Software Release Notes   **Survey**

DATE: OCTOBER 25, 2012
PRODUCT: GNSS SOLUTIONS
SUBJECT: NEW GNSS SOLUTIONS RELEASE
NUMBER: V3.80

Introduction

This version is an update of GNSS Solutions V3.71 including several enhancements and bug fixing, and in particular provides support of the new Spectra Precision GNSS receiver ProMark 120 and 220.

Components

GNSS Solutions:	**v3.80.8**
Download:	v2.94
DTR (DSNP to RINEX):	v7.12
Geoids:	v1.1.0
Internet Download:	v3.12
Web Mission Planning:	v2.0.1
Project Management:	v1.16
Rinex Converter:	**v4.2.5**
SurvCom:	v1.37
WinComm:	v7.11
Languages:	English, French, German, Portuguese, Russian, Spanish

Upgrade procedure

Download the new version from ftp://ftp.ashtech/Land%20Survey/GNSS%20Solutions/

Upgrade procedure:
- Run **Setup.exe**
- Select your language if needed and click on "**Install GNSS Solutions 3.71**"
- Select the language you want for GNSS Solutions application
- Select Destination Folder
- Select Project Location
- Select Program Folder

Launch Applications using desktop icon or Windows Start Menu.

New features/Enhancements

- Added support of ProMark 120 and ProMark 220
- Post-process engine using QUARK format
- Import RINEX 2.12 and RINEX 3.01 raw data files
- Kinematic bar initialization
- New Geoid models available online http://resources.ashtech.com/GEOIDS/
    - OSGM02 for the Republic of Ireland
    - OSGM02 for Northern Ireland
    - Norway 2008
    - NN2000 for Norway
    - TRD2006 for Trondheim in Norway
    - SWEN08 RH70 for Sweden
    - SWEN08 RH2000 for Sweden
- Added coordinate system for Portugal Azores
- Restored old system POLAND/WGS 84/1992
- Updated RGP and IGS reference station lists
- Updated antenna database based on the latest NGS database
- Added LEICA in receiver database with same GLONASS biases as NOVATEL
- Rebranding from Ashtech to Spectra Precision

Resolved Problems/Improvements

- FNC 693: Land Survey report fails on Windows Vista (and Windows 7)
- FNC 2746: need to create Irish geoid which cover entirely Ireland
- FNC 2778: GNSS Internet download issue (mix up the day and month)
- FNC 2843: HRMS & VRMS have not the same value in GNSS Solutions and on the field
- FNC 2889: GNSS solutions with French OS (GNSS Solutions crashes when you open a job)
- FNC 2965: Fixed position with no SVs
- FNC 2979: GNSS statistics (Horz. and Vert. statistics not corresponding to the Baseline statistics)
- FNC 3038: GNSS Solutions failed to import RINEX files from Trimble VRS station

- ThBug00086830: Canopy trajectory is processed differently from different bases
- ThBug00086723: different residuals computed with V 3.71.1 and V 3.80.4
- ThBug00086822: Station position issue when downloaded Station data in a project with RGF93=ITRF93,1989,EURA
- ThBug00086803: measurements without restored full range from G-file by RDC lib
- ThBug00086725: vectors are not fixed with PM100/200 trajectory data
- ThBug00086745: float position got depending on station provider
- ThBug00086722: Import RINEX failed, no GLONASS L2 detected
- ThBug00086655: The LEICA receiver type is unknown in the list of various provider
- ThBug00086759: Sometime, the import of raw-data (atom), ID and antenna height are wrong
- ThBug00086720: No GLO L2 displayed
- ThBug00086653: Cannot download data (NMCU) from RGP network (ignore GLONASS bad data)
- ThBug00086488: Init bar is not reported in GNSS Solutions
- ThBug00086638: import of RINEX 3.01 NOK, never stops and make trouble on your computer
- ThBug00086637: no postprocessing using files RINEX 2.12 and 3.01 got with RINEX converter
- ThBug00086486: recorded Stop&Go file partially imported in GNSS Solutions
- ThBug00084575: Strange short dynamic occupation for static data if G-file is imported

- ThBug00086510: Process dynamic are created with static rawdata, (1 per epoch)
- ThBug00085367: Help file contains Magellan name and site
- ThBug00086470: cannot import some files while it's possible with the previous version
- ThBug00086486: recorded Stop&Go file partially imported
- ThBug00086439: the antenna height doesn't appears when we import raw data file
- ThBug00085546: GNSS Solutions crashes when process the 3rd of 3 vector
- ThBug00085707: Hatanaka files decompressed by ACOMS cannot be imported
- ThBug00085429: Wrong antenna name when importing several G-Files
- ThBug00085492: Raw data RINEX 3.01 aren't downloaded through GSSS Solutions
- ThBug00083244: The s/w imports RINEX 2.11 only
- ThBug00085709: It is impossible to create a new reference station network on Windows 7
- ThBug00086227: GNSS Solutions does not work on PC equipped with Windows 7

Known issues

- FNC 2926: Automated CORS download - not working from proxy server
- FNC 1906: Combine ProMark3 RTK with Stop&Go survey problems
- FNC 1849: RINEX converter 3.24 : Wrong RINEX file name
- FNC 1292: Static files create multiple occupations
- FNC 142: GNSS Solutions flagging Static data as Dynamic: Yields data unusable

- ThBug00086731   Stake out points with ProMark Field are imported as logged points
- ThBug00084569   No descriptions on the "Points" sheet if we apply "To Import and Process Single Sites"
- ThBug00082655   Impossible to create correct .CSV file in WGS84 as spatial reference system
- ThBug00082638   csv files cannot be directly imported from ProMark 100/200
- ThBug00082626   GNSS Solutions ignores offsets of the points (from G-file)
- ThBug00082589   ProMark Field Point Name is limited for 10 digitals in GNSS Solutions
- ThBug00066574   GNSS Solutions does not import localization files (.loc) from FAST Survey

Recommendations

N/A