



NADI UPDATES 2026

INTRODUCTION AND OVERVIEW



- **Introduction**

- Kalusi Raloka- Air Traffic Management (ATM) Coordinator for Fiji Airports

- **Overview**

This presentation outlines current and planned initiatives across the ATM, CNS, and AIM domains, including:

1. Operational updates
2. ATM and communication system upgrades and enhancements.
3. Projects

Surveillance Control Update

❑ Current Surveillance Operation

Surveillance currently operates from 6 AM to 8 PM, limiting off-peak coverage and safety.

❑ Transition to 24-Hour Operation

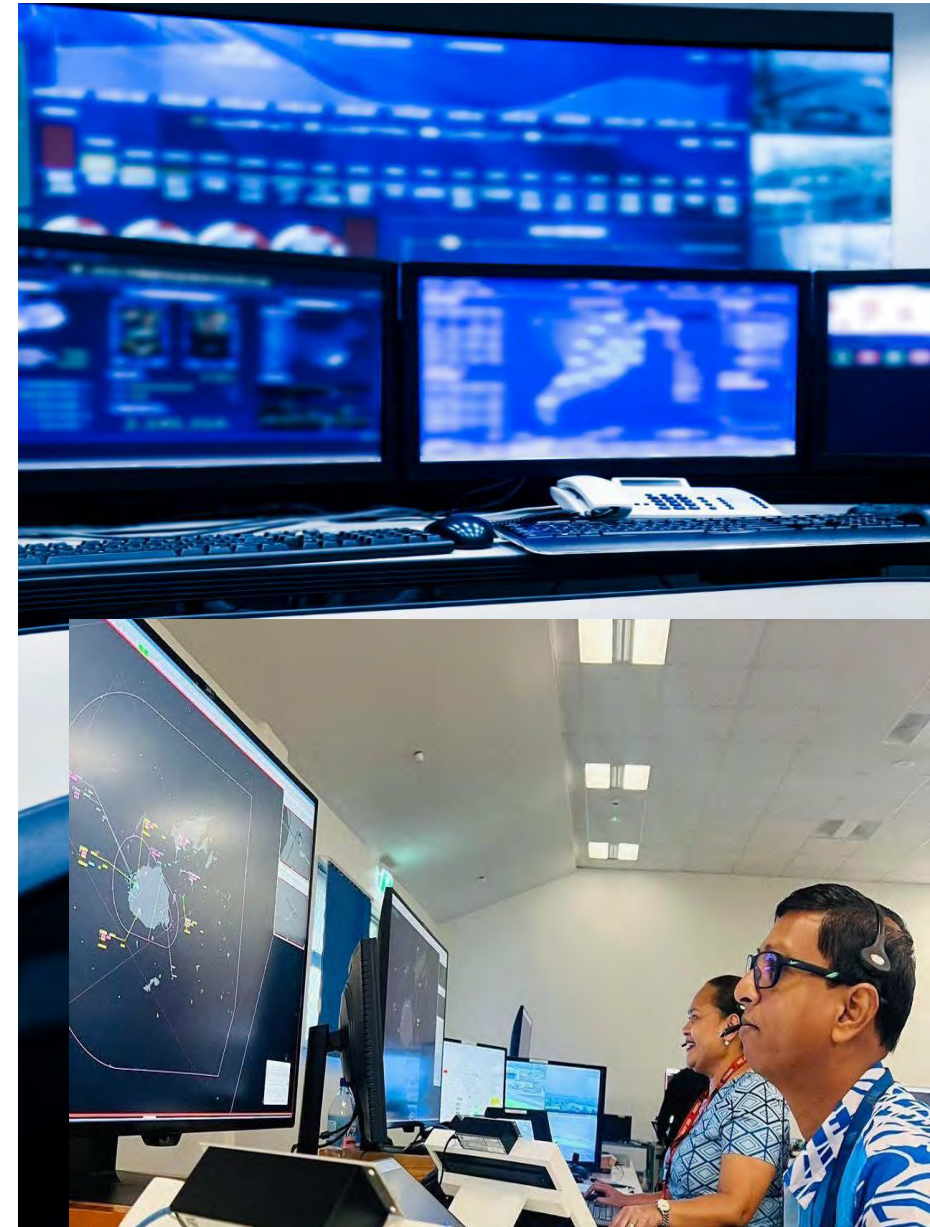
Plan to implement 24-hour surveillance by 4th Quarter of 2026 to enhance airspace safety and efficiency.

❑ Rationale for Change

Increasing traffic, improving situational awareness, and aligning with international standards drive the change.

❑ Operational and Technical Requirements

Staffing, system reliability, and contingency plans are critical for continuous surveillance implementation.



Clearance Delivery



❑ Implementation Dates

Trials started on 24th Dec 2025, with standalone operations from 22 Jan 2026.

❑ Rational

The decision to split Clearance Delivery from Aerodrome Control at the Nadi Tower was driven by increasing operational demand and safety considerations.

❑ Operational Benefits

- Reduces Frequency Congestion on 118.1MHZ.
- streamlines processes, reduces controller workload.
- and improves operational efficiency.

❑ Commitment to Standards

The initiative reflects dedication to modernization and compliance with ICAO standards.

Aurora System Upgrades



❑ Latency Reduction

If a message is delayed beyond 300 seconds, the system should automatically flag or discard it before delivery to the aircraft.

❑ Enhanced Coordination

Automatic coordination with Brisbane will improve, streamlining operations and enhancing regional connectivity.

❑ RNP 20/30

System upgrades will support RNP 20/30 capabilities, ensuring compliance with advanced navigation standards.

❑ Benefits and Challenges

Upgrades provide improved data accuracy, safety margins, but require addressing technical challenges and resource allocation.

SELCAL System Upgrade

❑ Nadi HF Radio System upgrade

- Nadi is upgrading from analogue voice and SELCAL 16 (that was installed in 2008).
- Transitioning to Voice Over IP (VOIP) with SELCAL32.

❑ Technical Upgrade Features

- Clearer air-to –ground communication.
- Supports MWARA, RDARA and SAR frequencies.
- Increase SELCAL code capacity.

❑ Project Timeline and Commitment

- Fiji has contracted GECI Espanola (Spain) to supply the JRC HF Radio.
- The upgrade project is planned to be commissioned by Q2 2027.



AMHS/ IWXXM Project



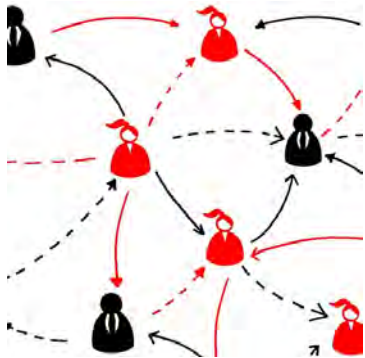
Background

Fiji is upgrading its Aeronautical Message Handling System (AMHS)

Objective: Support both Basic ATS and Extended ATS services

Upgrade enables file attachment exchange (FTBP) to support IWXXM messages)

New AMHS & IWXXM System supplier is GECI Española (Spain)



ICAO & Regional Compliance Requirements

Fiji hosts the Nadi Regional OPMET Data Bank (RODB)

- One of 5 RODBs in the APAC region

ICAO mandates: -Exchange of ROBEX IWXXM bulletins between RODBs

- New AMHS supports File sizes up to 4.0 MB, including attachments



Transition and Implementation Plan

Currently in “reliability Acceptance Testing phase”

Planned commissioning: **end of May 2026**

On completion: Nadi RODB will exchange IWXXM ROBEX bulletins with other APAC RODBs

AIS-AIM Transformation and Related Projects



❑ IFP Certification and GPS Monitoring

IFP certification and GPS satellite monitoring enhance flight planning and operational efficiency by Q4 2026.

- 4 officers are undergoing on the job training in Instrument Flight Procedure (IFP) design as part of a joint project between the Government of Fiji and JICA.
- This training is intended to support the establishment of a dedicated IFP unit within Fiji Airports and to enhance capabilities for the review and development of IFP procedures in alignment with Fiji's Performance-Based Navigation (PBN) plan.

❑ System Procurement and Updates

Procurement of modern AIS-AIM systems and charting updates ensure compliance with ICAO standards by Q4 2026.

❑ Stakeholder Benefits and Innovation

These projects improve data accuracy and compliance, benefiting stakeholders through enhanced flight operations and innovation.

Navigation Aids Projects

❑ Modernizing Navigation Infrastructure

Replacing VOR/DME systems and decommissioning NDBs modernizes infrastructure for improved aviation navigation accuracy.

❑ Performance-Based Navigation Standards

Upgrades align navigation aids with global performance-based navigation standards for enhanced route efficiency.

❑ Operational Benefits and Timeline

Implementation timelines promise operational improvements benefiting airlines and controllers with safer airspace management.



Questions?

