



### 360 SMS Time Zone Anything™

The optional **Time Zone Anything™** module solves the problem that Salesforce has no features whatsoever for national or international firms working with customers across multiple time zones. This problem manifests itself most often with text-based **Event Reminders** because Salesforce stores all Dates/Times in GMT (-5hrs from Eastern). It also presents a problem with Drip Campaigns that schedule SMS's and Emails based on time. By default, when a time is chosen, it's the Salesforce org time rather than the customers time, causing the text to be delivered to early or too late.

Thus, Salesforce developers around the world struggle to handle Date/Time in the customers time zone. The module adds a **Time Zone** and **Area/Country Code** object to the Salesforce org plus triggerable functions to use the area code or country code of a phone number to then lookup and set the default City, State, Country and most importantly Time Zone for new Leads or other use cases.

Additionally, the module comes with a set of common Date/Time formulas converting any Date/Time field to Text values for use in Merge Tags that reflect the Customers Time rather than the Salesforce Date/Time field, e.g. Appt\_Cust\_Time, Appt\_Cust\_DayOfWeek, etc. shown in **Figure 5** below. The tool also dynamically handles **Daylight Savings Time** on a per time zone basis as USA states like Arizona and Hawaii do not utilize DST and Europe starts/ends DST on different dates than the USA. Plus of course many countries do not use Daylight Savings Time at all.

	<input type="checkbox"/>	Country/Area Code	Region	Country	Time Zone	City	State	Sender Number
1	<input type="checkbox"/>	65	APAC	Singapore	Asia - Southeast			
2	<input type="checkbox"/>	64	APAC	New Zealand	New Zealand			
3	<input type="checkbox"/>	61	APAC	Australia	Australia - Eastern	Sydney	NSW	61488845944
4	<input type="checkbox"/>	33	Europe	France	Europe - Central	Paris		
5	<input type="checkbox"/>	49	Europe	Germany	Europe - Central	Berlin		
6	<input type="checkbox"/>	38	Europe	Ukraine	Europe - Eastern	Kiev		
7	<input checked="" type="checkbox"/>	44	Europe	UK	UK	London		441234480564
8	<input type="checkbox"/>	972	Middle East	Israel	Europe - Eastern			
9	<input type="checkbox"/>	966	Middle East	Saudi Arabia	Europe - Eastern			
10	<input type="checkbox"/>	212	North America	USA	Eastern	New York	NY	
11	<input type="checkbox"/>	303	North America	USA	Mountain	Denver	CO	17206050632
12	<input type="checkbox"/>	310	North America	USA	Pacific	Los Angeles	CA	13103616046
13	<input type="checkbox"/>	312	North America	USA	Central	Chicago	IL	
14	<input type="checkbox"/>	407	North America	USA	Eastern	Orlando	FL	19543889461
15	<input type="checkbox"/>	415	North America	USA	Pacific	San Francisco	CA	14154309940
16	<input type="checkbox"/>	602	North America	USA	Arizona	Phoenix	AZ	
17	<input type="checkbox"/>	617	North America	USA	Eastern	Boston	MA	
18	<input type="checkbox"/>	719	North America	USA	Mountain	Colorado Sprin...	CO	19704272935
19	<input type="checkbox"/>	720	North America	USA	Mountain	Denver	CO	17206050632
20	<input type="checkbox"/>	970	North America	USA	Mountain	Fort Collins	CO	19704272935

Figure 1 - All Countries and Country Codes pre-loaded with Time Zones and the object is extensible to add your own fields. Here we've added a "Sender Number" column that when used with the SMS "Sticky Sender" feature dynamically uses the defined "local" number for large metropolitan areas thus giving a "local" presence to your SMS, CTI calling and Ringless Voicemail.

	Time Zone Na...	Offset UTC ↓	Offset DST ...	Next DST Start	Next DST End	Local Time	Local Hour	Description
1	New Zealand	12.0	12.0	9/27/2020	4/4/2021	7/15/2020 12:59 PM	12	NZ is backwards because their summer starts in Sep
2	Australia - East...	10.0	10.0	10/4/2020	4/5/2020	7/15/2020 10:59 AM	10	Sydney - they do have DST but like NZ
3	Japan	9.0	9.0	1/1/1900	1/1/1900	7/15/2020 9:59 AM	9	No DST
4	Asia - Phillipines	8.0	8.0	1/1/1900	1/1/1900	7/15/2020 8:59 AM	8	No DST
5	Asia - China	8.0	8.0	1/1/1900	1/1/1900	7/15/2020 8:59 AM	8	No DST
6	Australia - West...	8.0	8.0	1/1/1900	1/1/1900	7/15/2020 8:59 AM	8	Perth - NO DST
7	Asia - Southeast	7.0	7.0	1/1/1900	1/1/1900	7/15/2020 7:59 AM	7	No DST
8	India	5.5	5.5	1/1/1900	1/1/1900	7/15/2020 6:29 AM	6	No DST
9	Moscow	3.0	4.0	3/29/2020	10/25/2020	7/15/2020 4:59 AM	4	
10	Europe - Eastern	2.0	3.0	3/29/2020	10/25/2020	7/15/2020 3:59 AM	3	
11	Europe - Central	1.0	2.0	3/29/2020	10/25/2020	7/15/2020 2:59 AM	2	
12	UK	0.0	1.0	3/29/2020	10/25/2020	7/15/2020 1:59 AM	1	
13	Atlantic	-4.0	-3.0	3/8/2020	11/1/2020	7/14/2020 9:59 PM	21	
14	Eastern	-5.0	-4.0	3/8/2020	11/1/2020	7/14/2020 8:59 PM	20	
15	Central	-6.0	-5.0	3/8/2020	11/1/2020	7/14/2020 7:59 PM	19	
16	Arizona	-7.0	-7.0	1/1/1900	1/1/1900	7/14/2020 5:59 PM	17	No DST - they always stay -7 from GMT, so in Octob
17	Mountain	-7.0	-6.0	3/8/2020	11/1/2020	7/14/2020 6:59 PM	18	
18	Pacific	-8.0	-7.0	3/8/2020	11/1/2020	7/14/2020 5:59 PM	17	
19	Alaska	-9.0	-8.0	3/8/2020	11/1/2020	7/14/2020 4:59 PM	16	
20	Hawaii	-10.0	-10.0	1/1/1900	1/1/1900	7/14/2020 2:59 PM	14	No DST

Figure 2 – The Time Zone object comes with important fields for dynamically computing time and handles Daylight Savings Time everywhere

Contact  
**Steve Roch**

Account: [Bolder CRM](#) | Owner: [Yash Ma](#)

Name: Steve Roch | Last Activity: 7/15/2020

Title: President & CEO | Birthdate:

Email: [steve@boldercrm.com](mailto:steve@boldercrm.com) | Email Opt Out:

Mobile: [\(303\) 875-7163](tel:(303)875-7163) | SMS Opt out:

Assistant: | Drip Campaign: **Installer - Co**

Asst. Phone: [\(303\) 974-8672](tel:(303)974-8672) | Stop Drip Campaign:

Number Verification + **Time Zone Anything™**

Type: Mobile | Time Zone: **Eastern**

Phone Status: Valid | Cust Current Time: **8:56 AM**

Figure 3 - Add the Time Zone Lookup plus use the Area/Country Code tables to automatically compute the Time Zone



## Drip Campaigns and Scheduled SMS

Time Zone handling is especially useful with the 360SMS Drip Campaign™ module, read more about Drip Campaigns here: [SMS Drip Campaigns](#)

When a Drip Campaign is designated as Time Zone Aware, then any drip messages that are defined for a specific time are adjusted to be scheduled so as to be delivered at the designated time based on the customer time zone. A Scheduled\_SMS.Scheduled\_Time is always your Salesforce Orgs time so either manually or programmatically the user needs to make this adjustment in their head but with Time Zone Anything the Drip Campaign handles it automatically or developers triggering their own Schedule SMS's via APEX, Process Builder or Flows can tap into the Time\_Zone.Offset\_DST\_Adjusted\_\_c proprietary formula field to programmatically adjust time whenever they want.

**When the drip is Time Zone Aware the scheduled msgs will be adjusted to be sent at the customers time.**

**Salesforce time = Mountain**

**SF Time in Mountain**

**Customer receives it @ their time as designated in the drip**

Name	Days Offset	Minutes Offset	Specific Time	Schedule Date Time
1 Installer Drip 0	0	5		7/15/2020 7:08 AM
2 Installer Drip 0.1	0	60		7/15/2020 8:03 AM
3 Installer Drip 0.2	0	120		7/15/2020 9:03 AM
4 Installer Drip 0.3	0	180		7/15/2020 10:03 AM
5 Installer Drip 1	1		9:07:00 AM	7/16/2020 9:07 AM
6 Installer Drip 2	3		2:15:00 PM	7/18/2020 2:15 PM
7 Installer Drip 3	10		12:00:00 PM	7/25/2020 12:00 PM

Scheduled Time	Time Zone	Customer Time
7/15/2020 7:01 AM	Eastern	9:01 AM
7/15/2020 7:56 AM	Eastern	9:56 AM
7/15/2020 8:56 AM	Eastern	10:56 AM
7/15/2020 9:56 AM	Eastern	11:56 AM
7/16/2020 7:07 AM	Eastern	9:07 AM
7/18/2020 12:15 PM	Eastern	2:15 PM
7/25/2020 10:00 AM	Eastern	12:00 PM

Figure 4 - Here we show a 360SMS Drip Campaign that is Time Zone Aware so the Scheduled Time is adjusted to deliver the message at the defined time based on the customer time zone rather than the normal behavior of the Salesforce Time.



## Event Reminders

Another common use case for making your Salesforce org Time Zone Aware is when sending Event Reminders either via triggered emails or via SMS. Refer to this guide for a deeper discussion of triggered SMS Event Reminders: [Triggered Scheduled SMS - Event Reminders](#)

When purchasing the Time Zone Anything™ these common formulas adjusted for the customer Time Zone are provided which are then useful as merge tags and the scheduling of the messages since time is always represented in GMT in Salesforce and therefore nightmare to communicate to the customer.

The screenshot shows a Salesforce Event record for '360SMS/1'. Key details include:

- Location:** https://www.gotomeet.me/SteveRoch
- Start:** 7/13/2020 6:00 PM (Annotated as SF Time was 6:00pm Mountain)
- End:** 7/13/2020 6:45 PM
- Type:** Meeting
- Time Zone:** Eastern (Annotated as Customer Time Zone)
- Assigned To:** Steve Roch
- Created By:** Steve Roch, 7/13/2020 5:26 PM
- Custom Fields (under 'Dates as Text Strings for Merge Tags w/ 360 Time Zone Anything - customer time'):**
  - Activity Day: 13
  - Activity Month: July
  - Activity Year: 2020
  - Activity Day of Week: Monday
  - Activity Time: 8:00 PM
  - Activity DateTime Text: Monday, July 13, 2020 @ 8:00 PM Eastern

Figure 5 - Use Time Zone Anything to add pre-created Time Zone aware custom fields - we provide these common formula fields

## Programmatic Use of Time Zone Anything

There are a variety of use cases when a Salesforce developer may want to use the features of the Time Zone Anything structure whether that be to use the Area/Country Code table to trigger specific country specific logic or use the Time Zone fields (especially Offset\_DST\_Adjusted\_\_c) to manipulate time. Here is a brief example.

```
tdc tsw Scheduled Time c + Time Zone r.Offset DST Adjusted c/24
```



## About the Author

This document and most other 360 SMS documentation is maintained by our investment partner Steve Roch, CEO of Bolder CRM. Steve is an SMS Industry expert having worked or consulted with the top three SMS Apps on the Salesforce AppExchange and also having built the popular Salesforce app [ActionGrid™](#), acquired by Conga in April-2016 and now renamed [Conga Grid™](#). Bolder CRM is the exclusive distributor of 360 SMS in the United States, Canada and the United Kingdom.

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