# WIALON QUICK GUIDE





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	User: Password: Language: Remember	username •••••••• english T on this computer Enter assword?	

# 2. INTERFACE

You have entered the monitoring site. On the left there is the work area. Here you switch between panels like *Monitoring, Tracks, My Places, Geofences, Notifications, Jobs* and so on.

On the right there is usually the map. There can also be reports, messages, log, etc. - it depends on the mode chosen. The modes (*Map, Messages, Reports*) are changed in the mode-switch panel over the work area.



Dragging the map with the mouse and zooming it with the mouse scroll, move to the location (city or town) which

will be the basic for you in the tracking process.

# 3. USER SETTINGS

Now open the *User Settings* dialog (click the link *settings* at the top). First and foremost, indicate your time zone. This setting is extremely important as it affects time data in reports, messages, tooltips, jobs, routes, and everywhere throughout the service.

In the same dialog move to the *Maps* tab and tick the box *Store coordinates and zoom*. With this, the current map position will be stored and used for further logins to the monitoring site.

At the end press OK to apply new settings.

User Settings								
Settings Monitoring Panel Maps Account								
Time zone: (00:00) GMT: Dublin, Edinburgh, Lisbon, London ▼ Daylight saving time: E-mail: username@domain.com								
Enable public access to locator page:  City:								
User Settings								
Settings Monitoring Panel Maps Account								
Store coordinates and zoom: Reset WebGIS server URL: Enable Google Maps: Enable Microsoft Virtual Earth:								
Enable Yandex Maps:								

Preparatory work is finished. Now let's create a tracking unit.

# 4. CREATING UNIT

(1) Before configuring a unit, make sure the device is directed to Wialon. For more information on server IP, port, phone number and the like, find your type of device in the like of supported devices and set the required parameters.

Open the Units panel in the work area and press the Create Unit button.

🚗 Units				~		
	Create Unit	×	>			
Units 🔗						

The dialog with multiple unit settings will be displayed. Give a name to the unit, select device type from the list of available devices, enter unique ID (IMEI or serial number) and the phone number of the SIM-card inserted in the device.

General	nage Advanced	Sensors	Logs	Custom Fields	Unit Groups	Trip Detection
Fuel Consumption	Service Intervals					
* Name: from 4 to 50 charact	Test_Unit					
Device type:	Xexun TK-103	•				
Unique ID:	1357924680					
Phone number:	+2070287382					
Device access pass	word:					

The *Image* tab of the dialog provides an opportunity to choose the most appropriate image to display the unit on the map. Press the *Image Library* button and choose one.

Ger	neral	l Ir	nage	Ad	vanced	5	Sensors	;	Logs		Custom	Fields	Unit	Groups	s Tri	p Detec	tion
Fuel	Fuel Consumption Service Intervals																
	Current image:																
			Bro	owse													
٢		$\underline{\mathbb{A}}$	$\triangle$	۵	•			<b>?</b>	2	معنی	æ	à	i de la constante de la consta		Service		
			20	Ξ	60		Ê	100	100		0	a star a		×,	, and the second		
*	۲	1	E	۲		4	<b>1</b>		Ø	P	8			٨	×	5	
1	-	5	4	0.0		٢	٨			2		<b>F</b>	<b>F</b> arran	Į (4)	<₿		
	<b>*</b>	0	<u>چ</u>			$\bigcirc$	P	۰ <u>۴</u>		۲	Δ	7.9.000	٦	200	Î	Ś	
010	Ņ	0	K.	(A)	4	<u>چ</u>		0				1	1	0	۲	٩	•

On the Advanced tab specify Speed limit, km/h. This setting is used to generate reports on speedings.

General	Image	Advanced	Sensors	Logs	Custom Fields	Unit Groups	Trip Detection				
Fuel Consumption Service Intervals											
Parameters use	d in reports:										
Speed limit, km		100									
Urban speed lin	nit, km/h:		60								
Maximum interv	val between m	nessages, seconds:	0								
Daily engine hours rate, hours:			0								
Mileage coeffici	ent:		1								

At the end press OK button. The newly created unit will appear on the list.

👄 Units		≈
	Create Unit *	>
	Units	₽
Test_Unit		I 🔮 🕒 🚱

It will also appear in the monitoring panel.

😪 Monitoring	$\approx$
🗖 Units 💌 💌 🔽	ی 🖓 🔅 🧑 🖌
🗖 🦪 Test_Unit	II 🛇 🏷 🚺 🗨 🙄

# 5. UNIT CHECK

### a) Log

After creating a unit, data from it starts coming in the system as long as the unit is configured correctly. Each incoming message appears in the *log*. Io see the log, open it pressing the button in the bottom right-hand corner of the program.

Petersfield Billingshurst Haywards Heath Midhurst Petworth Burgess Hill Uckfield Heathfie	d Robertsbridge
14:58:49: Item 'Test_Unit' was successfully created.	
14:58:49: Item 'Test_Unit' was successfully updated.	LASS CALL
14:59:38: SMS from unit 'Test_Unit' was received: PC,0001,15/12	
/10,14:59:39,5546.1250,N,03738.9898,E,34.0km,315.6,A,010004.	
14:59:38: New position of unit 'Test_Unit' was detected at 14:59:39:34.0km,315.6	A,010004.
20 km Bognor Regis Peacehaven Easth	
N 51º 13.0	0588': E 000° 14.7118'
	ctures 🔟   log 🔗

Except messages coming from tracking units, the log also shows current actions and operations such as creation and modification of geofences, notifications, unit properties, etc.

### b) Unit info tip

Tick the unit on the tracking list in the Monitoring panel to see its position on the map.



Hover the mouse pointer over the unit to see the latest data in a tooltip: last message time, location (address or coordinates), speed, etc.



### c) Messages Mode

The most reliable way to check unit operability is to view its messages. To switch to the Messages Mode, click on the *messages* link over the work area. Then select an interval to get messages for, and press *Execute*.Results appear on the right. There you can estimate how many messages were received during the indicated period and what kind of data they present. Besides, the track of unit movements is shown on the map.

🖬 map	🔽 messages	🔽 reports		CEHAI	1.5	Contraction of the	All the
Unit:	Test_Unit	<u>.</u>		nberge Burgwi	edel	5-462 K2 TS	Grhom
From:	7 Mar 20	10 00:00		Largert	Burgdo	et and the	
Fo:	7 Mar 20	10 08:59	1	Seelar	-	marthe	Wolfsburg
Messages type:	Data mes	ages 💌	of	Hannover	Lefirte		18 1 2 1
Show parameters	as: Raw data	•	singhaus	en Gerinden Hemmingen	Sennde	Peine	Kathan
Ex	ecute	Clear	1	9 km 9 mi	1-1	Bra	Köngslutter am Elm
	Statistics			some	der	manna	N 52º 29.5189' 1 E 009º 2
Total messages:	695			Time	Speed	Coordinates	Location
Total time:	0 days, (	08 h. 59 m. 09 s.	1	2010-03-07 00:00:4	7 0	52.439574, 9.734838 (9)	Walsroder Straße, Langenhage
)istance:	52.57 m	i.	4	2 2010-03-07 00:01:4	8 0	52.439578, 9.734874 (10)	Walsroder Straße, Langenhage
verage speed:	5.85 mi/	h		3 2010-03-07 00:02:4	8 0	52.439475, 9.734907 (10)	Walsroder Straße, Langenhage
laximum speed	: 114.89 n	ni/h	_	2010-03-07 00:03:4	9 0	52.439578, 9.734786 (10)	Best Western Nordic Hotel Amb
				2010-03-07 00:04:5	i0 0	52.439597, 9.734806 (10)	Best Western Nordic Hotel Amb
				2010-03-07 00:05:5	i0 0	52.439536, 9.734854 (10)	Walsroder Straße, Langenhage
	Messages play	/er		2010-03-07 00:06:5	i0 0	52.439526, 9.734888 (9)	Walsroder Straße, Langenhage
	Export messag	jes					
				△ 50 -1 14 4	Page 1	of 14 🕨 🔰 Displa	ying 1 to 50 from 695 messages

# 6. CREATING GEOFENCES

Geofences are to be created in places of interest, which should get under control. For this, go to the *Geofences* panel in the Map Mode and press the *Create Geofence* button.

	🔽 map (1) 🔽 mess	ages (2	)   🗹 re	ports (	3)	
	Geofences		×			2
L All der	nport/Export Create Ge	eofence	°		>	<b>.</b>
	Geofences	- 🚔	<i>i</i> n	e	C	

The simplest and quickest geofence type to create is *circle* with specified radius. Enter name for the geofence and select the type *Circle*. Then double-click on the map in the place of supposed geofence. Alter the radius if necessary and press *Save*.

🔄 Geofences		~	ez quare	TR Case of Elle	
×	>		Brickfield Gard	Langdon Park	Canni
All geofences		-			
Geo	fence properties		THE THE PARTY OF	Poplar Park	Keir Hardie Park
Name:	Geofence 1		Le cont	Al261	
Туре:	Circle		Salare	Blackwall Basin	
Width / Radius (m):	950			Jubilee Park	$\mathbb{N}$
Area:	1.093 m², (30503155.640 ft²)		Russia Dock Woodland	ALL BOAL	
Perimeter:	3.707 mi, (19578.405 ft)		hada Water	Isle of Dogs	37600
Address source:			ark action to the second		
Ride beginning:				Contraction of the	
Ride end:					
Color:			opper pepys pa ay Emban kments	Island Gardens	
Cancel	Clear Save		use Meadows	PAN AND	Greenwich
Geofenc	es 🚔 👖 🔗	0	EN AT		
			Fordham Park		X
			STILL CON	Ball Contraction	Blackheath

In a similar way, create as many geofences as necessary.

(1) If you need a geofence of a more sophisticated form, choose type *Polygon* or *Line*. However, in this case a greater number of points is required to specify geofence's borders.

# 7. NOTIFICATIONS

Now we can create a notification about a unit entering a geofence. Go to the *Notifications* panel and press the *Create Notification* button.

Create Notification *		>	
Notification	🔿 🛔 🖂	fl 🚊	

Moving through the dialog with the help of the Next button, set the following parameters for the notification:

- 1. Select your unit (tick it).
- 2. Choose a control type, particularly, Geofence control.
- **3.** Specify a check type *Control entries to a geofence*, and select geofence(s) to be controlled on the list below. To select several geofences, press the CTRL key on the keyboard and tick necessary geofences.
- 4. Leave default notification text without changes.
- 5. Choose a method of delivery, for example, Display online notification in a popup window.
- 6. Key in a name for the notification.
- 7. Press OK.

When the notification triggers, it will appear in the top right corner of the program.

	Test_Unit	Notification 1 🗖 🗵
<b>汉</b> 漏論	Test_Unit arrived to Geofence 1. At 2010-12- with speed 50 km/h near Roffey Street, 14, L	17 09:18:06 it moved .ondon, GB.
Island Gardens		SALA SELECT
Greenwich	The second second second	
	close   delete all   delete	read
CAN STO	Working Comme	and the second sec
	Woolwich Common	Shrewsbury Park

# 8. REPORTS

Nam Contents

To go to the Reports Mode, use the mode-switch panel above the work area. Click the <i>Reports</i> link to move to the Reports Mode	🗹 map (1)   🗹	messages (2) 🔽 re	ports (3)
	Report template:		• 3
First of all, you need to have at least one report template to	Object:		• 3
generate a report according to parameters set there.	Interval type:	Specified interval	•
	From: 17 Dec 201		
tables (visits to geofences and speedings) and a chart.	To:	17 Dec 2010 23:59	
	Execute Clear	Print	Export to File
To create a report template, press the Create Template	R	eport templates	
button. At the top of the template properties dialog you see two important buttons - Add Table and Add Chart.	Create Tem	nplate *	>
-Report properties			
Name: Type: Unit Add Table Add Chart			

Ì Ì

😥 🗹 Map output	
E Statistics	
"	المراجع المراجع

Advanced settings

resulting report. On the right choo	se geofence(s). When finished	, press OK.	
Table properties			

Name: Geofences Type: Geofences	
Available columns	Parameters
🔽 Geofence	↑ I Group by: Detailed -
🗖 Туре	1 I Row numbering
🗖 Area	↑ ↓ □ Total
🗖 Perimeter	↑ ↓ □ Time limitation
🔽 Time in	↑ ↓ □ Geofences
🔽 Time out	↑ ↓ [] Search mask: × >
Duration in	↑ ↓ [] Geofence 1
Parkings duration	↑ ↓ □ Geofence 2
🔽 Mileage	↑ ↓ □ Duration
🗖 Mileage (adjusted)	🕇 🖡 🛄 🔲 🔲 Min duration, min
🔽 Avg speed	1 🖡 🚺 🔲 🥅 Max duration, min
🔽 Max speed	↑ ↓ [] Mileage
🗖 Visits	🕇 🖡 🚺 👘 Min mileage, km
🗖 Notes	↑ ↓ [_ Max mileage, km
	Engine hours
	Min engine hours, min

Then add a table of Speedings type. For this table we have set the parameter Speed limit in unit properties (Advanced tab). In additional parameters indicate that a speeding should last at least one minute. Press OK.

Name: Speedings Type: Speedings		
	<u> </u>	
Available columns	Parameters	
🔽 Beginning	🕇 🖡 🚺 Group by: Deta	iled 🔻
✓ Location	🕇 🖡 🛄 📄 Row numberi	ng
Duration	🕇 🖡 🔲 📄 🗖 Total	
V Max speed		n
✓ Mileage	1 I Duration	
🥅 Mileage (adjusted)	🕇 🖡 🗔 🛛 🔽 Min duratio	n, min 1
🗖 Avg speed	🕇 🖡 🔽 🛛 🕅 🗖 Max duratio	on, min
Driver	↑ ↓ []	
Count	🕇 🖡 🛄 📄 🥅 Min mileage	e, km
Notes	🕇 🖡 🔽 👘 🗖 Max mileag	je, km
	Geofences	
	Search mask	* >
	None In Out Ge	ofence
	© 00 Ge	ofence 1
	• • • • • • • • • • • • • • • • • • •	ofence 2

Press the *Add Chart* button and select the necessary chart type. (Note that for many charts to be generated the appropriate sensors are required.) Press OK.

Chart properties		
Name: Chart Type: Regular	🗾 🗖 Split sensors 🗖 Count from zero	
Data set	Chart params	
Temperature (smoothed)	Trips	Ĩ
🗖 Engine revs	Select sensors	_
🗖 Engine revs (smoothed)	□ All sensors	
Counter sensors	Sensor 1	
🗖 Custom sensors	Sensor 2	
🗖 Custom sensors (smoothed)	Sensor 3	
🗖 Custom digital sensors	Sensor 4	
🗖 Custom digital sensors (smoothed)		
🗖 Absolute mileage		
🔽 Mileage in trips		
🗖 Instant mileage		
🗖 Instant mileage (smoothed)		
🗖 Fuel level		
Processed fuel level		
Fuel consumption by ImpFCS		
Fuel consumption by ImpECS (smoothed)		

That is how our report template looks. Now name it and save.

Report properties				
Name: Basic Report	Type: Unit 🗨	Add Table	Add Chart	
Contents				Advanced settings
Geofences	1	🦊 🛷 🐚 🄇	3	Options
Speedings	<b>†</b>	🤳 🛷 🕒 🄇	3	
Chart	1	🤳 🛷 🕒 🄇	5	

To obtain a report, set parameters in the work area: select report template, unit, reported interval, and press *Execute*.

Report template:	Basic Report		
Object:	Test_Unit	Ì	
Interval type:	Specified interval		
From:	17 Dec 2010 00:00		
To:	17 Dec 2010 23:59		
Execute Clear	Print Export to	File	

Generated report will appear on the right. On the left you see tabs to navigate between report sections (tables and charts). Besides, the report can be exported to various formats or printed (for this, use the proper buttons - *Export to File* and *Print*).

Geofence	Time in	Time out	Duration in	Mileage	Avg speed	Max speed
Geofence 1	2010-03-01 09:49:35	2010-03-01 16:24:35	6:35:00	16.38 mi	2 mph	76 mph
Geofence 2	2010-03-01 16:25:52	2010-03-02 07:27:35	15:01:43	13.70 mi	1 mph	58 mph
Geofence 1	2010-03-02 07:32:00	2010-03-02 21:46:59	14:14:59	11.06 mi	1 mph	76 mph
Geofence 2	2010-03-02 21:49:25	2010-03-03 07:37:14	9:47:49	12.80 mi	1 mph	42 mph
Geofence 1	2010-03-03 07:41:21	2010-03-03 20:17:02	12:35:41	10.91 mi	1 mph	71 mph
Geofence 2	2010-03-03 20:18:15	2010-03-04 07:35:20	11:17:05	13.73 mi	1 mph	51 mph
Geofence 1	2010-03-04 07:40:59	2010-03-04 21:28:48	13:47:49	9.96 mi	1 mph	81 mph
Geofence 2	2010-03-04 21:29:26	2010-03-05 08:00:28	10:31:02	13.49 mi	1 mph	51 mph
Geofence 1	2010-03-05 08:04:47	2010-03-05 19:45:45	11:40:58	9.97 mi	1 mph	57 mph
Geofence 2	2010-03-05 19:48:18	2010-03-06 08:15:17	12:26:59	13.61 mi	1 mph	47 mph

Beginning	Location	Duration	Max speed	Mileage
2010-03-01 16:22:22	Messeschnellweg, Laatzen, DE	0:01:51	76 mph	2.01 mi
2010-03-02 07:32:34	B 3, Hannover, DE	0:02:36	76 mph	2.85 mi
2010-03-03 20:13:58	Messeschnellweg, Laatzen, DE	0:03:17	71 mph	3.55 mi
2010-03-04 07:41:30	B 3, Hannover, DE	0:02:44	60 mph	2.50 mi
2010-03-04 21:26:06	Messeschnellweg, Laatzen, DE	0:02:42	81 mph	3.32 mi
2010-03-05 08:07:00	Messeschnellweg, Hannover, DE	0:01:18	57 mph	1.18 mi
2010-03-06 19:01:12	Messeschnellweg, Laatzen, DE	0:01:51	66 mph	1.79 mi
2010-03-06 19:13:31	Messe-Schnellweg, Hannover, DE	0:02:19	65 mph	2.31 mi
2010-03-07 09:31:06	A 2, Hannover, DE	2:09:42	116 mph	215 mi

