

## 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 <u>customers time zone</u>. 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 <u>Customers Time</u> 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.

:	Time	Zone Anythi	Country/Area Code	Time Zones	Drip Campaigns	S 🗸		
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em	selected	Country/Area Code ∨	✓ Region ↑ ∨	Country	Time Zone ∨	✓ City	✓ State ✓	Sender Number
		65	APAC	Singapore	Asia - Southeast	,		
		64	APAC	New Zealand	New Zealand			
;		61	APAC	Australia	Australia - Eastern	Sydney	NSW	61488845944
		33	Europe	France	Europe - Central	Paris		
		49	Europe	Germany	Europe - Central	Berlin		
		38	Europe	Ukraine	Europe - Eastern	Kiev		
	~	44	Europe	UK	UK	London		441234480564
;		972	Middle East	Israel	Europe - Eastern			
)		966	Middle East	Saudi Arabia	Europe - Eastern			
.0		212	North America	USA	Eastern	New York	NY	
1		303	North America	USA	Mountain	Denver	CO	17206050632
2		310	North America	USA	Pacific	Los Angeles	CA	13103616046
.3		312	North America	USA	Central	Chicago	IL	
4		407	North America	USA	Eastern	Orlando	FL	19543889461
.5		415	North America	USA	Pacific	San Francisco	CA	14154309940
.6		602	North America	USA	Arizona	Phoenix	AZ	
.7		617	North America	USA	Eastern	Boston	MA	
.8		719	North America	USA	Mountain	Colorado Sprin	CO	19704272935
9		720	North America	USA	Mountain	Denver	CO	17206050632
0.		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.

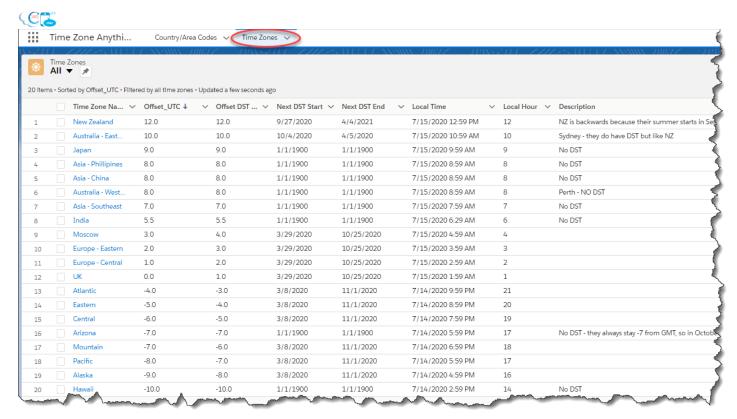


Figure 2 – The Time Zone object comes with important fields for dynamically computing time and handles Daylight Savings Time everywhere

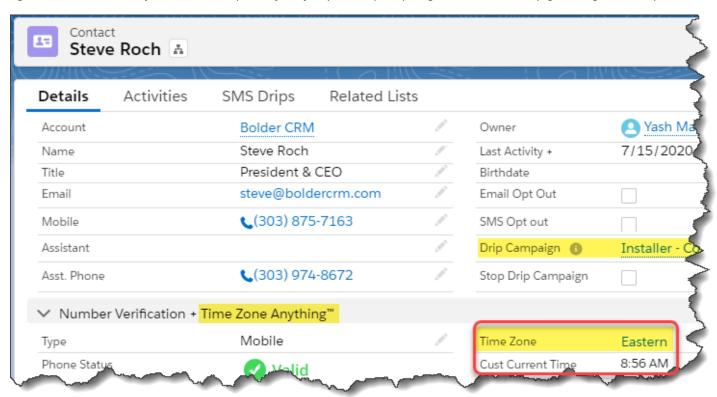


Figure 3 - Add the Time Zone Lookup plus use the Area/Country Code tables to automatically compute the Time Zone



## **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.

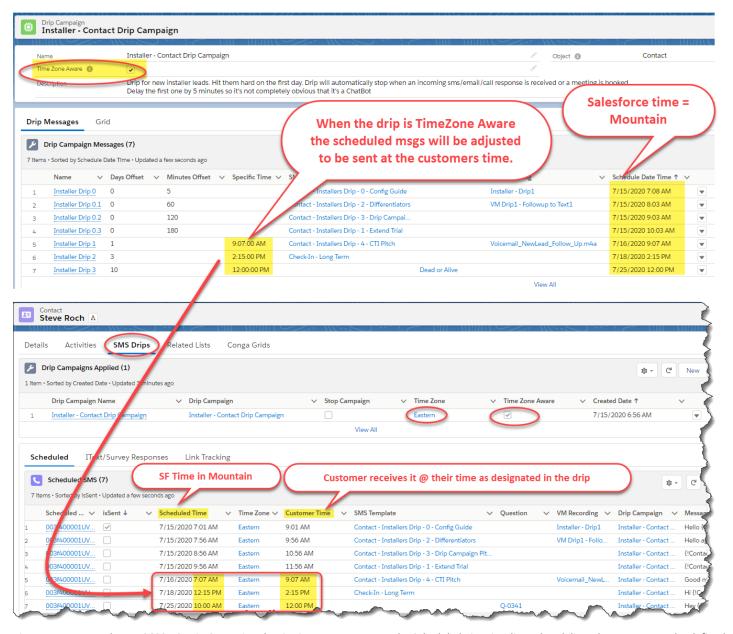


Figure 4 - Here we show a 360SMS Drip Campaign that is Time Zone Aware so the Scheduled Time is adjusted to deliver the message at the defined time based on the customer time zone rather than the normal behavior of the Salesforce Time.



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: <a href="Triggered SMS - Event Reminders">Triggered SMS - Event Reminders</a>

When purchasing the Time Zone Anything<sup>™</sup> 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.

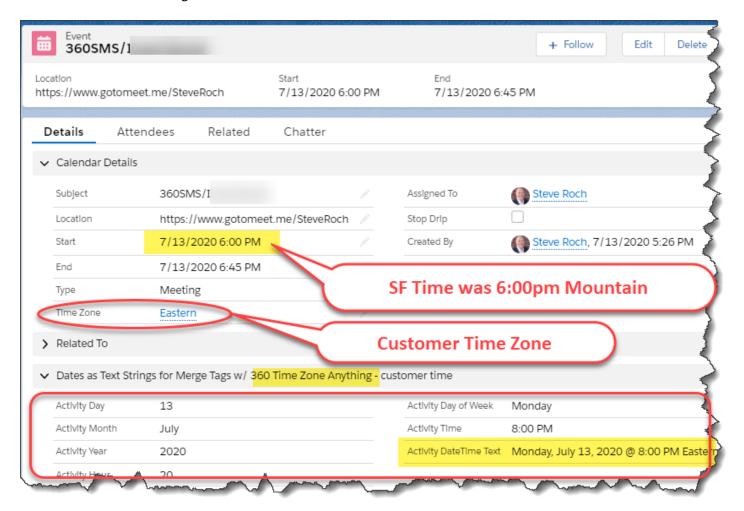


Figure 5 - Use Time Zone Anything to add pre-created Time Zone aware custom fields - we provide these common formula fields

## **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 <u>ActionGrid™</u>, acquired by Conga in April-2016 and now renamed <u>Conga Grid™</u>. Bolder CRM is the exclusive distributor of 360 SMS in the United States, Canada and the United Kingdom.

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