

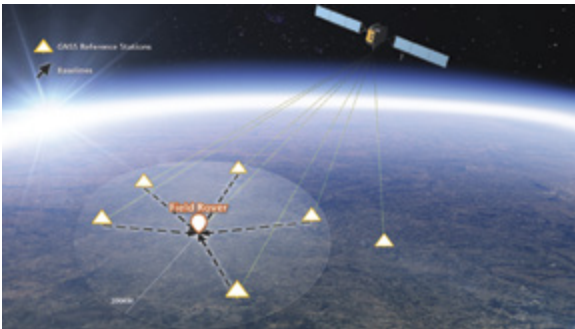
ONLINE PROCESSING APP TECHNICAL NOTES



The Trimble® Online Processing App enables automated online processing and delivery of field data. Based on the Trimble Pivot™ Platform, the Online Processing App provides a scalable architecture to accommodate operations ranging in size from a single base station to multi-station Real-Time Networks (RTN).

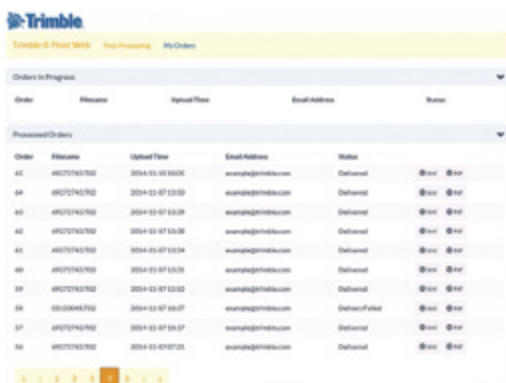
TRIMBLE ONLINE PROCESSING APP

The Trimble Online Processing App allows users to upload their field observation data to the web-based service to receive post-processed positions. The App supports various processing approaches, such as processing against multiple existing CORS stations, and applies a weighted mean adjustment. Alternatively, differential baseline computations against a static Virtual Reference Station are also supported. This approach uses all systematic error sources (e.g. Ionosphere, Troposphere, Multipath) and applies the corresponding estimated residuals to the post-processing result.



Concept of Trimble Online Processing App

The App supports various post-processing techniques such as static and kinematic processing. The Web UI guides the user through the workflow to configure the post-processing job. The user only has to select and upload the rover file to the server, making the workflow simple and straightforward.



Web UI of Trimble Online Processing App

REPORT GENERATION AND DISTRIBUTION

The Online Processing App automatically scans the file and applies the optimum processing parameters. Once the uploaded rover file is processed against up to six selected reference stations, a final report is generated that contains all significant and relevant processing parameters, including the final position. In addition, a weighted mean adjustment will take place to obtain the final coordinates.

Upon completion of the data processing, the report may be downloaded manually or may be distributed via Email to the end-customer, if required. The customer can choose between a XML or PDF files format. The information is stored in the database for future use and remains available. Post-processing and coordinate retrieval has never been so easy!



Trimble Pivot Platform Online Post Processing Report
<http://www.trimble.com>

Order Information

Order ID: 87
Upload File(s): BPTT04H.TB2
Upload date: 11/12/2014 09:40:12 UTC
Receiver: TRIMBLE NET9
Antenna: TRIMBLE100 ROME
Height: 0.000
Bottom of antenna mount

Processing Information

Session: 10/11/2014 13:00:00 UTC
Start time: 10/11/2014 13:59:59 UTC
End time:
Solution type: Static
Processing interval: 15 s
Ephemeris type: Broadcast
Reference frame: ITRF2008
Tectonic plate: None

Baselines

Station Code	Distance [km]	Observations (# total / # usable / # used satellites)
WTRT	61.56	3608 / 240 / 239 / 100%
CORR	72.66	2608 / 240 / 239 / 100%
CDPR	62.70	3608 / 240 / 239 / 100%
PTCL	112.13	3608 / 240 / 239 / 100%
CDNA	172.18	3608 / 240 / 239 / 100%

Adjustment Results for: BNTT

Coordinate	Value	σ [m]
E [m]	1221948.438	0.003
N [m]	4796525.127	0.005
U [m]	4658324.153	0.005
Latitude	39° 49' 28.154(0)° N	0.003
Longitude	104° 23' 33.373(7)° W	0.003
E. height	1459.151	0.006

Report Information

Software version: 3.5.4
Creation date: 11/12/2014 09:40:55 UTC

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Powered by Trimble Online Processing

Report containing processing statistics and final position



Why Post-Processing?

While real-time solutions are often the preferred method to achieve accurate field positions, there are many applications where post-processing is required. Especially when high accuracy is required or when working in areas with limited or no availability of real-time corrections, post-processing is usually the surveying method of choice. Even where not required, the option now exists to provide full data coverage in the event a real-time solution is not fully operable.



Workflow of Trimble Online Processing App

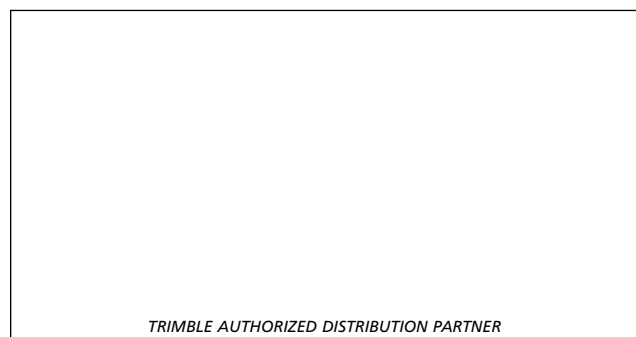
KEY FEATURES

FEATURE	EXPLANATION
Online Post-Processing	- Dual frequency observation required - Static mode - Single file and multiple file (ZIP) upload (Weighted mean) adjustment
Multiple file formats supported	- T02 - DAT - RINEX 2.x - RINEX 3.x
Processing options	CORS
Data validation	- Rover file (receiver, antenna info) - Extract processing period from rover file (max. 24 h)
Report generation	- XML and/or PDF - Automatic distribution via email (if required) - Manual download by end-customer
Accounting	- Full user login management available - Individual service management

ORDER INFORMATION

Default Configuration	Part Number
Trimble Online Processing App	96803-60

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