



ICAO SOUTH AMERICAN REGIONAL OFFICE

MNEMOTECNI NOTE PAPER

| Ninth Meeting on the Technical-Operational Implementation of the REDDIG – RTO/9 (Virtual, 13 and 14 October 2022) | |
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| Regional Project RLA/03/901 – REDDIG Management and Satellite Segment Administration System | <p>The objective of Project RLA/03/901 is to establish a multinational mechanism for the administration of the South American Digital Network (REDDIG), taking into account regional developments on this matter. Likewise, until such multinational mechanism is established, the project will manage the REDDIG, will implement CNS/ATM applications in line with the requirements of the CAR/SAM FASID and the SAM Performance-based air navigation implementation plan, will take care of the rental of the satellite segment, and will take any necessary action to upgrade the network infrastructure, based on operational requirements and available technological developments.</p> <p>The Technical-Operational meetings offer the opportunity for the REDDIG Administrator (Mr. Javier Vittor) to present the activities carried out, provide guidance, and train State representatives on network equipment/systems. Where possible, RTO meetings are to be held in cities with REDDIG nodes, so that the Administrator may have the opportunity to make an inventory of the node, review its setup, cabling and condition of the equipment. However, exceptionally, and given the situation and context since the pandemic, it will be held, this time, virtually.</p> |
| ICAO strategic objectives | <p>A- Safety; and B- Air navigation capacity and efficiency</p> <p>ASBU: B0-FICE</p> |
| Status of the SAM Region | <p>The REDDIG II was upgraded in 2015 and currently has 17 VSAT nodes: 4 nodes in Brazil, 1 node in each of the other SAM States, and 1 node in Trinidad & Tobago. In addition, counts currently with 25 MPLS nodes of the terrestrial network with 4 additional nodes in the USA, COCESNA, AIREON external to SAM.</p> <p>States use the network for all voice and data communications, for coordination between adjacent control centres, for the exchange of aeronautical messages (AMHS/AFTN), surveillance data and other operational, administrative and technical maintenance information.</p> |

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| Nature of the event | <p>This activity is carried out on an annual basis and seeks to improve and maintain the competencies of the technical personnel responsible for operating the REDDIG. During the Technical Operational Meeting the following activities are carried out:</p> <ul style="list-style-type: none">• Presentation and detailed analysis of REDDIG performance;• Update and review of procedures for the maintenance and operation of REDDIG;• Exchange of experiences and knowledge about the operation of the nodes and the services that are taken;• Presentation of reports on activities, actions and cases related to REDDIG;• Preparation of work plans, proposals on training, purchase of spare parts and training, which are then submitted to the RCC for approval.• Aspects related to the coordination for the implementation of new services that will be transported by REDDIG;• Analysis of the requirements to improve network performance;• Opportunity to provide knowledge transfer on the operation of the different services that are carried out in the network, also providing traffic analysis tools, interpretation of the information and importance of the services for the Region. |
| Profile of participants | <p>Engineers or technicians with sound knowledge of satellite communications (VSAT), TCP/IP protocols, MPLS, and services supported by REDDIG.</p> |
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