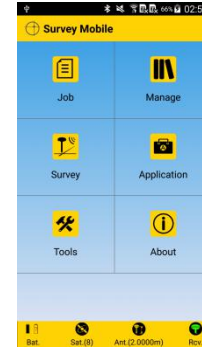# RELEASE NOTES

Spectra Precision Survey Mobile

Survey Mobile v1.2.0 Release Notes

Spectra Precision Survey Mobile (SPSM) is an easy to learn and simple to use field software for surveyors who want to get their work done fast and efficiently. The user interface is designed to be simple and straightforward so surveyors can be productive immediately.

Hardware and Operating System

Item	Requirements
Handheld Operating System	Android V4.3 or above
Handheld Processor	Armeabi-v7a
Handheld Screen Size	4.2 inches or above
GNSS Receiver	SP80, SP60

Features and Functions

Functions	Sub-Functions
Job	• New job • Save job • Open job • Close job • Delete job • Modify job
Coordinate System	• Standard coordinate system • Customized coordinate system
Site Calibration	• Site calibration • Single point calibration
Receiver Control	• Scan/Connect/Disconnect

	- Rover RTK configuration (Radio) - Base RTK configuration (Radio) - Rover RTK configuration (Network) - Rover network single base - Base network single base - RTX configuration - Internal radio configuration - Receiver status - Receiver properties - Satellite configuration - Antenna configuration - Battery configuration
Survey	- Point survey - Control point survey - Offset survey - Fast survey - Static survey - Stop & Go survey
Stakeout	- Point stakeout - Line stakeout - Fast stakeout
Define	- Define point - Define line
Manage	- Settings - Coordinate system management - Data management - Device management - Rover configuration management - Road management - Background map management
Import	- Import Survey Mobile point (txt, csv) - Import Survey Mobile coordinate system (scs) - Import Trimble road design (rxl) - Import Trimble JobXML (jxl) - Import AutoCAD (dxf)
Export	- Export point (txt, csv) - Export coordinate system (scs) - Export static survey report (txt) - Export South CASS point (dat) - Export survey data (dxf) - Export Trimble road design (rxl) - Export Trimble JobXML (jxl)
COGO	- Area - Perimeter - Azimuth

	•	Distance
	•	Coordinate
Road	•	Define road
	•	Stakeout road
Map	•	Survey data (point, line)
	•	DXF (point, line, polygon, circle, arc)
	•	Road horizontal alignment
	•	Auto scroll
	•	Zoom extends
Language	•	Chinese Simplified, English, French, German, Spanish, Italian, Portuguese Brazil
	•	Language switch in application

New Features

No.	Description
1	RTX CenterPoint, FieldPoint, ViewPoint and RangePoint.
2	Time dependent datum transformation.
3	Import DXF as background map (point, line, polygon, circle and arc).
4	Yearly support license.
5	US Survey foot.
6	SP60 30/30 and 7/2 receiver options support.
7	Display road horizontal alignment on map.
8	Get point from point list, surveyed points and defined points as start station in define road horizontal alignment.
9	Map zoom extents for view all elements occupying the whole map view.
10	Select a Geoid and shift grid in new job.
11	Edit "Defined Points" and "Site calibration point pairs".
12	Comma will replace dot depending on Android regional settings.

Enhancements

No.	Description
1	The last job used coordinate system will be used default when creating a new job.
2	Maximum "zoom in" in map changed to 8mm.
3	Map cursor is always displayed and changed to cross (+).
4	Map auto scroll. When cursor is out of current map view, map view will be centered with current position.
5	Map will zoom to the level when map exited last time.

Bug Fixes

No.	Description
1	Fix WGS84 XYZ coordinate cannot be display.
2	Fix position does not display in Survey/Stakeout or receiver status.

Known Issues and Limitations

No.	Description	Work around
1	Survey Mobile will crash more and more frequently with the sum of points in all jobs increasing.	All measured data and configuration will not be affected. Simply restart Survey Mobile to export again.
2	Export jxl without grid coordinate system will be failed	Try to add a grid coordinate system to export jxl
3	In a rare occasion, receivers connect/disconnect status icon error in home screen.	Only the home screen receiver status icon display error. Actual status is connected but display disconnected. The connect status does not affect any receiver operation. Restart Survey Mobile will be OK.
4	In a rare occasion, connect receiver will be failed.	Steps to continue work: 1.Try to connect to receiver more times 2.Check receiver whether used by other users 3.Reboot receiver
5	In a rare occasion, language is Chinese, but actually the setting is auto and the Android language is English	Try to set language as you use.
6	Import DXF elements failed when current coordinate system using a regional Geoid	Please select a coordinate system without Geoid or with a global Geoid.
7	Customized coordinate system created not based standard coordinate system cannot do RTX datum transformation	Please create a coordinate system based on a standard coordinate system that support RTX datum transformation.