

Datetime Data Type

Trifacta® Wrangler Enterprise supports a variety of date-time formats, each of which has additional variations to it.

Supported Date Ranges:

- **Earliest:** January 1, 1400
- **Latest:** December 31, 2599

NOTE: The supported date ranges can be modified if needed. For more information, see *Configure Application Limits*.

You can use dates in the Gregorian calendar system only. Dates in the Julian calendar are not supported.

You can use the following format strings to change the format of a column of dates:

Letter	Date or Time Component	Presentation	Examples
M	Month in year	Number	1
MM	Month in year	Number	01
MMMM	Month in year	Month	January
MMM	Month in year	Month	Jan
yy	Year	Number	16
yyyy	Year	Number	2016
D	Day in year	Number	352
d	Day in month	Number	9
dd	Day in a month	Number	09
EEE	Day in week (three-letter abbreviation)	Text	Wed
EEEE	Day in week	Text	Wednesday
h	Hour in day (1-12) NOTE: Requires an AM/PM indicator (a).	Number	2
hh	Hour in am/pm (01-12) NOTE: Requires an AM/PM indicator (a).	Number	02
H	Hour in day (1-12)	Number	2
HH	Hour in day (0-23)	Number	20
m	Minute in an hour	Number	9
mm	Minute in an hour	Number	09
s	Second in a minute	Number	3
ss	Second in a minute	Number	03

SSS	Millisecond	Number	218
X	Time zone	ISO 8601 time zone	-08 : 00
a	AM/PM indicator	String	AM

NOTE: When publishing to relational targets, Datetime values are written as date/time values in newly created tables. If you are appending to a relational table column that is in timestamp format, Datetime values can be written as timestamps.

Tip: If your DateTime column contains data in multiple formats, you must change the format of the DateTime column to one format and then add a transform to convert that data to the other format. When all formats of your source date values are converted to a single format, the application should infer the appropriate date and time format.

Supported Separators:

- Date separators: blank space, comma, single hyphen, or forward slash
- Time separators: blank space, comma, single hyphen, colon, t or T
- Non-delimited Datetime values are supported. For example, `yyyymmdd`, `yyyymmddThhmmssX`.

ISO 8601 Time Zone Notes:

- Support for timezone offset from UTC indicated by `+hh:mm`, `+hhmm`, or `+hh`. For example, the date '2013-11-18 11:55-04:00' is recognized as a DateTime value.
- Datetime part functions (for example, Hour) truncate time zones and return local time.
- If you have a column with multiple time zones, you can convert the column to Unixtime so you can perform Date/Time operations with a standardized time zone. If you want to work with local times, you can truncate the time zone or use other Datetime functions. See *UNIXTIME Function*.

For more information on supported date formatting strings, see *DATEFORMAT Function*.