



AKROS



Request for Short Proposals
Reveal Implementation Support for Deployment

ISSUED BY:

Akros Inc.
Represented by: **Anna Winters, CEO**

CONTRACT NAME

SMC Nigeria

1. Background

Akros is working to implement a field-based data collection and decision support tool, Reveal (www.revealprecision.com). Reveal is a collection of tools, including an Android mobile client supporting field operations, and a web interface supporting planning, management, and decision making surrounding the field implementations. Reveal is growing quickly - government health programs and partner agencies see the benefit of Reveal to improve the coverage and impact of life-saving health interventions. To date, Reveal has supported interventions for both malaria and neglected tropical diseases (NTD). In 2020, Reveal will be implemented in Nigeria to support the Malaria Consortium Seasonal Malaria Chemoprophylaxis (SMC) program known as SMC-ACCESS in one local government area. Operations will take place intermittently from July through October, with a cumulative ~280 users using the Reveal mobile client and up to 60 referencing the web interface for review of routine data. In 2020, Reveal will also be deployed in Senegal, Zambia, Eswatini, Namibia, Thailand, and potentially other areas. This RFP aims at quickly identifying a development team to support the deployment of Reveal for application in Nigeria to support the SMC program. Additional opportunities to expand support to other countries may be added as a follow-on contract to the initial SMC work.

Reveal leverages the foundation of several other tools, including OpenSRP, OpenMRS, Nifi, and Superset, and relies on the Java coding language.

The following section describes the current software stack in more detail.

2. System architecture

Reveal utilizes a number of system-level technologies to create the entire Reveal operating platform. The system architecture includes all the technology needed to setup and maintain a functional Reveal implementation. The below table describes the various programs that underpin the Reveal platform and the respective programming language that each is written in:

Software program (built & maintained for Reveal)	Programming language
OpenSRP	Java
Reveal Mobile Client	Java
Reveal Web Portal	JavaScript (React)

2.1. System dependencies

A Reveal implementation utilizes the below set of required software programs to support the full functionality:

- OpenSRP Server
- Apache Nifi
- Apache Superset
- OpenMRS
- PostgreSQL
- SQLite
- MySQL
- Reveal Web Portal (React + Node server)

3. Objectives of the assignment

The aim of the assignment is to support the configuration of Reveal for the SMC campaign in Nigeria. This is the first use of Reveal to support SMC, a pilot will be conducted in two states in northern Nigeria. The Contractor will work directly with Ona and Akros to support development tasks. Ona has been the primary development team used to date and have been instrumental in achieving the goals defined for the Reveal platform. The Ona team will continue to innovate and provide technical leadership and insights. However, we do not expect the work of the Contractor to be reliant on, or pass through the Ona team. Specific tasks may be, but do not necessarily include:

- 3.1. Country configuration.
 - 3.1.1. Server set-up and hosting of a staging and production instance of Reveal for Nigeria SMC implementation
 - 3.1.2. Support for location hierarchy initial upload and ongoing maintenance/corrections to changes in hierarchy. The Akros team will run these loads and may need certain values to be configured by the Contractor
 - 3.1.3. Support for user and team management initial upload and ongoing maintenance/corrections to changes in hierarchy
- 3.2. Issue Management (Emergent bugs) Testing
 - 3.2.1. The contractor is to provide production deployment and post-production emergency support when any change is deployed to the production environment.
 - 3.2.2. Bug fixes and configuration support during testing, training and implementation. The subcontractor should support the troubleshooting of bugs upon request.
 - 3.2.3. The contractor will be responsible for resolving issues which arise as a result of changes and additions made to the Reveal platform by the contractor.
 - 3.2.4. In the event that latent issues are uncovered, it is the responsibility of the contractor to escalate these issues to the Akros Technical Product Manager (TPM) for prioritisation with the Ona Team.
 - 3.2.5. Uptime and performance monitoring of the Reveal services and appropriate notification as directed by the TPM.
- 3.3. Scoping Documentation
The Contractor is required to create and maintain Technical Scoping Documentation based on programmatic requirements, which is to be stored and managed within Confluence.
- 3.4. QA Approach
The Contractor is required to abide by the Testing/QA framework as defined below:
 - 3.4.1. Quality Assurance testing is the responsibility of the Contractor; the extent and type of testing required will be agreed upon by Akros and Contractor as part of the deliverable schedule and may include unit, integration, regression, penetration, and load testing.
 - 3.4.2. New software changes will only be deployed to Reveal after it has passed the Contractors internal QA testing, at which point the Akros team will perform User Acceptance Testing as the final stage of testing before the customization is certified for production use.
 - 3.4.3. The Akros Technical Product Manager and Akros Programme Manager will have access to the defect tracking system used during the QA lifecycle and will give final approval before any customization or defect resolution is migrated to the User Acceptance Testing (Staging) environment.
- 3.5. Reveal Releases
The contractor is required to adhere to the agreed upon release schedule that will be defined within the Statement of work (SOW). In addition, this may include ad hoc requests.

3.6. Potential Development Scope

The following items are required in terms of development and configuration:

- 3.6.1. Reveal workflow/data model: the creation and amendment to the following Plan and Task types:
 - 3.6.1.1. Standard per Reveal framework
 - 3.6.1.1.1. 1 - 3 new Plan types
 - 3.6.1.1.2. 3 - 5 new Task types for individual business data activity/collection
 - 3.6.1.2. New features
- 3.6.2. Data collection (forms). There are various data collection forms associated with these instances. Examples of how these forms are written in Reveal are here: [Example form 1](#); [Example form relevance 1 rules](#); [Example form 1 calculation rules](#),
 - 3.6.2.1. Standard per Reveal framework (Data collection data dictionary)
 - 3.6.2.1.1. 3-5 forms - Family/household registration; Individual registration within family; Individual-based task forms. The details of these forms are outlined within **ANNEX B**
 - 3.6.2.2. New features
- 3.6.3. Reporting
 - 3.6.3.1. Standard per Reveal framework
 - 3.6.3.1.1. 1 cascading dashboard view (8-10 indicators that will be aggregated/disaggregated across the location hierarchy)
 - 3.6.3.2. New features

4. Expected Outputs, Deliverables

There will be generic deliverables for this engagement; the Akros team will capture specific requests to support tasks, via Jira and Confluence to be assigned to the development team.

#	Deliverable	Dates (Estimated)
1	High level resource plan indicating assignment for the duration of the project	March 2020
2	Technical Project Plan detailing key milestones, deliverables and delivery dates	March 2020
3	Technical Documentation to be captured within JIRA, this includes Technical Scoping Documentation; detailed JIRA ticket and Product Mockups	April 2020
4	Changes and additions to the Reveal workflow/data model; Reveal Data Collection Framework (Forms) and Reporting Dashboards, as defined within the Scope of Work (SOW)	May 2020
5	Working Prototype/s of the changes made to the Reveal platform, as highlighted in point 4.	May 2020
6	Configuration and implementation of all changes made to Reveal Platform to Akros' staging and production environments.	June 2020
7	QA plan detailing the QA approach and QA scripts to be used.	May - June 2020
8	Campaign implementation support and post-Go Live maintenance	July - October 2020
9	Formal reports on progress and accomplishments every week and month.	March - October 2020

5. Timing and Duration

Commencement: The assignment is expected to commence no later than **March 16, 2020**.

Duration & Completion: The duration of the assignment is between the month of March 2020 and October 2020.

6. Reporting

The contractor will report to and work under the leadership of the Akros Technical Product Manager (TPM), Livashan Soobramoney and the Akros Programme Manager, Christina Riley, who will both complete the final review on all required outputs; sign-off from the TPM is required for payment. Please see below, the reporting structure and lines of communication:

#	Type of Query	Point of Contact
1	Technical related queries	Livashan Soobramoney (Akros TPM)
2	Contractual related queries	Christina Riley (Akros PM)

7. Communication Protocols and Frequency

The contractor is required to engage with the Akros Product team on a regular basis (defined scheduled meetings, as well as, on an ad hoc basis). The cadence and purpose of these sessions are detailed below:

- 7.1. Weekly Touch Point: Scrum to discuss project progress, roadblockers, timeline constraints, etc.
- 7.2. Monthly Status Meeting: Project status update, feedback in relation to overall project objectives.
- 7.3. Quarterly Feedback Meeting: two-way feedback session

8. Proposal

The contractor is requested to provide, as a response to the RFP

- 1. A short description of the firm, programming capabilities, team structure and two recent references.
- 2. A cost proposal which includes the total cost to be charged, as well as, a cost break down of the activities involved within the project.

Please submit the proposal by email to:

Anna Winters, awinters@akros.com with copy to Livashan Soobramoney lsoobramoney@akros.com no later than Wednesday 11 March 2020 for consideration. Proposals will be reviewed and development team selected to initiate work by 16 March 2020.

Please indicate "REVEAL DEV SMC" in the subject line.

ANNEX A - General Reveal Form Types

1. Cross program - Reveal core forms
 - a. Family/household registration: This form captures the structure-level family information for the household, as well as registers the head of household.
 - b. Location-based task forms: These forms capture business information for the household or location and are tied to the business status of the location. Some forms may generate further location-based tasks.
 - c. Individual registration within family: This form captures individual-level information for an individual within the household and initiates task generation for that individual.
 - d. Individual-based task forms: These forms capture business information for each individual and are tied to the business status of the household. Some forms may generate further person-level task forms.
 2. Cross program - quality assurance and monitoring forms, these are usually location based task forms
 - a. Field officer form: This form is used to gather data from field staff on a routine basis (previously daily, will shift to weekly this year)
 - b. *Mop-up decision form: This form walks implementation managers through a decision making process around what they will do on the following day.
 - c. *Mobilization form: This form captures whether mobilization/sensitization happened at a village level. The data model task is linked at the operational area level.
 - d. *Daily Summary form: This form summarizes how much work is performed each day and may capture both/either,or individual level tasks and structure level tasks. This form is used against forms on the Performance Dashboard.
 - e. *Team leader performance form: This form is a quality check of team performance
 - f. Reactive IRS will use the same forms as IRS. One or two questions may be changed on each form
- *form links to a dashboard output.

ANNEX B – Payment and Deliverables.

The total amount awarded for this work will be : (TBD)

#	Deliverable
1	High level resource plan indicating assignment for the duration of the project
2	Technical Project Plan detailing key milestones, deliverables and delivery dates
3	Technical Documentation to be captured within JIRA, this includes Technical Scoping Documentation; detailed JIRA tickets; Product Mockups and a QA plan (including QA scripts)
4	Changes and additions to the Reveal workflow/data model; Reveal Data Collection Framework (Forms) and Reporting Dashboards, as defined within the Scope of Work (SOW)
5	Working Prototype/s of the changes made to the Reveal platform, as highlighted in point 4.
6	Configuration and implementation of all changes made to Reveal Platform to Akros' staging and production environments.
7	QA plan detailing the QA approach and QA scripts to be used.
8	Campaign implementation support and post-Go Live maintenance
9	Formal reports on progress and accomplishments every week and month.