

[MS-DOM2V]:

Internet Explorer Document Object Model (DOM) Level 2 Views Standards Support Document

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Revision Summary

Date	Revision History	Revision Class	Comments
03/17/2010	0.1	New	Released new document.
03/26/2010	1.0	None	Introduced no new technical or language changes.
05/26/2010	1.2	None	Introduced no new technical or language changes.
09/08/2010	1.3	Major	Significantly changed the technical content.
02/10/2011	2.0	No change	Introduced no new technical or language changes.
02/22/2012	3.0	Major	Significantly changed the technical content.
07/25/2012	3.1	Minor	Clarified the meaning of the technical content.

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1 Introduction

This document describes the level of support provided by Windows® Internet Explorer® for the *Document Object Model (DOM) Level 2 Views Specification Version 1.0* [\[DOM Level 2 - Views\]](#), W3C Recommendation 13 November, 2000. Internet Explorer displays webpages written in HTML.

The [\[DOM Level 2 - Views\]](#) specification may contain guidance for authors of webpages and browser users, in addition to user agents (browser applications). Statements found in this document apply only to normative requirements in the specification targeted to user agents, not those targeted to authors.

1.1 Glossary

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

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[DOM Level 2 - Core] W3C, "Document Object Model (DOM) Level 2 Core Specification Version 1.0", W3C Recommendation 13 November, 2000, <http://www.w3.org/TR/DOM-Level-2-Core/>

[DOM Level 2 - Views] W3C, "Document Object Model (DOM) Level 2 Views Specification Version 1.0", W3C Recommendation 13 November, 2000, <http://www.w3.org/TR/DOM-Level-2-Views/>

[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>

1.2.2 Informative References

None.

1.3 Microsoft Implementations

The following Microsoft products implement some portion of [\[DOM Level 2 - Views\]](#):

- Windows® Internet Explorer® 7
- Windows® Internet Explorer® 8
- Windows® Internet Explorer® 9
- Windows® Internet Explorer® 10

In addition, each version of Windows® Internet Explorer® implements multiple document modes, which can vary individually in their support of the standard. The following table lists the document modes that are available in each version of Internet Explorer.

Browser version	Documents modes supported
Internet Explorer 7	Quirks Mode Standards Mode
Internet Explorer 8	Quirks Mode IE7 Mode IE8 Mode
Internet Explorer 9	Quirks Mode IE7 Mode IE8 Mode IE9 Mode
Internet Explorer 10 (Beta)	Quirks Mode IE7 Mode IE8 Mode IE9 Mode IE10 Mode

Throughout this document, the document mode appears first followed by the browser version in parentheses. Only those document modes and browser versions for which there is a variation note will be listed. If the document mode is not listed, conformance to the specification can be assumed.

Note "Standards Mode" in Internet Explorer 7 and "IE7 Mode" in Internet Explorer 8 refer to the same document mode. IE7 Mode is the preferred way of referring to this document mode across all versions of the browser.

1.4 Standards Support Requirements

To conform to [\[DOM Level 2 - Views\]](#) 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 [\[DOM Level 2 - Views\]](#) and whether they are considered normative or informative.

Sections	Normative/Informative
1	Normative
Appendix A-D	Informative

1.5 Notation

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

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 RFC2119 .) 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 a full list of variations, clarifications, and extension points in the Microsoft implementation of [\[DOM Level 2 - Views\]](#).

- Section [2.1](#) includes only those variations that violate a MUST requirement in the target specification.
- Section [2.2](#) describes further variations from MAY and SHOULD requirements.
- Section [2.3](#) identifies variations in error handling.
- Section [2.4](#) identifies variations that impact security.

2.1 Normative Variations

The following subsections detail the normative variations from MUST requirements in [\[DOM Level 2 - Views\]](#).

2.1.1 [DOM Level 2 - Views] Section 1.1, Introduction

V0002:

The specification states:

In order to fully support this module, an implementation must also support the "Core" feature defined in the Document Object Model Level 2 Core specification [DOM Level 2 - Core]. Please refer to additional information about conformance in the DOM Level 2 Core specification.

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

The "Core" feature is not fully supported. The **hasFeature** method of the **DOMImplementation** interface returns `false` for the "Core" module and the version strings "1.0" and "2.0."

2.1.2 [DOM Level 2 - Views] Section 1.2, Interfaces

V0003:

The specification states:

Interface `AbstractView` (introduced in DOM Level 2)
A base interface that all views shall derive from.

```
IDL Definition
// Introduced in DOM Level 2:
interface AbstractView {
    readonly attribute DocumentView    document;
};
```

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

The **AbstractView** and **DocumentView** interfaces are not supported.

V0004:

The specification states:

```
document of type DocumentView, readonly
The source DocumentView of which this is an AbstractView.
```

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

The **AbstractView** and **DocumentView** interfaces are not supported.

V0005:

The specification states:

```
Interface DocumentView (introduced in DOM Level 2)
The DocumentView interface is implemented by Document objects in DOM
implementations supporting DOM Views. It provides an attribute to retrieve the
default view of a document.
```

```
IDL Definition
// Introduced in DOM Level 2:
interface DocumentView {
    readonly attribute AbstractView    defaultView;
};
```

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

The **DocumentView** interface is not supported.

V0006:

The specification states:

```
defaultView of type AbstractView, readonly
The default AbstractView for this Document, or null if none available.
```

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

The **AbstractView** and **DocumentView** interfaces are not supported.

2.2 Clarifications

The following subsection identifies clarifications to recommendations made by [\[DOM Level 2 - Views\]](#).

2.2.1 [DOM Level 2 - Views] Section 1.1, Introduction

C0001:

The specification states:

```
The interfaces found within this section are not mandatory. A DOM application may
use the hasFeature(feature, version) method of the DOMImplementation interface with
parameter values "Views" and "2.0" (respectively) to determine whether or not this
module is supported by the implementation.
```


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

The **hasFeature** method of the **DOMImplementation** interface returns `false` for the "Views" module and the version strings "1.0" and "2.0."

2.3 Error Handling

There are no additional considerations for error handling.

2.4 Security

There are no additional security considerations.

3 Change Tracking

This section identifies changes that were made to the [MS-DOM2V] protocol document between the February 2012 and July 2012 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
1 Introduction	Updated document to remove beta tagging.	N	Content updated.

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