

ULTRIVA Format Message Cheat Sheet

Overview

Ultriva supports built in Format Message concept for combining static texts with dynamic field values. Messages are used in Notifications, HTML generation and other user interface related operation. While the basic format of message is decided at compile time, some contents of the message needs to be evaluated at run time. ULTRIVA leverages expression evaluator for this purpose. Any legal expression that is resolved to a String data type may be used in a message. All expressions must be enclosed in square brackets. If the message requires use of left square bracket then same must be escaped with another left square bracket. An example to show a String

[Notifier 23] User **ScottT** has logged in at **1995-10-23 13:20:00**.

Where bold letters are values to be substituted at run time. The actual message should be

[["Notifier 23"]] User [\$\$LoginName] has logged in at [\$\$Now]

Please note the first left bracket escape character.

Actual value expression is stored between a pair of square brackets. The syntax for value expression is

[<FormatSpecifier> <Value expression>]

FormatSpecifier is optional and if omitted, default String conversion is used. Internally Value Expression is resolved to a typed value. If format exists, then the typed value is converted to String following the format specification.

Format Specifier starts with % character and then a datatype specific character also used which is explained below

Locale Based Formatting

Data Type	Prefix for Format	Specifier	Description	Locale
Number	%G	%G<Format Selection for Locale based formatting>	Printed with locale based group separator and decimal separator.	Locale is based on current logged in User's setting
datetime	%G for printing datetime in Server's Timezone or %H for printing datetime in Current logged in user's Timezone	%G<Format Selection for Locale based formatting> for Dates in Local TZ %H<Format Selection for Locale based formatting> for Dates in Caller TZ	Printed with locale based month names and week names.	Locale is based on current logged in User's setting
Currency	%M	%M<Format Currency using Locale based formatting> for Numbers	Printed with currency symbol, group separator and decimal separator.	Locale is based on current logged in User's setting

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Format Selection Overview

To use locale based formatting, provide one or more of the following tokens separated by semi colon. You may provide a common format selection covering numbers,dates and currency. If code is not given, then defaults are used. The complete string may be empty.
 Currency uses number formats for formatting the numeric part and additional symbol.

Format Samples for Numbers, DateTime and Currency

DataType	Format Selection	Sample	Locale	Output
Number or Currency	T0 - Thousand separator off T1 - Thousand separator on F<number of significant digits><period><number of scale digits> always space filled NP - negative parenthesis NS - negative sign on left	Number shown without thousand separator [%GT0 200000] Number shown with thousand separator [%GT1 200000] Number shown with thousand separator, and decimals [%GT1;F8.2 200000] Number shown with thousand separator, decimals and paranthesis for -ve [%GT1;F8.2;NP -200000]	en-us	Number shown without thousand separator 200000 Number shown with thousand separator 200,000 Number shown with thousand separator, and decimals 200,000.00 Number shown with thousand separator, decimals and paranthesis for -ve (200,000.00)
DateTime	DLT - Long date, time DLTZ - Long date, time, Timezone DST - Short Date, time DSTZ - Short Date, time, Timezone DsT - Short Date with literal month DsTZ - Short Date with literal month, timezone DL - Long date only DS - Short Date only Ds - Short Date only with literal month DT - Time only	The Current Time is shown in Long Date only Format: [%HDL \$\$Now] The Current Time is shown in Long Date and Time Format: [%HDLT \$\$Now] The Current Time is shown in Long Date and Time Format: [%HDLTZ \$\$Now] The Current Time is shown in Short Date only Format: [%HDS \$\$Now] The Current Time is shown in Short Date and Time Format: [%HDST \$\$Now] The Current Time is shown in Short Date and Time Format: [%HDSTZ \$\$Now] The Current Time is shown in Short Date and Literal Month Format: [%HDs \$\$Now] The Current Time is shown in Short Date and Time and Literal Month Format: [%HDsT \$\$Now]	en-us	The Current Time is shown in Long Date only Format: Monday, May 28, 2012 The Current Time is shown in Long Date and Time Format: Monday, May 28, 2012 07:59:45 PM The Current Time is shown in Long Date and Time Format: Monday, May 28, 2012 07:59:45 PM-07:00 The Current Time is shown in Short Date only Format: 05/28/2012 The Current Time is shown in Short Date and Time Format: 05/28/2012 07:59:45 PM The Current Time is shown in Short Date and Time Format: 05/28/2012 07:59:45 PM-07:00 The Current Time is shown in Short Date and Literal Month Format: 28/May/12 The Current Time is shown in Short Date and Time and Literal Month Format: 28/May/12 07:59:45 PM

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Currency Symbol	CL<ISO currency code> - Currency symbol on left CR<ISO currency code> - Current symbol on right CLS<ISO currency code> - Currency symbol on left + space CRS<ISO currency code> - space + Current symbol on right	Currency in USD [%MT1;CLUSD 200000] Currency in USD [%MCLUSD 200000] Currency in GBP [%MT1;CLGBP 200000] Currency in GBP [%MCLGBP 200000]	en-us	Currency in USD \$200,000.00 Currency in USD \$200000.00 Currency in GBP £200,000.00 Currency in GBP £200000.00
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