US Domestic Enroute CPDLC Update

David Mumford 29 November, 2023



Key Points

- Domestic en-route CPDLC in the US is now available to everyone the Notam limiting GA/BA participation to approved trial participants has been removed.
- To get CPDLC, you've got to have the right avionics the FAA has published a list of aircraft types, which you will need to check to see if you comply.

Here's a very brief summary. For the full, untarnished info, head to the dedicated FAA site here.

So for a long time, domestic en-route CPDLC in the US was only available to operators of bizav aircraft who were signed up to the FAA trial. That trial has now ended, and as long as your avionics make the grade, you can now make use of this service.

The FAA has published a list with a whole bunch of aircraft types on it.

If your aircraft is highlighted in **yellow** or **green**, you can get datalink – as long as you complete and submit the participation form.

If it's highlighted in **red** (or not on the list at all), you can't get datalink.

Aircraft Manufacturer	Aircraft Type	СМИ Туре	FMS Type	Radio Type	Reason	FPL Filing En Route	Pathway to Compliance	Compliance/ Exemption Date
None	None	None	None	None	N/A	None	N/A	N/A
Boeing	8737	RCI 900-151 Core 12, or ATN 905 (Core 12 Equivalent)	GE U14.1, or GE U13, or GE U12, or GE U11	PRW YHF-RTA-44D (w/S8 064- 50000-2001), or WY YHF RTA-50D, or RCI YHF-2100 (w/S8501 or P/N 822-1287-101/180 w/S87 or 822- 1287-121 or 141), or RCI YHF-920 (P/N 822-1250-002 w/S817), or RCI YHF-2100E (P/N 822-2168- 121)	Gore-12 is more susceptible to VOI, Mode 2 A/G handoff and delivery issues	FANSE	Upgrade to Core 16 for A/G handoff and delivery issues. Requires that the evaluation of the accumulated 10,000 operational transactions is complete and satisfactory.	TBO
Boeing	B737	HW MARK II+ v523, or RCI 900-151 Core 16	GE U14.1, or GE U13, or GE U12, or GE U11	HW VHF-RTA-44D (w/S8 064- 50000-2001), or HW VHF RTA-500, or RCI VHF-2100 (w/S8501 or P/N 822-1287-101/180 w/S87 or 832- 1287-120 or 141), or RCI VHF-920 (P/N 822-1250-002 w/S816 or 832-1250-000 w/S817, or RCI VHF-2100E (P/N 822-2158- 1231)	These configurations require accumulation of 10,000 operational transactions for evaluation.	FANSE	When the evaluation of the accumulated 10,000 operational transactions is complete and satisfactory.	TBD
Boeing	8747-400	RCI 900-151 Core 12	HW NG BP4.0	PW YHF-RTA-44D (w/S8 064- 50000-2001), or INV YHF RTA-50D, or P/N 822-1287-101/180 w/S87 or 822- 1287-1210 or 141), or RCI YHF-220 (P/N 822-1250-002 w/S817), or RCI YHF-2100E (P/N 822-2168- 121)	Gore-12 is more susceptible to VOI. Mode 2 A/G handoff and delivery issues	FANSER	Upgrade to Core 16 for A/G handoff and delivery issues. Requires that the evaluation of the accumulated 10,000 operational transactions is complete and satisfactory.	TBD
Boeing	8747-400	RCI 900-151 Core 16	HW NG BP4.0	HW VHF-RTA-44D (w/S8 064- 50000-2001), or RCI VHF-Z100 (w/S8501 or P/N 822-1287-101/180 w/S87 or 832- 1287-120 or 141), or RCI VHF-2100 (P/N 822-1250-002 w/S816 or 832-1250-000 W/S817, or RCI VHF-2100E (P/N 822-2158- 1231)	These configurations require accumulation of 10,000 operational transactions for evaluation.	FANSER	When the evaluation of the accumulated 10,000 operational transactions is complete and satisfactory.	TBD

Click to download the list!

On completing the form, L3Harris have said this:

If you have responded to all follow-up questions from L3Harris and have been awaiting publication of the participation list: please compare your avionics to the participation list that is referenced above.

If your aircraft type and avionics configurations are not listed, please continue to file for CPDLC-DCL only (FANS) at this time. We will be reaching out individually over the next week with more information on the current status of your aircraft's avionics in regards to the participation list.

If you have verified that your aircraft type and avionics configurations are acceptable according to the participation list, you may begin en route participation at this time.

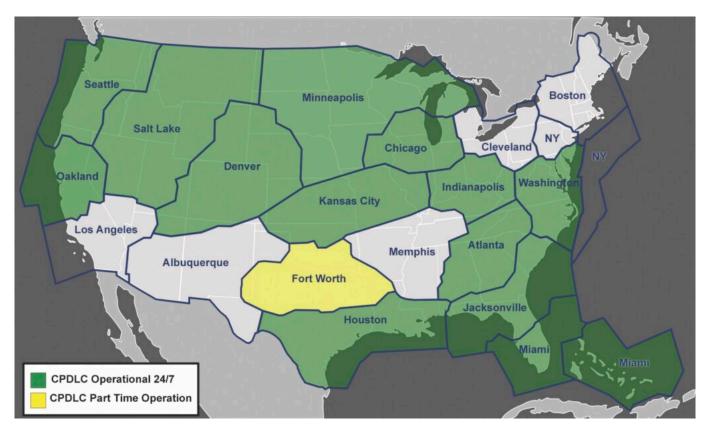
Please review the following guidance:

- Ensure that your avionics are configured to use VDL Mode 2 as the primary media for U.S. Domestic En Route CPDLC. VDLM2 is the only approved media for participation in the domestic U.S.
- Ensure that both the 'J4' code in the field 10a equipment field as well as the FANSE (e.g. '1FANSE2PDC') DAT Code in field 18 (other information/DAT) are both included on the flight plan to indicate eligibility for U.S. Domestic En Route CPDLC.(see the US Domestic Flight and Planning Guide for more information).
- Verify that VHF3/COM3 is set to DATA.
- The aircraft registration/tail in field 18 (other information/REG).
- If you are still researching your avionics in response to questions from L3Harris, please continue to file for CPDLC-DCL only (FANS) until your verification of eligibility is complete.

Also, a member has reported that if you're now eligible but tried to log on in the past when you were not eligible, **your aircraft reg might have been placed on a "blocked list".** To get off this list, you need to send the participation form to L3Harris, who will forward to the FAA to ask to unblock you (should take less than 24hrs).

Where is CPDLC available in the US?

L3Harris published this updated map on 27 Nov 2023:



Come on, Fort Worth!

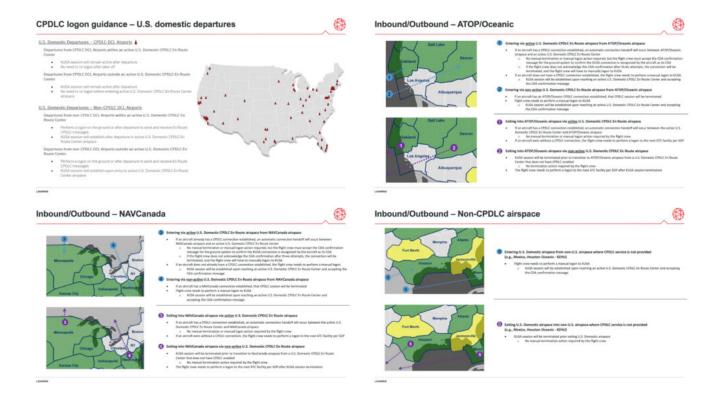
So do I need CPDLC now?

No. US domestic datalink is not mandated.

What if I'm flying into the US internationally?



Just kidding, we *do* actually know something about this. Or rather, L3Harris do. They have published this beautiful little guide answering this very question. You can access it here:



Click to download PDF.

For those of you who aren't so familiar with the US, **KUSA** is **the CPDLC logon code** – and that is the one and only logon code you need, all the way across.