Thirty Eighth Meeting of the
Informal South Pacific ATS Coordinating Group
(ISPACG/38)

FANS Interoperability Team Meeting
(FIT/31)

Santiago, Chile
4-5 June 2024

Agenda Item 8: Information Papers

Network Outage Reporting and Impact Assessment

Presented by: Airways New Zealand

SUMMARY

There is ongoing work in the North Atlantic region developing a standard framework for use by Communication Service Providers (CSP's) and Satellite Service Providers (SSP's) when reporting on network outages and the impact of these outages. This paper provides an update on the status of this work.

1.   **INTRODUCTION**

1.1   The North Atlantic ANSP's have been working for some years with the CSP's and SSP's on developing an email notification template and methodology. This work is ongoing and is managed by the North Atlantic Technology Interoperability Group (NAT TIG).

2.   **DISCUSSION**

2.1   The work is seeking a long-term solution that Inmarsat, Iridium, SITA, and Collins can gradually work towards aligning with. At meetings in January 2024 an agreement was reached in principle on a Network Outage Detection and Reporting (NODAR) template and methodology.

2.2   It has been agreed that using the ARINC, SITA, and ADCC ACARS path identifiers would be used as the basis for further development work. Using these identifiers is seen as probably the only viable way of indicating impacted Inmarsat coverage in a meaningful way to ANSP's.

2.3   A table of ACARS path identifiers would be used by ANSP's in combination with the e-mail notification as a key to determine the impact of planned maintenance or outages. There is a need to establish a mechanism at a regional or global level to keep the path identifier table up to date.

2.4   The agreed NODAR template is included at Appendix A and the table of ACARS satellite identifiers is provided as Appendix B in a separate document.

2.5   A draft Network Outage Reporting and Impact Assessment (NORIA) handbook has also been developed. NAT TIG propose to complete this for the NAT in the first instance and then subsequently work towards it becoming a global document possibly under the umbrella of the ICAO Operational Datalink Working Group (OPDLWG).

3.   ACTION BY THE MEETING

3.1   The meeting is invited to note the information provided.

Appendix A

Agreed NODAR Template

E-mail notifications shall contain the Subject line + any of the listed items as required.

For significant ongoing events, it is recommended that updates are given every 30 minutes.

Subject line: Type - Status - Service
- **Type:** [Planned|Unplanned] [maintenance|degradation|outage]
- **Reference:** [reference number]
- **Status:** [Advanced notice |Postponed| Cancelled| Open| Update| Correction| Resolved| Closed| Post-incident]
- **Service:** [See list below]
- **Location:** [only for VDL ground stations or SITA and Collins sites [1])]
- **Impacted Coverage:** [GLOBAL|one or more ARINC, SITA, ADCC ACARS path Identifiers [2])]
- **Impact to service:** [No impact|Intermittent|Limited functionality|No service]
- **First advisory issued at:** [DD-MMM-YY HH:MM:SS] UTC
- **Start Time:** [DD-MMM-YY HH:MM:SS] UTC
- **End Time:** [DD-MMM-YY HH:MM:SS] UTC
- **Duration:** [X] hours [X] minutes [X] seconds
- **Estimated Duration:** [X] minutes (only for maintenance notifications)
- **Text:** [General text as required]

Service:

- [AIRCOM|ARINC] – VHF/VDL
- [AIRCOM|ARINC] – Inmarsat SB-S
- [AIRCOM|ARINC] – Inmarsat SB-S ACARS
- [AIRCOM|ARINC] – Inmarsat SB-S Voice
- [AIRCOM|ARINC] – Inmarsat Classic
- [AIRCOM|ARINC] – Inmarsat Classic ACARS
- [AIRCOM|ARINC] – Inmarsat Classic Voice
- [AIRCOM|ARINC] – Iridium Legacy
- [AIRCOM|ARINC] – Iridium Legacy ACARS
- [AIRCOM|ARINC] – Iridium Legacy Voice
- [AIRCOM|ARINC] – Iridium Certus
- [AIRCOM|ARINC] – Iridium Certus ACARS
- [AIRCOM|ARINC] – Iridium Certus Voice
- [AIRCOM|ARINC] – FANS Managed service (ADS-C/CPDLC)
- [AIRCOM|ARINC] – ATS SATVOICE
- [ARINC] – ARINC HF

Notes:

1) SITA Collins sites: for example, Montreal, Singapore, Annapolis.
2) See a table of ACARS path identifiers on next page.

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