



Summary

The Universal Access Fund (UAF), at the Liberia Telecommunications Authority, under its Rural Telephony Program (RTP) has decided to upgrade its existing 2G mobile network to 4G in response to rising demands for internet to ease difficulties in economic activities in rural communities where there are schools and medical facilities. There are 15 base station towers and 1 teleport under the UAF Rural Telephony Program.

The UAF is a semi-autonomous unit established by the Telecommunications Act of 2007 within the Liberia Telecommunications Authority (LTA) focused on extending telecommunications to areas of Liberia where service providers have failed to establish coverage due to lack of economic incentives.

Our primary focus is on areas defined by the Universal Access Fund Regulations and the Operations Manual as unserved and underserved areas which are found mostly in the rural parts of Liberia.

The Universal Access Fund (UAF) is thus seeking proposals from capable firms /companies to conduct proof of concept in a remote location to be determined according to the scope as below in appendix 1 below.

The purpose of this Request for Proof of Concept (RFC) is to solicit “proposals and proofs” from Telecommunications and ICT firms, to conduct a fair and extensive evaluation based on criteria provided herein, and then select the candidate who best represents the direction that the Universal Access Fund (UAF) wishes to go.

Proposal Guidelines

This Request for Proposal and Proof of Concept represent the requirements for an open and competitive process. Proposals will be accepted until **17:00 GMT 3 August 2026**. Any proposals received after this date and time will be returned to the sender. All proposals must be signed by an official agent or representative of the company submitting the proposal.

If the organization submitting a proposal must outsource or contract any work to meet the requirements contained herein, this must be clearly stated in the proposal. Additionally, all costs included in proposals must be all-inclusive to include any outsourced or contracted work. Any proposals which call for outsourcing or contracting work must include a name and description of the organizations being contracted.

All costs for the establishment of the Proof of Concept, barring local support, must be bound by the firms/companies to include an explanation of all fees and costs.

Contract terms and conditions will be negotiated upon selection of the winning bidder for this RFP.

Description

The UAF already constructed fifteen 2G base station. Any vendor interested in bidding on this project is expected to upgrade at least one of the existing sites from 2G to 4G under the proof of concept capable of co-locating two major service providers.

All bidders are required to supply the Equipment for the Proof of Concept to the UAF; the intellectual property rights in and to the Equipment remains with the organization and/or its third-party licensors.

Bidder must indicate its preparedness to start the Proof of Concept within 30 days of submission of proposal.

To facilitate the implementation of the POC Phase and to ensure the Bidder delivers the POC Phase speedily, the UAF agrees to provide certain critical logistical support and local materials, to be agreed separately

The Bidder shall operate and maintain the RT solution platform installed under the POC, for a period of 45 (forty-five) days from the date of completion of installation. During this period, the service would be assessed by the UAF to ensure that it meets the Key Performance Indicators (the "KPIs") stipulated in the annex to this (RFPC)

The Bidder shall be given 14 days to rectify any lapses that are identified during the POC Phase.

Selected Proposal

When a given bidder is selected, proceeding events shall follow as below:

1 Rural Telephony

Upon completion of the POC, assessment of the Service according to the KPIs and acceptance of the POC by the UAF completed, the UAF shall issue the Purchase Order within four (14) Business Days for the remaining Sites of the Project to commence.

Project Scope

No	Description of Goods	Quantity	Specifications
1	Upgrade of base stations	1	<ul style="list-style-type: none"> ❖ Solution should have satellite, Microwave or base backhaul link from the rural location to the mobile operators' network in the capital Monrovia ❖ The solution should be powered solely using solar ❖ The BTS should provide 2G&4G connectivity platform ❖ The rural telephony platform should have the capacity to provide Wi-Fi for internet connectivity ❖ The RTP solution should have the capacity to provide internet over a range of 5km - 10km radius from the Base station ❖ Solar branded kiosks to serve as solar charging center for phones, tablets, battery powered lanterns, and other battery powered devices

TERMS & CONDITIONS

Evaluation:	The PIU reserves the right to procure the specified product(s) or service(s) from the vendors whose offer has been determined to be the most responsive itinerary and/or lowest evaluated price quotation. Only the most responsive vendor will be contacted for further processing within 3 weeks after submission.
Validity:	Please state the time period in which you will supply the above list of items.

Costing

All proposals must include proposed costs to complete the tasks described in the project scope. Costs should be stated as one-time or non-recurring costs (NRC) or monthly recurring costs (MRC). Pricing should be listed for each of the following items in accordance with the format below:

NOTE: All costs and fees must be clearly described in each proposal.

Project Initiation and Planning
Market Research
Site/ Database Development
Site/ Database Testing
Site/ Database Deployment
Site/ Database Hosting

Qualifications

Bidders should provide the following as part of their proposal for consideration:

- Description of experience in planning, building, and operating telecommunications towers
- List of how many full time, part time, and contractor staff in your organization
- Testimonials from past clients
- Anticipated resources you will assign to this project (total number, role, title, experience)
- A full testing plan
- Time frame for completion of the project
- Project management methodology
- Business Registration
- Network Installer license from the LTA

Annex-1 UPGRADE FROM 2G ONLY TO 2G+4G

Category	Category Indicator (from 2G only to 2G & 4G-upgrade)	KPI Threshold
	Call Setup Success	97.00%
	Site Availability	Microwave 99.7%
		Satellite 95%
	Dropped Calls	≤2%
	TCH Congestion (BH)	≤2.0%
	TCH Congestion	2.0%
	SDCCH Congestion	2.0%
	SDCCH Drop	2.0%
	Hand over success rate	95%
	TRX License (2G), support 2TRX and up to 8 TRX	Perpetual
	Antennas for both Platforms	Directional (700Mhz for 4G and 900Mhz for 2G)
	Technology	2G + 4G (minimum range, 5km -10km), the 4G platform must be saleable to 5G by software only when required .
	Billing	Monthly reports for both traffic (2G & 4G) should be generated separately for Inbound and outbound traffic
	2G and 4G/LTE Band	FDD Bands
	BSC	Full 3GPP architecture for compatibility to all MSC, all connection should be ip based, Interface(3GPP) A over IP with SIGTRAN/STP connection.
	Implementation plans	Phases (TBD)

All seal proposals or electronic proposals must be labelled **/UAF/RFPOC/001/26** and must be delivered to the address stated below:

ATTENTION:

**UNIVERSAL ACCESS FUND (UAF)
LIBERIA TELECOMMUNICATIONS AUTHORITY (LTA)
COOPER BEACH COMMUNITY, PAYNESVILLE CITY
LIBERIA**

CELL #: +231 (0) 770450250/ +231 (0) 776590714