Product Update:
MAPPS Winter Conference 2020
Honolulu, Hawaii

Applanix Corporation – A Trimble Company
What’s new for Manned Aircraft Applications?

- Photogrammetry
- LiDAR
- SAR
- Thermal
- Hyperspectral
Applanix SmartBase Cloud

- Cloud version of Applanix SmartBase
  - Generates a set of observations for a virtual base station exactly where and when you need it, and emails it to your inbox ready for Differential GNSS processing

http://www.applanixsmartbase.com/
Post-processed CenterPoint RTX

- Survey grade accuracy *without base stations*
- Global, cloud based service available as a subscription over internet
- *Available within minutes after mission*
- **Accuracy:** < 4 cm RMS *Horizontal*, < 6 cm RMS *Vertical*
Airborne Test Results

- 100 Airborne data set, 220 hours
  - Various countries, varying altitude (0.16 - 8.7km), fixed wing, helicopter
  - Reference: Applanix Smartbase™ SBET solution

<table>
<thead>
<tr>
<th>Position components</th>
<th>RMS (m)</th>
<th>Sigma (m)</th>
<th>68% (m)</th>
<th>95% (m)</th>
<th>99% (m)</th>
<th>99.9% (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>North (m)</td>
<td>0.021</td>
<td>0.021</td>
<td>0.014</td>
<td>0.034</td>
<td>0.066</td>
<td>0.135</td>
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<tr>
<td>East (m)</td>
<td>0.020</td>
<td>0.020</td>
<td>0.012</td>
<td>0.032</td>
<td>0.066</td>
<td>0.155</td>
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<tr>
<td>Down (m)</td>
<td>0.056</td>
<td>0.050</td>
<td>0.052</td>
<td>0.110</td>
<td>0.156</td>
<td>0.245</td>
</tr>
</tbody>
</table>
What's new in UAV Applications?

**POSPac LiDAR QC Tools**

- UAV LiDAR boresight calibration
- UAV LiDAR trajectory adjustment
- LAS point cloud generator
UAV: POSPac Cloud

- On-line version of POSPac MMS™
- Available as an Application Program Interface (API) for Original Equipment Manufacturers (OEMs) to allow seamless integration of high accuracy direct georeferencing
- Enables subscription based licensing and pricing
Thank you for your attention

For more information, visit our web site:

www.applanix.com