**[MS-CORSXF]:**

**Internet Explorer Standards Support Cross-Origin Resource Sharing for XDomainRequest, Images, and Fonts Document**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 7/16/2014 | 1.0 | New | Released new document. |
| 1/22/2015 | 2.0 | Major | Updated for new product version. |
| 7/7/2015 | 2.1 | Minor | Clarified the meaning of the technical content. |
| 11/2/2015 | 2.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/22/2016 | 2.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/2/2016 | 2.1 | None | No changes to the meaning, language, or formatting of the technical content. |
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| 10/3/2017 | 2.1 | None | No changes to the meaning, language, or formatting of the technical content. |

Table of Contents

[1 Introduction 4](#_Toc494258541)

[1.1 Glossary 4](#_Toc494258542)

[1.2 References 4](#_Toc494258543)

[1.2.1 Normative References 4](#_Toc494258544)

[1.2.2 Informative References 4](#_Toc494258545)

[1.3 Microsoft Implementations 4](#_Toc494258546)

[1.4 Standards Support Requirements 6](#_Toc494258547)

[1.5 Notation 6](#_Toc494258548)

[2 Standards Support Statements 8](#_Toc494258549)

[2.1 Normative Variations 8](#_Toc494258550)

[2.1.1 Section 5.2, Access-Control-Allow-Credentials Response Header 8](#_Toc494258551)

[2.1.2 Section 5.3, Access-Control-Expose-Headers Response Header 8](#_Toc494258552)

[2.1.3 Section 5.4, Access-Control-Max-Age Response Header 9](#_Toc494258553)

[2.1.4 Section 5.5, Access-Control-Allow-Methods Response Header 9](#_Toc494258554)

[2.1.5 Section 5.6, Access-Control-Allow-Headers Response Header 9](#_Toc494258555)

[2.1.6 Section 5.8, Access-Control-Request-Method Request Header 9](#_Toc494258556)

[2.1.7 Section 5.9, Access-Control-Request-Headers Request Header 10](#_Toc494258557)

[2.1.8 Section 6.1, Simple Cross-Origin Request, Actual Request, and Redirects 10](#_Toc494258558)

[2.1.9 Section 6.2, Preflight Request 11](#_Toc494258559)

[2.1.10 Section 7.1.1, Handling a Response to a Cross-Origin Request 11](#_Toc494258560)

[2.1.11 Section 7.1.2, Cross-Origin Request Status 11](#_Toc494258561)

[2.1.12 Section 7.1.3, Source Origin 12](#_Toc494258562)

[2.1.13 Section 7.1.4, Simple Cross-Origin Request 12](#_Toc494258563)

[2.1.14 Section 7.1.5, Cross-Origin Request with Preflight 12](#_Toc494258564)

[2.1.15 Section 7.1.6, Preflight Result Cache 13](#_Toc494258565)

[2.1.16 Section 7.1.7, Generic Cross-Origin Request Algorithms 13](#_Toc494258566)

[2.1.17 Section 7.2, Resource Sharing Check 14](#_Toc494258567)

[2.2 Clarifications 15](#_Toc494258568)

[2.3 Error Handling 15](#_Toc494258569)

[2.4 Security 15](#_Toc494258570)

[3 Change Tracking 16](#_Toc494258571)

[4 Index 17](#_Toc494258572)

# Introduction

This document describes the level of support provided by Microsoft web browsers for the Cross-Origin Resource Sharing [[CORS]](https://go.microsoft.com/fwlink/?LinkID=403198) W3C Recommendation of 16 January 2014, with regards to [[XDomainRequest]](https://go.microsoft.com/fwlink/?LinkId=510373), images [[HTML5]](https://go.microsoft.com/fwlink/?LinkId=510490), and fonts [[CSS-FontsLevel3]](https://go.microsoft.com/fwlink/?LinkId=510494).

The [CORS] specification may contain guidance for authors of HTML and XML documents, browser users and 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.

## Glossary

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

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### Normative References

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

[CORS] World Wide Web Consortium, "Cross-Origin Resource Sharing", W3C Recommendation 16 January 2014, [http://www.w3.org/TR/2014/REC-cors-20140116/](https://go.microsoft.com/fwlink/?LinkID=403198)

[CSS-FontsLevel3] World Wide Web Consortium, "CSS Fonts Module Level 3", W3C Candidate Recommendation 3 October 2013, [http://www.w3.org/TR/css-fonts-3/](https://go.microsoft.com/fwlink/?LinkId=510494)

[HTML5] Berjon, R., Faulkner, S., Leithead, T., Navara, E., et al., Eds., "HTML5 -- A vocabulary and associated APIs for HTML and XHTML", [http://www.w3.org/TR/html5/](https://go.microsoft.com/fwlink/?LinkId=510490)

[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](https://go.microsoft.com/fwlink/?LinkId=90317)

[XDomainRequest] Microsoft Corporation, "XDomainRequest object", [http://msdn.microsoft.com/library/ie/cc288060](https://go.microsoft.com/fwlink/?LinkId=510373)

### Informative References

None.

## Microsoft Implementations

The following Microsoft web browser versions implement some portion of the [[CORS]](https://go.microsoft.com/fwlink/?LinkID=403198) specification for [[XDomainRequest]](https://go.microsoft.com/fwlink/?LinkId=510373):

* Windows Internet Explorer 8
* Windows Internet Explorer 9
* Windows Internet Explorer 10

The following Microsoft web browsers implement some portion of the [CORS] specification for font fetching [[CSS-FontsLevel3]](https://go.microsoft.com/fwlink/?LinkId=510494) and the canvas element [[HTML5]](https://go.microsoft.com/fwlink/?LinkId=510490):

* Internet Explorer 9
* Internet Explorer 10
* Internet Explorer 11
* Internet Explorer 11 for Windows 10
* Microsoft Edge

The following Microsoft web browsers implement some portion of the [CORS] specification for the crossorigin attribute [HTML5]:

* Internet Explorer 11
* Internet Explorer 11 for Windows 10
* Microsoft Edge

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

| Browser Version | Document Modes Supported |
| --- | --- |
| 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 |
| Internet Explorer 11 | Quirks Mode  IE7 Mode  IE8 Mode  IE9 Mode  IE10 Mode  IE11 Mode |
| Internet Explorer 11 for Windows 10 | Quirks Mode  IE7 Mode  IE8 Mode  IE9 Mode  IE10 Mode  IE11 Mode |
| Microsoft Edge | EdgeHTML Mode |

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

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

## Standards Support Requirements

To conform to [[CORS]](https://go.microsoft.com/fwlink/?LinkID=403198) 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]](https://go.microsoft.com/fwlink/?LinkId=90317).)

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

| Sections | Normative/Informative |
| --- | --- |
| 1 | Informative |
| 2 - 3 | Normative |
| 4 | Informative |
| 5 - 6.2 | Normative |
| 6.3 - 6.4 | Informative |
| 7 - 7.2 | Normative |
| 7.3 - 8 | Informative |
| References | Informative |
| Acknowledgments | Informative |

## 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#### | 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#### | Identifies an intended point of variability in the target specification such as the use of MAY, SHOULD, or RECOMMENDED. (See [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317).) This does not include extensibility points. |
| E#### | Identifies extensibility points (such as optional implementation-specific data) in the target specification, which can impair interoperability. |

For document mode and browser version notation, see section [1.3](#Section_5985c279e24b47a6b9977ca3be83400a).

# Standards Support Statements

This section contains a full list of variations and clarifications points in the Microsoft implementation of [[CORS]](https://go.microsoft.com/fwlink/?LinkID=403198).

* Section [2.1](#Section_2576ee682c8e430c92218e2f07c18088) includes only those variations that violate a MUST requirement in the target specification.
* Section [2.2](#Section_f5de16ad6d9c428e88f9f5a1485c1593) describes further variations from MAY and SHOULD requirements.
* Section [2.3](#Section_037e74ae596e4726934fd9b161d6ec6b) identifies variations in error handling.
* Section [2.4](#Section_fb4910f1939040229b4b29c30fbfd214) identifies variations that impact security.

## Normative Variations

The XDomainRequest object [[XDomainRequest]](https://go.microsoft.com/fwlink/?LinkId=510373) is supported in IE8 Mode, IE9 Mode, and IE10 Mode (all versions). The @font-face rule [[CSS-FontsLevel3]](https://go.microsoft.com/fwlink/?LinkId=510494) is supported in IE9 Mode, IE10 Mode, IE11 Mode, and EdgeHTML Mode (all versions). The crossorigin attribute for the img element [[HTML5]](https://go.microsoft.com/fwlink/?LinkId=510490) is supported in IE11 Mode and EdgeHTML Mode (all versions) and cross-origin canvas behavior is partially supported in IE9 Mode and IE10 Mode (all versions) and supported in IE11 Mode and EdgeHTML Mode (all versions). All of these features involve cross-origin resource sharing [[CORS]](https://go.microsoft.com/fwlink/?LinkID=403198) behavior, as required by their normative specifications and/or as implemented by Microsoft.

The following subsections detail the normative variations from MUST requirements in [CORS].

### Section 5.2, Access-Control-Allow-Credentials Response Header

V0001

The specification states:

1. The Access-Control-Allow-Credentials header indicates whether the response to request can be exposed when the omit credentials flag is unset. When part of the response to a preflight request it indicates that the actual request can include user credentials. ABNF:
2. Access-Control-Allow-Credentials: "Access-Control-Allow-Credentials" ":" true  
    true: %x74.72.75.65 ; "true", case-sensitive

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 5.3, Access-Control-Expose-Headers Response Header

V0002

The specification states:

1. The Access-Control-Expose-Headers header indicates which headers are safe to expose to the API of a CORS API specification. ABNF:
2. Access-Control-Expose-Headers = "Access-Control-Expose-Headers" ":" #field-name

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 5.4, Access-Control-Max-Age Response Header

V0003

The specification states:

1. The Access-Control-Max-Age header indicates how long the results of a preflight request can be cached in a preflight result cache. ABNF:
2. Access-Control-Max-Age = "Access-Control-Max-Age" ":" delta-seconds

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 5.5, Access-Control-Allow-Methods Response Header

V0004

The specification states:

1. The Access-Control-Allow-Methods header indicates, as part of the response to a preflight request, which methods can be used during the actual request.
2. The `Allow` header is not relevant for the purposes of the CORS protocol. ABNF:
3. Access-Control-Allow-Methods: "Access-Control-Allow-Methods" ":" #Method

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 5.6, Access-Control-Allow-Headers Response Header

V0005

The specification states:

1. The Access-Control-Allow-Headers header indicates, as part of the response to a preflight request, which header field names can be used during the actual request. ABNF:
2. Access-Control-Allow-Headers: "Access-Control-Allow-Headers" ":" #field-name

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 5.8, Access-Control-Request-Method Request Header

V0006

The specification states:

1. The Access-Control-Request-Method header indicates which method will be used in the actual request as part of the preflight request. ABNF:
2. Access-Control-Request-Method: "Access-Control-Request-Method" ":" Method

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 5.9, Access-Control-Request-Headers Request Header

V0007

The specification states:

1. The Access-Control-Request-Headers header indicates which headers will be used in the actual request as part of the preflight request. ABNF:
2. Access-Control-Request-Headers: "Access-Control-Request-Headers" ":" #field-name

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 6.1, Simple Cross-Origin Request, Actual Request, and Redirects

V0008

The specification states:

Resources must use the following set of steps to determine which additional headers to use in the response:

1. If the Origin header is not present terminate this set of steps. The request is outside the scope of this specification.
2. If the value of the Origin header is not a case-sensitive match for any of the values in list of origins, do not set any additional headers and terminate this set of steps.

Note: Always matching is acceptable since the list of origins can be unbounded.

1. If the resource supports credentials add a single Access-Control-Allow-Origin header, with the value of the Origin header as value, and add a single Access-Control-Allow-Credentials header with the case-sensitive string "true" as value.

Otherwise, add a single Access-Control-Allow-Origin header, with either the value of the Origin header or the string "\*" as value.

Note: The string "\*" cannot be used for a resource that supports credentials.

1. If the list of exposed headers is not empty add one or more Access-Control-Expose-Headers headers, with as values the header field names given in the list of exposed headers.

Note: By not adding the appropriate headers resource can also clear the preflight result cache of all entries where origin is a case-sensitive match for the value of the Origin header and url is a case-sensitive match for the URL of the resource.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Credentials and exposed headers are not supported.

### Section 6.2, Preflight Request

V0009

The specification states:

1. In response to a preflight request the resource indicates which methods and headers (other than simple methods and simple headers) it is willing to handle and whether it supports credentials.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 7.1.1, Handling a Response to a Cross-Origin Request

V0010

The specification states:

1. User agents must filter out all response headers other than those that are a simple response header or of which the field name is an ASCII case-insensitive match for one of the values of the Access-Control-Expose-Headers headers (if any), before exposing response headers to APIs defined in CORS API specifications.
2. Note: The getResponseHeader() method of XMLHttpRequest will therefore not expose any header not indicated above.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 7.1.2, Cross-Origin Request Status

V0011

The specification states:

1. Each cross-origin request has an associated cross-origin request status that CORS API specifications that enable an API to make cross-origin requests can hook into. It can take at most two distinct values over the course of a cross-origin request. The values are:

preflight complete

The user agent is about to make the actual request.

success

The resource can be shared.

abort error

The user aborted the request.

network error

The resource cannot be shared. Also used when a DNS error, TLS negotiation failure, or other type of network error occurs. This does not include HTTP responses that indicate some type of error, such as HTTP status code 410.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Preflight is not supported.

### Section 7.1.3, Source Origin

V0012

The specification states:

The source origin is the initial origin that user agents must use for the Origin header. It can be modified during the redirect steps.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Redirection modification is not supported.

### Section 7.1.4, Simple Cross-Origin Request

V0013

The specification states:

↪If the manual redirect flag is unset and the response has an HTTP status code of 301, 302, 303, 307, or 308

Apply the redirect steps.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Manual redirection is not supported.

### Section 7.1.5, Cross-Origin Request with Preflight

V0014

The specification states:

1. To protect resources against cross-origin requests that could not originate from certain user agents before this specification existed a preflight request is made to ensure that the resource is aware of this specification. The result of this request is stored in a preflight result cache.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Preflight is not supported.

### Section 7.1.6, Preflight Result Cache

V0015

The specification states:

1. As mentioned, a cross-origin request with preflight uses a preflight result cache. This cache consists of a set of entries.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

Not supported.

### Section 7.1.7, Generic Cross-Origin Request Algorithms

V0016

The specification states:

Whenever the make a request steps are applied, fetch the request URL from origin source origin using referrer source as override referrer source with the manual redirect flag set, and the block cookies flag set if the omit credentials flag is set. Use method request method, entity body request entity body, including the author request headers, and include user credentials if the omit credentials flag is unset.

Whenever the redirect steps are applied, follow this set of steps:

1. Let original URL be the request URL.
2. Let request URL be the URL conveyed by the Location header in the redirect response.
3. If the request URL <scheme> is not supported, infinite loop precautions are violated, or the user agent does not wish to make the new request for some other reason, apply the network error steps.
4. If the request URL contains the userinfo production apply the network error steps.
5. If the resource sharing check for the current resource returns fail, apply the network error steps.
6. If the request URL origin is not same origin with the original URL origin, set source origin to a globally unique identifier (becomes "null" when transmitted).
7. Transparently follow the redirect while observing the set of request rules.
8. Whenever the abort steps are applied, terminate the algorithm that invoked this set of steps and set the cross-origin request status to abort error.
9. Whenever the network error steps are applied, terminate the algorithm that invoked this set of steps and set the cross-origin request status to network error.
10. Note: This has no effect on setting of user credentials. I.e. if the block cookies flag is unset, cookies will be set by the response.
11. Whenever the cache and network error steps are applied, follow these steps:
12. Remove the entries in the preflight result cache where origin field value is a case-sensitive match for source origin and url field value is a case-sensitive match for request URL.
13. Apply the network error steps acting as if the algorithm that invoked the cache and network error steps invoked the network error steps instead.
14. There is a cache match when there is a cache entry in the preflight result cache for which the following is true:

* The origin field value is a case-sensitive match for source origin.
* The url field value is a case-sensitive match for request URL.
* The credentials field value is true and the omit credentials flag is unset, or it is false and the omit credentials flag is set.

1. There is a method cache match when there is a cache entry for which there is a cache match and the method field value is a case-sensitive match for the given method.
2. There is a header cache match when there is a cache entry for which there is a cache match and the header field value is an ASCII case-insensitive match for the given header field name.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

The redirect origin check, method cache, header cache, preflight cache checks, and updates are not supported.

### Section 7.2, Resource Sharing Check

V0017

The specification states:

4. If the omit credentials flag is unset and the response includes zero or more than one Access-Control-Allow-Credentials header values, return fail and terminate this algorithm.

5. If the omit credentials flag is unset and the Access-Control-Allow-Credentials header value is not a case-sensitive match for "true", return fail and terminate this algorithm.

*IE8 Mode, IE9 Mode, and IE10 Mode (All Versions)*

The omit credentials flag is not supported.

## Clarifications

None.

## Error Handling

There are no additional considerations for error handling.

## Security

There are no additional security considerations.

# Change Tracking

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

# Index

A

[Access-Control-Allow-Credentials Response Header](#section_252ca93f50294cd0ae31ad9c97470984) 8

[Access-Control-Allow-Headers Response Header](#section_bb7edd0361b24d84b30a86a6840d7045) 9

[Access-Control-Allow-Methods Response Header](#section_0269d11ce9c344a0b27d112cec9c464a) 9

[Access-Control-Expose-Headers Response Header](#section_a9a1b0065eb5435480f49f7d06130175) 8

[Access-Control-Max-Age Response Header](#section_ab7fe86ab02149febc7fdfd65df33733) 9

[Access-Control-Request-Headers Request Header](#section_3d6f94a08566442f8bad32531973b69c) 10

[Access-Control-Request-Method Request Header](#section_456aeeee68dc45b8968083367e6f8282) 9

C

[Change tracking](#section_391437d8f24a494daa2cccdfe904a32a) 16

[Cross-Origin Request Status](#section_54d5085ec56540c1b976acc0d6ce804e) 11

[Cross-Origin Request with Preflight](#section_8c098d57caf64b54b22e8f248157227d) 12

G

[Generic Cross-Origin Request Algorithms](#section_3e93c5c354c545e3b06da0a79d58db06) 13

[Glossary](#section_ff0b37cc8b3f4113a44d0e7d90a8a929) 4

H

[Handling a Response to a Cross-Origin Request](#section_eccbecf28c2d42898e97a2919b10eab2) 11

I

[Informative references](#section_e0b092a43eca4b15a192aa48d39b81c1) 4

[Introduction](#section_7b8c09f814b447cabf9cbc24981cbb86) 4

N

[Normative references](#section_5a2c27964349494aaf87c97ecaf5041e) 4

P

[Preflight Request](#section_ab8b0058b0ed4a52a9e026b5574a4583) 11

[Preflight Result Cache](#section_f9570481575043338ed27d2801941a90) 13

R

References

[informative](#section_e0b092a43eca4b15a192aa48d39b81c1) 4

[normative](#section_5a2c27964349494aaf87c97ecaf5041e) 4

[Resource Sharing Check](#section_8eb8e54f48264c79be98840eb190fda6) 14

S

[Simple Cross-Origin Request](#section_c9455b4460824d63aad2435197acc5f1) 12

[Simple Cross-Origin Request - Actual Request - and Redirects](#section_0c24f79de80d49218e604807389724e4) 10

[Source Origin](#section_5a329584f5184c75986405ad6b5d9346) 12

T

[Tracking changes](#section_391437d8f24a494daa2cccdfe904a32a) 16