**[MS-IEDOCO]:**

**Internet Explorer Standards Support Documentation**

**Overview**



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**Revision Summary**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Revision** |  |  | **Revision** |  |  |  |
|  |  |  |  |  |  |  |
| **Date** |  | **History** |  |  | **Class** |  | **Comments** |  |
|  |  |  |  |  |  |  |  |  |
| 02/24/2010 | 0.1 | |  |  | New | | Released new document. |  |
|  |  | |  |  |  | |  |  |
| 03/17/2010 | 0.2 | |  |  | Minor | | Clarified the meaning of the technical content. |  |
|  |  | |  |  |  | |  |  |
| 03/26/2010 | 1.0 | |  |  | Minor | | Clarified the meaning of the technical content. |  |
|  |  | |  |  |  | |  |  |
| 05/26/2010 | 1.2 | |  |  | None | | Introduced no new technical or language changes. |  |
|  |  | |  |  |  | |  |  |
| 06/29/2010 | 1.21 | |  |  | Editorial | | Changed language and formatting in the technical |  |
|  |  |  |  |  |  |  | content. |  |
|  |  | |  |  |  | |  |  |
| 09/08/2010 | 1.3 | |  |  | Major | | Significantly changed the technical content. |  |
|  |  | |  |  |  | |  |  |
| 02/10/2011 | 2.0 | |  |  | Minor | | Clarified the meaning of the technical content. |  |
|  |  | |  |  |  | |  |  |
| 12/07/2011 | 2.1 | |  |  | Minor | | Clarified the meaning of the technical content. |  |
|  |  | |  |  |  | |  |  |
| 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 Documentation Scope and Objectives**

This document provides an overview of certain final approved web standards supported by Windows® Internet Explorer®. It is intended for use in conjunction with publicly available specifications and assumes that the reader either is familiar with this material or has immediate access to it.

1. **Audience**

The documentation set provides the following levels of audience support:

**For implementers**—Provides conceptual and reference information for implementation of one ormore specifications.

**For reviewers**—Provides a resource for readers who want to evaluate or understand one ormore specification implemented by Windows® Internet Explorer®.

1. **Glossary**

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used asdescribed in  [[RFC2119](http://go.microsoft.com/fwlink/?LinkId=90317)]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1. **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. **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.co](mailto:dochelp@microsoft.com)m. We will assist you in finding the relevant information. Please check the archive site,  [http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C962](http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624)4, as an additional source.

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[W3C-XSLT] Clark, J., Ed., "XSL Transformations (XSLT) Version 1.0", W3C Recommendation, November 1999,  [http://www.w3.org/TR/1999/REC-xslt-1999111](http://go.microsoft.com/fwlink/?LinkId=113915)6

[XML10] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Third Edition)", February 2004,  [http://www.w3.org/TR/REC-xm](http://go.microsoft.com/fwlink/?LinkId=90600)l

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009,  [http://www.w3.org/TR/2009/REC-xml-names-20091208](http://go.microsoft.com/fwlink/?LinkId=195065)/

1. **Informative References**

[MSDN-DefiningDocCompat] Microsoft Corporation, "Defining Document Compatibility in Windows® Internet Explorer 8",  [http://msdn.microsoft.com/en-us/library/cc288325(VS.85).asp](http://go.microsoft.com/fwlink/?LinkID=183832&clcid=0x409)x

[MSDN-EncodeXMLData] Microsoft Corporation, "How to Encode XML Data", March 2000,  [http://msdn.microsoft.com/en-us/library/aa468560.asp](http://go.microsoft.com/fwlink/?LinkId=186994)x

[MSDN-METATagsLocking] Microsoft Corporation, "META Tags and Locking in Future Compatibility",  [http://msdn.microsoft.com/en-us/library/cc817574.asp](http://go.microsoft.com/fwlink/?LinkID=183835&clcid=0x409)x

[MSDN-responseXML] Microsoft Corporation, "responseXML Property", HTML and DHTML Reference,  [http://msdn.microsoft.com/en-us/library/ms534370(VS.85).asp](http://go.microsoft.com/fwlink/?LinkId=186022)x

[MSDN-SECZONES] Microsoft Corporation, "About URL Security Zones",  [http://msdn.microsoft.com/en-us/library/ms537183.asp](http://go.microsoft.com/fwlink/?LinkId=90660)x

[MSDN-UnderstandingCompViewList] Microsoft Corporation, "Understanding the Compatibility View List",  [http://msdn.microsoft.com/en-us/library/dd567845(VS.85).asp](http://go.microsoft.com/fwlink/?LinkID=183834&clcid=0x409)x

[MSDN-XMLDataIslands] Microsoft Corporation, "XML Data Islands",  [http://msdn.microsoft.com/en](http://go.microsoft.com/fwlink/?LinkId=186023)- [us/library/ms766512(VS.85).asp](http://go.microsoft.com/fwlink/?LinkId=186023)x

1. **Microsoft Implementations**

The implementation of the specifications listed in section  [2.2](#page18) is applicable to the following versions of Windows® Internet Explorer®:

Windows® Internet Explorer® 7

Windows® Internet Explorer® 8

Windows® Internet Explorer® 9

Windows® Internet Explorer® 10

This document covers and is limited to variations and clarifications by these versions of Internet Explorer to the implementation of the listed final approved web standards.



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**2 Documentation Architecture**

This section discusses the scope and organization of the Windows® Internet Explorer® standards support documentation.

1. **Overview and Reference Documents**

Windows® Internet Explorer® relies on certain final approved web standards—including HTML 4.01  [[HTML]](http://go.microsoft.com/fwlink/?LinkId=89880) and CSS 2.1  [[MS-CSS21]](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-CSS21%5d.pdf) —for some of its behavior. This documentation details the variations or extensions from the standards listed in the  [Standards Summary](#page18) as implemented by Internet Explorer.

1. **Versions of Standards**

It is common for web standards to evolve over time, and multiple versions of the same standard may exist. This documentation covers the version of each standard that was targeted by the Windows® Internet Explorer® implementation. For example, HTML 4.01 is documented, but HTML 3.2, which is superseded by the 4.01 version, is not.

1. **Document Modes**

Each major release of Windows® Internet Explorer® adds new features. As Internet Explorer adds features, there is a risk that websites that are designed for older versions of the browser might not display as they are intended. To minimize this risk, Internet Explorer includes document compatibility, which enables a web developer to specify which Internet Explorer versions that a website is designed to support. Internet Explorer uses the "document modes," such as IE7 mode and IE8 mode, to interpret and render the website. For example, "quirks mode" displays webpages as if users view them with older versions of the browser. For more information, see "Defining Document Compatibility" at  [[MSDN-DefiningDocCompat]](http://go.microsoft.com/fwlink/?LinkID=183832&clcid=0x409).

Windows® Internet Explorer® 7 and Windows® Internet Explorer® 8 features increased support for industry standards, and Windows® Internet Explorer® 9 features contain the highest level of support.

The following table shows the document modes that each version of Internet Explorer supports.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Browser version** |  | **Supported document modes** |  |
|  |  |  |  |  |
|  | 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 |  | Quirks mode |  |
|  |  |  | IE7 mode |  |
|  |  |  | IE8 mode |  |
|  |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Browser version** |  |  | **Supported document modes** |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  | IE9 mode |  |  |  |
|  |  |  |  | IE10 mode |  |  |  |
|  |  |  |  |  |  |  |  |

The standards mode of Internet Explorer 7 implements standards that have the same variations and extensions as IE7 mode in Internet Explorer 8 unless it is otherwise indicated in the individual specifications of the standards that the browser supports, as listed in section  [2.2](#page18).

The standards mode of Internet Explorer 8 implements standards that have the same variations and extensions as IE8 mode in Internet Explorer 9 unless it is otherwise indicated in the individual specifications of the standards that the browser supports.

The document mode name sometimes includes "standards", such as IE8 standards mode, to differentiate the mode from "Almost Standards" mode. For brevity, the extra word is not included in this documentation.

**Note** Almost Standards mode in Internet Explorer 8 and Internet Explorer 9 enables the browserto properly render sliced-images-in-tables layouts. Rendering in Almost Standards mode matches standards mode except for the layout of images inside table cells. This type of table layout is handled the same way that quirks mode handles it. For more information, see  [[MS-CSS21](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-CSS21%5d.pdf)], section 6, Appendix D: Almost Standards Mode.

Inline elements contribute to line height only under conditions described in [MS-CSS21], section 6.2. Otherwise, rendering is handled the same as in standards mode.

1. **How Internet Explorer Chooses Between Document Modes**

By default, Windows® Internet Explorer® 8 uses IE8 mode, Windows® Internet Explorer® 9 uses IE9 mode and Windows® Internet Explorer® 10 uses IE10 mode. However, Windows® Internet Explorer® uses several criteria to determine which document mode to use. For example, if an HTML page contains a valid <!DOCTYPE> declaration (see  [[HTML](http://go.microsoft.com/fwlink/?LinkId=89880)]), Internet Explorer uses one of the standards-based document modes. But, if there is no valid <!DOCTYPE> declaration, Internet Explorer uses quirks mode.

The following rules determine how Internet Explorer selects the document mode:

1. The **Developer Tools** setting overrides any document mode specified by a webpage. The setting remains active for the lifetime of the tab.
2. In Internet Explorer 9, if the document is hosted in an **iframe** element, the document mode is determined by the document mode of the top-level webpage. Subdocuments cannot be rendered in IE9 mode unless the top-level document is also in IE9 mode.
3. A **meta** tag with a value of X-UA-Compatible or a HTTP response header can override items in the **Compatibility View Settings** list and the doctype unless the **X-UA-Compatible** value is a Compatibility View setting, such as IE=EmulateIE7 or IE=EmulateIE8.
4. The Compatibility View settings can force a webpage to be displayed in a less-standard document mode.
5. If none of these rules apply, the <!DOCTYPE> declaration determines whether the webpage renders in a standards mode, Almost Standards mode, or quirks mode.

The following sections explain how these rules affect how Internet Explorer selects between document modes.



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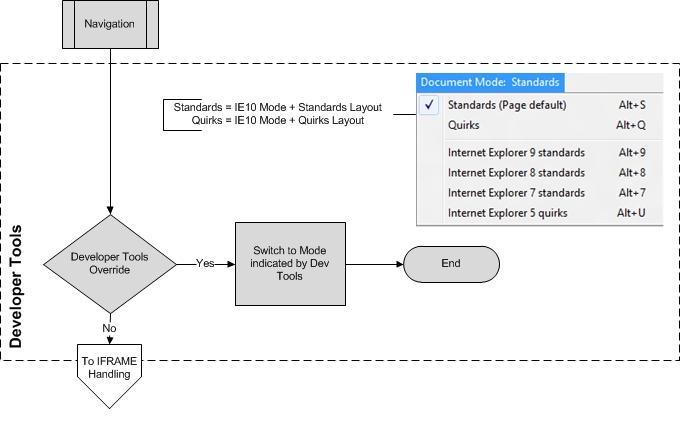
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1. **Developer Tools**

A user can select the browser mode and document mode by using the Developer Tools (F12) in Windows® Internet Explorer®. These settings remain active for subsquent navigations in the same tab. The following diagram shows how Developer Tools settings impact the browser mode and document mode. This diagram also includes a screen shot of the **Document Mode** menu in the

**Developer Tools** window.



1. **iframe Handling**

Windows® Internet Explorer® 9 restricts the document mode of webpages that are hosted within **iframe** elements. If the top-level page is not in IE9 mode, the **iframe** element cannot render itscontents in IE9 mode, even if the web developer specifies it.

This behavior is available only in Internet Explorer 9. The following diagram shows how **iframe** elements impact the document mode.

ie10 uses IE10 Quirks Mode emulation if the top-level page is not in IE10 Mode. IE10 Quirks Mode is based on the definition of Quirks Mode from the HTML5 standard.



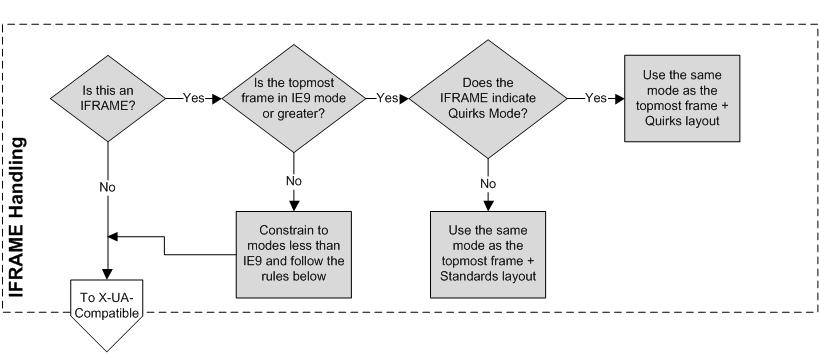
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1. **X-UA-Compatibility Meta Tag and HTTP Response Header**

Web developers can also specify a document mode by including instructions in a **meta** element or HTTP response header:

Webpages that include a **meta** element (see  [[HTML](http://go.microsoft.com/fwlink/?LinkId=89880)]) with an http-equivalent value of X-UA-Compatible.

Webpages that are served with an HTTP header named "X-UA-Compatible".

If both of these instructions are sent, the developer's preference (**meta** element) takes precedence over the web server setting (HTTP header).

For more information about how to control default rendering with document modes, see "META Tags and Locking in Future Compatibility" at  [[MSDN-METATagsLocking]](http://go.microsoft.com/fwlink/?LinkID=183835&clcid=0x409).

The following table indicates which document mode that Windows® Internet Explorer® 9 uses based on the X-UA-Compatible value.

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **X-UA-Compatible value** | **Document modes** |  |
|  |  |  |
| IE=5 | Quirks mode |  |
|  |  |  |
| IE=7 | IE7 mode |  |
|  |  |  |
| IE=8 | IE8 mode |  |
|  |  |  |
| IE=9 | IE9 mode |  |
|  |  |  |
| IE=10 | IE10 mode |  |
|  |  |  |
| IE=edge | The highest supported document mode of the browser |  |
|  |  |  |
| IE=EmulateIE7 | IE7 mode (if a valid <!DOCTYPE> declaration is present) |  |
|  | Quirks mode (otherwise) |  |
|  |  |  |
| IE=EmulateIE8 | IE8 mode (if a valid <!DOCTYPE> declaration is present) |  |
|  | Quirks mode (otherwise) |  |
|  |  |  |
| IE=EmulateIE9 | IE9 mode (if a valid <!DOCTYPE> declaration is present) |  |
|  |  |  |



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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **X-UA-Compatible value** |  |  | **Document modes** |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  | Quirks mode (otherwise) |  |  |  |
|  | |  |  |  |  |  |  |
| IE=EmulateIE10 | |  |  | IE10 mode (if a valid <!DOCTYPE> declaration is present) |  |  |  |
|  |  |  |  | Quirks mode (otherwise) |  |  |  |
|  |  |  |  |  |  |  |  |

For example, in Windows® Internet Explorer® 8, IE=9, IE=Edge, and IE=EmulateIE9 result in IE8 mode.

Browser emulation modes are not document modes. They instruct Windows® Internet Explorer® about how to select a document mode when a valid <!DOCTYPE> declaration is included.

The following diagram shows how Internet Explorer determines the appropriate document mode based on the **meta** element or HTTP header.



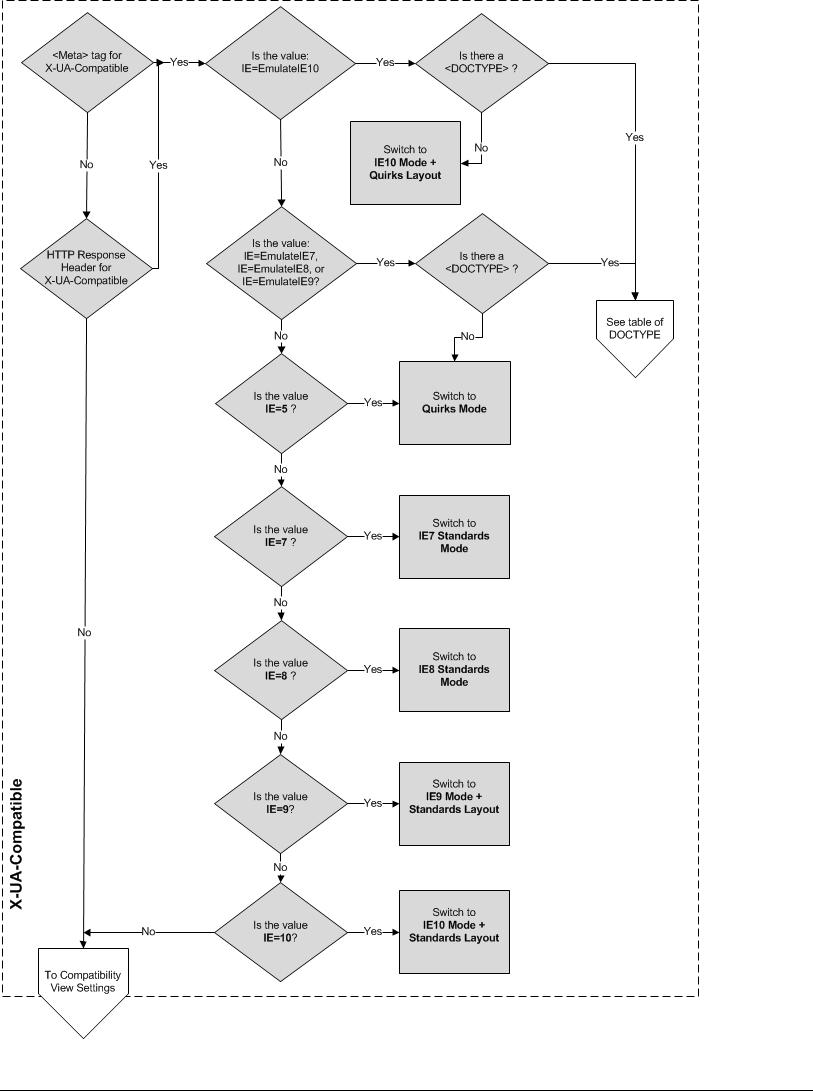
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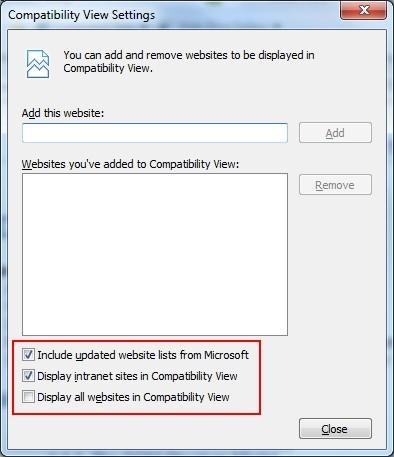
1. **Compatibility View**

Compatibility View settings can also impact the document mode selection:

If a webpage is retrieved from a website in the Local intranet zone (see "About URL Security Zones" at  [[MSDN-SECZONES](http://go.microsoft.com/fwlink/?LinkId=90660)]), IE7 mode is used.

If the webpage is retrieved from a site in a domain on the Compatibility View list (and the list is active), IE7 mode is used (see "Understanding the Compatibility View List" at  [[MSDN](http://go.microsoft.com/fwlink/?LinkID=183834&clcid=0x409)- [UnderstandingCompViewList](http://go.microsoft.com/fwlink/?LinkID=183834&clcid=0x409)]).

Compatibility View is controlled by browser settings. When a user clicks the **Compatibility View** button next to the **Address** bar in Windows® Internet Explorer®, the website is added to a local list of exceptions called the "Compatibility View list." The user can manage the list in the **Compatibility** **View Settings** dialog box.



In addition to the user's local Compatibility View list, Microsoft regularly publishes a list of popular sites that render better in Compatibility View. The user can choose to use this list by selecting the

**Include updated website lists from Microsoft** check box in the **Compatibility View Settings** dialog box.



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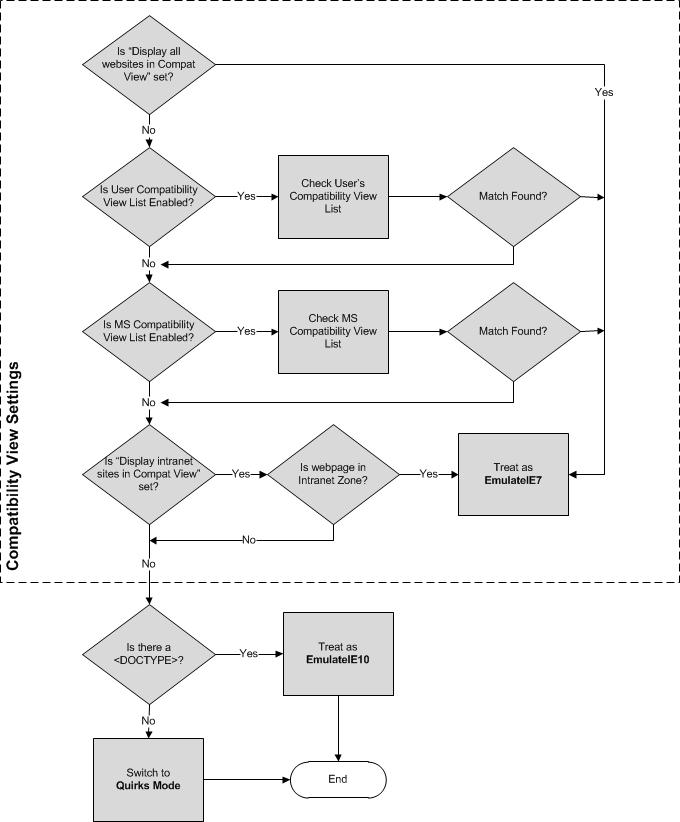
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Finally, the user can choose to view all websites or intranet sites in Compatibility View by selecting the **Display intranet sites in Compatibility View** or **Display all websites in Compatibility** **View** check boxes in the **Compatibility View Settings** dialog box.

The following diagram shows how Internet Explorer determines the appropriate document mode based on Compatibility View settings.



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1. **<!DOCTYPE> Declaration**

The following table lists examples of the most common <!DOCTYPE> declarations and how they influence which document mode is used.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Document Mode** |  |
|  |  |
| **<!DOCTYPE> declaration** |  | **Impact** |  |
|  |  |  |  |
| **HTML 4.0 and higher** |  | Standards mode |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0//EN" |  |  |  |
| "http://www.w3org/TR/html4/strict.dtd"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" |  |  |  |
| "http://www.w3org/TR/html4/strict.dtd"> |  |  |  |
| **XHTML with or without a system identifier** |  |  |  |
| <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" |  |  |  |
| "http://www.w3org/TR/xhtml11/DTD/xhtml11.dtd"> |  |  |  |
| <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML Basic 1.0//EN" |  |  |  |
| "http://www.w3org/TR/xhtml-basic/xhtml-basic10.dtd"> |  |  |  |
| <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" |  |  |  |
| "http://www.w3org/TR/xhtml1/DTD/xhtml1-strict.dtd"> |  |  |  |
| **Unknown** |  |  |  |
| <!DOCTYPE html> |  |  |  |
|  |  |  |  |
| **XHTML Transitional or Frameset** |  | "Almost Standards" |  |
| <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"> |  | mode (standards mode |  |
|  | in IE7) |  |
| <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Frameset//EN"> |  |  |
|  |  |  |
| <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" |  |  |  |
| "http://www.w3.org/TR/xhtml1/DTD/xhmlt1-transitional.dtd"> |  |  |  |
| **HTML 4.0 or HTML 4.01 Transitional or Frameset with a system** |  |  |  |
| **identifier** |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN" |  |  |  |
| "http://www.w3org/TR/html4/loose.dtd"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" |  |  |  |
| "http://www.w3org/TR/html4/loose.dtd"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN" |  |  |  |
| "http://www.w3org/TR/1999/REC-html401-19991224/loose.dtd"> |  |  |  |
|  |  |  |  |
| **HTML 4 and lower, or no DOCTYPE** |  | Quirks mode |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"> |  |  |  |
| <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"> |  |  |  |
| None |  |  |  |
|  |  |  |  |

1. **X-UA-Compatible Processing Instruction**

ie10 uses the "x-ua-compatible" processing instruction to switch the document mode of XML and XHTML documents.

<?x-ua-compatible content="IE=10"?>



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This processing instruction (PI), in combination with other IE document mode settings, produces the following behavior for XML:

The x-ua-compatible PI can affect document mode just like the meta tag in HTML

1. The X-UA-Compatible HTTP header can affect the document mode just like in HTML
2. The minimum selectable document mode for XML is 9 (this differs from HTML)

Note that if the Browser Mode (set via CV List, CV Button, Dev Tools, Intranet, etc.) is less than IE9, then the legacy MSXML Mime Viewer will be used for "text/xml" documents regardless of any other versioning information.

1. Quirks emulation mode (QME) is not supported in XML documents.
2. The x-ua-compatible PI can only be preceded by the XML Declaration and/or whitespace, anything else causes it to be ignored.
3. The value of the x-ua-compatible PI must in the form of well-formed XML attributes, else it will be ignored.
4. Only the "content" attribute from the x-ua-compatible PI will be read, but other attributes are allowed.
5. The supported format for the "content" attribute on the x-ua-compatible PI must match the meta tag from HTML.
6. Using the x-ua-compatible PI prior to an XSLT transform sets the "ceiling" mode of the output from XSLT. For example if the PI opts into IE9 mode in IE10 and the transform produces HTML output with the HTML5 DOCTYPE, then that output will render in IE9 mode. Conversely if the output does not contain a DOCTYPE, it will render in Quirks mode.
7. **Microsoft XML Core Services (MSXML)**

Microsoft XML Core Services (MSXML) version 3 provides the XML functionality of Windows® Internet Explorer® in Quirks Mode, IE7 Mode, and IE8 Mode. In IE9 Mode, MSXML6 is used for rendering XSLT  [[W3C-XSLT](http://go.microsoft.com/fwlink/?LinkId=113915)], however Windows® Internet Explorer® 9 natively implements XML  [[XML10](http://go.microsoft.com/fwlink/?LinkId=90600)], XHTML  [[W3C-XHTML1.0](http://go.microsoft.com/fwlink/?LinkId=182742)], XML Namespaces  [[XMLNS](http://go.microsoft.com/fwlink/?LinkId=195065)], and XML Stylesheets  [[W3C-XML](http://go.microsoft.com/fwlink/?LinkId=182748)- [StyleSheets]](http://go.microsoft.com/fwlink/?LinkId=182748).

The MSXML or native parser is loaded whenever Internet Explorer encounters one or more of the following conditions:

A document is served with one of the following Content-Type HTTP headers:

text/xml

application/xml

application/xml+xhtml (Internet Explorer 9)

image/svg+xml

An **XMLHttpRequest** object provides access to an XML DOM containing the network response in the **responseXML** property (see  [[MSDN-responseXML](http://go.microsoft.com/fwlink/?LinkId=186022)]).

An XML data island is accessed with the **XMLDocument** property (see  [[MSDN-XMLDataIslands](http://go.microsoft.com/fwlink/?LinkId=186023)]). Data islands are not supported IE10 Mode in Windows® Internet Explorer® 10.



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The Internet Explorer Standards Support Documentation also includes documents that describe MSXML and Internet Explorer 9 conformance to DOM and XML standards.

1. **Character Set Standards**

Character sets in the HTML 4.01 standard  [[HTML]](http://go.microsoft.com/fwlink/?LinkId=89880) are referenced in ISO/IEC 10646-2003,

*Information technology -- Universal Multiple-Octet Coded Character Set (UCS)* (see[[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ISO10646%5d.pdf)- [ISO10646](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ISO10646%5d.pdf)]). All versions of Windows® Internet Explorer® support ISO/IEC 8859-1 and others,

*Information Technology -- 8-bit Single-byte Coded Graphic Character Sets* (see[[MS-ISO8859](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ISO8859%5d.pdf)]). Ingeneral, string handling is performed as UTF-16.

Character set values are supplied to HTML using either the Content-Type header or the META element. The following example specifies the character set for the Latin alphabet set number 1:

<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=ISO-8859-1">

The following example does the same with an XML processing instruction:

<?xml version="1.0" charset="iso-8859-1"?>

For more information, see  [[MSDN-EncodeXMLData]](http://go.microsoft.com/fwlink/?LinkId=186994).

1. **Standards Summary**

The tables below provide a list of certain final-approved Internet standards implemented by Windows® Internet Explorer®.

Standards in this table enable functionality in HTML documents.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Standard Name** |  |  | **Description** |  |  | **Link** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | Cascading Style | | |  | CSS is a style sheet language that allows authors and users to |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-CSS21%5d.pdf)- | |  |  |
|  | Sheets (CSS) 1.0 and | | |  | attach style (such as fonts and spacing) to structured documents |  |  | CSS21] | |  |  |
|  | 2.1 | |  |  | (such as HTML documents and XML applications). |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  | This document describes extensions to CSS 2.1 and DOM Level 2 |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-CSS21E%5d.pdf)- | |  |  |
|  |  |  |  |  | Style support in Internet Explorer. |  |  | CSS21E] | |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | CSS3 Color Module | | |  | CSS (Cascading Style Sheets) is a language for describing the |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-CSS3COLR%5d.pdf)- | |  |  |
|  | Level 3 | | |  | rendering of HTML and XML documents on screen, on paper, in |  |  | CSS3COLR] | |  |  |
|  |  |  |  |  | speech, etc. It uses color-related properties and values to color |  |  |  |  |  |  |
|  |  |  |  |  | the text, backgrounds, borders, and other parts of elements in a |  |  |  |  |  |  |
|  |  |  |  |  | document. This specification describes color values and |  |  |  |  |  |  |
|  |  |  |  |  | properties for foreground color and group opacity. These include |  |  |  |  |  |  |
|  |  |  |  |  | properties and values from CSS level 2 and new values. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | CSS Namespaces | | |  | This CSS Namespaces module defines the syntax for using |  |  | [MS- | |  |  |
|  | Module | | |  | namespaces in CSS. It defines the @namespace rule for |  |  | CSS3NS] | |  |  |
|  |  |  |  |  | declaring the default namespace and binding namespaces to |  |  |  |  |  |  |
|  |  |  |  |  | namespace prefixes, and it also defines a syntax that other |  |  |  |  |  |  |
|  |  |  |  |  | specifications can adopt for using those prefixes in namespace- |  |  |  |  |  |  |
|  |  |  |  |  | qualified names |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Selectors Level 3 | | |  | Selectors are patterns that match against elements in a tree, and |  |  | [MS- | |  |  |
|  |  |  |  |  | as such form one of several technologies that can be used to |  |  | CSS3SEL] | |  |  |
|  |  |  |  |  | select nodes in an XML document. Selectors have been optimized |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
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|  | *Release: July 25, 2012* | | | |  |  |  |  |  |  |  |

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|  |  | **Standard Name** |  |  | **Description** |  |  | **Link** |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | for use with HTML and XML, and are designed to be usable in |  |  |  |  |  |  |
|  |  |  |  |  | performance-critical code. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | DOM Level 1 provides a platform- and language-neutral interface |  |  | [[MS-DOM1](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM1%5d.pdf)] | |  |  |
|  | Model (DOM) Level 1 | | |  | that allows programs and scripts to dynamically access and |  |  |  |  |  |  |
|  |  |  |  |  | update the content, structure and style of documents. The |  |  |  |  |  |  |
|  |  |  |  |  | Document Object Model provides a standard set of objects for |  |  |  |  |  |  |
|  |  |  |  |  | representing HTML and XML documents, a standard model of |  |  |  |  |  |  |
|  |  |  |  |  | how these objects can be combined, and a standard interface for |  |  |  |  |  |  |
|  |  |  |  |  | accessing and manipulating them. |  |  |  |  |  |  |
|  |  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | The DOM Level 2 Core is made of a set of core interfaces to |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2C%5d.pdf)- | |  |  |
|  | Model (DOM) Level 2 | | |  | create and manipulate the structure and contents of a document. |  |  | DOM2C] | |  |  |
|  | Core | | |  | The Core also contains specialized interfaces dedicated to XML. |  |  |  |  |  |  |
|  |  |  |  |  | The DOM Level 2 Core builds on the DOM Level 1 Core. |  |  |  |  |  |  |
|  |  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  | This document describes extensions to DOM Level 2 Core and |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2CE%5d.pdf)- | |  |  |
|  |  |  |  |  | HTML 4.01 support in Internet Explorer. |  |  | DOM2CE] | |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | DOM Level 2 Events is a platform- and language-neutral |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2E%5d.pdf)- | |  |  |
|  | Model (DOM) Level 2 | | |  | interface that gives to programs and scripts a generic event |  |  | DOM2E] | |  |  |
|  | Events | | |  | system. The DOM Level 2 Events builds on the DOM Level 2 Core |  |  |  |  |  |  |
|  |  |  |  |  | and on DOM Level 2 Views. |  |  |  |  |  |  |
|  |  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  | This document describes extensions for DOM Level 2 Events |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2EE%5d.pdf)- | |  |  |
|  |  |  |  |  | support in Internet Explorer. |  |  | DOM2EE] | |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | DOM Level 2 HTML is a platform- and language-neutral interface |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2H%5d.pdf)- | |  |  |
|  | Model (DOM) Level 2 | | |  | that allows programs and scripts to dynamically access and |  |  | DOM2H] | |  |  |
|  | HTML | | |  | update the content and structure of HTML and XHTML |  |  |  |  |  |  |
|  |  |  |  |  | documents. The DOM Level 2 HTML builds on the DOM Level 2 |  |  |  |  |  |  |
|  |  |  |  |  | Core and is not backward compatible with DOM Level 1. |  |  |  |  |  |  |
|  |  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | DOM Level 2 Style is a platform- and language-neutral interface |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2S%5d.pdf)- | |  |  |
|  | Model (DOM) Level 2 | | |  | that allows programs and scripts to dynamically access and |  |  | DOM2S] | |  |  |
|  | Style | | |  | update the content of style sheets documents. The DOM Level 2 |  |  |  |  |  |  |
|  |  |  |  |  | Style builds on the DOM Level 2 Core and on the DOM Level 2 |  |  |  |  |  |  |
|  |  |  |  |  | Views. |  |  |  |  |  |  |
|  |  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | DOM Level 2 Views is a platform- and language-neutral interface |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2V%5d.pdf)- | |  |  |
|  | Model (DOM) Level 2 | | |  | that allows programs and scripts to dynamically access and |  |  | DOM2V] | |  |  |
|  | Views | | |  | update the content of a representation of a document. The DOM |  |  |  |  |  |  |
|  |  |  |  |  | Level 2 Views builds on the DOM Level 2 Core. |  |  |  |  |  |  |
|  |  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Element Traversal | | |  | New for Windows® Internet Explorer® 9. This specification |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2TR%5d.pdf)- | |  |  |
|  | Specification | | |  | defines the ElementTraversal interface, which allows script |  |  | DOM2TR] | |  |  |
|  |  |  |  |  | navigation of the elements of a DOM tree, excluding all other |  |  |  |  |  |  |
|  |  |  |  |  | nodes in the DOM, such as text nodes. |  |  |  |  |  |  |
|  |  | | |  |  |  |  |  | |  |  |
|  | Document Object | | |  | DOM Level 3 Core is a platform- and language-neutral interface |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM3C%5d.pdf)- | |  |  |
|  | Model (DOM) Level 3 | | |  | that allows programs and scripts to dynamically access and |  |  | DOM3C] | |  |  |
|  |  |  |  |  | update the content, structure and style of documents. The DOM |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
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|  | *Release: July 25, 2012* | | | |  |  |  |  |  |  |  |

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|  | **Standard Name** |  |  | **Description** |  |  | **Link** |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |
| Core | |  |  | Level 3 Core builds on the DOM Level 2 Core. |  |  |  |  |  |  |
|  |  |  |  | This document applies to HTML documents in Internet Explorer. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| Element Traversal | |  |  | The Element Traversal Specification describes navigation of the |  |  |  |  |  |  |
| Specification | |  |  | elements in a DOM tree, excluding all other nodes, such as text |  |  |  |  |  |  |
|  |  |  |  | nodes, and provides an attribute to expose the number of child |  |  |  |  |  |  |
|  |  |  |  | elements of an element. |  |  |  |  |  |  |
|  |  |  |  | Note: Internet Explorer 9 and Windows® Internet Explorer® 10 |  |  |  |  |  |  |
|  |  |  |  | support the Element Traversal specification with no variations or |  |  |  |  |  |  |
|  |  |  |  | extensions. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| HTML 4.01 | |  |  | HyperText Markup Language (HTML) is the publishing language |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-HTML401%5d.pdf)- |  |  |  |
|  |  |  |  | of the World Wide Web. It defines how to describe structured |  |  | HTML401] |  |  |  |
|  |  |  |  | documents with headings, text, tables, lists, photos, hypertext |  |  |  |  |  |  |
|  |  |  |  | links, and forms. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | This document describes extensions to HTML 4.01 and DOM |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-HTML401E%5d.pdf)- |  |  |  |
|  |  |  |  | Level 2 HTML support in Internet Explorer. |  |  | HTML401E] |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| Platform for Privacy | |  |  | The Platform for Privacy Preferences (P3P) enables Web sites to |  |  | [[MS-P3P](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-P3P%5d.pdf)] |  |  |  |
| Preferences 1.0 | |  |  | express their privacy practices in a standard format that can be |  |  |  |  |  |  |
| (P3P1.0) | |  |  | retrieved automatically and interpreted easily by user agents. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| PICS Label | |  |  | The PICS specifications enable labels (metadata) to be |  |  | [[MS-PICSL](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-PICSL%5d.pdf)] |  |  |  |
| Distribution Label | |  |  | associated with Internet content. It was originally designed to |  |  |  |  |  |  |
| Syntax and | |  |  | help parents and teachers control what children access on the |  |  |  |  |  |  |
| Communication | |  |  | Internet, but they also facilitate other uses for labels, including |  |  |  |  |  |  |
| Protocols | |  |  | code signing and privacy. |  |  |  |  |  |  |
|  |  |  |  | The PICS Label specification defines a general format for labels |  |  |  |  |  |  |
|  |  |  |  | and methods by which these labels may be transmitted. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| PICSRules 1.1 | |  |  | The PICSRules specification defines a language for writing |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-PICSRL%5d.pdf)- |  |  |  |
|  |  |  |  | profiles, which are filtering rules that allow or block access to |  |  | PICSRL] |  |  |  |
|  |  |  |  | URLs based on PICS labels that describe those URLs. This |  |  |  |  |  |  |
|  |  |  |  | language is intended as a transmission format; Internet Explorer |  |  |  |  |  |  |
|  |  |  |  | reads specifications in this language. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| PICS Rating Services | |  |  | The PICS Rating Services specification defines a language for |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-PICSRS%5d.pdf)- |  |  |  |
| and Systems Version | |  |  | describing rating services. Internet Explorer reads service |  |  | PICSRS] |  |  |  |
| 1.1 | |  |  | descriptions written in this language in order to interpret content |  |  |  |  |  |  |
|  |  |  |  | labels. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| Ruby Annotation | |  |  | "Ruby" are short runs of text alongside the base text, typically |  |  | [[MS-RUBY](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-RUBY%5d.pdf)] |  |  |  |
|  |  |  |  | used in East Asian documents to indicate pronunciation or to |  |  |  |  |  |  |
|  |  |  |  | provide a short annotation. |  |  |  |  |  |  |
|  |  |  |  | Internet Explorer implements Ruby in HTML documents. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| Scalable Vector | |  |  | New for Internet Explorer 9. SVG is a modularized language for |  |  | [[MS-SVG](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-SVG%5d.pdf)] |  |  |  |
| Graphics 1.1 (First | |  |  | describing two-dimensional vector and mixed vector/raster |  |  |  |  |  |  |
| Edition) | |  |  | graphics in XML. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| Timed Text Markup | |  |  | New for Internet Explorer 10. The Timed Text Markup Language |  |  | [[MS-TTML](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-TTML%5d.pdf)] |  |  |  |
| Language (TTML) 1.0 | |  |  | is a content type that represents timed text media for the |  |  |  |  |  |  |
|  |  |  |  | purpose of interchange among authoring systems. Timed text is |  |  |  |  |  |  |
|  |  |  |  | textual information that is intrinsically or extrinsically associated |  |  |  |  |  |  |
|  |  |  |  | with timing information. |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| XHTML™ 1.0 The | |  |  | XHTML is a family of current and future document types and |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XHTML%5d.pdf)- |  |  |  |
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*Release: July 25, 2012*

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|  | **Standard Name** |  |  | **Description** |  |  | **Link** |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |
| Extensible HyperText | |  |  | modules that reproduce, subset, and extend HTML 4. XHTML |  |  | XHTML] |  |  |  |
| Markup Language | |  |  | family document types are XML based, and ultimately are |  |  |  |  |  |  |
| (Second Edition) | |  |  | designed to work in conjunction with XML-based user agents. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

Standards in this table enable functionality in XML documents.

Internet Explorer provides built-in support for some specifications, where Windows® Internet Explorer® 7 and Windows® Internet Explorer® 8 use MSXML3. Internet Explorer 9 uses MSXML3 to support such specifications in quirks mode, IE7 mode, and IE8 mode. In this table,  [[MS-XMLH]](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XMLH%5d.pdf) and  [[MS-XMLNSH]](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XMLNSH%5d.pdf) describe Internet Explorer 9 built-in support.

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| **Standard Name** |  |  | **Description** |  |  | **Link** |  |  |
|  |  |  |  |  |  |  |  |  |
| Document Object Model |  |  | This document applies to XML documents in Internet Explorer. |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM1X%5d.pdf)- |  |  |
| (DOM) Level 1 |  |  |  |  |  | DOM1X] |  |  |
|  |  |  |  |  |  |  |  |  |
| Document Object Model |  |  | This document applies to XML documents in Internet Explorer. |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2CX%5d.pdf)- |  |  |
| (DOM) Level 2 Core |  |  |  |  |  | DOM2CX] |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | This document describes extensions to DOM Level 2 Core |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-DOM2CEX%5d.pdf)- |  |  |
|  |  |  | support in Microsoft XML. |  |  | DOM2CEX] |  |  |
|  |  |  |  |  |  |  |  |  |
| Extensible Markup |  |  | The Extensible Markup Language (XML) allows generic data to |  |  | [[MS-XML](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XML%5d.pdf)] |  |  |
| Language (XML) 1.0 |  |  | be served, received, and processed on the Web in the way that |  |  | [MS-XMLH] |  |  |
| (Fourth Edition) |  |  | is now similar to HTML. XML was designed for ease of |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | implementation and for interoperability with both SGML and |  |  |  |  |  |
|  |  |  | HTML. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Namespaces in XML 1.1 |  |  | XML namespaces provide a simple method for qualifying |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XMLNS%5d.pdf)- |  |  |
| (Second Edition) |  |  | element and attribute names used in Extensible Markup |  |  | XMLNS] |  |  |
|  |  |  | Language (XML) documents by associating them with |  |  | [MS- |  |  |
|  |  |  | namespaces identified by IRI references. |  |  |  |  |
|  |  |  |  |  | XMLNSH] |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| XML Path Language |  |  | XPath is a language for addressing parts of an XML document. It |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XPATH%5d.pdf)- |  |  |
| (XPath) Version 1.0 |  |  | also provides basic facilities for manipulation of strings, |  |  | XPATH] |  |  |
|  |  |  | numbers and Booleans. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| XML Schema Part 1: |  |  | This specification sets out the structural part of the XML Schema |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XMLSS%5d.pdf)- |  |  |
| Structures (Second |  |  | definition language. |  |  | XMLSS] |  |  |
| Edition) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Associating Style |  |  | This specification describes how a style sheet can be associated |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XMLSTYL%5d.pdf)- |  |  |
| Sheets with XML |  |  | with an XML document by including one or more processing |  |  | XMLSTYL] |  |  |
| Documents |  |  | instructions. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| XML Schema Part 2: |  |  | This specification defines facilities for defining datatypes to be |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XMLSD%5d.pdf)- |  |  |
| Datatypes Second |  |  | used in XML Schemas as well as other XML specifications. The |  |  | XMLSD] |  |  |
| Edition |  |  | datatype language provides a superset of the capabilities found |  |  |  |  |  |
|  |  |  | in XML 1.0 document type definitions (DTDs) for specifying |  |  |  |  |  |
|  |  |  | datatypes. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| XSL Transformations |  |  | XSLT is a language for transforming XML documents into other |  |  | [[MS-XSLT](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-XSLT%5d.pdf)] |  |  |
| (XSLT) Version 1.0 |  |  | XML documents. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Standards in this table enable support of image files (for Internet Explorer 7 and Internet Explorer 8 only.)



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|  |  |  |
| --- | --- | --- |
| **Standard Name** | **Description** | **Link** |

|  |  |  |
| --- | --- | --- |
| Portable Network | PNG is an extensible file format for the lossless, portable, well- | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-PNG%5d.pdf)- |
| Graphics (PNG) | compressed storage of raster images. It is also published as ISO/IEC | PNG] |
|  | 15948:2003. |  |
|  |  |  |
| ISO-10918-1:1994 | Specifies processes for converting source image data to compressed |  |
|  | image data. ISO-10918-1 is used in images commonly referred to as |  |
|  | "JPEG" files. |  |
|  | Note: Internet Explorer supports the ISO 10918-1:1994 specification |  |
|  | with no variations or extensions. |  |

Standards in this table enable support of character sets.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard Name** | **Description** | **Link** |  |
|  |  |  |  |
| Information technology -- | Specifies the representation, transmission, | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ISO10646%5d.pdf)- |  |
| Universal Multiple-Octet Coded | interchange, processing, storage, input and | ISO10646] |  |
| Character Set (UCS) | presentation of the written form of the languages of |  |  |
|  | the world as well as additional symbols. |  |  |
|  |  |  |  |
| Information technology -- 8-bit | Specifies the character-encoding scheme for characters | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ISO8859%5d.pdf)- |  |
| single-byte coded graphic | such as "Latin alphabet no. 1" consisting of 191 | ISO8859] |  |
| character sets -- Parts 1, 8, 9, | characters from the Latin script. |  |  |
| 15 and 16 |  |  |  |
|  |  |  |  |

Standards in this table enable support of the Microsoft JScript Object Model.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Standard Name** |  |  | **Description** |  |  | **Link** |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| ECMA-262: ECMAScript | |  |  | ECMAScript is a scripting language defined in the |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ES3%5d.pdf)- |  |  |  |
| Language Specification 3rd | |  |  | *ECMAScript Language Specification* 3rd Edition used by |  |  | ES3] |  |  |  |
| Edition | |  |  | web pages. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | This document describes extensions to the ECMA 262 |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ES3EX%5d.pdf)- |  |  |  |
|  |  |  |  | support in JScript. |  |  | ES3EX] |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
| ECMA-262: ECMAScript | |  |  | ECMAScript is a scripting language defined in the |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ES5%5d.pdf)- |  |  |  |
| Language Specification 5th | |  |  | *ECMAScript Language Specification* 5th Edition used by |  |  | ES5] |  |  |  |
| Edition | |  |  | web pages. |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | This document describes extensions to the ECMA 262 |  |  | [[MS](file:///C:\Users\albert\Desktop\fronteers\ie-standards-docs\%5bms-iedoco%5d\%5bMS-ES5EX%5d.pdf)- |  |  |  |
|  |  |  |  | support in ECMAScript. |  |  | ES5EX] |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |



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**3 Change Tracking**

This section identifies changes that were made to the [MS-IEDOCO] 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.



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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.

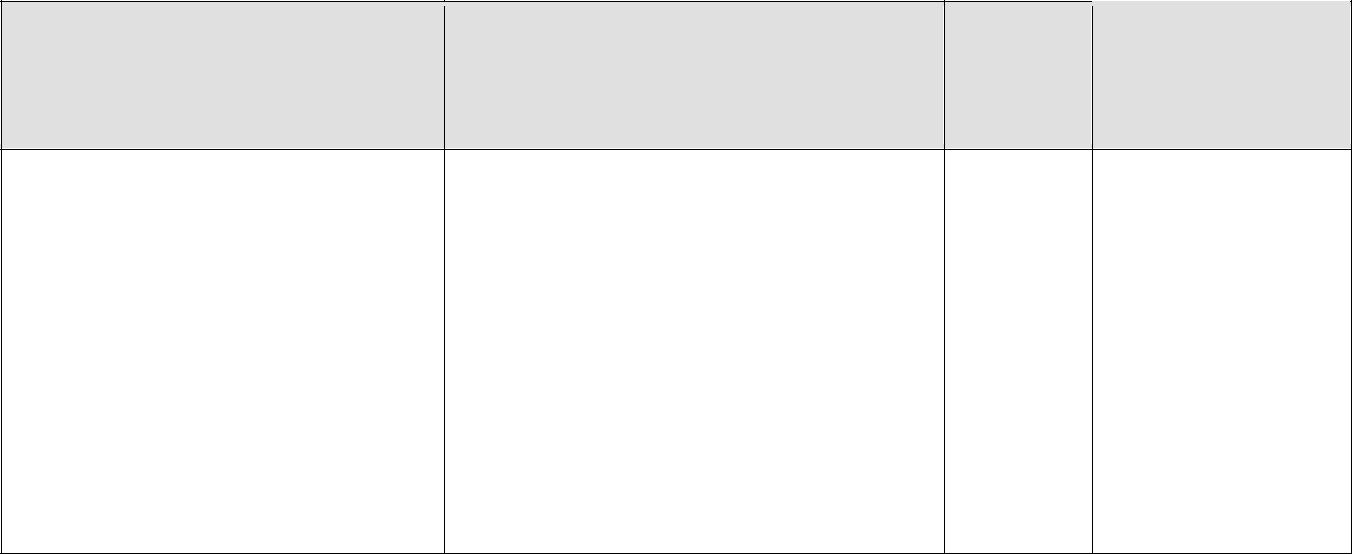
Editorial changes are always classified with the change type **Editorially updated.**

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

**Protocol syntax** refers to data elements (such as packets, structures, enumerations, andmethods) as well as interfaces.

**Protocol revision** refers to changes made to a protocol that affect the bits that are sent overthe wire.

The changes made to this document are listed in the following table. For more information, please contact  [protocol@microsoft.com](mailto:protocol@microsoft.com).



|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Major** |  |
|  |  | **change** |  |
|  | **Tracking number (if applicable)** | **(Y or** |  |
| **Section** | **and description** | **N)** | **Change type** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Updated document to remove beta | N | Content updated. |
| [Documentation Scope an](#page4)d | tagging. |  |  |
| Objectives |  |  |  |
|  |  |  |  |
| 1 | Updated document to remove beta | N | Content updated. |
| [Documentation Scope an](#page4)d | tagging. |  |  |
| Objectives |  |  |  |
|  |  |  |  |
| [2.1.2.](#page16)6 | Simplified table. | N | Content updated. |
| [<!DOCTYPE> Declaratio](#page16)n |  |  |  |
|  |  |  |  |
| [2.](#page18)2 | Added link to [MS-TTML]. | N | New content |
| [Standards Summar](#page18)y |  |  | added. |



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