



APPENDIX B

ICAO SOUTH AMERICAN REGIONAL OFFICE

NEMOTECNIC PAPER

Regional Meeting on Minimum Operational Networks (MON) and GNSS Resilience in the SAM Region (Online, July 13-17, 2026)	
Regional Project RLA/06/901	Project RLA/06/901 aims to support the implementation of the GANP and RANP CAR/SAM initiatives, promoting the evolution of CNS/ATM systems towards interoperable, resilient and performance-based environments. Considering the increasing dependence of air navigation on GNSS services and the global increase in interference and signal spoofing events, the Project promotes regional activities aimed at strengthening the resilience of the CNS/ATM system through the exchange of experiences, the development of contingency strategies, the evaluation of Minimum Operational Networks (MON) and the analysis of alternative navigation infrastructures and procedures that allow to maintain adequate levels of operational safety and continuity of air navigation services in the SAM Region.
ICAO's Strategic Objectives	A- Operational Safety; y B- Air Navigation Capacity and Efficiency.
Current situation of the SAM Region	The SAM Region has made significant progress in the implementation of Performance-Based Navigation (PBN), mainly based on the use of GNSS systems. However, the global increase in jamming and spoofing events has highlighted the need to strengthen the resilience of CNS/ATM systems and to develop contingency mechanisms to maintain acceptable levels of security and operational continuity in the event of degradation or loss of GNSS services. In this context, the 42nd ICAO Assembly and various international forums have highlighted the importance of developing national and regional strategies for the implementation of Minimum Operational Networks (MON), supported by complementary terrestrial infrastructures, operational procedures and harmonized contingency plans. In addition, some States in the Region have initiated studies and initiatives related to GNSS resilience, including the use of DME/DME, DME/DME/Inertial architectures, and other conventional means of navigation, with the aim of strengthening the continuity of air operations and reducing exclusive dependence on satellite services.
Nature of the event	The Meeting aims to provide a regional forum for the exchange of experiences, technical analysis and coordination among SAM States regarding the implementation of Minimum Operational Networks (MON) and GNSS resilience strategies. The meeting will discuss vulnerabilities associated with RF interference affecting GNSS services, recommendations from the ICAO Assembly and other international agencies, as well as the experiences of States that have developed national resilience plans. Likewise, the exchange of information on complementary navigation infrastructures, contingency procedures, criteria for the identification of strategic

	aerodromes and regional coordination mechanisms aimed at strengthening the operational continuity and resilience of CNS/ATM systems in the SAM Region will be promoted.
Profile of the participants	CNS/ATM technical staff from SAM States with responsibilities for air navigation, PBN, radionavigation, ATS surveillance, aeronautical spectrum management and GNSS resilience. In addition, specialists from ANSP, civil aviation authorities, international organizations and industry linked to the implementation of Minimum Operational Networks (MON) and contingency plans for interruptions of GNSS services.
Contact staff in the SAM Office	Mr. Cristian Javier Vittor, Regional Officer CNS (jvittor@icao.int)