



Software Release Notes

Land Survey

DATE: JULY 13, 2012
PRODUCT: FAST SURVEY
SUBJECT: NEW FAST SURVEY RELEASE
NUMBER: V3.0 (3.0.3)

Introduction

This release is a new version for FAST Survey. It is an update of the latest version of FAST Survey V2.9 including the support of the ADL radios, the Ulink protocol for the ADL radio, several enhancements and bug fixings.

FAST Survey 3.0 application software is compatible with the following terminal devices:

- ProMark 100, ProMark 200, MobileMapper 100
- Ashtech FT-1
- MobileMapper CX
- MobileMapper 10
- MobileMapper 6
- Spectra Precision Ranger 3

And with the following external GNSS receivers (FW version):

- ProMark 800
- ProMark 500
- ProFlex 500
- ProFlex 800

Components

The installation program is available on the FAST Survey CD and on the FTP site:

- <ftp.ashtech.com> (folder: /Land Survey/FAST Survey/Software/)

To install FAST Survey you should establish a Microsoft ActiveSync connection between your PC and the data collector and execute the respective FAST Survey exe file on your PC. Then follow the instructions.

Registering as a FAST Survey User

The first time you start FAST Survey, you will be prompted to register your license of the software. If you do not register, FAST Survey will remain in demo mode, limiting each job file to a maximum of 30 points.

How to Register

FAST Survey registration is done via the Internet at the following address:

- <http://www.survce.com/Ashtech>

Open FAST Survey on the handheld device and navigate to the EQUIP tab and then to the About FAST Survey choice. Select "Change Registration". You will be required to enter:

- Your company name
- Your phone number
- Your email address
- Your FAST Survey serial number
 - Hardware ID Number 1
 - Hardware ID Number 2
- The registration code that the program will generate

After you submit this information, your change key will be displayed and emailed to the address you have submitted. Keep this for your permanent records.

If you do not have access to the Internet, you may fax the above information to (+1) 606-564-9525. Your registration information will be faxed back to you within 48 hours. During this time, you may continue to use the program but with the 30-point restriction.

After you receive your Change Key, enter it and tap OK. You can then create a new FAST Survey job.

Saving your registration in the Field Terminal

With your devices, the code is automatically and safely saved at the end of the registration procedure (no extra save operation is required).

If it is not the case after you register FAST Survey, you may need to perform a RAM backup or a System Save to be sure your authorization code will not be lost the next time the field terminal reboots. If you cannot find this option on your Start menu, then open the Control Panel and choose RAM backup (such a need is not applicable to all terminals).

Languages supported

The following languages are supported with this version:

- Chinese
- Czech
- Dutch
- English
- French
- French Canadian
- German
- Greek
- Hungarian
- Italian
- Korean
- Norwegian
- Polish
- Portuguese
- Romanian
- Russian

- Serbian
- Spanish
- Turkish

Note that FAST Survey Compact Disc does not include all the languages, but only a part of them. All the languages are present on Ashtech FTP.

New features/Enhancements/Changes

- **SNR signals for L2/L5:** SNR values are displayed in Monitor/Skyplot for L2 and L5 signals (L5 signals only for ProMark 800 / ProFlex 800 receivers)
- **New coordinate systems support:**
 - Romanian grid, ITRS 89 (TM 30 NE zone)
 - Czech datum global transformation ETRS-89 (ETRF2000) to S-JTSK
 - Swedish coordinate system SWEREF 99 TM
- **SAPOS Network support:** RTCM messages 1021-1023 are supported (it is implemented as a new check-box setting in \Equip\GPS Rover\Receiver\Advanced\ screen)
- **ADL radio support related**
 - ADL Vantage Pro radio support has been added
 - ADL radios support now U-Link protocol
- **Norwegian language:** Norwegian localization has been added

Resolved problems/Improvements

- ADL internal radio module was not recognized
- Parameters of China Coordinate System were wrong
- The formats DBEN and ATOM super compact were not available
- All satellites had "C" flag in SATInfo screen for ProMark 100/200
- Problems to configure a PM800 as a mountpoint of an NTRIP caster
- ProMark 800 antenna parameters update
- Irish coordinate systems were not in the Predefined list
- Problems to read configuration of ARF747B EU or NA radio
- 38400 baud rate set as default for SATEL radio
- ZOOM IN/OUT support was not available via hard keys of MM10 device
- When using a ADL radio with more than 15 channels pre-defined.

Known issues

- **Localized versions of FAST Survey:** localized versions of FAST Survey may contain English words, truncated strings, etc. in some screens and menus
- **ProMark with ADL RX:** if the channel 1 is empty, Fast survey generates an alarm.

Recommendations

- **Installation procedure:** It is recommended to uninstall previous FAST Survey version and delete manually \Fast Survey\ folder from the terminal before installation the new one.
- **Radio settings :** we recommend with these radios the following settings:

Base \ Rover	Ulink					ADL 12.5 KHz				
	Protocol	baud rate	FEC	Scrambling	Format	Protocol	baud rate	FEC	Scrambling	Format
Ulink	Transparent	4800	No	NO	Atom RTCM3	Ulink	4800	no	NO	ATOM RTCM3
	Transparent					Transparent				
ADL 12.5 KZ	Transparent	4800	No	No	Atom RTCM3	Transparent	4800	yes	Yes	Atom Compact
	Ulink									
ADL 12.5 KZ						TransparentFST	9600	Yes	Yes	Other format than Atom Compact

If you use ADL 25Kz on the base and the rover, the recommended settings are :

- Protocol : transparent
- Baud rate : 9600
- FEC :Yes
- Scrambling : Yes
- Format : all