



For easy copy/pasting the formula is below, just change to your Phone field.

```

/* Strips out all special characters so we can know that the first 3
are the area code */
SUBSTITUTE (
SUBSTITUTE (
SUBSTITUTE (
SUBSTITUTE (
SUBSTITUTE (
SUBSTITUTE (
SUBSTITUTE (
SUBSTITUTE ( Phone ,
" (", ""),
" )", ""),
" ", ""),
" -", ""),
"+1", ""),
"+", ""),
"x", ""),
".", ""))

```

Figure 2 - Clean phone number formula text

Secondly, we create the Area Code formula field. For easy copy/pasting the formula text is on the next page.

Contact Custom Field

Area Code

[Back to Contact Fields](#)

Custom Field Definition Detail Edit Set Field-Level Security View Fields

Field Information

Field Label	Area Code
Field Name	Area_Code
API Name	Area_Code__c
Description	Area Code formula used to compute the SMS sender number

Formula Options

Data Type	Formula
	IF(AND(ISNUMBER(LEFT(Phone_Unformatted__c,3)), LEN(Phone_Unformatted__c) = 10), LEFT(Phone_Unformatted__c , 3), /*simply grab the first 3 cuz it's a USA number*/ /* ELSE it's either not a number somehow, or it's a non-USA so we'll get the country code LEFT(Phone_Unformatted__c , 2))

Figure 3 - Area Code formula field



```
IF( AND( ISNUMBER(LEFT(Phone_Unformatted__c,3)), LEN(Phone_Unformatted__c) = 10 ),  
LEFT(Phone_Unformatted__c , 3), /*simply grab the first 3 cuz it's a USA # */  
/* ELSE it's either not a number, or it's a non-USA so we'll get country code */  
LEFT(Phone_Unformatted__c , 2)  
)
```

Figure 4 - Area Code formula field text

Record based Sender Number (Sticky Sender) Explained

360 SMS allows one to create a custom field named specifically **Sticky_Sender__c** (you can label it any way you like). This is a custom formula field that can hold any business logic that one wants, such as Geography-Based numbers, Record.Owner based numbers or in this case it will match an SMS Number to a customers Area Code.

If the Sticky_Sender field exists, all interface elements of the platform (Buttons and Conversation View) will override the current users Default SMS Number and instead offer this field value as the default. For example, a marketing user may want to select a large list of contacts for batch SMS but want the Sender Number to pull from the sticky sender. This also helps distribute batch SMS among multiple numbers thereby reducing spam detection.

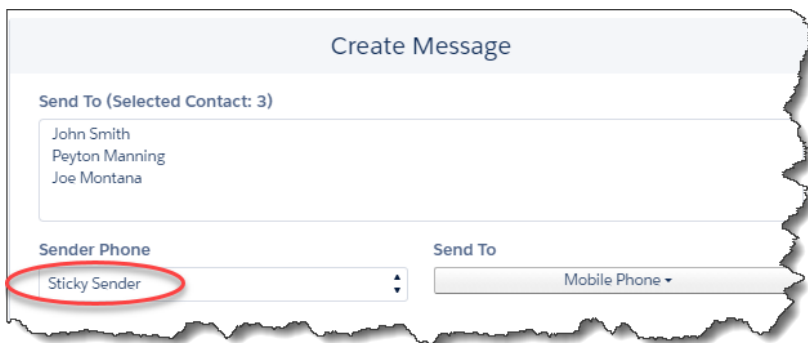


Figure 5 - When a sticky sender formula field is defined - it will default as the Sender Phone for batch, single and convo view

Programmatically, one references the Sticky Sender number field to make sure messages are coming from the correct number and to concentrate the business logic in the formula field.



Record Type*

Scheduled SMS

Set Field Values

Field*	Type*	Value*
Scheduled Sms Name	Field Reference	[Contact].Id
Phone Apl	String	MobilePhone
Related Object Id	Field Reference	[Contact].Id
SMS Template	ID	a08f40000Ry4HKAZ
Sender Number	Field Reference	[Contact].Sticky_Send...

+ Add Row

Figure 6 - Use the sticky sender field for your Sender Number to be consistent and concentrate your business logic in the formula field

Sticky Sender formula

In this simplified formula we use a CASE statement from the new Area Code field to set the Sender Numbers that we have purchased. And if the area code doesn't match the ELSE portion of the CASE statement sets it to a 972 number.

Contact Custom Field
SMS Sender Num
[Back to Contact Fields](#)

Custom Field Definition Detail

[Edit](#) [Set Field-Level Security](#) [View Field Accessibility](#) [Where is this used?](#)

Field Information

Field Label	SMS Sender Num
Field Name	Sticky_Sender
API Name	Sticky_Sender__c
Description	Record Based SMS Sender Number matching customer area code with corresponding SMS Sender Number
Help Text	
Data Owner	
Field Usage	
Data Sensitivity Level	
Compliance Categorization	
Created By	Cagney.McCormick, 11/28/2019 12:14 PM

Formula Options

Data Type	Formula
SR 11.28.19 - Record Based SMS Sender Number matching customer area code with corresponding SMS Sender Number	<pre> ***** CASE(Area_Code__c , '214', '12149491117', '469', '14693737477', '972', '19724400469', /*add more area codes and sender numbers when purchased*/ '19724400469') </pre>



Note that Salesforce has a 5,000 character limit on formula fields so with this customer we actually created an Area Code object and lookup field on the Contact and we use a combination Process Builder and Flow to lookup the area code. A few screen captures below:

The screenshot shows the Salesforce interface. At the top, there is a search bar and a 'Switch to List' button. Below that is a navigation bar with several tabs: 'Matters (SMS Grid)', 'Conversation Mng', 'Area Codes' (highlighted with a red circle), 'SMS Template Folders', 'Voice Templates', and 'SMS From Reports'. Below the navigation bar, there are buttons for 'All', 'Edit', 'Delete', and 'Create New View'. The main content area displays a table with columns for 'Action', 'Area Code Name', 'Sender Number', and 'Description'. The table contains 15 rows of data, each representing an area code and its corresponding sender number and location.

Action	Area Code Name	Sender Number ↑	Description
<input type="checkbox"/> Edit Del	956	(210) 519-0148	San Antonio
<input type="checkbox"/> Edit Del	210	(210) 519-0148	San Antonio
<input type="checkbox"/> Edit Del	830	(210) 519-0148	San Antonio
<input type="checkbox"/> Edit Del	361	(210) 519-0148	San Antonio
<input type="checkbox"/> Edit Del	832	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	281	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	713	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	979	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	409	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	936	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	346	(281) 559-6301	Houston
<input type="checkbox"/> Edit Del	405	(405) 357-9059	Oklahoma City
<input type="checkbox"/> Edit Del	580	(405) 357-9059	Oklahoma City
<input type="checkbox"/> Edit Del	936	(405) 357-9059	Oklahoma City
<input type="checkbox"/> Edit Del	903	(430) 200-5265	Texarkana East Texas

Figure 7 - Use an Area Code object to map Area Codes to a corresponding local/regional Sender Number



Edit Contact Custom Field
SMS Sender Num

Custom Field Definition Edit		Save	Quick Save	Cancel
Field Information				
Field Label	<input type="text" value="SMS Sender Num"/>			
Field Name	<input type="text" value="Sticky_Sender"/>			
Description	<input type="text" value="Record Based SMS Sender Number matching customer area code with corresponding SMS Sender Number"/>			

Insert Field

SMS Sender Num (Text) =

```

/*****
SR 11.28.19 - Record Based SMS Sender Number matching customer area code with corresponding SMS Sender Number
*****/
IF (NOT(ISBLANK( AreaCodeMatch__c ))),

  /*THEN cleanup the sender number and add the 1 country code for USA*/
  '1' &
  SUBSTITUTE (
  SUBSTITUTE (
  SUBSTITUTE (
  SUBSTITUTE (
  SUBSTITUTE (
  SUBSTITUTE ( AreaCodeMatch__r.Sender_Number__c ,
  "(", "" ),
  ")", "" ),
  " ", "" ),
  "_", "" ),
  "+", "" ),
  ".", "" ),

  /*ELSE we can't find a matching area code so we'll use the 972 default */
  '19724400469'
)

```

Figure 8 - the new Sticky Sender formula



Define Criteria for this Action Group

Criteria Name * **i**
New Or Phone Changes

Criteria for Executing Actions *
 Conditions are met
 Formula evaluates to true
 No criteria—just execute the actions!

Build Formula

Insert: Field **Q** Function **Q** System Varia... **Q** Operator **v**

```
/*  
SR 12.18.19: When record is new or phone changes we call a flow to resolve the Area Code  
lookup which in turns is used for the SMS Sticky Sender (Sender Number match by regional  
area code)  
*/  
OR (  
  ISNEW(),  
  ISCHANGED([Contact].Phone)  
)  
&&  
NOT(ISBLANK([Contact].Phone))
```

Save Cancel Delete

Launch a Flow **?**

Action Name * **i**
Area Code Finder

Flow * **i**
Area Code Finder

Set Flow Variables

Flow Variable *	Type *	Value *
vAreaCode	Field Reference	[Contact].Area_Code... Q x
vContactId	Field Reference	[Contact].Id Q x

+ Add Row

Figure 9 - Create a process builder on the Contact which calls a flow to populate Area Code Lookup

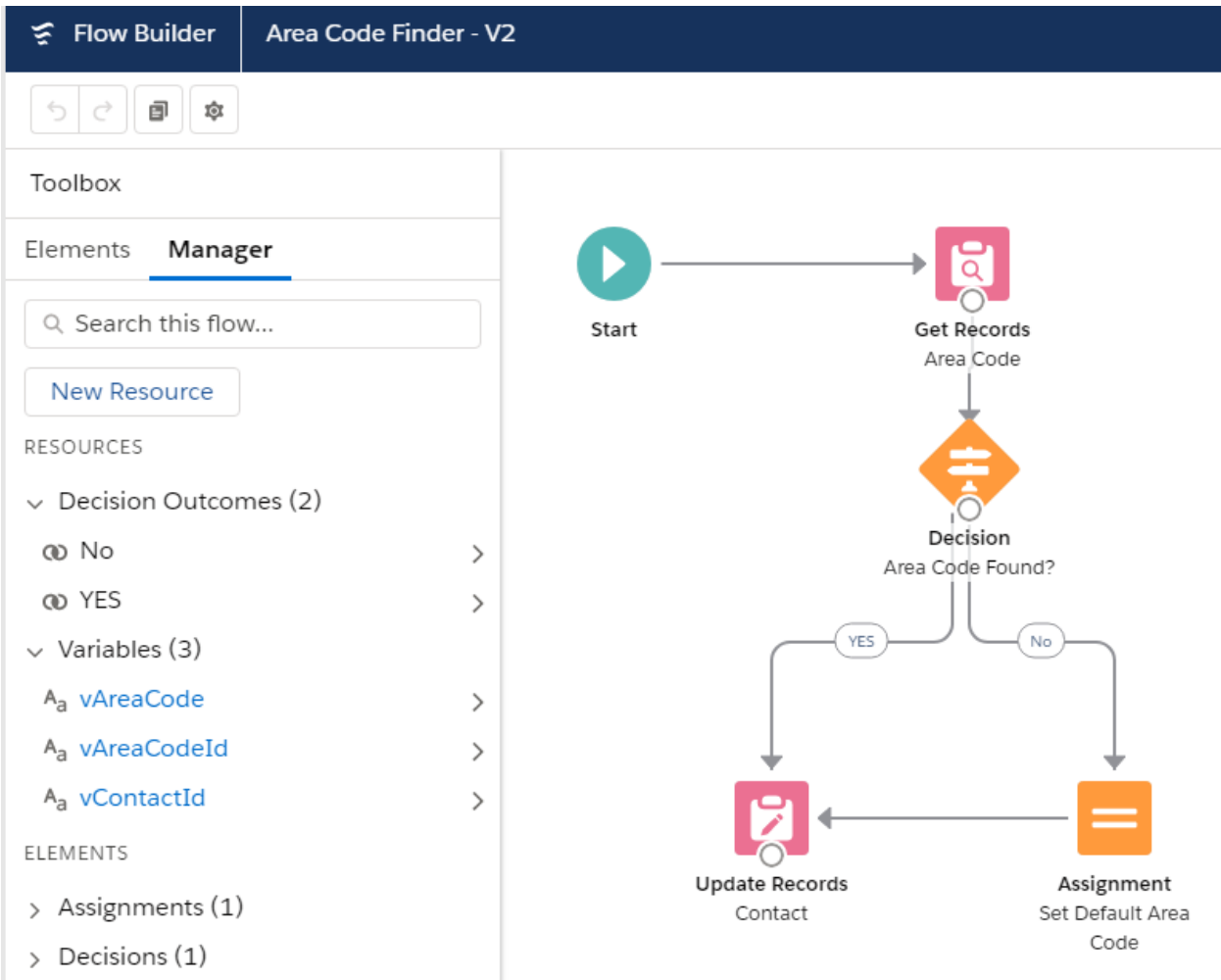


Figure 10 - Simple flow to lookup the area code from the Area Code table and update the Contact record Area_Code lookup field which in turn is used in the Sticky_Sender formula



About the Author

Steve Roch, CEO of Bolder CRM 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. Bolder CRM is the exclusive distributor of 360 SMS in the United States, Canada and the United Kingdom.

Learn more about Steve and Bolder CRM at <https://www.BolderCRM.com> and <https://www.linkedin.com/in/steveroch/>