

---

## Navdata Information

---

The Database Update subscription service is offered to provide current, accurate navigation information for your UNS System. NAV databases are compiled from official state sources and supplied to Universal Avionics Systems Corporation by Jeppesen Sanderson, Inc. or other qualified suppliers. NAV databases may also include customer tailored data not originating from a state authority, such as at private airports/runways and private arrival/departure procedures. The end user has the responsibility to verify the suitability of this data for the intended operation. Updates are available for download from Universal Avionics web site or are provided on 100MB iOmega Zip disks or 512MB USB Flash Drives. Updates are loaded into the UNS System via DTU-100 or SSTDU data transfer unit.

**Navigation information includes:**

**Airports:** Public use airports with plain-language references for locations having one hard surfaced runway at least 2,000, 4,000 or 5,000 feet long, depending on the coverage selected. Some private airports, and some airports with soft-surfaced and gravel runways are included.

**Nav aids:** VHF nav aids with plain-language references for: VORs, VOR/DMEs, VORTACs, TACANs, DMEs, ILS/DMEs and NDBs.

**Airways, Enroute and Terminal Waypoints:** All airway routes and enroute waypoints (intersections) published by government agencies for on-airway and off-airway navigation. The navdata also includes terminal waypoints (intersections) that are part of a SID, STAR or approach.

**SIDs, STARS and Approaches:** SIDs, STARS, approaches, enroute transitions and missed approach procedures for included airports. Includes ILS, LOC, BC, GPS, RNAV, VOR/DME/RNAV, VOR, VOR/DME, NDB, SBAS, GLS and TACAN approaches (NOTE: NDB approaches included only at WGS-84 referenced airports). Also includes LPV, LNAV/VNAV and LNAV only approaches defined by a Final Approach Segment (FAS) Data Block. Multiple approaches of the same type to the same runway are also included in the database; i.e. if there are two RNAV approaches to runway 23 charted as "RNAV (GPS) Y Rwy 23" and "RNAV (GPS) Z Rwy 23" they are displayed as "RNV Y 23" and "RNV Z 23" on the FMS. The multiple approach indicator may be an alpha or numeric character. The navdata contains a maximum of 99 SIDs, STARS or approaches at any particular airport. The navdata does **NOT** include vector only procedures or LDA approaches. Coverage for true-course SID, STAR and approach procedures are available to qualified operators, call for details. Some private and some special permission required SID, STAR and approach procedures are included.

**Runways:** Runways at included airports with a minimum length of 2000, 4000 or 5000 feet, as applicable. Some private runways, and some soft-surfaced and gravel runways are included.

**Updates** The annual subscription service includes thirteen updates shipped on a 28-day cycle. The navigation information is only valid for the 28-day period for which it was produced. New updates are sent from Universal Avionics and available on Universal Avionics web site prior to the effective date of each cycle update. Return expired media to Universal Avionics for recycling.

**NOTAMs** NOTAMs and NAVDATA Alerts are available from Jeppesen at <http://www.jeppesen.com>

**RTCA/DO-200A** Universal Avionics complies with applicable RTCA/DO-200A and FAA requirements as they apply to navdata for use by end customers in Universal Avionics' flight management systems with software control number 802.x/902.x or later. Universal Avionics publishes the compliance status and information concerning any data problems found during processing or after delivery on the company website at <http://www.uasc.com>.

The navigation databases may contain customer tailored data not originating from a State authority, such as private airports and runways or private arrival or departure procedures. The end user has the responsibility to verify the suitability of this data for the intended operation.

## UNS-1Ew, -1Espw, -1Fw and -1Lw

As defined in RTCA/DO-200A, the end user has the ultimate responsibility to ensure the data requirements are met. These responsibilities are satisfied, in part, by obtaining navigation data from an RTCA/DO-200A-compliant supplier such as UASC. By using UASC navigation data, the end user accepts the data quality requirements defined by UASC in the UASC *RTCA/DO-200A Compliance Plan for the Navigation Databases*, a copy of which can be obtained from UASC upon request. **Further, per RTCA/DO-200A, the end user should verify the navigation data is current, valid, and appropriate for the intended operation. The end user also should become familiar with applicable notices to airmen (NOTAMs), Jeppesen NavData Alerts, and UASC Navigation Data notices and alerts that may affect operation. Finally, the end user should notify UASC if it discovers an error or inconsistency in the data.**

**Discounts**

A navdata subscription is required for each aircraft. Contact Universal Avionics Marketing at (520) 295-2300 or (800) 321-5253. Fax: (520) 295-2394. E-mail: [navdata@uasc.com](mailto:navdata@uasc.com).

To start your update service, please complete the enclosed order form and return it to Universal Avionics via fax at (520) 295-2394 or e-mail to [navdata@uasc.com](mailto:navdata@uasc.com).

26-Jan-2012

<b>World Coverage</b>		
<b>1000-W2 Zip *</b> <b>1000S-W2 **</b>  <b>2000' Runways</b>	<b>1000-W4 Zip *</b> <b>1000S-W4 **</b>  <b>4000' Runways</b>	<b>1000-W5 Zip *</b> <b>1000S-W5 **</b>  <b>5000' Runways</b>
<p>Worldwide coverage. Contains VHF and NDB nav aids with plain language references, enroute and terminal waypoints, high and low altitude airways, airports, SIDs, STARs, approaches and missed approach procedures for all ten ARINC areas.</p>		
<b>World Helicopter</b>		
<b>1000-H Zip *</b> <b>1000S-H **</b>  <b>World Helicopter</b>		
<p>Worldwide coverage. Contains airports (runways <math>\geq 2000</math> ft) with plain language references, VHF and NDB nav aids, high and low altitude airways, SIDs, STARs, approaches and missed approach procedures for all ten ARINC areas. Also includes airports of all runway lengths (hard and soft surface) in the North American geographical area bounded by N50°, W95°, N23° and W65° and selected heliports in other locations.</p> <p><b>NOTE: Contains airports, runways and facilities not suitable for fixed wing aircraft</b></p>		

\* DTU-100 (100MB Zip Disk Media)

\*\*Solid State DTU (512MB USB Flash Drive Media)

**ORDER FORM**

<p><b>Send Database Updates To:</b></p> <p>Name: _____</p> <p>Title: _____</p> <p>Company: _____</p> <p>Address: _____</p> <p>_____</p> <p>City: _____ State: _____</p> <p>Province: _____ Postcode/Zip: _____</p> <p>Country: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>e-mail: _____</p> <p>Airplane is based at _____ Airport</p>	<p><b>Send Invoice To:</b></p> <p>Name: _____</p> <p>Title: _____</p> <p>Company: _____</p> <p>Address: _____</p> <p>_____</p> <p>City: _____ State: _____</p> <p>Province: _____ Postcode/Zip: _____</p> <p>Country: _____</p> <p>Phone: _____</p> <p>Fax: _____</p> <p>e-mail: _____</p>
---	--

**Additional e-mail addresses for NavData Alerts:**

Name: _____	e-mail: _____
Name: _____	e-mail: _____
Name: _____	e-mail: _____

Aircraft Type	Aircraft Registration Number	Aircraft Serial Number	Database Region Part Number	Price Per Year

<input type="checkbox"/> <b>Internet Download Only</b>	
Arizona customers must add appropriate sales tax Add \$75.00 international shipping surcharge for each item sent out of USA	<b>AZ Sales Tax @ 8.1%</b> \$75.00 x _____
<b>IS YOUR DATABASE EXPIRED</b> <input type="checkbox"/> Yes <input type="checkbox"/> No If so, do you want the initial update shipped by FedEx? Shipping charges will be added to the invoice. <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>TOTAL</b>

**We will e-mail order confirmation and a copy of the invoice after the order is entered.**  
  
**For credit card payments, please contact Universal Avionics Accounts Receivable during normal business hours with your credit card number, expiration date, and invoice number at 800-321-5253 or 520-295-2300. Ask for Accounts Receivable.**

The Database Update subscription service, provided to support UNS System(s), is comprised of copyrighted data compilations and programs owned by Jeppesen-Sanderson, Inc. Customer agrees that he shall not copy, distribute or use any portion of any said copyrighted subject matter, except in connection with the ordinary and intended use of the UNS System(s) installed in the aircraft identified above. Customer acknowledges and agrees to comply with the explicit condition of sale which allows the corresponding subscription to be used to update only the aircraft as referenced above.

**This subscription is non-refundable.**  
**FAX or E-Mail completed order form to (520) 295-2394 or navdata@uasc.com**

