**[MS-XMLSD]:**

**Microsoft XML Schema (Part 2: Datatypes) Standards Support Document**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 9/8/2010 | 0.1 | New | Released new document. |
| 10/13/2010 | 0.2 | Minor | Clarified the meaning of the technical content. |
| 2/10/2011 | 1.0 | None | Introduced no new technical or language changes. |
| 2/22/2012 | 2.0 | Major | Significantly changed the technical content. |
| 7/25/2012 | 2.1 | Minor | Clarified the meaning of the technical content. |
| 2/6/2013 | 2.2 | Minor | Clarified the meaning of the technical content. |
| 6/26/2013 | 3.0 | Major | Significantly changed the technical content. |
| 3/31/2014 | 3.0 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/22/2015 | 4.0 | Major | Updated for new product version. |
| 7/7/2015 | 4.1 | Minor | Clarified the meaning of the technical content. |
| 11/2/2015 | 4.1 | None | No changes to the meaning, language, or formatting of the technical content. |
| 1/20/2016 | 4.2 | Minor | Clarified the meaning of the technical content. |
| 3/22/2016 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 11/2/2016 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/14/2017 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 10/3/2017 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 2/22/2018 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 3/23/2018 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |
| 8/28/2018 | 4.2 | None | No changes to the meaning, language, or formatting of the technical content. |

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# Introduction

This document describes the level of support provided by the Microsoft XML Core Services (MSXML) 6.0 for *XML Schema Part 2: Datatypes (Second Edition)* [[W3C-XSD]](https://go.microsoft.com/fwlink/?LinkId=90563), published 28 October 2004.

MSXML6 supports [W3C-XSD] using the *Extensible Markup Language (XML) 1.0 (Fourth Edition)* [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598), published 16 August 2006, edited in place 29 September 2006.

By way of MSXML6, Microsoft web browsers support [W3C-XSD].

The [W3C-XSD] 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.

## 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.

[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)

[W3C-XSD] World Wide Web Consortium, "XML Schema Part 2: Datatypes Second Edition", 28 October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-2-20041028](https://go.microsoft.com/fwlink/?LinkId=90563)

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation 16 August 2006, edited in place 29 September 2006, [http://www.w3.org/TR/2006/REC-xml-20060816/](https://go.microsoft.com/fwlink/?LinkId=90598)

### Informative References

None.

## Microsoft Implementations

Throughout this document, Microsoft XML Core Services (MSXML) 6.0 is referred to as *MSXML6*.

MSXML6 implements the [[W3C-XSD]](https://go.microsoft.com/fwlink/?LinkId=90563) specification.

The following Microsoft products implement some portion of the [W3C-XSD] specification, by way of MSXML6:

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

Each browser version may implement multiple document rendering modes. The modes vary from one another in support of the standard. The following table lists the document modes in each browser version that support the [W3C-XSD] specification.

| Browser version | Document modes supported |
| --- | --- |
| Internet Explorer 9 | IE9 Mode |
| Internet Explorer 10 | IE9 Mode  IE10 Mode |
| Internet Explorer 11 | IE9 Mode  IE10 Mode  IE11 Mode |
| Internet Explorer 11 for Windows 10 | IE9 Mode  IE10 Mode  IE11 Mode |

## Standards Support Requirements

To conform to [[W3C-XSD]](https://go.microsoft.com/fwlink/?LinkId=90563), 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).)

## 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_d6876f7b9df14b4a8f76b898ce4b21df).

# Standards Support Statements

This section contains all variations and clarifications for the Microsoft implementation of [[W3C-XSD]](https://go.microsoft.com/fwlink/?LinkId=90563).

* Section [2.1](#Section_fa792360fb104241b7617d8ee47adcaf) describes normative variations from the MUST requirements of the specification.
* Section [2.2](#Section_117abcf531074cdbab2b888d24758a57) describes clarifications of the MAY and SHOULD requirements.
* Section [2.3](#Section_ad614253bf274c3c8e145c0c6428e98a) considers error handling aspects of the implementation.
* Section [2.4](#Section_bf57d09ec3354f9388fc956bf0135c1b) considers security aspects of the implementation.

## Normative Variations

The following subsections describe normative variations from the MUST requirements of [[W3C-XSD]](https://go.microsoft.com/fwlink/?LinkId=90563).

### [W3C-XSD] Section 2.5.1.2, List datatypes

V0001:

The specification states:

1. When a datatype is derived from a list datatype, the following
2. constraining facets apply:
3. • length
4. • maxLength
5. • minLength
6. • enumeration
7. • pattern
8. • whiteSpace
9. For each of length, maxLength, and minLength, the unit of length is measured in
10. number of list items. The value of whiteSpace is fixed to the value collapse.

*MSXML6*

Other values (preserve or replace) can be assigned to the **whiteSpace** facet when the base type of the list data type is **string**.

### [W3C-XSD] Section 3.2.3.2, Canonical representation

V0002:

The specification states:

The canonical representation for decimal is defined by prohibiting certain options   
from the Lexical representation.

*MSXML6*

Canonicalization is included in digital signature, which is a feature removed from MSXML6.

### [W3C-XSD] Section 3.2.4, float

V0002:

The specification states:

1. [Definition:] float is patterned after the IEEE single-precision 32-bit floating
2. point type [IEEE 754-1985]. The basic ·value space· of float consists of the
3. values m × 2^e, where m is an integer whose absolute value is less than 2^24,
4. and e is an integer between -149 and 104, inclusive. In addition to the basic
5. ·value space· described above, the ·value space· of float also contains the
6. following three special values: positive and negative infinity and not-a-number
7. (NaN). The ·order-relation· on float is: x < y iff y - x is positive for x and y
8. in the value space. Positive infinity is greater than all other non-NaN values.
9. NaN equals itself but is ·incomparable· with (neither greater than nor less
10. than) any other value in the ·value space·.

*MSXML6*

No error is reported if the NaN value is compared with positive infinity or negative infinity.

### [W3C-XSD] Section 3.2.5, double

V0003:

The specification states:

1. [Definition:] The double datatype is patterned after the IEEE double-precision
2. 64-bit floating point type [IEEE 754-1985]. The basic ·value space· of double
3. consists of the values m × 2^e, where m is an integer whose absolute value is
4. less than 2^53, and e is an integer between -1075 and 970, inclusive. In addition
5. to the basic ·value space· described above, the ·value space· of double also
6. contains the following three special values: positive and negative infinity and
7. not-a-number (NaN). The ·order-relation· on double is: x < y iff y - x is
8. positive for x and y in the value space. Positive infinity is greater than all
9. other non-NaN values. NaN equals itself but is ·incomparable· with (neither
10. greater than nor less than) any other value in the ·value space·.

*MSXML6*

No error is reported if the NaN value is compared with positive infinity or negative infinity.

V0004:

The specification states:

1. Any value ·incomparable· with the value used for the four bounding facets
2. (·minInclusive·, ·maxInclusive·, ·minExclusive·, and ·maxExclusive·) will be
3. excluded from the resulting restricted ·value space·. In particular, when "NaN"
4. is used as a facet value for a bounding facet, since no other double values are
5. ·comparable· with it, the result is a ·value space· either having NaN as its only
6. member (the inclusive cases) or that is empty (the exclusive cases). If any other
7. value is used for a bounding facet, NaN will be excluded from the resulting
8. restricted ·value space·; to add NaN back in requires union with the NaN-only
9. space.

*MSXML6*

If NaN is used as a facet value for a bounding facet, when NaN is compared to other non-NaN doubles, NaN is less than any non-NaN number.

### [W3C-XSD] Section 3.2.6.2, Order relation on duration

V0005:

The specification states:

1. Implementations are free to optimize the computation of the ordering relationship.
2. For example, the following table can be used to compare durations of a small
3. number of months against days.

*MSXML6*

Some comparisons that are indeterminate are considered to be true, such as the comparison between 1 month and 30 days.

### [W3C-XSD] Section 3.2.6.3, Facet Comparison for durations

V0006:

The specification states:

1. In comparing duration values with minInclusive, minExclusive, maxInclusive
2. and maxExclusive facet values indeterminate comparisons should be considered
3. as "false".

*MSXML6*

Some comparisons that are indeterminate are considered to be true, such as P30D and P1M.

### [W3C-XSD] Section 3.2.7.1, Lexical representation

V0007:

The specification states:

1. The [lexical space·](http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/" \l "dt-lexical-space) of dateTime consists of finite-length sequences of characters of the form: '-'? yyyy '-' mm '-' dd 'T' hh ':' mm ':' ss ('.' s+)? (zzzzzz)?, where
2. - '-'? yyyy is a four-or-more digit optionally negative-signed numeral that represents the year; if more than four digits, leading zeros are prohibited, and '0000' is prohibited (see the Note above (§3.2.7); also note that a plus sign is not permitted);
3. - the remaining '-'s are separators between parts of the date portion;
4. the first mm is a two-digit numeral that represents the month;
5. - dd is a two-digit numeral that represents the day;
6. - 'T' is a separator indicating that time-of-day follows;
7. = hh is a two-digit numeral that represents the hour; '24' is permitted if the minutes and seconds represented are zero, and the dateTime value so represented is the first instant of the following day (the hour property of a dateTime object in the [·value space·](http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/#dt-value-space) cannot have a value greater than 23);
8. - ':' is a separator between parts of the time-of-day portion;
9. - the second mm is a two-digit numeral that represents the minute;
10. - ss is a two-integer-digit numeral that represents the whole seconds;
11. = '.' s+ (if present) represents the fractional seconds;
12. - zzzzzz (if present) represents the timezone (as described below).

*MSXML6, IE9 Mode, IE10 Mode, and IE11 Mode (All Versions)*

Leading zeros are accepted if *yyyy* is more than four digits, such as 01987-10-12T00:00:00.

### [W3C-XSD] Section 4.1.2.2, Derivation by list

V0008:

The specification states:

1. For each of ·length·, ·maxLength· and ·minLength·, the unit of length is measured
2. in number of list items. The value of ·whiteSpace· is fixed to the value collapse.

*MSXML6*

The **whiteSpace** facet may have other values in addition to collapse.

### [W3C-XSD] Section 4.3.1.4, Constraints on length Schema Components

V0009:

The specification states:

1. Schema Component Constraint: length and minLength or maxLength
2. If length is a member of {facets} then
3. 1 It is an error for minLength to be a member of {facets} unless
4. 1.1 the {value} of minLength <= the {value} of length and
5. 1.2 there is type definition from which this one is derived by one or more restriction steps in which minLength has the same {value} and length is not specified.
6. 2 It is an error for maxLength to be a member of {facets} unless
7. 2.1 the {value} of length <= the {value} of maxLength and
8. 2.2 there is type definition from which this one is derived by one or more restriction steps in which maxLength has the same {value} and length is not specified.

*MSXML6*

An error is reported when the **length** facet is a member of the **{facets}** set and either the **minLength** or **maxLength** facet is also a member of **{facets}**.

V0010:

The specification states:

1. Schema Component Constraint: length valid restriction
2. It is an ·error· if length is among the members of {facets} of {base type
3. definition} and {value} is not equal to the {value} of the parent length.

*MSXML6*

No error is reported if the **length** facet value is different from the value of the parent **length** facet, unless one of the **length** facet values is fixed.

## Clarifications

The following subsections describe clarifications of the MAY and SHOULD requirements of [[W3C-XSD]](https://go.microsoft.com/fwlink/?LinkId=90563).

### [W3C-XSD] Section 3.2.6.2, Order relation on duration

V0011:

The specification states:

1. In general, the ·order-relation· on duration is a partial order since there is
2. no determinate relationship between certain durations such as one month (P1M) and
3. 30 days (P30D). The ·order-relation· of two duration values x and y is x < y iff
4. s+x < s+y for each qualified dateTime s in the list below. These values for s
5. cause the greatest deviations in the addition of dateTimes and durations. Addition
6. of durations to time instants is defined in Adding durations to dateTimes (§E).

*MSXML6*

Some comparisons that are indeterminate are considered to be true, such as the comparison between 1 month and 30 days.

### [W3C-XSD] Section 3.2.11, gYear

C0001:

The specification states:

1. Since the lexical representation allows an optional time zone indicator, gYear
2. values are partially ordered because it may not be possible to unequivocally
3. determine the order of two values one of which has a time zone and the other does
4. not. If gYear values are considered as periods of time, the order relation on
5. gYear values is the order relation on their starting instants. This is discussed
6. in Order relation on dateTime (§3.2.7.4). See also Adding durations to dateTimes
7. (§E). Pairs of gYear values with or without time zone indicators are totally
8. ordered.

*MSXML6*

Indeterminate comparisons, such 2009Z with 2010, are considered to be determinate.

### [W3C-XSD] Section 3.2.12, gMonthDay

C0002:

The specification states:

1. Since the lexical representation allows an optional time zone indicator, gMonthDay
2. values are partially ordered because it may not be possible to unequivocally
3. determine the order of two values one of which has a time zone and the other does
4. not. If gMonthDay values are considered as periods of time, in an arbitrary leap
5. year, the order relation on gMonthDay values is the order relation on their
6. starting instants. This is discussed in Order relation on dateTime (§3.2.7.4).
7. See also Adding durations to dateTimes (§E). Pairs of gMonthDay values with or
8. without time zone indicators are totally ordered.

*MSXML6*

Indeterminate comparisons are considered to be determinate.

### [W3C-XSD] Section 3.2.13, gDay

C0003:

The specification states:

1. Since the lexical representation allows an optional time zone indicator, gDay
2. values are partially ordered because it may not be possible to unequivocally
3. determine the order of two values one of which has a time zone and the other does
4. not. If gDay values are considered as periods of time, in an arbitrary month that
5. has 31 days, the order relation on gDay values is the order relation on their
6. starting instants. This is discussed in Order relation on dateTime (§3.2.7.4).
7. See also Adding durations to dateTimes (§E). Pairs of gDay values with or without
8. time zone indicators are totally ordered.

*MSXML6*

Indeterminate comparisons are considered to be determinate.

### [W3C-XSD] Section 3.2.14, gMonth

C0004:

The specification states:

1. Since the lexical representation allows an optional time zone indicator, gMonth
2. values are partially ordered because it may not be possible to unequivocally
3. determine the order of two values one of which has a time zone and the other
4. does not. If gMonth values are considered as periods of time, the order relation
5. on gMonth is the order relation on their starting instants. This is discussed in
6. Order relation on dateTime (§3.2.7.4). See also Adding durations to dateTimes (§E).
7. Pairs of gMonth values with or without time zone indicators are totally ordered.

*MSXML6*

Indeterminate comparisons are considered to be determinate.

## Error Handling

There are no additional error handling considerations.

## 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.

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