

# **MaCORS Quick Guide**

Rover Configuration for Trimble R8 & Bluetooth Cellphone

This Quick Guide outlines configuring the Trimble R8 & Bluetooth Cellphone to work with MaCORS.

- Setting up the dial profile
- Creating the Survey Style
- Connecting to MaCORS

### Firmware Requirements

Hardware Tupe	Minimum Recommended Versions			
Huruware Type	Hardware Firmware	Trimble Survey Controller		
R8 GNSS / R7 GNSS / R6 / R5 / R4	4.11	12.46		
5800 II / 5700 II	4.11	12.46		
R8 / R7	2.32	12.46		
5800 / 5700	2.32	12.46		



# **Trimble R8 Dialing Profile**

Setting up the dialing profile



From the Main Menu screen:

- 1. Select **Config** and then **Dial Profiles**:
- Choose New and name the Profile "MaCORS XX" (where XX is the state abbreviation you are configuring)

**NOTE**: In this example a Nokia phone via Bluetooth is being used as the modem. The Bluetooth connection has already been made by pairing the sensor and the phone.



On the first page of the Edit dial profile screen:

- **3.** Fill in the blanks
  - Use connection for your device.
  - APN: (Varies by carrier)
  - IP Address: 64.28.83.185
    - See <u>RTK Data Products</u> tab on the MaCORS website
  - IP Port: **10000**
  - Check the Use NTRIP box.

👫 Edit dial profile 🛞 📰 ◀€ 12:48 🛛 ok Use proxy server: " NTRIP üsername: 30% 50% stantec1 *ۇ* 6 NTRIP password: Connection type: GPRS ▼ ም፣ 🔽 Send user identity info: P 6.562 Map Menu **Favorites** 22 S<u>w</u>itch to RTK:Auto H:? V:? Esc Store Config

On the second page of the Edit dial profile screen:

**4.** Fill in the blanks

- NTRIP Username
- NTRIP Password
- Connection Type
- 5. Press Store



### **Trimble R8 Survey Style**

Creating the Survey Style

🏄 Survey Styles	🛞 # 📢 12	:49 <mark>ok</mark>	From the Survey Styles selection screen:
Name	Size Modified	30%	
5600 & 3600	2kb 11/26/2007	- 50%	<ol> <li>Choose New and name the Style "MaCORS"</li> </ol>
FastStatic	2kb 4/1/2008	<i>e</i> •	
NETWORK RTK	2kb 5/30/2008	<b>.</b>	<b>WIAX</b> <sup>**</sup>
PENTAX	2kb 11/26/2007		
PPK	2kb 11/26/2007	6.562	
RTK	2kb 5/29/2008	Map	
RTK & infill	2kb 11/26/2007	Menu	
VX & S Series	2kb 11/26/2007	avorites	
-	S. S.	witch to	
Esc No s	urvey PDOP:2.7	Edit	
New Co	py Delete		

🏄 NETWORK RTK 🛛 🛞 🖧	† <b>≼</b> € 12:49 ok
Rover options	<b>I</b> 30%
Rover radio	<b>—</b> 50%
Laser rangefinder	Ø 6
Topo point	
Observed control point	17
Rapid point	P 6.562
Continuous points	Marc.
Stakeout	Mah
Site calibration	Menu
Duplicate point tolerance	F <u>a</u> vorites
	S <u>w</u> itch to
No survey PDOP:2.7	Edit
Store	



🐴 Rover options

R8 Model 2/SPS880 Internal

Bottom of antenna mount 👻

.

Antenna

Measured to:

6.562sft

?

Esc

Antenna height:

Serial number:

Type:

🛞 🗱 ┥€ 12:50 ok

2/3

-

Part number:

60158-00

No survey PDOP:2.7

50%

*🎸* 6

**?**:

P 6.562

Мар

Menu

Favorites

S<u>w</u>itch to

Accept

**3.** Fill in the blanks on page 1 / 3

2. Highlight Rover Options and Edit

1. Survey type: RTK

From the Survey Styles selection screen:

2. Broadcast format: RTCM3Net

 Fill in the blanks on page 2 / 3 based on your equipment



Rover options       Image: Solution service s	5. Select as appropriate and Accept.
NETWORK RTK       Image: State of the stat	From the Survey Styles Configure screen: 6. Highlight Rover Radio and Edit
Rover radio       Image:	<ol> <li>For the Rover Radio</li> <li>Select : Internet Connection</li> <li>Dial Profile: "MaCORS XX"</li> <li>After verifying your selections Accept</li> </ol>



# **Trimble R8 Connection**

Connecting to the network



#### From the Main Menu:

1. Select Survey and then Start Survey



#### From the Main Menu:

2. Select your Survey Style "MaCORS MAX"



#### 3. Select Start Survey



User identification required () at 4€ 12:09 ok	From the Warning screen
Warning 7	4. Select OK
Using this connection!	
Switch to	

Mount p	·····	Identifier	Distan	Form	
AutoMa:	×	AutoMax	14627sft	RTCI	50
Trimble	Net	TrimbleNet	14627sft	RTCI	Q. 1
IMax3		IMax3	14627sft	RTCI	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
RTCM23	E.	RTCM23	14627sft	RTCI	
lmaxTrn	n	lmaxTrm	14627sft	RTCI	<b>F</b> 6.56
MaxTrm		MaxTrm	14627sft	RTC	Map
Imax210	GGA	Imax21GGA	14627sft	RTCL	Menu
MaxTrm	2	MaxTrm2	14627sft	RTC	Eavorites
MaxTrm	3	MaxTrm3	14627sft	RTCI	T gronces
4					Switch to

#### From the Select Data Source Screen

5. Select the proper Mount Point "RTCM3\_MAX"

18 9	ielect o	lata source	۲	## ◀€ 1	2:42 ok
Moun	t po	Identifier	Distan	Form -	30%
AutoN Trimb	lav Ie <sup>Plea</sup>	AidoMay se wait	44627eft	DTCI .	<b>7</b>
IMax3 RTCM Imax1	2	Establishin	g connectio	n	<b>P</b> <b>6</b> .562
MaxT	m				Map
Imax2	1				Menu
MaxT		ncel			avorites
1 XDW		Maxminj	1402730		S <u>w</u> itch to
Fee	No survey PDOP:2.7				Entor
ESC	All	Refresh			

### From the Select Data Source Screen

6. Wait for the connection to be established



7. Go Survey.

