

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.

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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 Name: INCORS		30 ?	- ×
Contact type:	Network connect	tion:	
Modem PIN:		1	
			1/2 ▼
Esc		6	nter

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

🖗 Net	work connec	tion			- > 0	? – X
		Network co	nnection			
		Wi-Fi, Activ	/eSync			
Esc		- P.				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: 10000. Then hit enter.

Edit GNSS contact	• • • • • • • • • • • • • • • • • • •
NTRIP Configuration	
Use RTX (TGIP):	Use NTRIP:
Use NTRIP v1.0:	Use proxy server:
Connect directly to Mountpoint:	NTRIP username:
NTRIP password:	abc120
IP Address:	IP Port:
108.59.49.226	10000
Send user identity info:	2/2
Esc	Enter

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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	? – X
Rover options	<u>.</u>
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		-90	? – 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:		Part number: 97080-xx	
Serial number:	1000	· · · · · · · /	02-02
?			1/2
Esc			Accept



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Step 16: Now select Rover data link.

INC	ORS			-> 0	? – X
Rover o	ptions				
Rover d	ata link				
Topo po	oint				
Observe	d control po	oint			
Rapid p	oint				
Continu	ous points				
Stakeou	t				
Site cali	bration				
Duplicat	te point tole	rance			
Laser rangefinder					
Echo so	under				
NMEA o	utputs				
-				 	e to
ESC	Store				Ealt

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	-30 ? - X
Type:	-
Internet connection	
GNSS contact:	
INCORS >	
	Мар
	Menu
	Menu Favorites
	Menu Favorites Switch to



Step 18: Tap Store and your INCORS Survey Style is ready to use.



7 of 7