**[MS-PICSRL]:**

**Internet Explorer PICSRules Standards Support**

**Document**



**Intellectual Property Rights Notice for Open Specifications Documentation**

* **Technical Documentation.** Microsoft publishes Open Specifications documentation forprotocols, file formats, languages, standards as well as overviews of the interaction among each of these technologies.
* **Copyrights.** This documentation is covered by Microsoft copyrights. Regardless of any otherterms that are contained in the terms of use for the Microsoft website that hosts this documentation, you may make copies of it in order to develop implementations of the technologies described in the Open Specifications and may distribute portions of it in your implementations using these technologies or your documentation as necessary to properly document the implementation. You may also distribute in your implementation, with or without modification, any schema, IDL’s, or code samples that are included in the documentation. This permission also applies to any documents that are referenced in the Open Specifications.
* **No Trade Secrets.** Microsoft does not claim any trade secret rights in this documentation.
* **Patents.** Microsoft has patents that may cover your implementations of the technologiesdescribed in the Open Specifications. Neither this notice nor Microsoft's delivery of the documentation grants any licenses under those or any other Microsoft patents. However, a given Open Specification may be covered by Microsoft  [Open Specification Promise](http://go.microsoft.com/fwlink/?LinkId=214445) or the  [Communit](http://go.microsoft.com/fwlink/?LinkId=214448)y  [Promis](http://go.microsoft.com/fwlink/?LinkId=214448)e. If you would prefer a written license, or if the technologies described in the Open Specifications are not covered by the Open Specifications Promise or Community Promise, as applicable, patent licenses are available by contacting  [iplg@microsoft.com](mailto:iplg@microsoft.com).
* **Trademarks.** The names of companies and products contained in this documentation may becovered by trademarks or similar intellectual property rights. This notice does not grant any licenses under those rights.
* **Fictitious Names.** The example companies, organizations, products, domain names, e-mailaddresses, logos, people, places, and events depicted in this documentation are fictitious. No association with any real company, organization, product, domain name, email address, logo, person, place, or event is intended or should be inferred.

**Reservation of Rights.** All other rights are reserved, and this notice does not grant any rightsother than specifically described above, whether by implication, estoppel, or otherwise.

**Tools.** The Open Specifications do not require the use of Microsoft programming tools orprogramming environments in order for you to develop an implementation. If you have access to Microsoft programming tools and environments you are free to take advantage of them. Certain Open Specifications are intended for use in conjunction with publicly available standard specifications and network programming art, and assumes that the reader either is familiar with the aforementioned material or has immediate access to it.



*1 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

**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. | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



*2 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

**Table of Contents**

|  |  |  |  |
| --- | --- | --- | --- |
| [**1 Introduction ............................................................................................................**](#page4)**.** | | | **4** |
| 1.1 | [Glossary ..............................................................................................................](#page4). | | 4 |
| 1.2 | [References ...........................................................................................................](#page4). | | 4 |
| 1.2.1 | | [Normative References ......................................................................................](#page4). | 4 |
| 1.2.2 | | [Informative References ....................................................................................](#page4). | 4 |
| 1.3 | [Microsoft Implementations .....................................................................................](#page4). | | 4 |
| 1.4 | [Standards Support Requirements ...........................................................................](#page5). | | 5 |
| 1.5 | [Notation ..............................................................................................................](#page6). | | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
| **2** | [**Standards Support Statements ................................................................................**](#page7)**.** | | **7** |
|  | 2.1 | [Normative Variations .............................................................................................](#page7). | 7 |
|  | 2.2 | [Clarifications ........................................................................................................](#page7). | 7 |
|  | [2.2.1 [W3C-PICS-Rules] Full syntax ...........................................................................](#page7). | | 7 |
|  | 2.3 | [Error Handling ....................................................................................................](#page12). | 12 |
|  | 2.4 | [Security .............................................................................................................](#page13). | 13 |
| **3** | [**Change Tracking....................................................................................................**](#page14)**.** | | **14** |
| **4** | [**Index ....................................................................................................................**](#page16)**.** | | **16** |



*3 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

**1 Introduction**

This document describes the level of support provided by Windows® Internet Explorer® for the *PICSRules 1.1* [[W3C-PICS-Rules](http://go.microsoft.com/fwlink/?LinkId=182736)],W3C Recommendation 29 December 1997, revised on 24November 2009. Internet Explorer displays webpages written in HTML.

The  [[W3C-PICS-Rules]](http://go.microsoft.com/fwlink/?LinkId=182736) 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. **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.

[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.tx](http://go.microsoft.com/fwlink/?LinkId=90317)t

[W3C-PICS-Rules] Evans, C., Feather, Clive D. W., Hopmann, A., Presler-Marshall, M., and Resnick, P., "PICSRules 1.1", W3C Recommendation 29 Dec 1997 (revised 24-Nov-2009),  [http://www.w3.org/TR/REC-PICSRules](http://go.microsoft.com/fwlink/?LinkId=182736)/

1. **Informative References**

None.

1. **Microsoft Implementations**

The following Microsoft products implement some portion of  [[W3C-PICS-Rules](http://go.microsoft.com/fwlink/?LinkId=182736)]:

Windows® Internet Explorer® 7

Windows® Internet Explorer® 8

Windows® Internet Explorer® 9

Windows® Internet Explorer® 10



*4 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

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 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 | |  |  | 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 versions of Internet Explorer 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 thesame document mode. "IE7 mode" is the preferred way of referring to this document mode across all versions of the browser.

1. **Standards Support Requirements**

To conform to  [[W3C-PICS-Rules]](http://go.microsoft.com/fwlink/?LinkId=182736) 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](http://go.microsoft.com/fwlink/?LinkId=90317)].)

The following table lists the sections of  [[W3C-PICS-Rules]](http://go.microsoft.com/fwlink/?LinkId=182736) and whether they are considered normative or informative.

|  |  |
| --- | --- |
|  |  |
| **Sections** | **Normative/Informative** |
|  |  |
| Abstract | Informative |
| Introduction |  |
| Definitions |  |
| The PICSRules language: examples |  |
| Full syntax |  |
|  |  |
| General Semantics | Normative |
| Control Flow |  |
|  |  |



*5 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Sections** |  |  | **Normative/Informative** |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
| Extension mechanism | |  |  |  |  |  |
|  |  |  |  |  |  |  |

1. **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](http://go.microsoft.com/fwlink/?LinkId=90317)].) 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](#page4).



*6 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

**2 Standards Support Statements**

This section contains a full list of variations, clarifications, and extension points in the Microsoft implementation of  [[W3C-PICS-Rules]](http://go.microsoft.com/fwlink/?LinkId=182736).

Section  [2.1](#page7) includes only those variations that violate a MUST requirement in the target specification.

Section  [2.2](#page7) describes further variations from MAY and SHOULD requirements.

Section  [2.3](#page12) identifies variations in error handling.

Section  [2.4](#page13) identifies variations that impact security.

1. **Normative Variations**

There are no variations from  [[W3C-PICS-Rules]](http://go.microsoft.com/fwlink/?LinkId=182736).

1. **Clarifications**

The following subsections identify clarifications to recommendations made by  [[W3C-PICS-Rules]](http://go.microsoft.com/fwlink/?LinkId=182736).

1. **[W3C-PICS-Rules] Full syntax**

V0001:

The specification states:

Basic structure

PICSRules rules are based on a limited form of an S-expression, namely a parenthesized attribute-value pair. A value is either a quoted string or a parenthesized list of additional attribute-value pairs, thus allowing nesting. When a value for an attribute is a list of further pairs, there is a concept known as a "primary attribute". The name of the primary attribute may be omitted, for the sake of readability, so that only the value of the primary attribute is specified. A parser can syntactically distinguish values from attributes (values begin with either a quote or left parenthesis); any values that are not paired with attribute names automatically belong to the primary attribute. When a value for an attribute is a list of pairs, the list MUST include the primary attribute-value pair (with or without the primary attribute name specified); it MAY contain additional attribute-value pairs. The general grammar for these limited S-expressions is:

attrvalpair:: attribute whitespace value | value

attribute:: alphanumstr

value:: quotedstring |'(' attrvalpair+ ')'

quotedstring:: '"'notdoublequotechar\*'"' | "'"notsinglequotechar\*"'"

alphanumstr:: (alphanum | '.')+

whitespace:: ' ' | '\t' | '\r' | '\n'

alphanum:: '0' - '9' | 'A' - 'Z' | 'a' - 'z'

notdoublequotechar :: any Unicode character except "



*7 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

notsinglequotechar :: any Unicode character except '

*All Document Modes (All Versions)*

Attribute-value pairs that do not have white spaces to separate the attribute and value are supported.

V0002:

The specification states:

The other quoting character may appear within a string. In order to accommodate the use of both single and double quotes inside strings, the following escaping conventions apply:

" may be encoded as %22 ' may be encoded as %27

* may be encoded as %25
* followed by anything other than 22, 27, or 25 is syntactically invalid

Note that, although ", ', and % are encoded using the % hex hex encoding rule used for special characters in URLs, other % hex hex combinations are not valid and are not considered encodings of other characters.

*All Document Modes (All Versions)*

All escape characters (percent sign (%) followed by any character) are valid, including % followed by 22, 27, or 25.

V0003:

The specification states:

Comments

The PICSRules syntax, which will be presented below, has a facility for descriptive text which can be shown to a user, in addition to various statements which influence the behavior of user-agents. However, it is frequently useful to have "source-level" comments - comments which are intended to individuals writing and/or editing rules, but which are not intended for display to end users. This is analogous to placing comments in source code; in an effort to encourage rule authors to write clear rules, we provide a facility for placing comments into PICSRules rules.

The syntax of a comment is: comment:: '{' comment-text\* '}'

comment-text:: any characters except '}'

Note that a result of the above syntax is that comments may not be nested. Comments may appear anywhere in PICSRules rules. A user-agent MAY remove the comments during lexical analysis of the rule; text within comments MUST NOT influence the interpretation of the rule in any manner. Note also that user-agents which generate or export PICSRules rules MAY choose to strip out comments before generating, exporting, or transmitting them.

*All Document Modes (All Versions)*

Comments in PICSRules rules are not supported.



*8 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

V0004:

The specification states:

An application program will invoke a rule evaluator, providing a rule and a URL, and perhaps labels that were embedded in the document associated with the URL or passed in the HTTP headers along with the document associated with the URL. A yes (accept) or no (reject) answer is returned. The rule evaluator SHOULD also return the explanation string associated with the policy clause that determines the final answer, if such an explanation string is provided.

*All Document Modes (All Versions)*

The rule evaluator does not return an explanation string associated with the policy clause that determines the final answer, if such an explanation string is provided.

V0005:

The specification states:

source

This clause gives information about where the rule came from. There are 4 attributes defined for source: sourceURL, creationTool, author, and lastModified. The primary attribute is sourceURL.

The sourceURL attribute gives the "rule's URL". It provides a location where a human user of this rule can go to get more information about the rule and/or its creator. The value of this attribute should be a URL here a user can find a human-readable description of this rule.

The creationTool attribute gives the ability to identify the tool, if any, that was used to create this rule. This is analogous to the User-Agent string in HTTP. The value of the creationTool is a quoted string. The string should be in the format toolname/version, as in "Cool-PICS-Rule-Editor/1.04".

The author attribute gives the e-mail address of the individual or organization who produced this rule. The value associated with this attribute MUST be a quoted e-mail address.

The lastModified attribute gives the date and time that this rule was last modified. The value MUST be a quoted-ISO-date, as defined in the PICS-1.1 Label Syntax and Communication Protocols.

*All Document Modes (All Versions)*

**creationTool** values that do not conform to the toolname/version format and **author** values thatdo not conform to the quoted e-mail format are acceptable.

V0006:

The specification states:

serviceinfo

The bureauUnavailable attribute specifies what to do when none of the label bureau(s) listed in bureauURL attributes can be contacted. The defined values for this attribute are "PASS" and "FAIL", which cause the rule to return the corresponding value, regardless of what other labels are found.

The ratfile attribute presents the machine-readable rating system description (also know as "RAT file") that is used by this rating service. This may be specified in one of two ways: the value may be a quoted string which contains the entire



*9 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

machine-readable service description, or it may be of the syntax "[RATFile-URL]", where RATFile-URL is the URL of the rating system description; a user-agent SHOULD assume that dereferencing this URL will produce a document of type application/pics-service. There is no default value for the ratfile attribute. If the quoted string contains the machine-readable service description, then it MUST be escaped as mentioned above.

*All Document Modes (All Versions)*

Neither the **bureauUnavailable** attribute nor the **ratfile** attribute are supported.

V0007:

The specification states:

opt-extension-clause

opt-extension-clause and req-extension-clause are the extension mechanisms in PICSRules; they are modeled after the extension mechanism in the PICS label format. More information on the extension mechanism is given below.

The opt-extension-clause has two defined attributes: extension-name and shortname. The value of the extension-name attribute specifies the name of an extension that will be used by this rule. The name of the extension is the quotedURL; this URL should point to a human-readable description of this extension. URLs are used for extension names to ensure uniqueness without requiring a central naming body. The value of the shortname attribute is a quoted string, but MUST use only valid attribute name characters (a-z, A-Z, 0-9). The shortname is used as a prefix of attribute names, to identify attributes defined by this extension.

If a user-agent receives a rule which contains an optextension which it does not recognize, the user-agent should process the rule, ignoring any clauses it does not recognize. This means that any optional extensions MUST use the attribute-value syntax given above, so as to not break existing parsers. Note that declaring the use of an optional extension may appear to be redundant, as unrecognized attribute-value pairs are discarded by user-agents. The purpose of the optextension construct is for use as a documentation mechanism. User-agents MAY also display the names of optional extensions used by a rule, asking the user for confirmation, before making use of a rule.

*All Document Modes (All Versions)*

The following variations apply:

The **shortname** attribute can use any characters, not just (a–z, A–Z, 0–9). Therefore, the exact attribute-value syntax for optional extensions is not used.

The names of any optional extensions used by a rule are not displayed.

V0008:

The specification states:

req-extension-clause

This clause has two defined attributes: extension-name and shortname. The value of the extension-name attribute specifies the name of an extension that will be used by this rule. The name of the extension is the quotedURL; this URL should point to a human-readable description of this extension. URLs are used for extension names to insure uniqueness without requiring a central naming body. The value of the



*10 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

shortname attribute is a quoted string, but MUST use only valid attribute name characters (a-z, A-Z, 0-9). The shortname is used as a prefix of attribute names, to identify attributes defined by this extension.

If a user-agent is asked to process a request about the acceptability of a URL, using a rule which contains a req-extension-clause which the user agent does not recognize, the user agent should signal an error.

*All Document Modes (All Versions)*

The **shortname** attribute can use any characters, not just (a–z, A–Z, 0–9). Therefore, the exact attribute-value syntax for required extensions is not used.

V0009:

The specification states:

Restrictions

The following semantic restrictions are imposed on rules:

The name, and source clauses MUST NOT appear more than once each in a PICSRules rule.

The optextension, reqextension, and serviceinfo clauses MAY appear more than once in a PICSRules rule.

Each Policy clause MUST have exactly one attribute from the set of {AcceptIf, RejectIf, AcceptUnless, RejectUnless, AcceptByURL, RejectByURL}.

A rule MAY contain any number of Policy clauses.

A Policy clause MUST NOT contain more than one explanation attribute.

The shortname attribute of an extension clause or a service clause takes a quoted string as a value, but that string MUST include only characters that are acceptable for use in attribute names.

A PICSRules parser MUST maintain the order of the values (or value-lists) given for the attributes in a rule.

*All Document Modes (All Versions)*

The following variations apply:

Policy clauses that contain multiple attributes are acceptable.

The **shortname** attribute can use any characters, not just (a–z, A–Z, 0–9).

V0010:

The specification states:

ipwild :: ipcomponent '.' ipcomponent '.' ipcomponent '.' ipcomponent ipcomponent :: integer between '0' and '255' inclusive

bitlength :: integer between '0' and '32' inclusive

*All Document Modes (All Versions)*

The following variations apply:

Values greater than 255 and less than 0 are valid for **ipcomponent**.

Values greater than 32 and less than 0 are valid for **bitlength**.



*11 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

V0011:

The specification states:

When comparing a URLpattern to a URL, the rule interpreter MUST NOT unencode the URL (e.g., do not convert %2F to /). If the pattern can be interpreted as an internet-pattern, then the pattern is divided into its component parts and the URL matches the pattern if a match occurs on every component that is included in the pattern.

*All Document Modes (All Versions)*

When comparing a **URLpattern** to a URL, the rule interpreter decodes the URL (for example, it converts %2F to /).

V0012:

The specification states:

user

'\*' at the beginning or end of the pattern matches any number of characters in the URL string. '%\*' at the beginning or end of the pattern matches the single character '\*' in the URL string. Characters in the middle of the pattern must match exactly the characters in the URL string; this comparison is case-sensitive. A user component of "\*" in the pattern also matches URLs that omit the user component. If the user component is omitted from the pattern, there is a match only if the user component is also omitted from the URL.

*All Document Modes (All Versions)*

User components in the URL are not supported.

V0013:

The specification states:

host

'\*' at the beginning of the pattern matches any number of characters in the URL string. '%\*' at the beginning of the pattern matches the single character '\*' in the URL string. Subsequent characters in the pattern must exactly match the remaining characters in the URL string; this comparison is case-insensitive. Note that if the pattern specifies a host name (or a host name with wildcards), it does not match a URL that specifies an IP address, even if the host name in the pattern would resolve to the IP address in the URL. This avoids the need to perform expensive reverse DNS lookups based on IP addresses in URLs. Either a host or an ipwild component MUST be specified in the URL pattern.

*All Document Modes (All Versions)*

Host or ipwild components are not required to be specified in the URL pattern.

1. **Error Handling**

There are no additional considerations for error handling.



*12 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

1. **Security**

There are no additional security considerations.



*13 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

**3 Change Tracking**

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



*14 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

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



*15 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*

**4 Index**

**C**

[Change tracking](#page14) 14

**G**

[Glossary](#page4) 4

**I**

[Informative references](#page4) 4

[Introduction](#page4) 4

**N**

[Normative references](#page4) 4

**R**

References  [informative](#page4) 4  [normative](#page4) 4

**T**

[Tracking changes](#page14) 14



*16 / 16*

*[MS-PICSRL] — v20120725*

*Internet Explorer PICSRules Standards Support Document*

*Copyright © 2012 Microsoft Corporation.*

*Release: July 25, 2012*