

Application		Revisions			
Next Assy	Used On	Rev.	Description	Date Approved	Approved
		1	Initial Release per EC 9932	3/21/11	MJL
		2	Revised per EC 10219	10/26/11	MJL
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		5	Revised per EC 12093	6/13/14	MJL
		6	Revised per EC 12391	11/5/14	MJL
		7	Revised per EC 13003	4/11/16	DB/MJL
		8	Revised per EC 13589	8/14/18	DB
		9	Revised per EC 14408	02/11/2020	DB
		10	Revised per EC 14758	7/21/2020	DB
		11	Revised per EC 15090	10/11/2021	DB

**CONFIGURATION
MANAGEMENT
CONTROLLED
REFERENCE**

Aeronautical Database Compatibility Matrix

FAA Approved _____ Date April 12, 2022

Nicholas Faust

Manager, Boston Aircraft Certification Office Branch

Contract Number:		 Innovative Solutions & Support	
Contractor:			
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Design Approval: R. Aldrete	Date: 3/18/11	Form# 07315-372 Rev - SHEET 1 of 7	

Revision History

- Rev 11** Section 3.0 - Updated Jeppesen Navigation Database from XXX XXXJ15 to XXX XXXJ17.
- Rev 10** Section 3.1 – Added Jeppesen Obstacle Database, XXX XXXJ01 and NGA Terrain Database to Eclipse 9K-07048-5; updated Note (4) to include Eclipse 9K-07048-5 SVS
- Rev 9** Section 3.0 - Updated Jeppesen Navigation Database from XXX XXXJ13 to XXX XXXJ15.
- Rev 8** Title page – Changed document title to read Aeronautical Database Compatibility Matrix, made same title change on all pages throughout, changed manager's name for BACO.
 Section 1.0 –edited text to represent any and all electronic databases in use at IS&S, updated AC 20-153B.
 Section 1.1- Updated AC 20-153B, changed text navigation to read aeronautical; Added supporting software information
 Section 2.1 – Added reference documents for Obstacle Database, Terrain Database, Navigation Database and E-chart/Map DB; deleted document 1D-08532, superseded by 1D-13218
 Section 2.2 – Deleted RTCA/DO-200A, AC 20-153A and adjusted tile for RTCA/DO-200B
 Section 3.0 – Changed NavDB to read electronic databases, deleted text Navigation (2 places), added new row for 9K-88103-1 PC-12 FPDS with original IFMS NavDB (F01) and new IS&S Obstacle Database compatibility information, added new Note(4) for Obstacle Database; Added compatible E-Chart DB & Map File Information 15" MFD, Eclipse, and PC12; Added compatibility information for Cessna and C130
 Sec 3.1 – para. 1 made minor text edits, added aircraft type under SYSTEM PART NUMBER column, , added EFB software part numbers that also use the Navigation Database for E-CHART Map overlays, made corrections to System Part Numbers for 9K-88016-5 for B-737 with LP-NAV, deleted 2 rows titled as 9K-88016-1 and -3, added new row for 9K-88083-1 CDS C-130/L100 and corrected row for 9K-88103-1 by adding the IOICP and EFB software; revised NOTE (4); added i) to LRU Part Number Column for 9K-88103-1; added h) & i) to Maintenance column for 9K-88103-1.
- Rev 7** Section 3.0 – Added the following:
 Compatible NAV DB file information
 System compatibility matrix for 9k-88016-1 systems.
 Section 3.0 - Updated Jeppesen Navigation Database Part Number.
- Rev 6** Section 3.0 – Added 9K-88016-1 System and 9D-87012-1 AN-MCDU LRU to Compatibility Matrix
- Rev 5** Section 3.0 – Removed 9K-88022-1 System from Compatibility Matrix
- Rev 4** Section 3.0 – Updated Jeppesen Navigation Database Part Number and additional system part numbers
- Rev 3** Section 3.0 – Updated Jeppesen Navigation Database Part Number
- Rev 2** Updated as requested by FAA
- Rev 1** Initial Release of document

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1.0 INTRODUCTION

This document defines the Compatibility Matrix for all aeronautical electronic databases in use at Innovative Solutions & Support (IS&S) that are intended for use in aircraft. This document defines the product and software compatibility for the individual databases, change process, and approval authority. This document meets the intent of AC 20-153B.

1.1 PURPOSE

The purpose of the Compatibility Matrix under AC 20-153B is to create a list of aeronautical databases, show what products they are compatible with, and provide a vehicle to be maintained without causing undo maintenance burden on the IS&S Type 2 LOA. Supporting Electronic Flight Bag (EFB) and graphic display software compatibility is also included in support of the database information

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2.0 REFERENCE DOCUMENTS

2.1 IS&S DOCUMENTS

Document Number	Document Title
1D-12788	RTCA/DO-200B Compliance Plan & Report for Processing Aeronautical Data – Obstacle Database
1D-13217	RTCA/DO-200B Compliance Plan & Report for Processing Aeronautical Data –E-Chart Database
1D-13218	RTCA/DO-200B Compliance Plan & Report for Processing Aeronautical Data –Navigation Database (Supersedes 1D-08537)
1D-13263	RTCA/DO-200B Compliance Plan & Report for Processing Aeronautical Data –Terrain Database
1U-03469	Quality Assurance Manual for FAA Programs
1U-08849	Quality Control Manual for Processing Aeronautical Data – Navigation Database
1U-12956	Quality Control Manual for Processing Obstacle Aeronautical Data
1U-13262	Quality Control Manual for Processing Terrain Aeronautical Data
1U-13601	Quality Control Manual for Processing E-Chart Aeronautical Data

2.2 FAA AND INDUSTRY DOCUMENTS

Standard	Description / Title
RTCA/DO-200B	Standards for Processing Aeronautical Data
AC 20-153B	Acceptance of Data Processes and Associated Navigation Databases

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3.0 COMPATIBILITY MATRIX

3.1 ELECTRONIC DATABASES

IS&S will add electronic databases to the following matrix as they become qualified. The information below indicates the aircraft hardware and software part numbers that are compatible with the corresponding Aeronautical Databases' Part Numbers. The three-digit identifier at the end of the Navigation Databases' part number (*.F01, *.F02) corresponds to the version of the IS&S Navigation Database Conversion Tool that was used to generate the database.

SYSTEM PART NUMBER	PRODUCT NAME	LRU PART NUMBERS ⁽³⁾	MAINTENANCE ⁽²⁾
9K-07048-1 – Eclipse 500 Flat Panel Display System (FPDS)	IS&S Integrated Flight Management System (IFMS) with E-Charts (EFB) ⁽¹⁾⁽⁵⁾	a) IS&S MFD Hardware, 9D-84100-1; b) IS&S MFD Top Level Software, 7H-84100-xx; c) IS&S MFD FMS Software, 7H-08044-xx; d) IS&S MFD EFB Software, 7H-07930-xx e) Jeppesen Navigation Database, XXX XXXJ17 (*.F01) f) Jeppesen E-Chart Database, Jeppesen eChart	a) TSOA b) TSOA c) TSOA d) TSOA e) Compatibility Matrix for Type 2 LOA f) TSOA
9K-07048-5 –Eclipse 550 Flat Panel Display System (FPDS)	IS&S Integrated Flight Management System (IFMS) with E-Charts (EFB) ⁽¹⁾⁽⁵⁾ IS&S Synthetic Vision System (SVS) ⁽⁴⁾	a) IS&S PFD Hardware, 9D-84098-3; b) IS&S PFD/MFD Field Loadable Software, 7H-09940-xx; c) IS&S PFD FMS Software, 7H-09942-xx; d) IS&S PFD EFB Software, 7H-09945-xx e) Jeppesen Navigation Database, XXX XXXJ17 (*.F01) f) Jeppesen E-Chart Database, Jeppesen eChart g) Jeppesen Obstacle Database, XXX XXXJ01 h) NGA Terrain Database	a) TSOA b) TSOA c) TSOA d) TSOA e) Compatibility Matrix for Type 2 LOA f) TSOA g) Compatibility Matrix for Type 2 LOA h) Compatibility Matrix for Type 2 LOA
9K-07148-5 – Cessna Flat Panel Display System (FPDS)	IS&S E-Charts (EFB) ⁽⁵⁾	a) IS&S ECSU Hardware, 9D-87006-1; b) IS&S ECSU Top Level Software, 7H-08706-9; c) IS&S ECSU EFB Software, 7H-07959-9; d) Jeppesen E-Chart Database, Jeppesen eChart	a) TSOA b) TSOA c) TSOA d) TSOA

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SYSTEM PART NUMBER	PRODUCT NAME	LRU PART NUMBERS ⁽³⁾	MAINTENANCE ⁽²⁾
9K-88016-1 –B-737 Flight Management System (FMS)	IS&S Integrated Flight Management System (IFMS) ⁽¹⁾	a) IS&S AN-MCDU Hardware, 9D-87012-1; b) IS&S AN-MCDU Top Level Software, 7H-87012-07 and earlier; c) IS&S AN-MCDU FMS Software, 7H-09660-07 and earlier; d) Jeppesen Navigation Database, XXX XXXJ17 (*.F02)	a) TSOA b) TSOA c) TSOA d) Compatibility Matrix for Type 2 LOA
9K-88013-5 –B-737 (w LP-Nav) Flight Management System (FMS)	IS&S Integrated Flight Management System (IFMS) ⁽¹⁾	a) IS&S DCU Hardware, 9B-84136-7; b) IS&S DCU Top Level Software, 7H-12988-9 and newer; c) IS&S DCU FMS Software, 7H-12981-09 and newer; d) Jeppesen Navigation Database, XXX XXXJ17 (*.F02)	a) TSOA b) TSOA c) TSOA d) Compatibility Matrix for Type 2 LOA
9K-88083-1 CDS C-130/L100 iAccess	IS&S Integrated Flight Management System (IFMS) ⁽¹⁾	a) IS&S AN-MCDU Hardware, 9D-87009-5; b) IS&S AN-MCDU Top Level Software, 7H;10832-xx c) IS&S AN-MCDU FMS Software, 7H-10705-xx a) Jeppesen Navigation Database, XXX XXXJ17 (*.F02)	a) TSOA b) TSOA c) TSOA d) Compatibility Matrix for Type 2 LOA
9K-88103-1 – PC12 Flat Panel Display System (FPDS)	IS&S Integrated Flight Management System (IFMS) ⁽¹⁾ IS&S Synthetic Vision System (SVS) ⁽⁴⁾ IS&S E-Charts (EFB) ⁽⁵⁾	a) IS&S PFD Hardware, 9D-84098-5; b) IS&S PFD Top Level Software, 7H-12482-7 (or later) c) IS&S PFD IOICP Software, 7H-12483-xx d) IS&S PFD GRP Software, 7H-12484-03 (or later); e) IS&S PFD EFB Software, 7H-09945-xx f) Jeppesen Navigation Database, XXX XXXJ17 (*.F01) g) Jeppesen Obstacle Database, XXX XXXJ01 h) NGA Terrain Database i) Jeppesen E-Chart Database	a) TSOA b) TSOA c) TSOA d) TSOA e) TSOA f) Compatibility Matrix for Type 2 LOA g) Compatibility Matrix for Type 2 LOA h) Compatibility Matrix for Type 2 LOA i) Compatibility Matrix for Type 2 LOA
NOTE (1): This Type 2 LOA only applies to the FMS-NavDB. NOTE (2): Changes to the IS&S part numbers listed on a TSOA will be submitted to the BACO under the TSOA process, in accordance with 1U-03469. Changes affecting the last three (3) digits of any Database Part Number will require this document, 1D-08880, to be submitted to the BACO for approval. NOTE (3): The NAV DB type (*.F01 or *.F02) identifies NAV DB file compatible to the corresponding system. NOTE (4): This Type 2 LOA only applies to the Obstacle Database and Terrain Database used by the PC-12 9K-88103-1 SVS and Eclipse 9K-07048-5 SVS. NOTE (5): This Type 2 LOA only applies to E-Charts database and Map file (EFB).			
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