

Gulfstream

FLIGHT OPERATIONS

CPDLC Uplink Message Latency Monitor Function

Modification Date: 02MAY2018

Revision: 0.0

CPDLC

Scope: ALL AIRCRAFT

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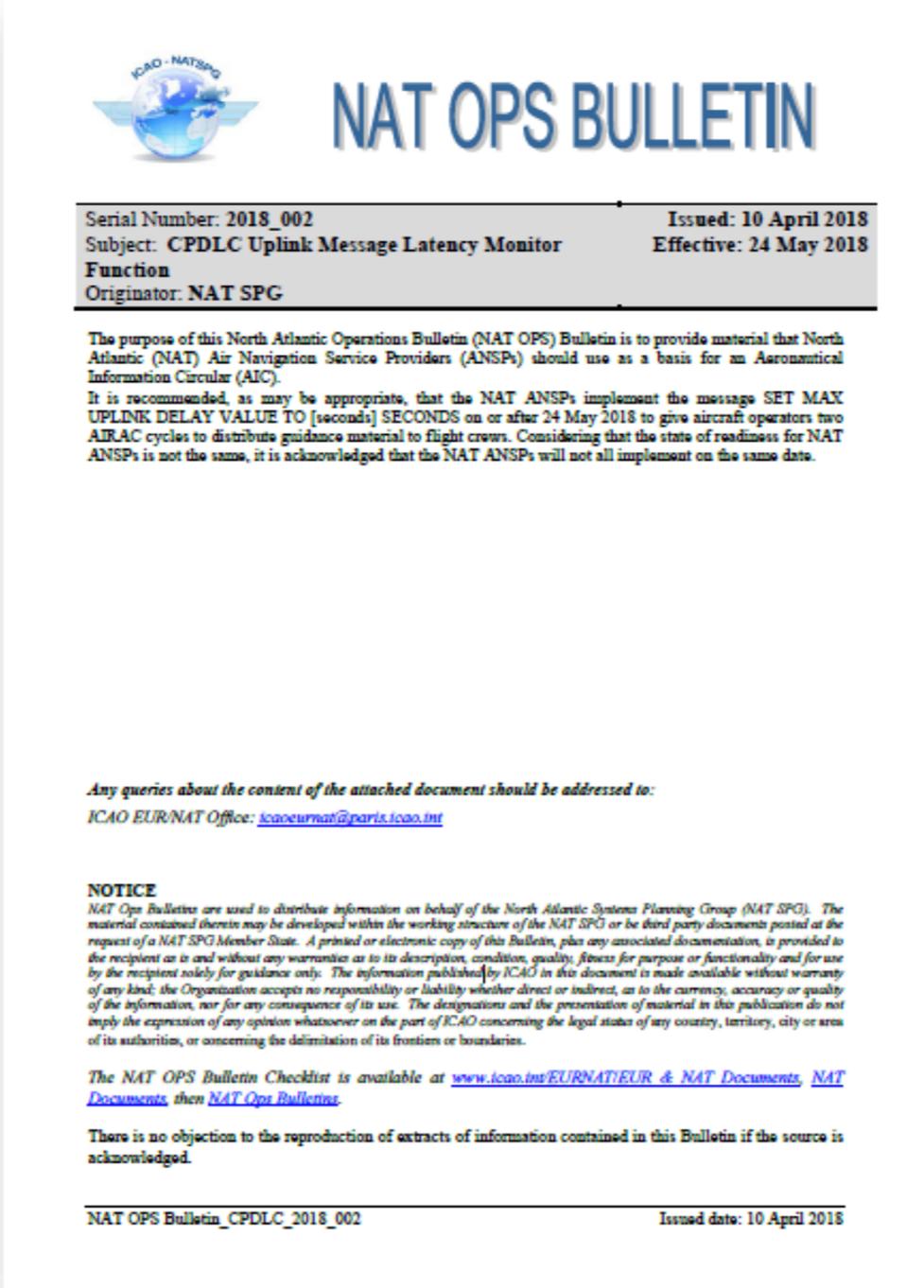
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All Aircraft | CPDLC Uplink Message Latency Monitor Function

Background

- The North Atlantic Systems Planning Group released [NAT OPS Bulletin 2018_002](#)



The image shows the cover page of the NAT OPS Bulletin 2018_002. It features the ICAO-NATSPG logo on the left, which consists of a globe with wings and the text 'ICAO - NATSPG'. To the right of the logo is the title 'NAT OPS BULLETIN' in a large, bold, blue font. Below the title is a table with two columns. The left column contains the following text: 'Serial Number: 2018_002', 'Subject: CPDLC Uplink Message Latency Monitor', 'Function', and 'Originator: NAT SPG'. The right column contains: 'Issued: 10 April 2018' and 'Effective: 24 May 2018'. Below the table is a paragraph of text explaining the purpose of the bulletin and a recommendation regarding the implementation of the message SET MAX UPLINK DELAY VALUE TO [seconds] SECONDS. Further down, there is a section for queries and a notice regarding the distribution of the bulletin. At the bottom, there is a footer with the bulletin title and the issued date.

Serial Number: 2018_002	Issued: 10 April 2018
Subject: CPDLC Uplink Message Latency Monitor	Effective: 24 May 2018
Function	
Originator: NAT SPG	

The purpose of this North Atlantic Operations Bulletin (NAT OPS) Bulletin is to provide material that North Atlantic (NAT) Air Navigation Service Providers (ANSPs) should use as a basis for an Aeronautical Information Circular (AIC).

It is recommended, as may be appropriate, that the NAT ANSPs implement the message SET MAX UPLINK DELAY VALUE TO [seconds] SECONDS on or after 24 May 2018 to give aircraft operators two AIRAC cycles to distribute guidance material to flight crews. Considering that the state of readiness for NAT ANSPs is not the same, it is acknowledged that the NAT ANSPs will not all implement on the same date.

Any queries about the content of the attached document should be addressed to:
ICAO EUR/NAT Office: icaoernat@paris.icao.int

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NAT OPS Bulletin_CPDLc_2018_002 Issued date: 10 April 2018

All Aircraft | CPDLC Uplink Message Latency Monitor Function

NAT OPS Bulletin 2018_002 Key Points:

- A number of ICAO regions are in the process of implementing reduced lateral and longitudinal separation minima predicated on [Performance Based Communication and Surveillance \(PBCS\) specifications RCP 240 and RSP 180](#)
- Implementation of the **SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS** message will start in the NAT region on or after **24 May 2018**. CPDLC connected aircraft flight crews need to be familiar with how to respond after entering each control area when receiving this CPDLC message
- Flight crews are to send a positive response to ATC as prompted by the avionics (ACCEPT/ROGER) regardless of whether the aircraft supports the latency monitor
- Consult [respective aircraft type](#) for further guidance on entering the specified uplink delay into the avionics. The delay value time given in the ATC message will vary between ANSP's (i.e. Reykjavik will use 300 sec)

All Aircraft | CPDLC Uplink Message Latency Monitor Function

Delayed CPDLC Uplink Message Flight Crew Action

- When receiving a CPDLC uplink message with an indication that the message has been delayed:

1

Revert to voice communications to notify the ATS unit of the delayed message received request clarification of the intent of the CPDLC message; and

2

Respond appropriately to close the message as per the instructions of the controller

3

Do not act on the delayed uplink message until clarification has been received from the controller

All Aircraft | CPDLC Uplink Message Latency Monitor Function

Gulfstream Aircraft Response Guidance

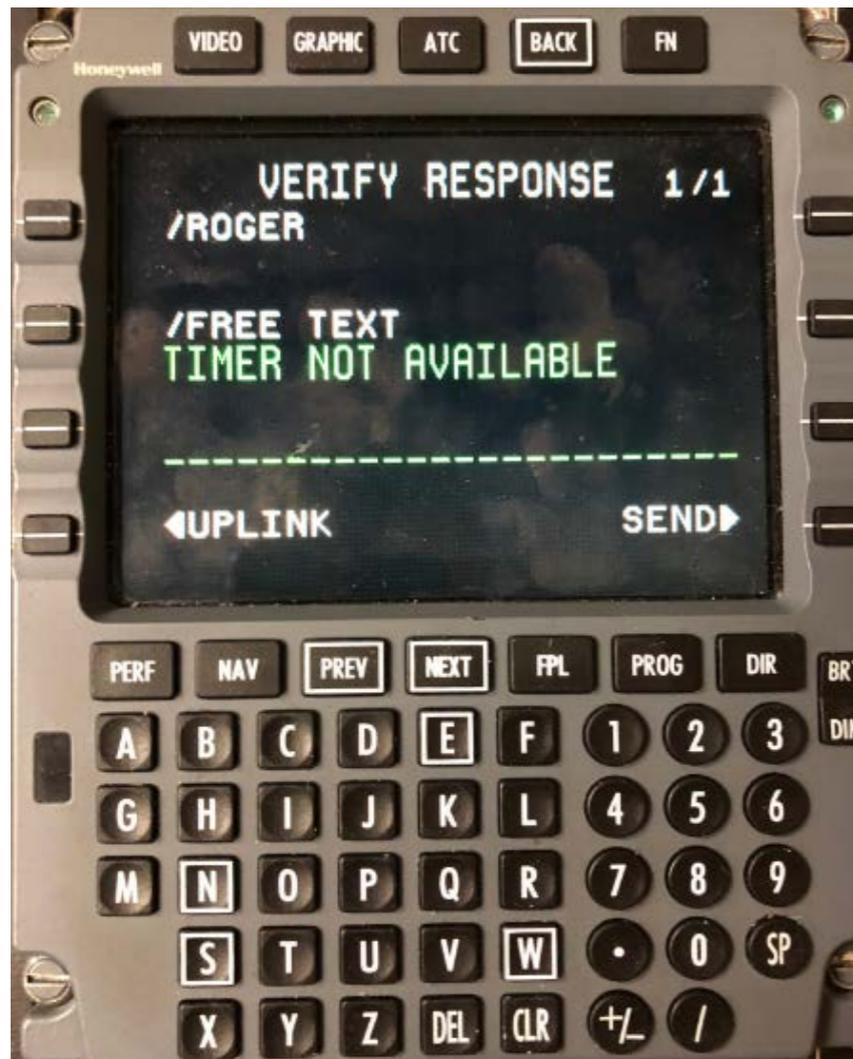
- This briefing provides guidance on how to respond when receiving the message **SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS** from Air Traffic Control (ATC) for the following aircraft types:
 - [G280](#)
 - [GIV/GV](#)
 - [G450/G550](#)
 - [G650/G650ER](#)
 - [G500/G600](#)

G280 | CPDLC Uplink Message Latency Monitor Function

- No pilot action required
- The G280 timer value automatically sets the max uplink delay value

GIV/GV | CPDLC Uplink Message Latency Monitor Function

- The FAA will *NOT* grant NZ 6.1 for PBCS (RCP240 / RSP180) approval. These platforms do not currently meet the latency timer requirements for FANS 1/A+. Reference [Program Update Edition 08](#) for more information on this topic
- The NZ-2000 / NZ-2010 / IC800 / IC810 FMS does *NOT* perform an automatic transaction reply to an ATC **“SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS”** uplink



Flight Crew Action:
Upon receipt of the uplink CPDLC message
“SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS”

- 1 *Send a positive response to ATC as prompted by the FMS (ACCEPT/ROGER)*
- 2 *Enter free text “TIMER NOT AVAILABLE” and send via CPDLC*

G450/G550 | CPDLC Uplink Message Latency Monitor Function

- The FAA will *NOT* grant EPIC NZ 7.1.2 for PBCS (RCP240 / RSP180) approval. These platforms do not currently meet the latency timer requirements for FANS 1/A+ Reference [Program Update Edition 08](#) for more information on this topic
- The EPIC FMS does *NOT* perform an automatic transaction reply to an ATC “**SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS**” uplink



Flight Crew Action:

Upon receipt of the uplink CPDLC message “SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS”

- 1 *Send a positive response to ATC as prompted by the FMS (ACCEPT/ROGER)*
- 2 *Enter free text “TIMER NOT AVAILABLE” and send via CPDLC*

G650 | CPDLC Uplink Message Latency Monitor Function

- The NG FMS does *NOT* perform an automatic transaction reply to an ATC “**SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS**” uplink



Flight Crew Action:

Upon receipt of the uplink CPDLC message “SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS”

1

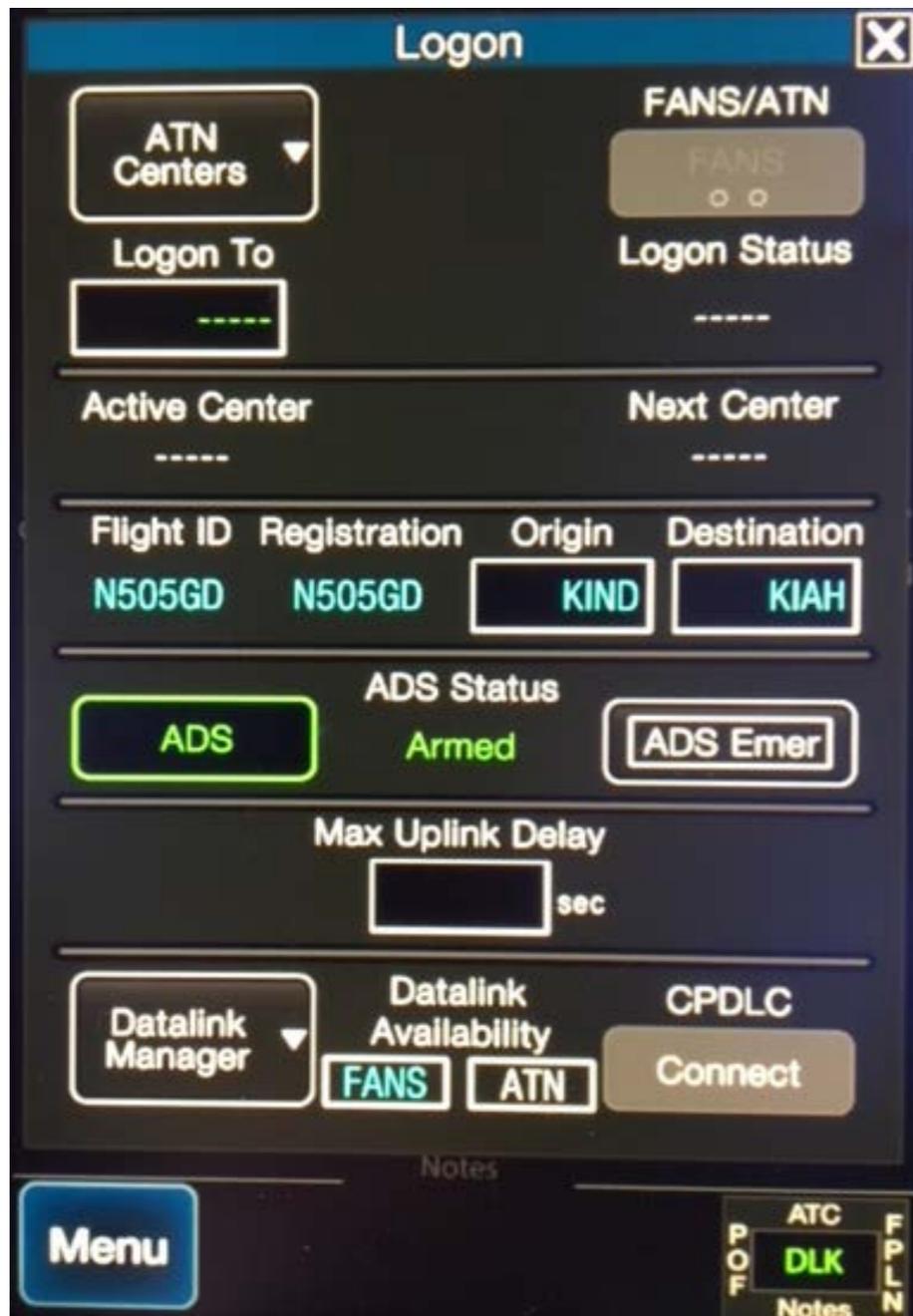
Send a positive response to ATC as prompted by the FMS (ACCEPT/ROGER)

2

Enter the time given in the ATC message (seconds) on the scratchpad and line select 4L on the ATC LOGON/STATUS page to insert into the latency timer

G500/G600 | CPDLC Uplink Message Latency Monitor Function

- The NG FMS does *NOT* perform an automatic transaction reply to an ATC “**SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS**” uplink



Flight Crew Action:
Upon receipt of the uplink CPDLC message “SET MAX UPLINK DELAY VALUE TO [xxx] SECONDS”

- 1 **Send a positive response to ATC as prompted by the FMS (ACCEPT/ROGER)**
- 2 **Enter the time given in the ATC message (seconds) into the Max Uplink Delay field on the DATALINK page to insert into the latency timer**

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