



Using Geocoder

Before following this manual, check if all configurations were correctly made

1. With Geocoder opened, click on *Options* on the top left corner. Copy the *Licenses Keys* (Application, Bing and Google) and save. Application will work if only one Map Key, but the Application Key is mandatory.

The screenshot shows the "RTS External Geocoder (Beta)" application window. It has a menu bar with "Options" and "About". The main area is divided into several sections: "Data Source" (w2012R2/64), "Driver" (SQLNCLI11.DLL), "Server Version" (12.00.5000), "Database Name" (SALESDEMO), and "RTS Schema Version" (3.8.2.1). There are also fields for "Region" (TREINA [1818]), "Geocode Quality" (9999 - ALL), "Creation Date" (04/01/2017 to 09/08/2017), and checkboxes for "Exclude Verified Locations" and "Filter Locations Limit" (500). A "FILTER LOCATIONS" button is present. On the right, there's a "Source" dropdown (BING), "Locations Selected" (0), "Locations Geocoded" (0), and radio buttons for "Geocode By Postal Code (Bad Address)" and "Geocode By Postal Code (Any Address)". A "GEOCODE LOCATIONS" button is at the bottom right. A large "omnitracs innovation. driven." logo is on the far right. An "Options" dialog box is open in the center, showing fields for "License Key" (with an expiration date of 20/06/2018), "Bing API Key", "Google API Key", and a "SAVE" button. At the bottom of the main window, there are "RESET", "VIEW ON MAP", and "SAVE TO RTS" buttons.

If you get a License Key expiration warning. Contact OmnitracS do Brasil Support team for a new Application License key.

- Geocoder automatically loads the RTS regions. Choose on the filter box (second from the left), the region, Geocode Quality, dates, Exclude Verified Locations option, Location Limit filter and click the button *Filter Locations*. The number between brackets represents the number of clients on that region. The dates are predefined to show the first and last client registered, but you can change de values any time and re-run the filter pushing the button *Filter Locations*. This step only shows the data according to the selected filters.

RTS External Geocoder (Beta)

Options About

Data Source: W201212-04
Driver: SQLNCLI11.DLL
Server Version: 12.00.5000
Database Name: SALESDEMO
RTS Schema Version: 3.8.2.1

Region: TREINA (1818)
Geocode Quality: 9999 - ALL
Creation Date: 04/01/2017 - 09/08/2017
☒ Exclude Verified Locations
☐ Filter Locations Limit: 500

Source: BING
Locations Selected: 0
Locations Geocoded: 0
☒ Geocode By Postal Code (Bad Address)
☐ Geocode By Postal Code (Any Address)

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#	ID	DESCRIPTION	ADDRESS (LINE1)	City	ST	POSTAL	CTRY	QUALITY	S	V	LAT	LON	CR DATE
1	00000001	Bar e Lanches 108	R Rua Haddock Lobo 400	SAO PAULO	SP	01414001	BR	STREET EXACT	R	-23.556652	-46.660454	2017/02/07	
2	00000007	Auto Posto 008	Av Antartica 383	SAO PAULO	SP	05003020	BR	STREET EXACT	R	-23.527257	-46.673955	2017/02/07	
3	00000008	Restaurante 584	R Das Palmeiras 403	SAO PAULO	SP	01226010	BR	STREET EXACT	R	-23.536173	-46.652988	2017/02/07	
4	00000010	Auto Posto 009	Av Antartica 588	SAO PAULO	SP	05003020	BR	STREET EXACT	R	-23.528965	-46.676475	2017/02/07	
5	00000011	Bar e Restaurante 25	Av Sao Gabriel 445	SAO PAULO	SP	01435001	BR	STREET EXACT	R	-23.50098	-46.670682	2017/02/07	
6	00000015	Bar e Restaurante 26	R Batataes 444	SAO PAULO	SP	01423010	BR	STREET EXACT	R	-23.57005	-46.675292	2017/02/07	
7	00000016	Padaria 620	R Helio Penteado 1840	SAO PAULO	SP	05430300	BR	STREET EXACT	R	-23.54315	-46.634837	2017/02/07	
8	00000017	Padaria 621	R Helio Penteado 379	SAO PAULO	SP	05437000	BR	STREET EXACT	R	-23.543707	-46.63024	2017/02/07	
9	00000019	Padaria 706	R Cao Gracco 110	SAO PAULO	SP	05044000	BR	LOW CONFIDENCE	R	-23.57392	-46.554364	2017/02/07	
10	00000020	Padaria 631	R Das Taboas 253	SAO PAULO	SP	05445020	BR	STREET EXACT	R	-23.550478	-46.638319	2017/02/07	
11	00000022	Auto Posto 011	Av Francisco Matarazzo 2027	SAO PAULO	SP	05001400	BR	STREET EXACT	R	-23.529553	-46.673757	2017/02/07	
12	00000023	Bar e Restaurante 29	R Peixoto Gomide 1724	SAO PAULO	SP	01409002	BR	STREET EXACT	R	-23.565744	-46.633095	2017/02/07	
13	00000024	Bar e Restaurante 29	R Peixoto Gomide 1901	SAO PAULO	SP	01409003	BR	STREET EXACT	R	-23.56802	-46.644546	2017/02/07	
14	00000026	Mercado 089	R Da Consolacao 3594	SAO PAULO	SP	01416000	BR	STREET EXACT	R	-23.563236	-46.671037	2017/02/07	
15	00000029	Parificadora 236	Al Lorena 1564	SAO PAULO	SP	01424002	BR	STREET EXACT	R	-23.563728	-46.689996	2017/02/07	
16	00000030	Padaria 629	Pz Gen Oliveira Alvares Sn	SAO PAULO	SP	05436110	BR	USER SUPPLIED	G	-23.551081	-46.685369	2017/02/07	
17	00000031	Bar e Lanches 104	R Oscar Freire 384	SAO PAULO	SP	01426000	BR	STREET EXACT	R	-23.565894	-46.665769	2017/02/07	
18	00000034	Padaria 712	R Catão 580	SAO PAULO	SP	05049000	BR	STREET EXACT	R	-23.526089	-46.700725	2017/02/07	
19	00000037	Bar e Restaurante 31	R Ruy Gavião Peixoto 32	SAO PAULO	SP	05078000	BR	STREET EXACT	R	-23.525162	-46.710484	2017/02/07	
20	00000039	Padaria 630	R Das Taboas 110	SAO PAULO	SP	05445020	BR	STREET EXACT	R	-23.551526	-46.637499	2017/02/07	
21	00000042	Auto Posto 026	R Celia 604	SAO PAULO	SP	05042000	BR	STREET EXACT	R	-23.524905	-46.687602	2017/02/07	
22	00000043	Lancheteria 361	Av Rua Carlos Weber 3836	SAO PAULO	SP	04574120	BR	USER SUPPLIED	G	-23.528845	-46.729609	2017/02/07	
23	00000045	Lancheteria 488	R Henrique Schaumann 203	SAO PAULO	SP	05413020	BR	STREET EXACT	R	-23.562688	-46.673287	2017/02/07	

RESET VIEW ON MAP SAVE TO RTS

- Select the locations that will be geocoded checking the box on the left as the next picture shows. The first column header inverts the selection of all locations, for example, if all boxes are blank, clicking on the header will check all boxes.

RTS External Geocoder (Beta)

Options About

Data Source: W201212-04
Driver: SQLNCLI11.DLL
Server Version: 12.00.5000
Database Name: SALESDEMO
RTS Schema Version: 3.8.2.1

Region: TREINA (1818)
Geocode Quality: 9999 - ALL
Creation Date: 04/01/2017 - 09/08/2017
☒ Exclude Verified Locations
☐ Filter Locations Limit: 500

Source: BING
Locations Selected: 1811
Locations Geocoded: 0
☒ Geocode By Postal Code (Bad Address)
☐ Geocode By Postal Code (Any Address)

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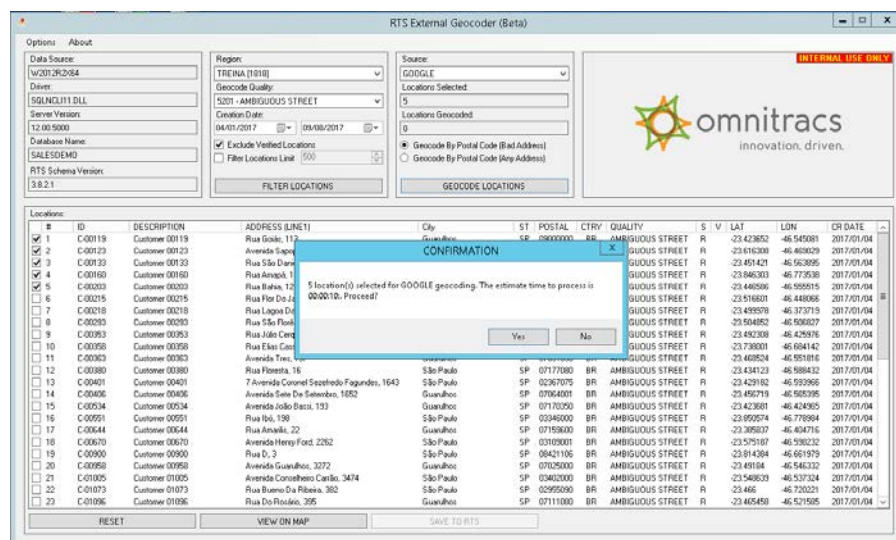
RESET VIEW ON MAP SAVE TO RTS

On the box *Source* (third from the left), select Bing or Google and click the button *Geocode Locations* to process the selected locations. Verify if all parameters are correct and click Yes.

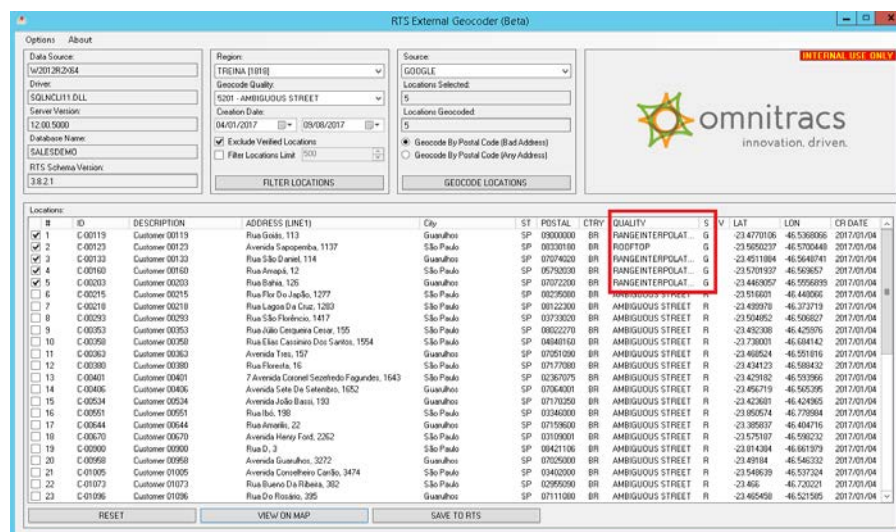
The first option above the button *Geocode Locations*, *Geocode By Postal Code (Bad Address)*, uses the address as basis and if it is incomplete, the ZIP code will be used to geocode. The second option *Geocode By Postal Code (Any Address)* uses only the ZIP code as basis.

The minimum parameters to use Bing as a source are: City, State, complete ZIP code and country. If any of this fields are blank, the quality will show as MISSING DATA.

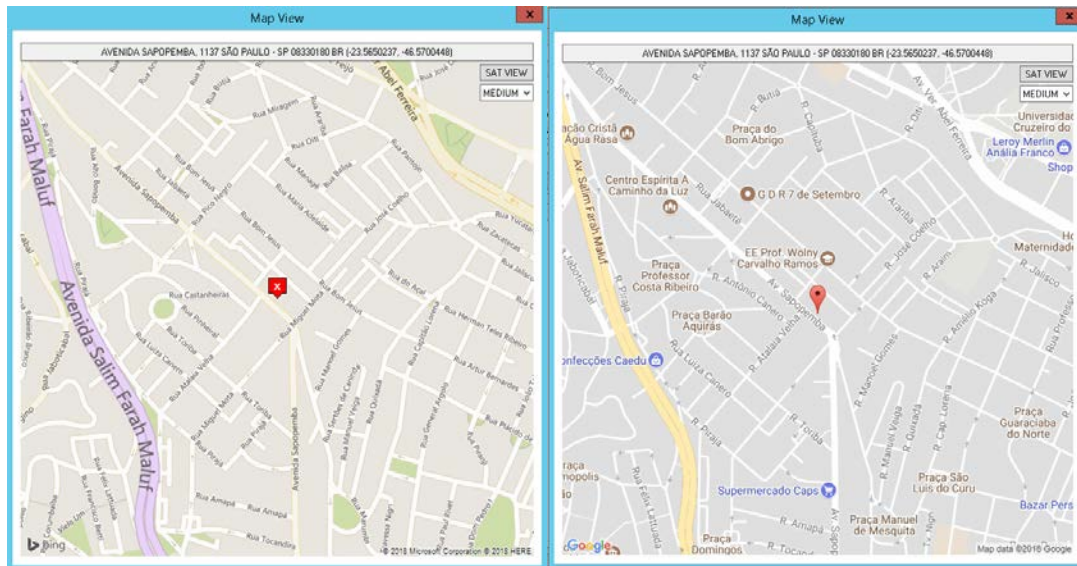
Using Google as source, the minimum parameters are the ZIP code and country. If any of this fields are blank, the quality will show as MISSING DATA.



- After geocoding, the quality will change according to the chosen source and the column "S" will be filled with the source initial. Using Bing it will fill with a B and using Google with a G. Locations that were geocoded or not geocoded in Roadnet will appear with a R. This does not mean that the locations cannot be geocoded with Geocoder.



5. To see the location on the map, click the button *View On Map* and it will open a new window with the Map View. This can be done before or after geocoding and the parameters for the visualization are latitude and longitude. The source will be the same that it is selected on the box *Source*. On the *Map View form* there is the possibility to show the satellite view (*Sat View*) and change the zoom (*Low, Medium, High*).



6. The button *Save to RTS* save the new data directly to Roadnet DB. It will only save the locations selected.
7. The button *Reset* on the bottom clears all the data on the screen as if the program was just opened. Any modification made and not saved will be lost by clicking on this button.
8. To verify the new data on Roadnet, the locations modified using Geocoder will have the field “Alternate Contact” filled with the same description of quality from the tool.

[illegible]