

Support Toll Free: (855) 414-9453

The following are the procedures for setting up a Leica iCON Rover using GSM/UTMS/GPRS cell Network in your area. You will be set to connect to either NETWORK i-MAX solution or Nearest solution using HxGN SmartNET North America in your working area (BC or AB).

If you need assistance with HxGN SmartNET account registration/subscription, please contact your local Spatial Technologies office directly. (*Richmond, Calgary, Edmonton, Prince George*)

## Below are the steps to create a new profile in iCON site

	Step	Action		
1	Tap on <b>Devices</b> .	Image: Solid Stress       Image: Solid		
2	Tap on the groon Plus icon to	I and conversion of the second contract of th		
2	create a new profile.	Co C 2		
		Promise Sensor information		
		(CB50 — ) Profile Name iCG160-Rover-NTRIP-mc-icon-msm     (CG160-Rover-NTRIP-mc-icon-msm     (CG160-Rover-NTRIP-mc-i		
		✓ CG70-Rover-Radio-433.500000MHz 2011975 ) Serial Number 29011975		
		Trimware 0.0.0		
		10G160-Rover-NTRIP-mc-icon-msm 2011978		
		T IGG160-Rover-Radio-Ch2 20011975 ) GPS Mode NTRIP Rover		
		LicR80 304999 > Mountpoint me-icon-msm		
		■ SmartNET 2001975 )		
3	Select the iCON GNSS system	Profiles		
	model you are using	Liceso Details		
	😴 iCON gps 70	iCON gps 160 ▶		
	TricoN gps 160			
	→ iCON gps 30	10 ICG 160-Base-Radio-Ch-32768 29011975		
		Tigligi CG160-Rover-NTRIP-mc-icon-msm 2001975		
	In our overnele we will be	100160-Rover-Radio-Ch2 29011975		
	in our example we will be	SmothET 200107		
		✓ Test 2001975		
	Tap <b>green *</b> to save and create			
	a new profile.			



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4	The GPS device's serial number is	Communication Settings			
	displayed on the screen.	Communication Mode			
		Mode Simulation >			
	You may need to connect the				
	Controller to the GPS if this is	Device in use			
	brand new setun				
	In the Communication Mode				
	container, select <b>Bluetooth</b> ,				
	press the Start Search key.	Communication Mode			
	Select the relevant GPS from				
	Search Results	Mode Bildetooth			
		Search Devices Start Search			
	Tan the next Wizard sten				
	proceed and start the				
		Device in use			
	Configuration wizard	No sensor selected. Perform search.			
5	Tap on the <b>New Configuration</b>	Configuration			
	option and the configuration	Current Configuration			
	wizard will begin	GPS Mode			
		Tilt Off			
		Co to Work			
		Load Configuration New Configuration			
	If SIM card in in Controller proces	ad to 6a			
	If SIM card in GNSS system proce	va to oa.			
• •	Resis Settings (SIM sord in				
ба	Dasic Settings (Sim Card In				
	Controller)	Basic Settings			
	Sensor Mode: Rover	Sensor Mode			
	Device: Controller				
	Modem*	Use Network			
	Connect Via: NTRIP	Device Controller Modem			
	* Selecting this means your	Connect Via NTRIP >			
	in your controller or a WIFI				
	connection is established from				
	your controller				
	Tap the next Wizard step				
	proceed				
1	hinger				





SmartNet Connection in Leica iCON Application

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6b	Basic Settin	igs (SIM card ii	n GPS		Basia Sa	rtinge	
	system)						
	Sensor Mode:	Rover	]	Sensor Mode	F	Rover >	
	Use:	Network		Use	Net	work 🕨	
	Device:	Sensor Modem <sup>*</sup>		Device	Sensor Mo	sdem >	
	Connect Via:	NTRIP		Connect Via	N		
	* Selecting this r	means your		Modem Status			
	internet is setup	by a SIM inserted		modelli otatao		+	
	in your GPS syst	em					
	Modem Settings			$ \circ\rangle\circ\rangle$	O Modem S	Settings	
	PI	N: Typically bl	ank	Internet	Connecto		
	AP	N: See below*		internet	Connected		
	Usernam	ne: Typically bl	ank	SIM Card	Presen	t	
	Passwoi	rd: Typically bl	ank				
		·		PIN	Valie	d	
	Enter the app	propriate <b>APN</b> :		PIN			
	(APN for othe	er providers ma	У	APN	ISP.TELUS.COM		
	vary, please	check with thei	n to	Username			
	see if APN ha	is changed)		Osemanie		J	
	Bell: inet.be	ell.ca		Password			
	Ielus: isp.te	elus.com				_	
	<ul> <li>Rogers: International</li> </ul>	ernet.com (or					
		pii)					
7	Freedom: m		le.ca	icon			
/							
	settings are v	vnat we need to	0				
	change.						
	Enter the bel	ow required de	tails				
	provided by HxGN SmartNet:		t:	WWW/IP		XX.smartNETna.com	
	WWW/IP:	xx.smartnet.com		Port Numbe	er	9201	
		where xx is your					
	Port Number:	9201	C	Username		License Name	
	Username:	License usernam	e				
	Password:	XXXXXX		Password			
	Auto-	Off				0//	
	connect to			Auto-Conne	ect to Server	Off	
	Server:			NTRID Clion	t Mountpoint List	Available	
	Note: For standard geomatics		INTRIP Clien		Available		
	network RIK	accounts use p	oort				
	9301						





## spatial TECHNOLOGIES SmartNet Connection in Leica iCON Application

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8	Mountpoint Settings:		
	Select <i>Network Type</i> as <b>i-MAX or</b> alternatively <b>Nearest</b>	Select	
	Mountpoint >	VRS	
	Network Type	FKP	
		i-MAX	ļ
		MAX	
		Nearest	
9	Select <i>Mountpoints</i> and a list of mountpoints will be downloaded	Mountpoint Settings	*
	automatically.	Mountpoint me-icon man h	1
	Mountpoint	Network Type I-MAX > mc-powerbox zeno	
	Network Type i-MAX >	zeno_near zeno-msm	
	Select <b>mc-icon-msm</b> (ms-icon- near if Network Type Nearest was	mc-icon-near	
	Tap the next Wizard step		
10	Review <b>Antenna Settings.</b> <i>Note:</i> Confirm Rover Pole Height	Antenna Settings Antenna Settings Pole Height 2:000	
		Corrected Pole Height 2.000 Quick Snap for Pole Off	
		Wheelpple         Off           Measurement Method         Vertical	
	Tap the next Wizard step 🎦	Tik On	
11	Status Page	Con     C	×
	Enter a <i>Profile Name</i> and tap	Profile Name Enter a SAVED PROFILE name here GPS Mode NTRIP Rover	
	<b>green</b> v to save and create a new profile.	Corrections, last minute 0 % Position Quality Fixed	
		Detected Base Antenna Auto-detect Detected Base Receiver Auto-detect	







## SmartNet Connection in Leica iCON Application

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12	Select the Profile	Profiles	Device Initialization	
			Initialization	
		Synchr	onising profile. Please wait.	
		<b>17</b> CG160-Rover 3854317		
		icr70 3228382		
		TS 3017518		
13	Modem Status Confirmation			
	Go into the Measure app, and tap	Map Mo	dem	
	on the top toolbar, and select the	Connection	Modem Connection	
	Sensor Modem icon	Link Start	WWW/IP BC.SMARTNETNA.COM	
	Ջ <b>▲Ջ ≅<sup>A</sup> 2 000 ⊅ ⊻_</b>	Internet Connected	Port Number 9201	
	Controller/Target	NTRIP Modem Mountpoint List downloaded	Username spa0	
		Correction Format Auto-detect	Password	
	Sensor Modern Bluetooth Memory	Det. Correction Format RTCM v3.2 MSM5	Mountpoint mc-icon-msm	
		Man		
	On the Link, press <start> if it has</start>	Correction Format Auto-detect		
	already started	Det Correction Format PTCM v3.2 MSM5		
		Correction Status		
	Connection and Modem	Last Received 1.0 s		
	Connection information will be	In last minute 20 %		
	displayed.	Rover Settings		
	Correction Status can be seen	Network Type i-MAX		
	ensure Last Received has	Reference Sensor GB20		
	between <b>1.0-10 secs</b>	GRSU		
	approximately.	Reference Antenna ADVNULLANTENNA		
14	Position	FIXED		
	The Position icon will tell the		<b>└─ �� ─ ॉ ॉ 2.000</b>	
	status of the RTK position			
		Not Fixed		
			🕀 👷 🚺 📗 2.000	
	ICON GPS 70			
	Position Satellite Antenna Measure Mode	Qua	ality	
		Position Quality	0.014	
		Height Quality	0.020	
	Typically, RTK positions has cm	GDOP	2.000	
	level quality (~0.01-0.05m)	Baseline Length	0.000	