

TEST PLAN FOR CONFIG COMMANDS AND QUERIES

Tools Required:

GSX device and power supply with cables.

Config tool python script binary.



northstar_config_tool.exe

Json file with config settings.



def_config_pass_veh_wr.json

Json file with empty parameters/values in the objects.



def_config_pass_veh_rd.json

NOTE: THE ABOVE FILES ALONG WITH THE INSTRUCTIONS CAN BE DOWNLOADED FROM THE BELOW ZIP FILE :



ns_config_tool_files.7z

NOTE: INSTRUCTIONS TO RUN THE CONFIG TOOL .



README_INSTRUCTIONS.txt

NOTE: TESTED ON ES840 DEVICE AND ES1, ES2 and ES3 DEVICES USING THE CONFIG TOOL.

TESTING WRITE CONFIG COMMANDS

SNo	CONFIG PARAMETERS	Serial command	REQUIRED FOR SMOKE TEST	Expected Response	Comments	Actual Response from the device	RESULT ON ES3	COMMENTS
1	To set Serial number	sn,000000,0101010520050148	N				PASSED	
2	To set command password	password,000000,000000	N	Response: --- password =Success! --- password =Fail!		NOT TESTED	NOT TESTED	
3	To set APN and username /password for this APN	apn,000000,a5.korem2m.com,,	Y			07:05:01 UI: 864839040722601 apn=Success!	PASSED	
4	To set MQTT server address and port.	data,000000,cloud.geosensorx.ai:1883,864839040564250,864839040564250	Y	Response: --- data=Success! --- data=Fail!		22:46:36 UI: 864839040564193 data=Success!	PASSED	
5	To set MQTT Topics	topics,000000,0,v1/devices/me/telemetry,1	Y			01:03:13 UI: 864839040722601 topics Success!	PASSED	
		topics,000000,1,v1/devices/me/rpc/response/,1	Y			01:03:17 UI: 864839040722601 topics Success!	PASSED	
		topics,000000,4,v1/devices/me/rpc/request/+,1	Y			01:03:19 UI: 864839040722601 topics Success!	PASSED	
		topics,000000,2,v1/devices/me/attributes,1	Y			01:03:23 UI: 864839040722601 topics Success!	PASSED	
		topics,000000,3,v1/devices/me/attributes,1	Y			01:03:23 UI: 864839040722601 topics Success!	PASSED	
6	To Upgrade FW via OTA	otastart,000000,build.geosensorx.ai:21,username,passwd,Fwfile.bin	N	Response: --otastart=Success! -- otastart=Fail!		22:46:56 UI: 864839040564193 otastart=Success!	PASSED	
7	ES840 report interval when vehicle is stationary(sec)	nomove,000000,0	Y	Response: --- nomove =Success! --- nomove =Fail!		22:47:18 UI: 864839040564193 nomove=Success!	PASSED	
8	Report interval when vehicle is moving(sec)	interval,000000,5	Y	Response: --- interval =Success! --- interval=Fail!		22:47:39 UI: 864839040564193 interval=Success!	PASSED	

9	To set speed threshold, default value is	Speedalarm,000000,65	Y	Response: --- speedalarm =Success! --- speedalarm =Fail!		22:48:01 UI: 864839040564193 speedalarm=Success!	PASSED	
10	To set Heading Change reports based on degrees of heading change, with minimum meters to reset	heading,000000,60,5	N	Response: -- heading=Success! --- heading =Fail!		22:48:22 UI: 864839040564193 heading=Success!	PASSED	
11	Set a certain time to report heartbeat	heartbeat,000000,12	Y	Response: --- heartbeat =Success! --- heartbeat =Fail!		22:50:24 UI: 864839040564193 heartbeat=Success!	PASSED	
12	To report of any specified event code	report,000000,5	Y	Response: --- report =Success! --- report =Fail!		22:50:44 UI: 864839040564193 report=Success!	PASSED	
13	To set the Braking trigger event parameters	Braking,0.61,0.1,16,0,1	Y	Response: -- braking =Success! -- braking =Fail!	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-172	18:59:38 UI: 864839040564193 braking=Success!	PASSED	
14	To set the Harshaccelerate trigger event parameters (Peak, duration, delta, risetime)	Harshaccel,0.43,0.15,0,0.5,1	Y	Response: -- harshaccel =Success! -- harshaccel =Fail!	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-172	18:59:54 UI: 864839040564193 harshaccel=Success!	PASSED	
15	To set the Impact trigger event parameters	Impact,0.7,0.25,0,0,1	Y	Response: -- impact=Success! -- impact=Fail!	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-172	19:00:09 UI: 864839040564193 impact=Success!	PASSED	
16	To set the Swerve trigger event parameters.	Swerve,0.47,0.25,0,0,1	Y	Response: -- swerve=Success! -- swerve=Fail!	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-172	19:00:29 UI: 864839040564193 swerve=Success!	PASSED	
17	To set mileage -Val in m	mileage,000000,0				01:03:45 UI: 864839040722601 mileage Success!	PASSED	
18	To set tow event dist in m	tow,000000,250				01:03:47 UI: 864839040722601 tow Success!	PASSED	
19	To set Idling alert in sec	idlingalert,000000,300				01:03:49 UI: 864839040722601 idlingalert Success!	PASSED	

20	To set Ignition ON virtualign,000000,[0/1], [Threshold] (Threshold Range 0-63)	virtualign,000000,1,1				01:03:51 UI: 864839040722601 virtualign Success!	PASSED	
21	To set Radius geofence parameters: Index, Enable /Disable, Longitude/Latitude, Radius	geofence, 000000,1,0,1,31.26443,120. 72779,1000#	NOT SUPPORTED			NO RESPONSE	FAILED ALWAYS	
22	Execute module FOTA.	moduleota,https://www.123. com/update/es800.bin#	NOT SUPPORTED	Response: --- moduleota =Success! --- moduleota =Fail!		22:52:05 UI: 864839040564193 moduleota=Success! s!	PASSED SOMETIMES BUT GIVES THE PREVIOUS COMMAND RESPONSE MANY TIMES	
23	WIFI params setup	ssid,000000,NorthStarAP	Y			01:03:53 UI: 864839040722601 ssid Success!	PASSED	
		wauth,000000,4,4, geosensorx	Y			02:06:25 UI: 864839040754547 wauth=Success!	PASSED	
		wifi,000000,1	Y			01:03:57 UI: 864839040722601 wifi Success!	PASSED	
24	Bluetooth params setup btmode,[Password],[Mode]# Mode 0: Off 1: On 2: Download Mode	btmode,000000,1	Y			01:04:00 UI: 864839040722601 btmode Success!	PASSED	
25	To software reset the device	reboot,1	N	Response: --- reboot=Suc cess! --- reboot=Fail!			FAILED	esky Jira BUG: https://geosens orx.atlassian. net/browse/EG- 209
26	Enable the device log	logprint,1,1				01:12:53 UI: 864839040722601 logprint Success!		
27	Disable the device log	logprint,0,0	N			22:45:49 UI: 864839040564193 logprint=Success!	PASSED BUT TAKES FEW TRIES SOMETIMES	esky Jira BUG: https://geosens orx.atlassian. net/browse/EG- 166
28	Sleep mode. sleepwait,[Password],[Time(sec)]# 0 is disable sleep mode, default: 300							
	Enable sleep mode.	sleepwait,000000,300				01:13:59 UI: 864839040722601 sleepwait Success!	PASSED	
	Disable sleep mode.	sleepwait,000000,0				01:13:61 UI: 864839040722601 sleepwait Success!	PASSED	
29	Change the console output to RS232 console	consoleout,000000,2					PASSED	
	Change the console output to Internal UART console	consoleout,000000,1					PASSED	
30	Switch CAN port 1:CAN1 2:CAN2 Default: 1	canswitch,000000,1					PASSED	
31	PID query command. Format: pid,[Password],[PID]						NOT TESTED	
32	gps	gps,[0/1]					NOT TESTED	

33	Set command to make the GPS switch to External GPS. 0: External GPS Ant 1: Internal GPS Ant	gpsswitch,000000,0					NOT TESTED	
34	Buzzer							
	Open Buzzer	buzzer,000000,1					NOT TESTED	
	Close Buzzer	buzzer,000000,0					NOT TESTED	
35	power	power,[0/1]					NOT TESTED	
36	netlock (ScanSeq(Refer to AT command(AT+QCFG="nwsanseq"),ScanMode:0-8), Default - 0,3	netlock,[ScanSeq],[ScanMode]					NOT TESTED	
37	outset (range - 1,2,3)	outset,000000,[Index]					NOT TESTED	
38	outclr(range - 1,2,3)	outclr,000000,[Index]					NOT TESTED	
39	ldoctrl(Expected values : 0-1,0-1)	ldoctrl,000000,[Index],[On/Off]					NOT TESTED	
40	resetpassword	resetpassword					NOT TESTED	

TESTING CONFIG QUERY COMMANDS						
SNo	CONFIG PARAMETERS	Serial Query Command	COMMENTS	Actual Response on ES3	TEST STATUS on ES3	COMMENTS
1	To query serial number	sn?		01:12:34 UI: 864839040722601 sn 0101010520050130	PASSED	
2	To query current firmware version.	version ?		00:56:48 UI: 864839040564193 version=GSX_EG840_B1.00_V1.22_190402	PASSED	
3	To query IMEI number	imei ?	NOT SUPPORTED	NO RESPONSE.	FAILED. NOT SUPPORTED YET	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-202
4	To set command password	password?	NOT TESTED	NOT TESTED	NOT TESTED	
5	To set APN and username/password for this APN	apn?		00:23:28 UI: 864839040564193 apn=a5.koremem2.com ..	PASSED	
6	To set server address and port.	data?		01:15:03 UI: 864839040722601 data cloud.geosensorx.ai,1883	PASSED	
7	To Query topics	topics?		01:51:02 UI: 864839040722601 topics v1/devices/me/telemetry,1,v1/devices/me/rpc/response/,1,v1/devices/me/attributes,1,v1/devices/me/attributes,1,v1/devices/me/rpc/request/+,1		
8	OTA start	otastart?		01:15:36 UI: 864839040722601 otastart 0		
9	ES840 report interval when vehicle is stationary(sec)	nomove?		00:25:01 UI: 864839040564193 nomove=300	PASSED	
10	Report interval when vehicle is moving(sec)	interval?		00:25:22 UI: 864839040564193 interval=30	PASSED	
11	To set speed threshold, default value is 80KM/H	Speedalarm?		00:25:43 UI: 864839040564193 speedalarm=100	PASSED	
12	To set Heading Change reports based on degrees of heading change, with minimum meters to reset	heading?		00:26:04 UI: 864839040564193 heading=60,5	PASSED	
12	To set interval of resend data on UDP protocol with ACK.	resendinterval?	NOT SUPPORTED	NO RESPONSE	FAILED. NOT SUPPORTED.	esky JIRA BUG https://geosensorx.atlassian.net/browse/EG-206

13	Set a certain time to report heartbeat	heartbeat?		00:27:23 UI: 864839040564193 heartbeat=18	PASSED	
14	To report of any specified event code	report?		00:27:45 UI: 864839040564193 heartbeat=18	PASSED	REPEATING PREV COMMAND RESPONSE esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-170
15	To set the Braking trigger event parameters	Braking?		01:24:56 UI: 864839040564193 braking=0.19,0.10,4.98,0.00,1	PASSED	
16	To set the Harshaccelerate trigger event parameters (Peak, duration, delta, risetime)	Harshaccel?		01:25:06 UI: 864839040564193 harshaccel=0.19,1.00,4.98,0.00,0	PASSED	
17	To set the Impact trigger event parameters	Impact?		01:25:23 UI: 864839040564193 impact=0.50,0.15,0.00,0.50,0	PASSED	
18	To set the Swerve trigger event parameters.	Swerve?		01:25:57 UI: 864839040564193 swerve=0.19,0.25,0.00,0.00,0	PASSED	
19	To set Radius geofence parameters: Index, Enable/Disable, Longitude/Latitude, Radius	geofence?	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-167	NO RESPONSE	FAILED. NOT SUPPORTED	esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-207
20	Execute module FOTA.	moduleota?	REPEATING PREV COMMAND RESPONSE esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-169	00:29:17 UI: 864839040564193 heartbeat=18	FAILED	REPEATING PREV COMMAND RESPONSE esky JIRA BUG: https://geosensorx.atlassian.net/browse/EG-169
21	WIFI params setup	wauth?		23:10:21 UI: 864839040722601 wauth=4,4,geosensorx	PASSED	
		ssid?		23:10:32 UI: 864839040722601 ssid=NorthStarAP	PASSED	
		wifi?		23:12:07 UI: 864839040722601 wifi=1		
22	Bluetooth params setup	btmode?		01:16:09 UI: 864839040722601 btmode 1	PASSED	
23	Query Mileage	mileage?	N/A	01:53:00 UI: 864839040564193 mileage=0	PASSED	
24	Query Tow dist	tow?	N/A	01:16:47 UI: 864839040722601 tow 250	PASSED	
25	Query idling alert duration	idlingalert?	N/A	01:53:00 UI: 864839040564193 idlingalert=10	PASSED	
26	Query Virt Ignition	virtualign?	N/A	01:53:00 UI: 864839040564193 virtualign=1,1	PASSED	

27	Query network status Response: status=SignalStrength, PS Reg,MQTT State, Queue Count,ICCID, PhoneNumber	status?		23:15:48 UI: 864839040722601 status=17, 1,5,0,89014104271544567909,15007597031	PASSED	
28	Query gps connectivity	getgps?		23:27:27 UI: 864839040722601 getgps=HISTORIC,6- 23:23:23,Sat=5,HDOP=1.60,Lat=37.347503,Lon=- 122.031774,Spd=0,Hd=33,Alt=69	PASSED	
29	Query id	getid?		23:28:49 UI: 864839040722601 getid=864839040722601,0101010520050130	PASSED	
30	Query adc	getadc?		23:29:23 UI: 864839040722601 getadc=1390,4697,4	PASSED	
31	Query io	getio?			FAILED	
32		getcomm?			FAILED	
33	Query netlock	netllock?			NOT TESTED	
34	Query Sleepwait	sleepwait?		23:45:10 UI: 864839040722601 sleepwait=30	PASSED	