

Survey Technical Support Notes

May 2016

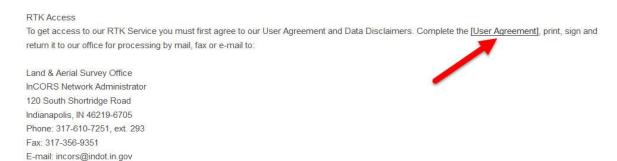
Title: How to create the INCORS Survey Style

Overview: Learn how to setup the Survey Style and GNSS contact for the Indiana Department of Transportations' free RTK network (INCORS).

Equipment: Trimble TSC3

<u>Results</u>: Allows User to have access to INDOTs' free RTK network provided that the User has contacted INDOT and received their own Username and Password.

<u>Procedure:</u> Step 1: Please visit INDOTs' website (<u>http://incors.in.gov/rtk.aspx</u>) and sign up for your Username and Password.





Step 2: On your TSC3, in the Trimble Access screen select Settings.

Contact Seiler Instrument for details or questions regarding this Support Note Web: <u>http://solutions.seilerinst.com</u>

Step 3: Under Settings you will select Connect.



Step 4: Next select GNSS contacts.

ġ	Connect	• • • • • • • • • • • • • • • • • • •
	Internet setup	
	GNSS contacts	
1	Auto connect	
[Radio settings	
8	Bluetooth	•
1	Auxiliary GPS	
	Back	Next

Step 5: Select New.



Step 6: Type in a name for your GNSS contact (I prefer keeping it simple "INCORS"). Then tap the drop down arrow next to the Network connection.

Edit GNSS contact			? – X
Name: INCORS			
Contact type: Internet rover	Network connection:		
Modem PIN:		/	
			1/2 •
Esc			Enter

Step 7: Select WiFi, ActiveSync to use a mifi/hotspot connection.

🖗 Net	work connec	tion			→ Ø	? – X
		Network co	nnection			
		Wi-Fi, Activ	veSync			
					Y	
Esc						Accept
	Add	Edit	Delete	Config		

Step 8: Make sure Use NTRIP is checked, type in the NTRIP username and password that INDOT provided you, Type in the IP Address: 108.59.49.226, and type in the IP Port: 9000. Then hit enter.

Edit GNSS contact	3 0 ? —)
NTRIP Configuration	Use NTRIP:
Use NTRIP v1.0:	Use proxy server:
Connect directly to Mountpoint:	NTRIP username: abc123
IP Address:	IP Port:
108.59.49.226	9000
Send user identity info:	2/
Esc	Enter



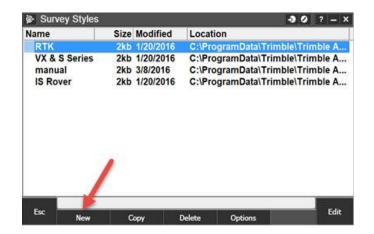
Contact Seiler Instrument for details or questions regarding this Support Note Web: <u>http://solutions.seilerinst.com</u> Step 9: Your INCORS GNSS contact is finished.



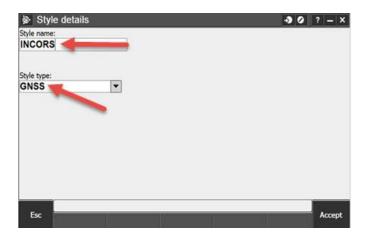
Step 10: Now escape back to your Settings screen and select Survey Style.



Step 11: Tap New.



Step 12: Name the Survey Style INCORS and select GNSS for style type. Then Accept.



Step 13: Select Rover options.

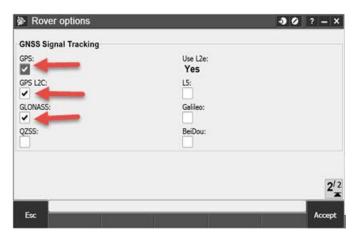
INCORS	→ Ø ? – ×
Rover options	
Rover data link	
Base options	
Base data link	
Compensated point	
Topo point	
Observed control point	-
Rapid point	=
Continuous points	
Stakeout	
Site calibration	
Duplicate point tolerance	
Laser rangefinder	
Echo sounder	
NMEA outputs	-
Esc Store	Edit

Step 14: Select RTK for Survey type, Multi station (RTCM) for the Broadcast format, leave the mask and PDOP at the default, select your correct Antenna type, select your Measure to (typically Bottom of Antenna mount), you do not need to enter a height or serial number. Now go to page 2.

Rover options			? – X
Survey type:		Broadcast format:	
RTK		Multi station (RTCM) -	
Elevation mask:			
10°	•		
PDOP mask:			
6.0	•		
Antenna Type: R8s Internal	/.	Measured to: Bottom of antenna mount	
Antenna height:	F	Part number: 97080-xx	
Serial number:	E.C.I	· · · · · · · · · · · · · · · · · · ·	1000
?			1/2
Esc			Accept



Contact Seiler Instrument for details or questions regarding this Support Note Web: <u>http://solutions.seilerinst.com</u> Step 15: Under the GNSS Signal Tracking select the appropriate boxes for your antenna. (The boxes checked here are most typical) Tap Accept



Step 16: Now select Rover data link.

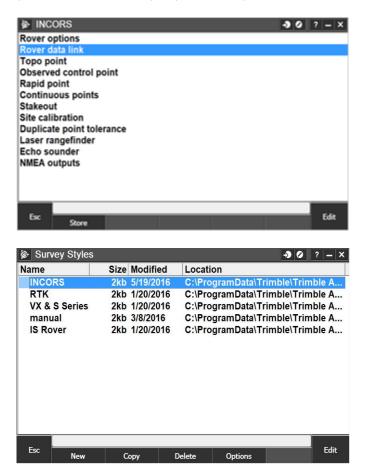
INCORS			-) ()	? – X
Rover options				
Rover data link				
Topo point				
Observed control p	oint			
Rapid point				
Continuous points				
Stakeout				
Site calibration				
Duplicate point tole	rance			
Laser rangefinder				
Echo sounder				
NMEA outputs				
Esc				
				Edit

Step 17: Set Type to Internet connection, select the arrow next to the GNSS contact and choose the INCORS GNSS contact you just created. Tap Accept.

Rover data link	-) () ? - X
Type:	-4
Internet connection	
GNSS contact:	
INCORS >	
Prompt for GNSS contact:	
	Map Menu
	and the second sec
	Menu



Contact Seiler Instrument for details or questions regarding this Support Note Web: <u>http://solutions.seilerinst.com</u> Step 18: Tap Store and your INCORS Survey Style is ready to use.



7 of 7