

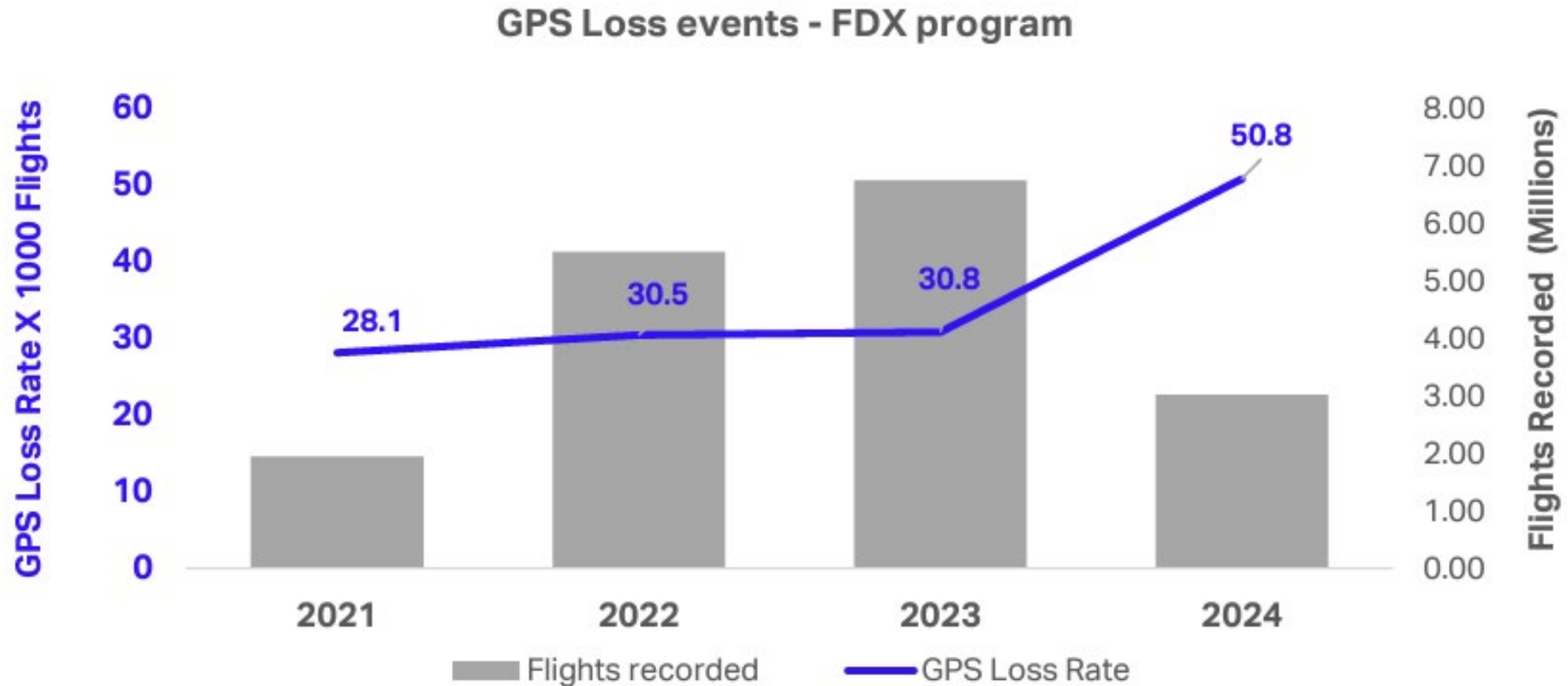
Airline Perspective – GNSS RFI

Presentation to EUROCONTROL Network Manager User Forum 2025

Presenter: Stuart Fox, Director Flight and Technical Operations, IATA

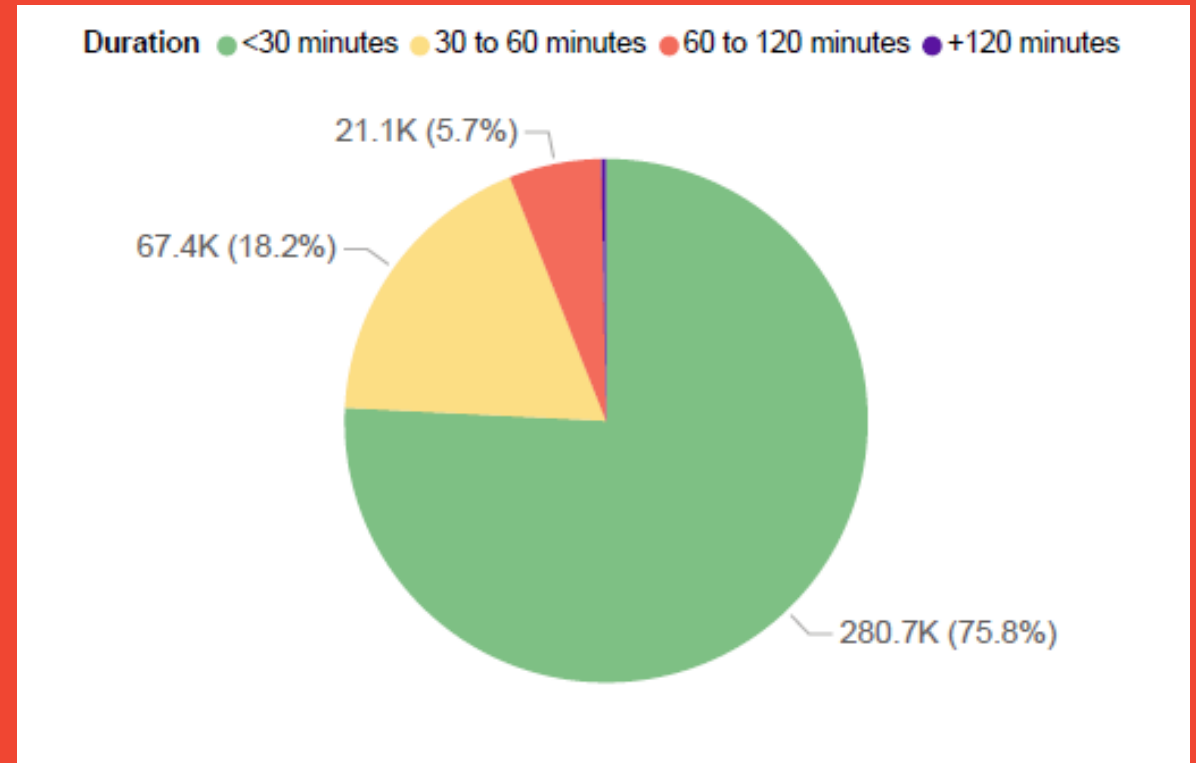


GPS loss events evolution



Consequences.....

Using a sample size of approximately **370,000 flights**, data shows that when exposed to RFI, **airborne GNSS receiver recovery time can**, in a significant number of cases, **exceed 30 minutes** with consequent elevation in the risk of operational disruption.



Mitigations

- Risk assessment
- Simulator training sessions
- Aircrew awareness / notifications / briefings
- Regular engagements with the manufacturers



Mitigations

- Recovery / in-flight procedures
- Crew reports



Actions External to Airlines





Safety Issue Hub

Updated: 9/2/2024 3:10:46 AM

Search

Key Risk Areas

Operational Areas

Regions



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GNSS

Filter by Key Risk Areas

To select more press Ctrl + Risk Areas

Select all

CFIT

SYS

Filter by Operational Areas

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Select all

Flight operations

Safety Issue Source: IATA External Source Safety Risk Assessment

2 Safety Issues(s) available to read

Issue	Guidance Materials	Last Updated
01/07/2024		
GNSS - Radio Frequency Interference		
Spoofing or jamming of GNSS signals impacting aircraft systems that are reliant upon this input, resulting in misleading or the unavailability of navigation and/or surveillance information. Leading to controlled flight into terrain or mid-air collision.		
SKAI - GPS Spoofing and Jamming Tracker Map	🔗	01/07/2024
SIRM blog - GNSS Interference, insights from operators	🔗	14/05/2024
FAA - Safety Alert for Operators / Global Navigation Satellite System (GNSS) Disruptions	🔗	05/02/2024
EUROCONTROL - GNSS Threat Assessment Tool	🔗	25/01/2024
EASA - SIB - Global Navigation Satellite System Outage and Alterations Leading to Navigation / Surveillance Degradation	🔗	06/11/2023
AIRBUS GNSS Interference	🔗	18/10/2023
AIRBUS GNSS loss and interference In service Information	🔗	18/10/2023
IATA Safety Risk Assessment	🔗	18/10/2023
IFALPA - GNSS Interference at MMMX (Mexico City)	🔗	16/06/2023
EASA Safety Information Bulletin	🔗	17/02/2023



Thank you!

