



VSAT connectivity in SAHEL zone

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1. EDITING AND REVISIONS

Date of edition	Description	Author
25/05/2023	Creating the document	Hector Moreno

2. OBJECTIVES

The purpose of this project is to improve satellite communications in the Sahel area.

- **General objective:** to improve satellite communications.
- **Specific Objectives:**
 - Improve satellite communications.
 - If necessary, upgrade infrastructure hardware equipment.
 - For the cases in which it applies, assessment of configuring connection pool (C-BAND).
 - Keep in mind that not all locations have equipment for C-BAND, but Ku-BAND.

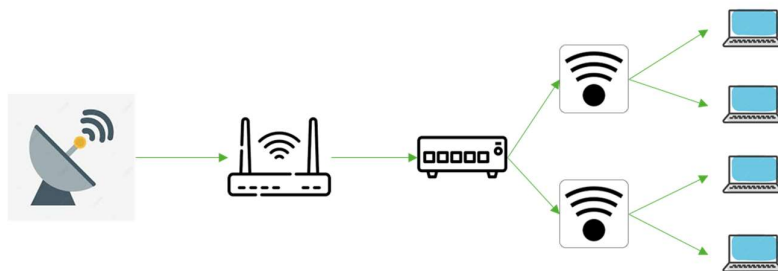
CURRENT SITUATION

The objective of this document is to describe the technical requirements and conditions for contracting a telecommunications provider to improve satellite communications in SHEL missions.

The proposal should be implemented in the countries of Mali, Niger and Mauritania, with the possibility of extending the solution to other locations, such as Sudan.

The following are the high-level infrastructure characteristics of the locations:

Basic network scheme:



There are no additional FWs besides the router itself, as well as switches or switches, which are not manageable.

TP-LINK router.
Switch iDirect IQSeries.

Most user operations are carried out with Microsoft tools (Azure, Teams, Outlook, etc.), although they also work with other specific applications (HR, Project management ...).

3. KEY COMPONENTS AND FUNCTIONALITIES OF THE SOLUTION

The proposed solution must offer connectivity with higher quality than the current one, trying as far as possible to minimize costs. That is, if it is necessary to update equipment it will be done, but we will try to reuse the current one.

The components will be similar to the current infrastructure, and can be modified in a reasonable way. Namely: signal reception equipment (antenna), switch, router.

It must offer a reliable downlink and uplink connection to ensure the correct functioning of applications and systems giving a stable service to users.

4. REQUESTED SERVICES

The selected solution will be responsible for the installation of equipment in the locations in case it is necessary to change, the configuration of the same and the commissioning.

Warranty and maintenance service must also be offered.

5. LOCATION

The service will be provided in the list of missions referenced in this document. In the reference countries Mali, Mauritania and Niger, with the possibility of expanding to others such as Sudan.

6. PERSONNEL INVOLVED

The implementation of the service will be carried out under supervision and with the guidelines of the Systems and Communication department of ACH, with the mission department and a specific person from ACH in each mission. During the execution of the project, coordination meetings will be established in which the state of situation of each mission and the objectives to be developed will be established.

7. TECHNICAL ASSESSMENT

The technical requirements assessable in the proposals submitted will be:

- VSAT architecture global proposal and per site.
- Global solutions and per site, taking into account the type of connection.
- You should consider the possibility of creating a connection pool for those locations where possible, in order to decide on the option that best suits the technical and economic needs. To avoid future incidents, this pool must offer maximum bandwidths (scalability, increase in users or locations, etc.).

In case of continuing in the process, in order to provide more detailed information for the complete realization of a proposal, a confidentiality agreement will be signed at the time of receiving this data (technical details of current infrastructure, users, bandwidths, etc.).

8. HOW TO APPLY

The proposal must include the contents and budget that are adapted to the objectives pursued. It must contain at least the following information:

- Technical proposal
 - o The methodology that will be used to analyze and develop all the points of scope that appear in these terms of reference, as well as any other point that is not indicated and may be relevant.
 - o A work plan detailing the development and duration of the defined actions. The project must end no later than 31/07/2023
 - o Details of the resources and tools necessary for the correct development of the project.

- Financial proposal
 - o A breakdown of cost by mission and activity. Also indicating the total cost.

 - o Proposed payment terms that may be negotiable.

Complete proposals must be sent by mail to procurement@accioncontraelhambre.org with a copy to systems@accioncontraelhambre.org and prodriguez@accioncontraelhambre.org and asbernard@accioncontraelhambre.org until **Friday 23/06/2023 at 12:00** (local time in Madrid). Candidates may resolve their doubts at these same addresses by writing before 19/06/2023.

Tendering companies must comply with these articles of the General Telecommunications Law.

Articles 56 et seq. of Law 11/2022, General Telecommunications Law, which regulate the "safeguarding of fundamental rights, secrecy of communications and protection of personal data and rights and obligations of a public nature linked to electronic communications networks and services".

Article 60 expressly states that providers of such services must "take appropriate technical and managerial measures to preserve security in the provision of their network or services in order to ensure the protection of personal data".