

## Μέτρηση (και αρχικές ρυθμίσεις) με SP80 ή SP60 για RTK σύνδεση στο JGC-Net με το Survey Pro GNSS



**Screenshot 1: Home Screen (16:06)**  
 Τρίτη, 29 Δεκεμβρίου 2015  
 Survey Pro (highlighted)  
 GNSS Toolbox  
 Cosmote  
 Wi-Fi: Ανενεργό Bluetooth: Ενεργό

**Screenshot 2: Survey Pro Version 5.7**  
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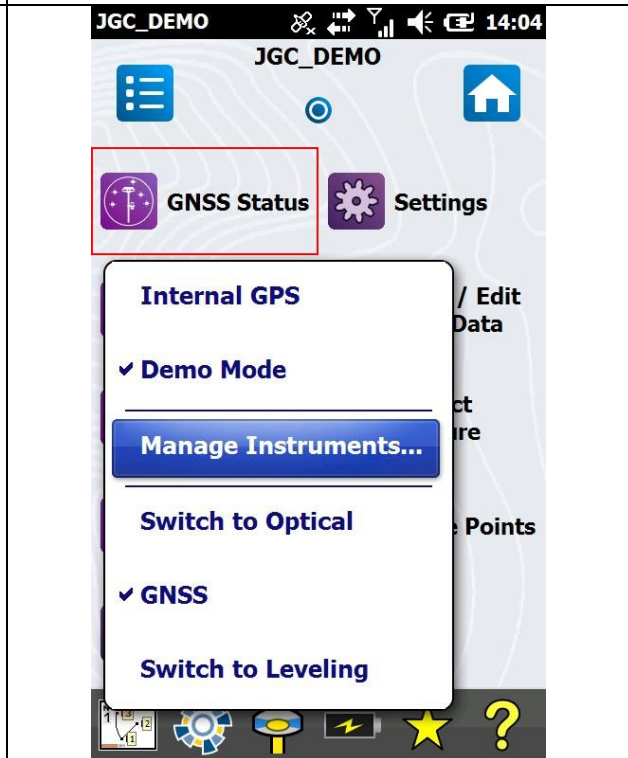
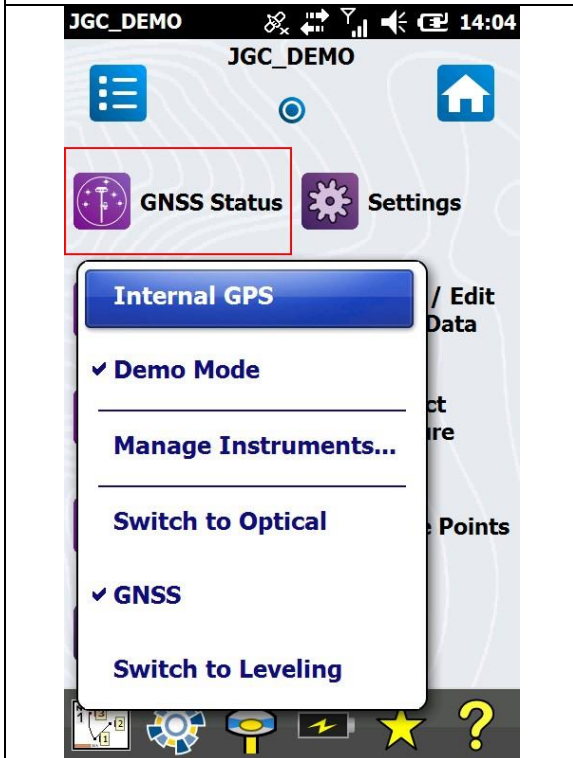
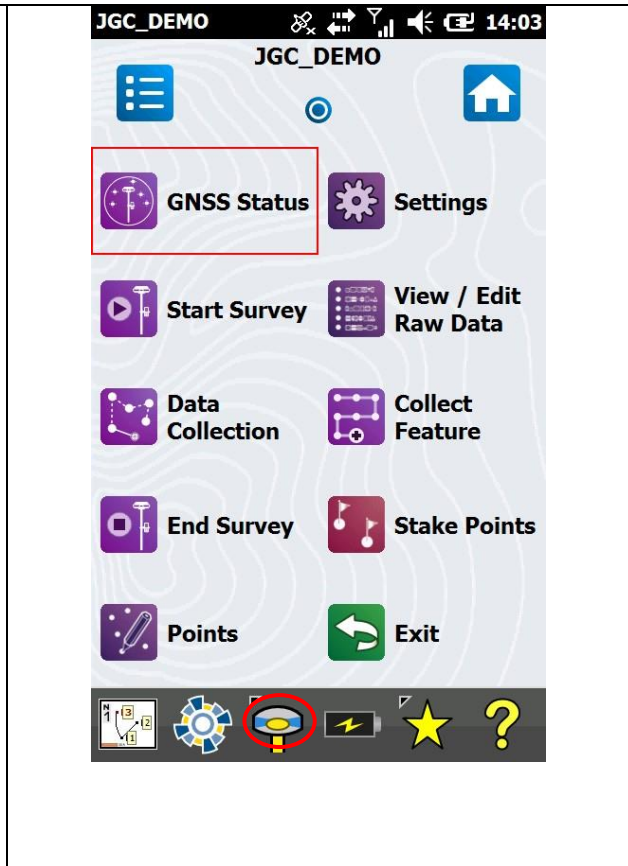
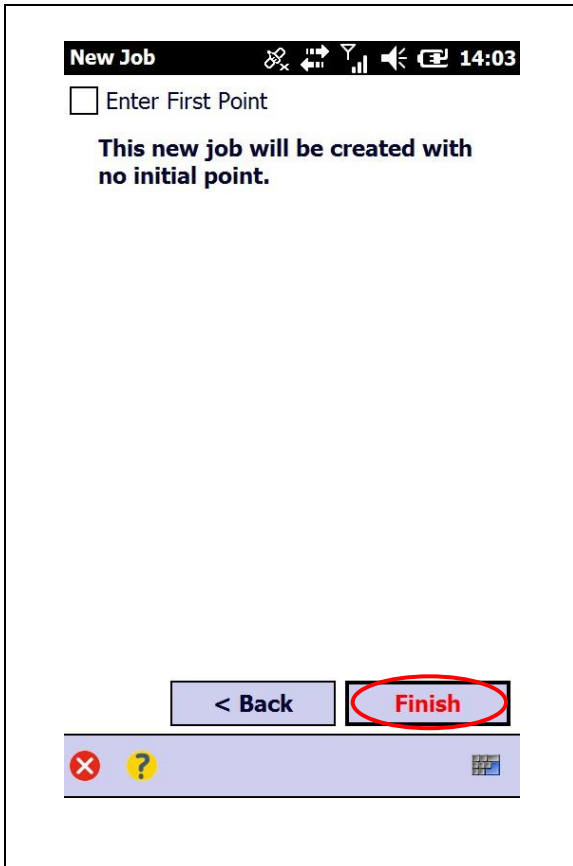
**Screenshot 3: Open a Recent Job (16:13)**

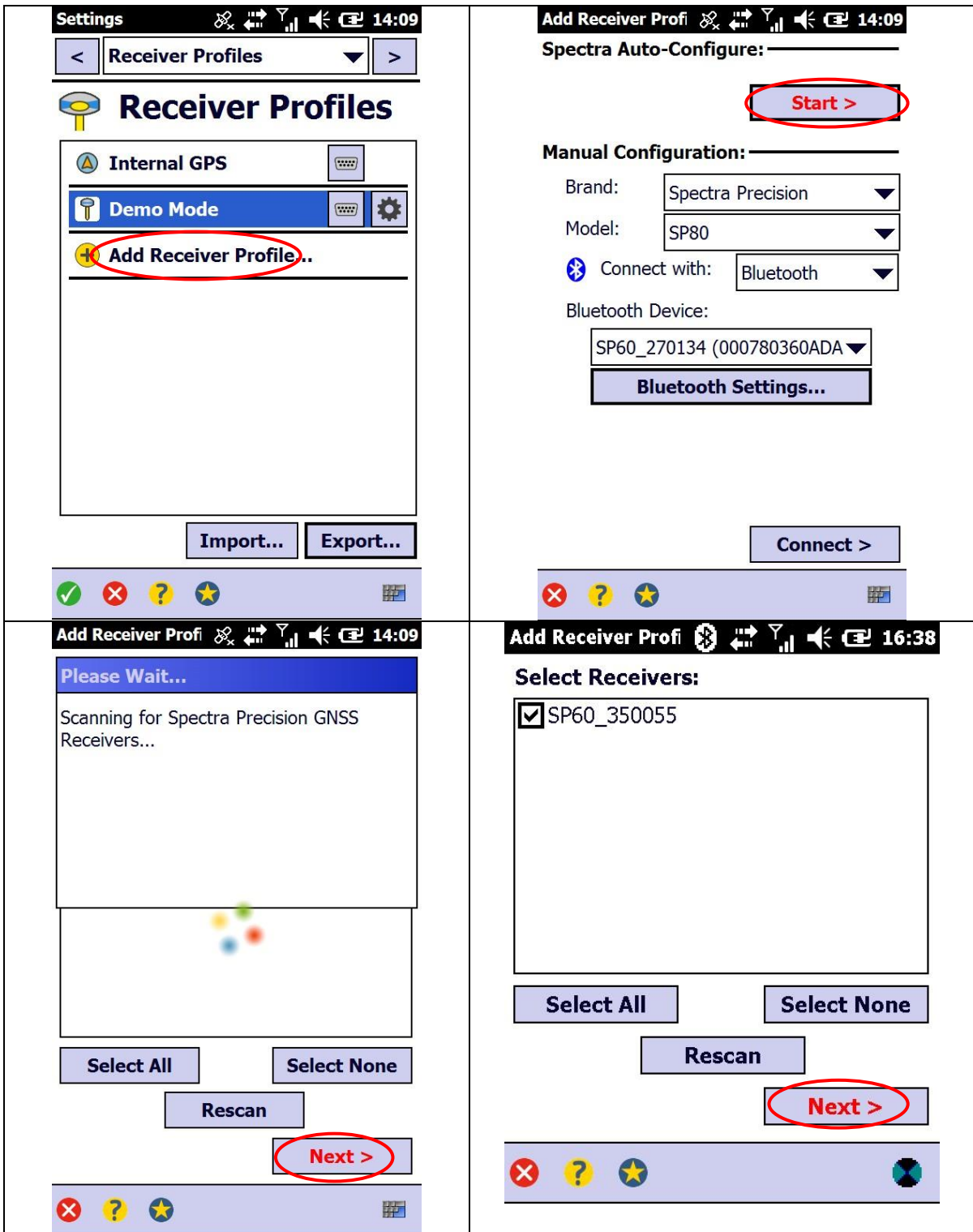
Filename	Modified
08-12-15	29/12/15 15:58:18

Buttons: Open, Browse..., New... (highlighted)

**Screenshot 4: New Job (16:24)**  
 Directory: \Survey Pro Jobs\  
 New Job Name: 08-12-15  
 Browse...  
 Current Settings:  
 Azimuth Type: North Azimuth  
 Grid Direction: North and East  
 Unit for Distances: Meters  
 Unit for Angles: Degrees  
 Refraction Coeff.: None  
 - Projection -  
 Region: Greece  
 Buttons: Create Job Now, Settings >

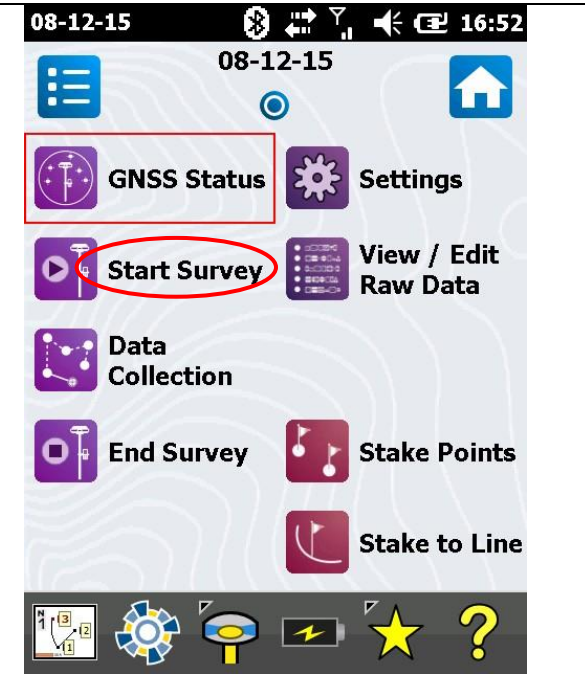
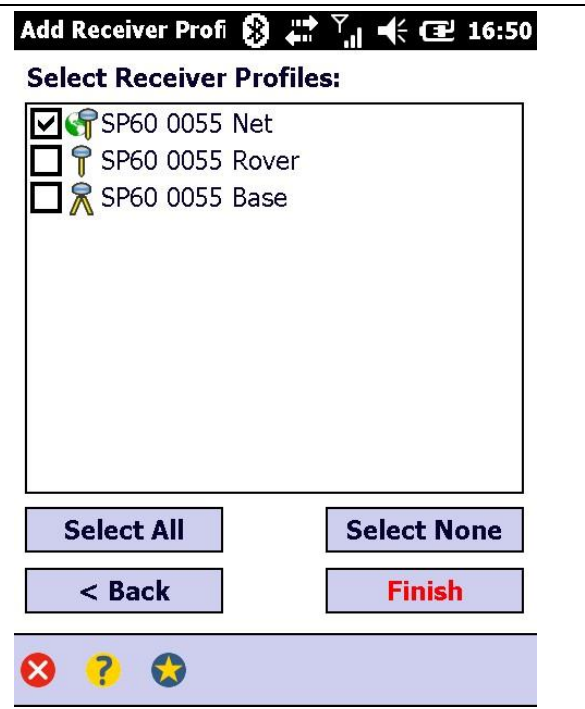
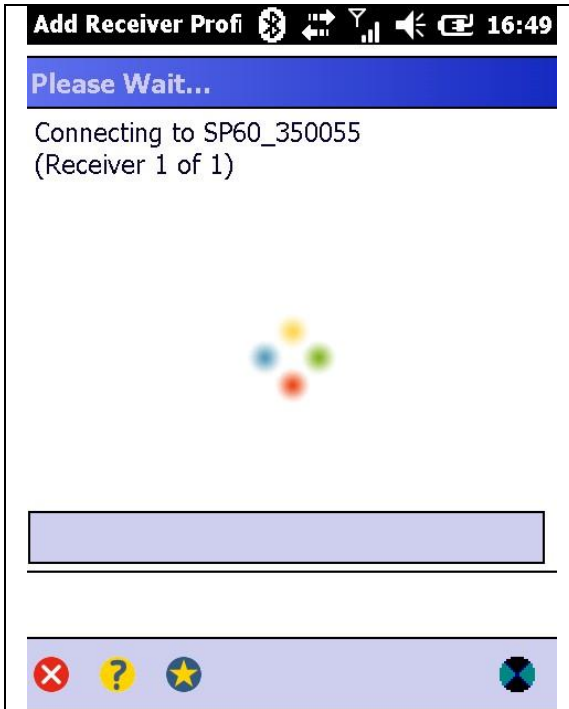
<p><b>New Job</b> 14:01</p> <p>Directory: <b>\Survey Pro Jobs\</b></p> <p>New Job Name: JGC_DEMO</p> <p>Current Settings: <b>Browse...</b></p> <p>Azimuth Type: North Azimuth        Grid Direction: North and East        Unit for Distances: Meters        Unit for Angles: Degrees        Refraction Coeff.: On: 0.14        - Projection -        Region: Greece        Zone: TM87        Datum: GGRS87        Geoid: GEOID_GR        - First Point -</p> <p><b>Create Job Now</b>   <b>Settings &gt;</b></p>	<p><b>New Job</b> 14:01</p> <p>Azimuth Type: North Azimuth        Grid Direction: North and East        Units for Distances: Meters        Units for Angles: Degrees</p> <p>Earth Curvature &amp; Refraction        Refraction Coefficient: On: 0.14</p> <p><b>&lt; Back</b>   <b>Next &gt;</b></p>
<p><b>New Job</b> 14:01</p> <p><input checked="" type="radio"/> No control or reference file  <input type="radio"/> Use a Control File  <input type="radio"/> Use an external Reference File</p> <p>Control File:  <input type="text"/>  <b>Browse...</b></p> <p><b>&lt; Back</b>   <b>Next &gt;</b></p>	<p><b>New Job</b> 14:01</p> <p><input checked="" type="checkbox"/> Select Coordinate System  <b>- Select Coordinate System -</b></p> <p><input checked="" type="radio"/> Zone from Database  <input type="radio"/> Broadcast RTCM</p> <p>Region: Greece        Zone : HEPOS_GGRS87/TM87        Datum: HEPOS_GGRS87  <input checked="" type="checkbox"/> Use Geoid : GEOID_GR</p> <p><b>&lt; Back</b>   <b>Next &gt;</b></p>





The image displays four sequential screenshots of a mobile application interface for adding a receiver profile:

- Top Left Screenshot (Settings - Receiver Profiles):** Shows the 'Receiver Profiles' screen with options for 'Internal GPS', 'Demo Mode', and 'Add Receiver Profile..'. The 'Add Receiver Profile..' button is circled in red.
- Top Right Screenshot (Add Receiver Profile - Spectra Auto-Configure):** Shows the 'Spectra Auto-Configure' screen with a 'Start >' button circled in red. Below it is the 'Manual Configuration' section with dropdown menus for Brand (Spectra Precision), Model (SP80), and Connect with (Bluetooth). A Bluetooth device 'SP60\_270134 (000780360ADA)' is selected, and a 'Bluetooth Settings...' button is visible.
- Bottom Left Screenshot (Add Receiver Profile - Please Wait...):** Shows a 'Please Wait...' dialog box with the text 'Scanning for Spectra Precision GNSS Receivers...'. Below the dialog are buttons for 'Select All', 'Select None', and 'Rescan'. The 'Next >' button at the bottom is circled in red.
- Bottom Right Screenshot (Add Receiver Profile - Select Receivers):** Shows the 'Select Receivers:' screen with a list containing one item: 'SP60\_350055' (checked). Below the list are buttons for 'Select All', 'Select None', and 'Rescan'. The 'Next >' button at the bottom is circled in red.



**Connect to Receiver** 16:53

Select Receiver Profile:

SP60 0055 Net

+ Add Receiver Profile...

Network: Central Cloud Corrections (R)

**Manage Networks...**

Connect >

**Settings** 16:55

Networks

**Networks**

+ Add Network...

Address: : 0

**Network Settings** 14:11

Name:

Setup Type: Network Rover

Server Type: Automatic

Address:

Port: 2101

User Name:

Password:

Force NTRIP Password

**Network Settings** 14:11

Name: JGC-NET

Setup Type: Network Rover

Server Type: Automatic

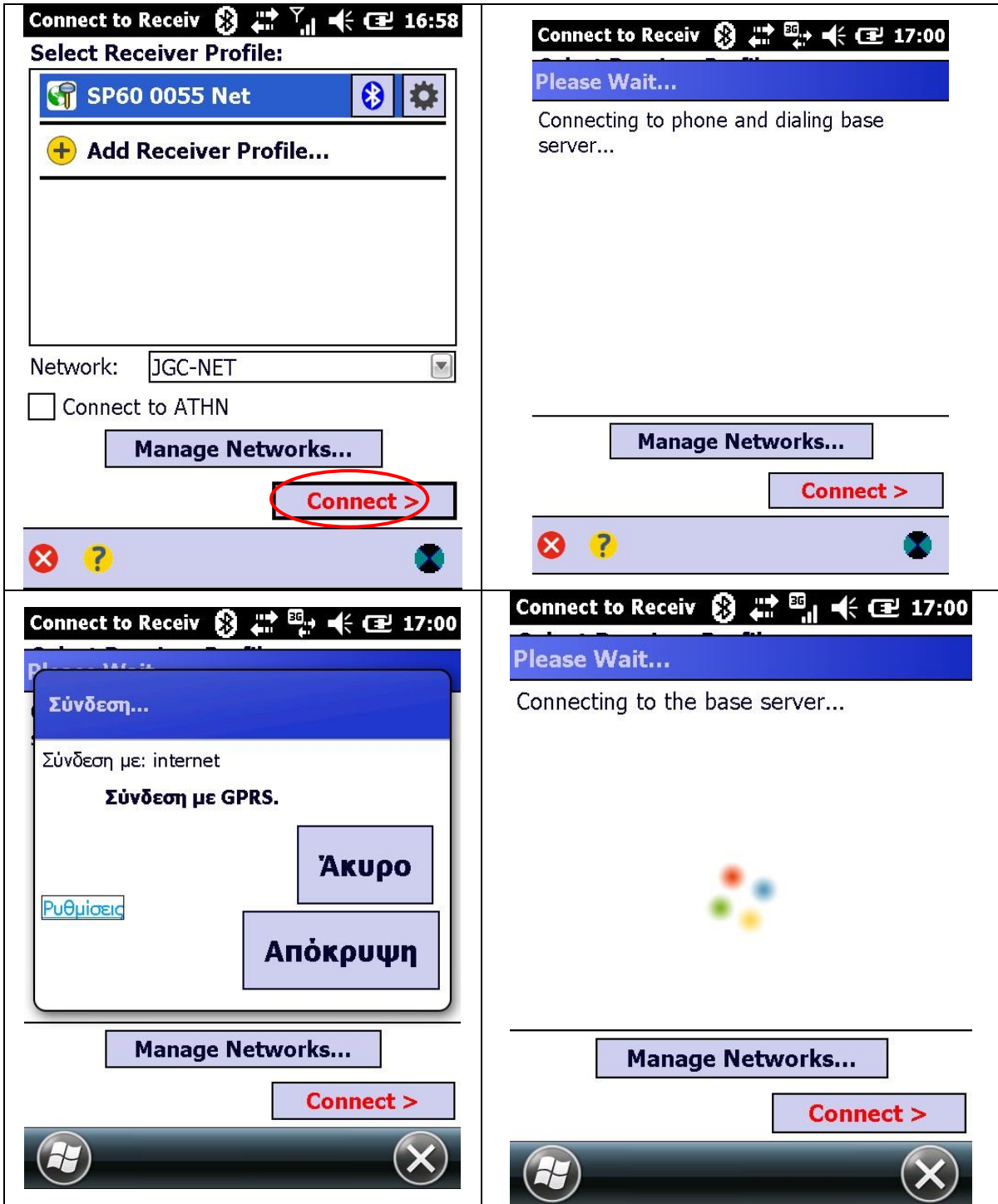
Automatic  
Use this to let the program detect the server type and take appropriate action.

NTRIP  
Use this to select from a list of available NTRIP services.

Direct IP  
Use this for any Direct IP Single Base server.

<p><b>Network Settings</b> 14:11</p> <p>Name: JGC-NET</p> <p>Setup Type: Network Rover</p> <p>Server Type: NTRIP</p> <p>Address:</p> <p>Port: 2101</p> <p>User Name:</p> <p>Password:</p> <p><input type="checkbox"/> Force NTRIP Password</p>	<p><b>Network Settings</b> 14:12</p> <p>Name: JGC-NET</p> <p>Setup Type: Network Rover</p> <p>Server Type: NTRIP</p> <p>Address: ntrip.jgc.gr</p> <p>Port: 2201</p> <p>User Name: jgc</p> <p>Password:</p> <p><input checked="" type="checkbox"/> Force NTRIP Password</p>
<p><b>Settings</b> 14:12</p> <p>Networks</p> <p><b>Networks</b></p> <p>JGC-NET</p> <p>+ Add Network...</p> <p>Address: ntrip.jgc.gr : 2201</p>	<p><b>SP80 0024 Net</b> 14:50</p> <p>Modem</p> <p>Modem: Current Internet</p> <p>Dial</p> <p>Current Internet</p> <p>Internal GPRS Modem</p> <p>Internal Wi-Fi</p>

Η ρύθμιση **current internet** αντιστοιχεί όταν η σύνδεση στο internet προέρχεται από το χειριστήριο, σαν την περίπτωση του **SP60**, ενώ η ρύθμιση **internal GPRS Modem**, αντίθετα, όταν προέρχεται από το εσωτερικό modem του δέκτη, σαν το δέκτη **SP80**.





**Connect to Receiv** 17:00

Please wait...

Detecting network settings...

**Connect >**

**Please Wait...** 17:00

Please Wait...

Connecting to the base server...

**Connect >**

**Connect to Receiv** 14:17

Select an NTRIP service:

Service Name	Type	Format
▲ IOAN	Single Base	RTCM 3.
▲ HERK	Single Base	RTCM 3.
▲ DRAM	Single Base	RTCM 3.
▲ CHIO	Single Base	RTCM 3.
▲ CHAN	Single Base	RTCM 3.
▲ CHAL	Single Base	RTCM 3.
▲ <b>ATHN</b>	Single Base	RTCM 3.

User Name:

Password:

Save user name and password

**Connect >**

**Start GNSS Surve** 17:04

~Float 0.6 s 1,334 14

**Rover Receiver**

Rover is ready to set with reference station '1'. Press [Finish] to continue.

**Rover Antenna:**

Antenna Type: **SPP101861** **Setup ...**

Measure To:

Measured:

Post Processing Recording Interval:

**Finish**

**Start GNSS Survey** 17:05

~Float 0.8 s 0,463 13

**Rover Receiver**  
 Rover is ready to set with reference station '1'. Press [Finish] to continue.

**Rover Antenna:**  
 Antenna Type: **SPP101861** **Setup ...**  
 Measure To: **Bottom of antenna mount**  
 Measured: 2,000 m

Post Processing Recording Interval: Off

**Finish**

**Start GNSS Survey** 17:06

~Fix 0.8 s 0,005 13

**Rover Receiver**  
 Rover is ready to set with reference station '1'. Press [Finish] to continue.

**Rover Antenna:**  
 Antenna Type: **SPP101861** **Setup ...**  
 Measure To: **Bottom of antenna mount**  
 Measured: 2,000 m

Post Processing Recording Interval: Off

**Finish**

**Data Collection** 14:52

Fixed 0.4 s 17  
 E: 482604,242 0,010  
 N: 4211810,188 0,015  
 El: 254,703 PDOP: 1,3

Point: 2

Feature:

Set HR 2,000 m : Vertical

**Topo SS** **Point** **Offset**

Input Result... Map

**Occupy Data Point** 17:09

Fixed 1.0 s 13  
 E: 482604,236 0,011  
 N: 4211810,190 0,014  
 El: 254,734 PDOP: 1,5

Map showing Base Setup 1

Session Time: 0:03  
 Occupying: 1

**Wait 2**

**Data Collection** 17:10

Fixed 0.8 s 14  
 E: 482604,227 0,006  
 N: 4211810,188 0,009  
 El: 254,742 PDOP: 1,5

Point: 3

Description: SS

Set HR 2,000 m : Vertical

Topo SS Point

Offset

Input Result... Map

**JGC DEMO** 14:51

Για να χαράξετε σημεία

GNSS Status Settings

Start Survey View / Edit Raw Data

Data Collection Collect Feature

End Survey Stake Points

Points Exit

**Stake Points** 14:53

By Points

+ Design Point: [icon] [input] [dropdown]

Desc.:

Next Point By Increment

1 Next Point

Rover: 2,000 to Bottom of mount

Setup HR... Stake >

**Select Point** 14:53

Point	Description	Easting (m)	N
1	Base Setup	482604,244	4
+	2	482604,243	4
+	3	482604,243	4

**Stake Points** 14:54

By Points

+ Design Point: 3

Desc.:

Next Point By Increment

1 **Next Point**

Rover: 2,000 to Bottom of mount

**Stake >**

**GNSS Staking** 14:54

Fix 0,009 17

Go NORTH: **0,002 m**

Go WEST: **0,001 m**

CUT: **0,002 m**

3

0,30 m

Ref: 0°00'00"...

Topo SS...

ROVING **Accept**

**Export** 14:54

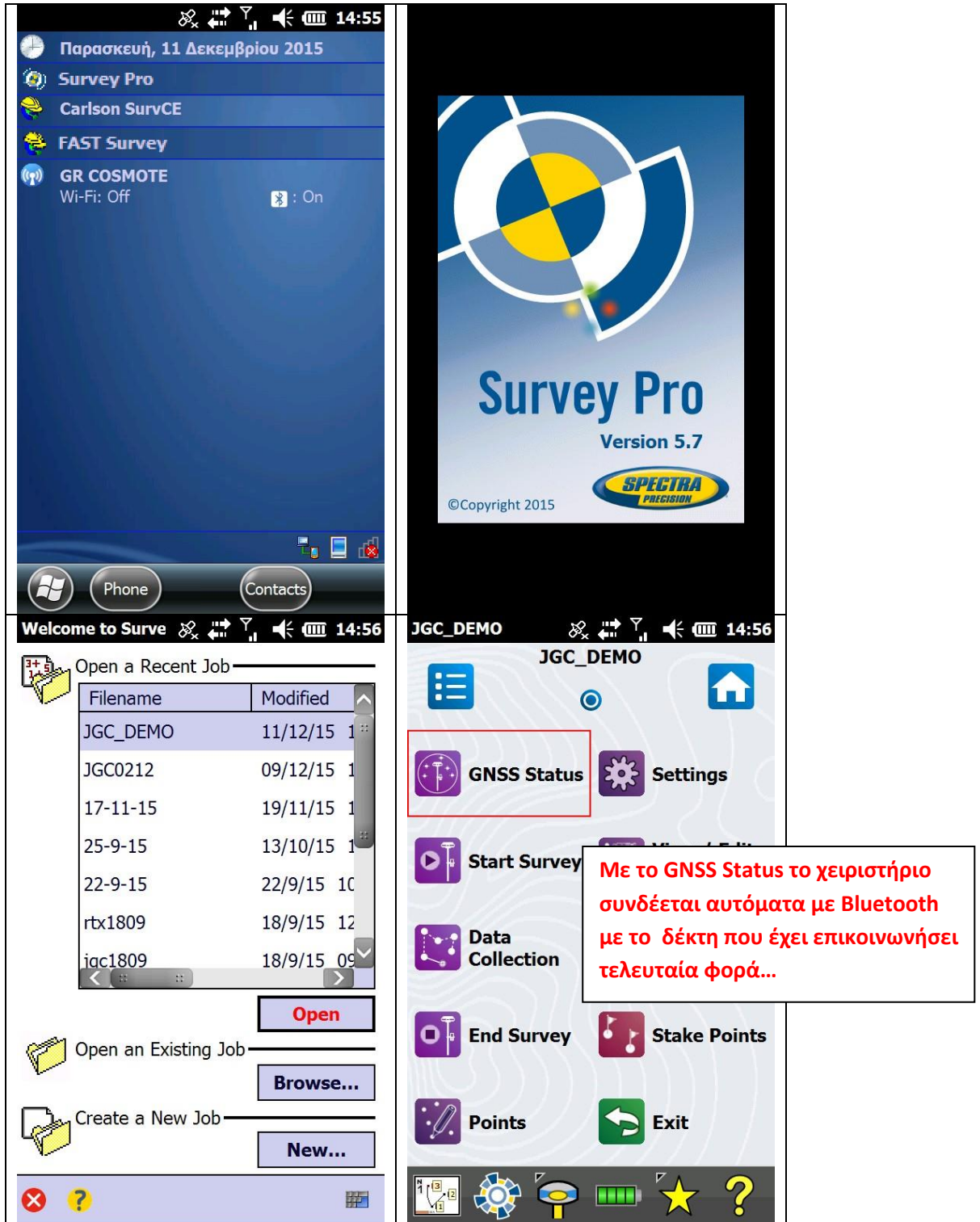
Select the Type of File to Export:

- Survey Pro (.SURVEY) File
- JobXML (.JXL) File
- Text (.TXT) File
- LandXML (.XML) File
- Survey Pro 4.x (.JOB / .R ...)
- Survey Pro 4.x (.JOB) File
- Comma Separated Values ...**
- TDS Coordinate (.CR5) File
- AutoCAD DXF (.DXF) File

**Για να εξάγετε τα σημεία**

<p><b>Export</b> 14:54</p> <p>Select the Type of File to Export:</p> <ul style="list-style-type: none"> <li><b>Select all points</b></li> <li>Clear all points</li> <hr/> <li>Select all control points</li> <hr/> <li>Select all non-control poi ...</li> <hr/> <li>Select by layer...</li> <hr/> <li>Select by distance...</li> <hr/> <li>Select by description...</li> <hr/> <li>Select by feature code...</li> <hr/> <li>List selected points...</li> </ul>	<p><b>Export</b> 14:54</p> <p>Please specify a delimiter and a unit for the file exported to:</p> <p><b>Delimiters</b></p> <p><input type="radio"/> Space <input checked="" type="radio"/> Comma <input type="radio"/> Tabs</p> <p><input type="radio"/> Other : <input type="text"/></p> <p><b>Coordinates</b></p> <p><input checked="" type="radio"/> Plane</p> <p><input type="radio"/> Geodetic(DMS)</p> <p><input type="radio"/> Geodetic(Decimal)</p> <p><b>Units</b></p> <p>Coordinates exported as:</p> <p><b>Meters</b></p> <p><input type="checkbox"/> Headers in the first row</p> <p align="center"><b>&lt; Back</b> <b>Next &gt;</b></p>
<p><b>Export</b> 14:55</p> <p><input type="radio"/> Name, Northing, Easting, Elevation, Description</p> <p><input checked="" type="radio"/> Name, Easting, Northing, Elevation, Description</p> <p><input type="radio"/> Name, Latitude, Longitude, Height, Description</p> <p><input type="radio"/> Name, Longitude, Latitude, Height, Description</p> <p align="center"><b>&lt; Back</b> <b>Export</b></p>	<p><b>Save As</b> 14:55</p> <p>Type: Text Files (*.TXT)</p> <p>\Survey Pro Jobs\</p> <p>Name: <b>JGC_DEMO</b></p> <ul style="list-style-type: none"> <li>Backup Of Files Converted To 5.5</li> <li>Backup Of Files Converted To 5.5.1</li> <li>Backup Of Files Converted To 5.7</li> <li>rtx1809-decimal.txt</li> <li>rtx1809-dms.txt</li> </ul>

**Μέτρηση (την επόμενη φορά που έχουν κρατηθεί οι ίδιες ρυθμίσεις) με SP80 ή SP60 για RTK σύνδεση στο JGC-Net με το Survey Pro**

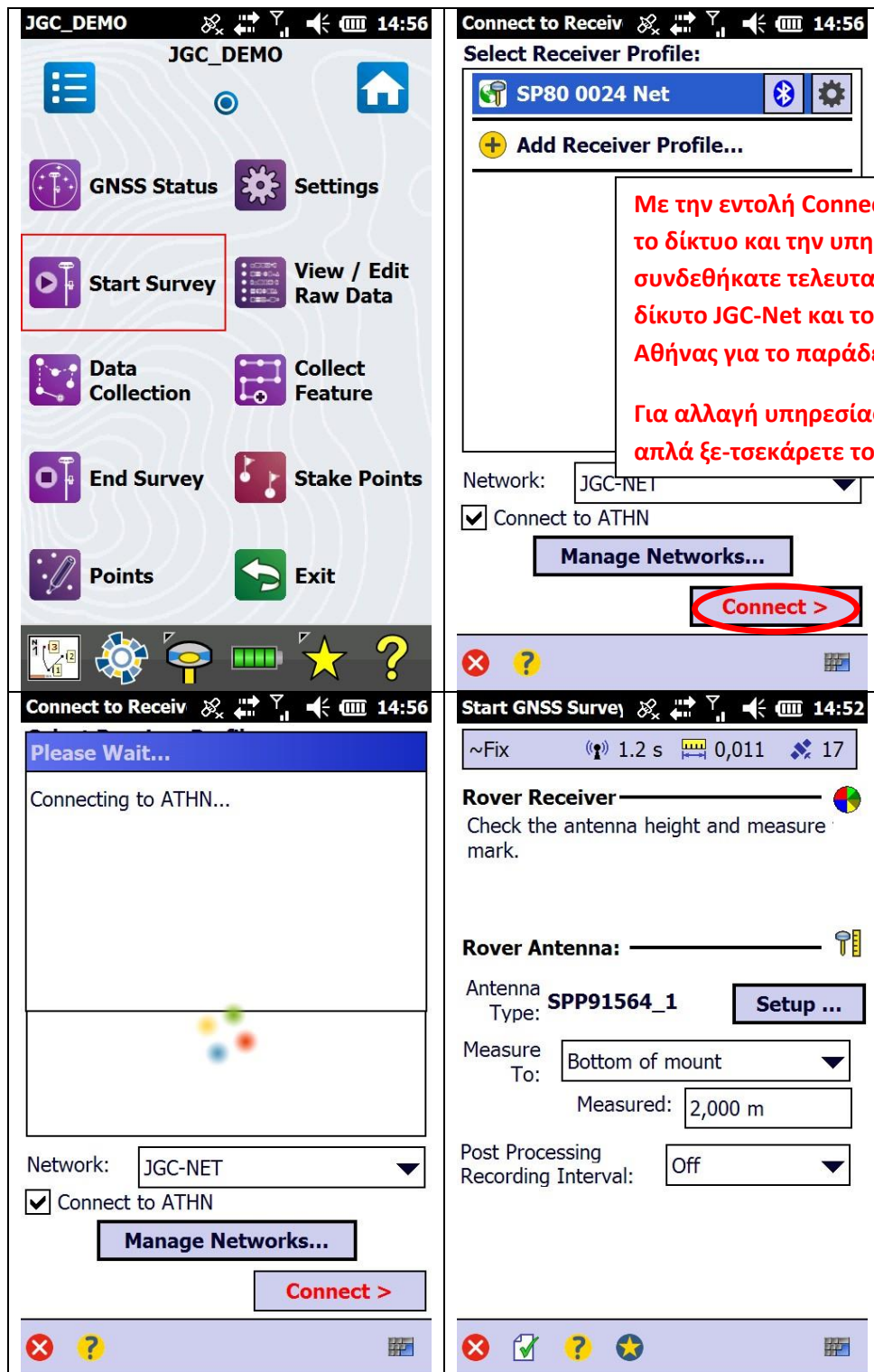


The image shows two screenshots of the Survey Pro application interface on a mobile device. The left screenshot shows the 'Welcome to Surve' screen with a list of recent jobs. The right screenshot shows the main menu with various options like 'GNSS Status', 'Settings', 'Start Survey', etc. A red box highlights the 'GNSS Status' option, and a text box explains its function.

**Table: Open a Recent Job**

Filename	Modified
JGC_DEMO	11/12/15
JGC0212	09/12/15
17-11-15	19/11/15
25-9-15	13/10/15
22-9-15	22/9/15
rtx1809	18/9/15
jgc1809	18/9/15

**Text Box:** Με το GNSS Status το χειριστήριο συνδέεται αυτόματα με Bluetooth με το δέκτη που έχει επικοινωνήσει τελευταία φορά...



The image shows two screenshots of the JGC DEMO mobile application. The left screenshot displays the main menu with the 'Start Survey' button highlighted by a red box. The right screenshot shows the 'Connect to Receive' dialog with the 'Connect >' button circled in red. A text box on the right provides instructions in Greek regarding network connection and service selection.

**Με την εντολή Connect συνδέεστε με το δίκτυο και την υπηρεσία που συνδεθήκατε τελευταία φορά... (με το δίκτυο JGC-Net και το σταθμό της Αθήνας για το παράδειγμα μας). Για αλλαγή υπηρεσίας του Δικτύου απλά ξε-τσεκάρετε το Connect to .....**

**Start GNSS Survey** 14:52

~Fix 0.6 s 0,006 17

**Rover Receiver**  
 Rover receiver is ready to set. Press [Next >] to continue.

**Rover Antenna:**  
 Antenna Type: **SPP91564\_1** **Setup ...**  
 Measure To: Bottom of mount  
 Measured: 2,000 m  
 Post Processing Recording Interval: Off

**Next >**

**Start GNSS Survey** 14:52

~Fix 0.8 s 0,006 17

**Select Base Point**  
 Base is set on a new job point.  
 Base is set on an existing job point.  
 Base Point: 1

**Base Antenna:**  
 Type: Unknown Broadcast  
 Measured To: Phase center  
 Offset: 0,000  
 Measured: 0,078

**Change ...**

**< Back**      **Finish**

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**Data Collection** 14:57

Fixed 0.4 s 17

E: 482604,245 0,007  
 N: 4211810,186 0,010  
 El: 254,708 PDOP: 1,3

Point: 4

Feature:

**Set HR** 2,000 m : Vertical

**Topo SS**      **Point**

**Offset**

Input    Result...    Map