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# Rocket Uniface Library 10.4

## Type Conversion Rules

Common conversion rules apply for both implicit and explicit type conversion.

### Conversion to String

**Table: Rules applied when converting to String**

Source Data Type	Target Data Type	Result
Numeric	String	Value is converted to String.
Date	String	Date is converted to ccymmd (the internal format for the date).
Time	String	Time is converted to hhnsstt (the internal format for the time).
Datetime	String	Datetime is converted to ccymmdhhnsstt (the internal format for the datetime).
Boolean	String	If Boolean is True, String is "T". If Boolean is False, String is "F".

When converting to Strings, display formats are sometimes applied, but sometimes not. .

### Conversion to Numeric

**Table: Rules applied when converting to Numeric**

Source Data Type	Target Data Type	Result
String	Numeric	If possible, String is converted to Numeric value. Otherwise, Numeric is 0.
Date Time Datetime	Numeric	Converted to a linear number of days.
Boolean	Numeric	If False, Numeric is 0. If True, Numeric is 1.

### Conversion to Date

**Table: Rules applied when converting to Date**

Source Data Type	Target Data Type	Result
String	Date	If possible, String is converted to Date using the default Date Format from the current language setup.

Source Data Type	Target Data Type	Result
		Otherwise, Date is NULL.
Numeric	Date	Linear number of days converted to Date.
Time	Date	Date is NULL.
Datetime	Date	Date part of Datetime value.
Boolean	Date	If Boolean is True, Date is 01-jan-1900. If Boolean is False, Date is NULL.

## Conversion to Time

**Table: Rules applied when converting to Time**

Source Data Type	Target Data Type	Result
String	Time	If possible, String is converted to Time using the default Time Format from the current language setup. Otherwise, Time is NULL.
Numeric	Time	Linear time convert to Time.
Date	Time	Time is 00:00:00:00.
Datetime	Time	Time part of Datetime value.
Boolean	Time	Time is 00:00:00:00.

## Conversion to DateTime

**Table: Rules applied when converting to DateTime**

Source Data Type	Target Data Type	Result
String	Datetime	If possible, String converted to Datetime using the default Datetime format from the current language setup. Otherwise, Datetime is NULL.
Numeric	Datetime	Linear number of days converted to Datetime.
Date	Datetime	Time part of Datetime is NULL.
Time	Datetime	Date part of Datetime is NULL.

Source Data Type	Target Data Type	Result
Boolean	Datetime	<p>If Boolean is True, Datetime is 01-jan-1900 00:00:00:00.</p> <p>If Boolean is False, Datetime is 00:00:00:00 (Date part is NULL).</p>

## Conversion to Boolean

**Table: Rules applied when converting to Boolean**

Source Data Type	Target Data Type	Result
String	Boolean	<p>If String starts with 0, F, or N, Boolean is False.</p> <p>Otherwise, Boolean is True.</p>
Numeric	Boolean	<p>If Numeric is 0, Boolean is False.</p> <p>If Numeric is not 0, Boolean is True.</p>
Date Time Datetime	Boolean	<p>If Date, Time, or Datetime is NULL, Boolean is False.</p> <p>If Date, Time, or Datetime is not NULL, Boolean is True.</p>