

# [MS-WEBNOT]:

## Microsoft Edge Web Notifications Standards Support Document

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## Revision Summary

Date	Revision History	Revision Class	Comments
7/19/2016	1.0	New	Released new document.
11/2/2016	1.0	None	No changes to the meaning, language, or formatting of the technical content.
3/14/2017	1.0	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 *Web Notifications* specification [W3C-WEBNOT], published 22 October 2015. The [W3C-WEBNOT] specification defines an API for end-user notifications.

## 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-WEBNOT] World Wide Web Consortium, "Web Notifications", <http://www.w3.org/TR/2015/REC-notifications-20151022/>

### 1.2.2 Informative References

None.

## 1.3 Microsoft Implementations

The following Microsoft web browser versions implement some portion of the [W3C-WEBNOT] 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 three document modes in all browser versions that support these modes:

*Quirks Mode, IE7 Mode, and IE8 Mode (All Versions)*

## 1.4 Standards Support Requirements

To conform to [\[W3C-WEBNOT\]](#), 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-WEBNOT] and whether they are considered normative or informative.

Sections	Normative/Informative
1-3	Informative
4, 5	Normative
6	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 [\[W3C-WEBNOT\]](#).

- 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

The following subsections describe normative variations from the MUST requirements of [\[W3C-WEBNOT\]](#).

#### 2.1.1 [W3C-WEBNOT] Section 4.1 Direction

V0001: The "auto" value of the `dir` attribute is not supported

The specification states:

```
2.3. Direction
...
User agents are expected to honor the Unicode semantics of the text of a notification's
title, body, and the title of each of its actions. Each is expected to be treated as an
independent set of one or more bidirectional algorithm paragraphs when displayed, as
defined by the bidirectional algorithm's rules P1, P2, and P3, including, for instance,
supporting the paragraph-breaking behavior of U+000A LINE FEED (LF) characters. For each
paragraph of the title, body and the title of each of the actions, the notification's
direction provides the higher-level override of rules P2 and P3 if it has a value other
than "auto".
```

#### **EdgeHTML Mode**

The "auto" value of the `dir` attribute is not supported.

#### 2.1.2 [W3C-WEBNOT] Section 4.2 Language

V0002: Invalid languages are returned as valid values, not as empty strings

The specification states:

```
4.2 Language

The notification's language specifies the primary language for the notification's title
and body. Its value is a valid BCP 47 language tag, or the empty string. The empty string
indicates that the primary language is unknown.
```

#### **EdgeHTML Mode**

Invalid languages are returned as valid values, not as empty strings.

### 2.1.3 [W3C-WEBNOT] Section 5 API

V0003: The "auto" value of the `dir` attribute is not supported

The specification states:

5 API

A notification is represented by a `Notification` object and can be created by its constructor.

```
[Constructor(DOMString title, optional NotificationOptions options)]  
interface Notification : EventTarget {  
    ...  
    readonly attribute NotificationDirection dir;  
    ...  
};  
...
```

The `dir` attribute must return the notification's direction.

#### **EdgeHTML Mode**

The "auto" value of the `dir` attribute is not supported.

## 2.2 Clarifications

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

### 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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