           |

## 1.5 Notation

The following notations are used in this document to differentiate between notes of clarification, variation from the specification, and points of extensibility.

| Notation | Explanation   |
|----------|---|
| C####    | This identifies a clarification of ambiguity in the target specification. This includes imprecise statements, omitted information, discrepancies, and errata. This does not include data formatting clarifications. |
| V####    | This identifies an intended point of variability in the target specification such as the use of MAY, SHOULD, or RECOMMENDED. (See <a href="#">[RFC2119]</a> .) This does not include extensibility points.          |
| E####    | Because the use of extensibility points (such as optional implementation-specific data) can impair interoperability, this profile identifies such points in the target specification.                               |

For document mode and browser version notation, see also section [1.3](#).

## 2 Standards Support Statements

This section contains all variations and clarifications for the Microsoft implementation of [\[W3C-TOUCH\]](#).

- Section [2.1](#) describes normative variations from the MUST requirements of the specification.
- Section [2.2](#) describes clarifications of the MAY and SHOULD requirements.
- Section [2.3](#) considers error handling aspects of the implementation.
- Section [2.4](#) considers security aspects of the implementation.

### 2.1 Normative Variations

There are no normative variations from the MUST requirements of [\[W3C-TOUCH\]](#).

### 2.2 Clarifications

The following subsections describe clarifications of the MAY and SHOULD requirements of [\[W3C-TOUCH\]](#).

#### 2.2.1 [W3C-TOUCH] Section 5.8 The touchcancel event

C0001: The touchcancel event is fired for more touches than supported

The specification states:

```
A user agent may also dispatch this event type when the user places more touch points on the touch surface than the device or implementation is configured to store, in which case the earliest Touch object in the TouchList should be removed.
```

#### ***EdgeHTML Mode (All versions)***

The `touchcancel` event is fired when there are more touch points on the touch surface than the device supports.

#### 2.2.2 [W3C-TOUCH] Section 7. Interaction with Mouse Events

C0002: Dispatch of mouse events

The specification states:

```
The user agent may dispatch both touch events and mouse events in response to the same user input.
```

#### ***EdgeHTML Mode (All versions)***

By default, mouse events are dispatched for touch events. However, the user can disable mouse event dispatch with user agent settings.

### **2.3 Error Handling**

There are no additional error handling considerations.

### **2.4 Security**

There are no additional security considerations.

### **3 Change Tracking**

No table of changes is available. The document is either new or has had no changes since its last release.



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