



## Using HTML5 Scripts with Eos Tools Pro

Eos Tools Pro for iOS (starting with version 1.40) now offers an integrated browser for HTML5 scripts. This allows full access to the Arrow GNSS metadata (see below) and all the features of Eos Tools Pro (alarms and NTrip) in one app.

### Known issues and limitations:

- For https:// sites, the certificate must be saved on the device prior to launching the app.
- If you leave the browser page, data collection is interrupted until you return to the WWW menu.
- Intentionally, neither username nor password is saved. (only last html page is saved and launched automatically when “WWW” menu is launched)

### Sample HTML5 Script:

The screenshot shows the Eos Tools Pro app interface on an iPhone. The top status bar displays 'Bell', signal strength, 5:00 PM, and 59% battery. The app header features the Eos logo, 'Fix: DGPS', and a Tx/Rx indicator. Below the header is a 'Web' browser window displaying the URL 'http://www.test.com/arrow.html'. The main content area shows the 'Eos Tools Pro Test Page' with the following data:

- Latitude: 45.69318285
- Longitude: -73.63418176
- MSL: 20.989
- SatsUsed: 21
- pdop: 1.1
- hdop: 0.7
- vdop: 0.9
- diffAge: 7
- diffType: 2
- diffID: 133
- xyzAccuracy: 0.559
- zAccuracy: 0.455
- xyAccuracy: 0.325
- geoidSep: -32.46

The bottom navigation bar includes icons for Status, Alarm, Differential, Terminal, and Web.

```

<html>
  <head>

    <script type="text/javascript">
      function receivedNewEOSPosition(lat, lon, elv, numSatsUsed, pdop, hdop, vdop, diffAge, diffType, diffStn,
xyzAccuracy, zAccuracy, xyAccuracy, geoidSep)
      {
        document.getElementById('latElement').innerHTML = lat;
        document.getElementById('lonElement').innerHTML = lon;
        document.getElementById('elvElement').innerHTML = elv;
          document.getElementById('numSatsUsedElement').innerHTML = numSatsUsed;
          document.getElementById('pdopElement').innerHTML = pdop;
          document.getElementById('hdopElement').innerHTML = hdop;
          document.getElementById('vdopElement').innerHTML = vdop;
          document.getElementById('diffAgeElement').innerHTML = diffAge;
          document.getElementById('diffTypeElement').innerHTML = diffType;
          document.getElementById('diffStnElement').innerHTML = diffStn;
          document.getElementById('xyzAccuracyElement').innerHTML = xyzAccuracy;
          document.getElementById('zAccuracyElement').innerHTML = zAccuracy;
          document.getElementById('xyAccuracyElement').innerHTML = xyAccuracy;
          document.getElementById('geoidSepElement').innerHTML = geoidSep;

      }

    </script>
  </head>
  <body style='overflow-x: hidden; overflow-y: hidden; color: #2E2E2E; font-family: 'Lucida Grande', 'Lucida
Sans Unicode', 'Lucida Sans', 'DejaVu Sans', Verdana, sans-serif;'>
    <h2 style = "font-size: 20px; color: #2E2E2E; font-family: 'Lucida Grande', 'Lucida Sans Unicode', 'Lucida
Sans', 'DejaVu Sans', Verdana, sans-serif;" align='center' >Eos Tools Pro Test Page</h2>
    <br/>
    <center>
      <table width="200" border="0">
<tbody>
<tr>
  <td style="text-align: right"><strong style="color: #11358A">Latitude: </strong></td>
  <td><p id="latElement">Lat</p></td>
</tr>
<tr>
  <td style="text-align: right"><strong style="color: #11358A">Longitude: </strong></td>
  <td><p id="lonElement">Lon</p></td>
</tr>
<tr>
  <td style="text-align: right"><strong style="color: #11358A">MSL: </strong></td>
  <td><p id="elvElement">elv</p></td>
</tr>
*
* (etc)
*
  </tbody>
</table>
</center>
</body>
</html>

```

## **The GNSS Metadata:**

**lat** (Latitude in decimal degrees)

**lon** (Longitude in decimal degrees)

**elv** (GNSS coarse MSL Height; if accurate MSL height is required, Ellipsoidal must be computed first with the formula:  $\text{Ellipsoidal} = \text{MSL (elv)} + \text{Undulation (geoidSep)}$  and then a local geoid grid can be applied to the Ellipsoidal with  $\text{MSL/Orthometric} = \text{Ellipsoidal} - \text{Undulation}$ . Note that undulation value can either be positive or negative)

**numSatsUsed** (Number of satellites used in the position computation)

**pdop** (Position Dilution of Position)

**hdop** (Horizontal Dilution of Precision)

**vdop** (Vertical Dilution of Precision)

**diffAge** (Age of differential correction)

**diffType** (Position/fix type: 0=No solution, 1=GPS, 2=DGPS, 4=RTK Fixed, 5=Float)

**diffStn** (Differential Station ID)

**xyzAccuracy** (Estimated xyz accuracy)

**zAccuracy** (Estimated vertical accuracy)

**xyAccuracy** (Estimated horizontal accuracy)

**geoidSep** (Geoidal separation (undulation). See “elv” above)

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For support please contact [support@eos-gnss.com](mailto:support@eos-gnss.com) or call +1 (450) 824-3325. Web: [www.eos-gnss.com](http://www.eos-gnss.com)