

FEDERAL REPUBLIC OF NIGERIA
NIGERIA DIGITAL IDENTIFICATION FOR DEVELOPMENT PROJECT
TERMS OF REFERENCE
TEST AND ASSURANCE ARCHITECT

1. BACKGROUND

Of the 187 million living in Africa's most populous country, only about 30% have had their births registered - this figure drops to 19% in rural areas and to 7% within the poorest quintile of the population. Less than 50% of residents have any form of ID card, whilst only 9% of individuals have a national ID number (NIN). Based on the Global Findex Survey¹ results of 2018, 33% of those who do not have ID cite that it is too difficult to obtain, whilst approximately 20% cite a lack of supporting documentation.

Nigeria hosts a fragmented ID landscape which incurs significant costs on the Federal Government (FGN). Over 13 government agencies (National Identity Management Commission, National Population Commission, Central Bank of Nigeria, Independent National Electoral Commission, Nigerian Communications Commission and others) and at least 3 state agencies offer ID services in Nigeria. Many of these agencies, capture biometrics and issue ID cards independently without data links with other systems, resulting in duplication and sub-optimal utilization of scarce resources.

The FGN has indicated a strong desire to harmonize the existing identification ecosystem towards developing a foundational identification platform which can be leveraged to improve service delivery. Based on completion of an initial identification ecosystem diagnostic in July 2016, the Vice President convened a workshop of all identification stakeholders in December 2016 which confirmed the need to develop a Strategic Roadmap² charting the way forward. The Strategic Roadmap was then prepared with the support of the World Bank Group, and highlighted the need for a minimalist, foundational, and ecosystem-based approach to identification in the country. The Roadmap was endorsed by the Harmonization Committee at a second Vice Presidential Level Workshop attended by over 200+ identification stakeholders on January 31, 2018; the group moved to submit the Roadmap to the Federal Executive Council for final government endorsement.

Consequently, the FGN applied for a credit from the World Bank and intends to apply part of the proceeds of the credit to increase the number of persons in Nigeria who have government-recognized proof of unique identity that enables them to access services. The Project will be implemented by the National Identity Management Commission (NIMC) based in Abuja, Nigeria. NIMC, through the Federal Ministry of Finance, has obtained a Project Preparation Advance (PPA) to enable it finance preparatory activities for the Project. Some activities shall be retroactively financed by NIMC prior to approval of the PPA.

¹ World Bank Global Financial Inclusion (Global Findex) Database

² A Strategic Roadmap for Developing Digital Identification in Nigeria: Draft Report for Review, June 2017

2. OBJECTIVES OF THE ASSIGNMENT

- Defines testing and acceptance criterion for the enterprise
- Manages the testing and acceptance phase of the enterprise
- Defines assurance of enrolment partners
- Manages the overall assurance and onboarding of the enrolment partners

3. SCOPE OF SERVICES

The Test and Assurance Architect shall:

- Oversee and supports all Continuous Integration/Continuous Delivery (CI/CD) infrastructure and 3rd party relationships
- Coordinate all testing architecture efforts with testing teams as well as 3rd party vendors.
- Provide oversight as the subject matter expert to test automation and the relationship of testing in a continuous build and deployment model.
- Devise the testing methodology and provide tools to ensure maximum productivity and visibility of release quality milestones
- Provide training and mentorship to Test and Assurance/QA staff.
- Test application functionality as needed during the release
- Verification and documentation of defects identified during testing or reported by internal users and/or customer end-users
- Provide automated test reporting to internal and external customers including historical trends and root cause analysis
- Develop a plan to unify testing technologies across the product lines
- Approves high level design for all test framework enhancements

4. REPORTING, LOCATION AND TIME SCHEDULES

The Test and Assurance Architect will report to the Technical Lead in NIMC Headquarters Abuja.

The commencement of the services shall come into force and effect on the date (the “Effective Date”) of the Client’s notice the Test and Assurance Architect to begin carrying out the services.

5. QUALIFICATION OF THE TEST AND ASSURANCE ARCHITECT

The Test and Assurance Architect shall have the following minimum educational qualifications and experience:

- At least 5 years of professional experience in testing management
- Experience defining, delivering and managing the overall end to end testing and assurance lifecycle

- Experience in the production of key test artefacts (test strategies, plans, approaches, schedules)
- Experience in the identification, mitigation and closure of product risks
- Experience providing assurance and governance across all testing phases
- Experience of stakeholder management at all levels and driving best practices
- Demonstrable experience of delivering progress reports, including risk mitigation, as directed
- Experienced in third party outsourcing, preferably business services and application support
- Experience managing geographically dispersed suppliers consisting of technical specialists
- Experience working with internal stakeholders; including senior leadership, IT teams, solutions architects, other operations managers, and the wider business
- Relevant degree in IT Engineering, Computer Science, or a related field
- Experience in working for any international donor-funded program will be considered an asset
- Experience in projects involving multiple partner institutions will be considered an asset
- Fluency in written and spoken English. Local languages are an asset

6. Detailed skills and experience

Area	Description
Functional testing	Able to analyse changes to, or the development of products and services and plan design. Able to run and manage appropriate tests to ensure that requirements have been fully met. Understands and is able to identify the most effective techniques, data sets and tools to use. Able to communicate defects or trends clearly to software developers, outlining how defects are identified and the possible causes. Able to design, or provide assurance for, appropriate risk-based end-to-end system integration test models.
Test Analysis	Able to visualise, articulate, solve complex problems and concepts, and make disciplined decisions based on the available information. Such skills include the ability to: apply logical thinking, gather and analyse information using comprehensive tools and techniques, use data to formulate both short-term and longer term strategic plans, identify and analyse options, and assess the feasibility and operational impact. Ensures that the business solution aligns with the vision, mission, objectives, strategy and the business and user needs and can identify and recognise a viable solution or control.

Non-Functional testing	Able to analyse changes to, or the development of products and services and plan design in a non-functional environment. Able to run and manage appropriate non-functional tests to ensure that requirements have been fully met. Understands and is able to identify the most effective techniques, data sets and non-functional testing tools. Able to communicate defects or trends clearly to software developers, outlining how defects are identified and possible causes. Able to design or provide assurance for appropriate risk-based end-to-end system integration test models.
Assure solutions	Able to review and endorse solution designs, and other deliverables, proposed by third party enrolment solution partners. Undertake peer review of solution designs and key design decisions produced by other architects. Advise and /or collaborate with third party enrolment providers to ensure that all designs are commercially viable, deliver appropriate business benefit and are achievable within customer timeframes. Work with a team to provide assurance and assessment of project compliance against strategy.

7. FACILITIES AND INFORMATION TO BE PROVIDED

Adequate office space, with furniture and internet facilities, shall be assigned to the Test and Assurance Architect.

8. ESTIMATED EFFORT LEVEL AND DURATION OF THE ASSIGNMENT

The duration of the assignment is initially for 12 months but will renewed subsequently on an annual basis subject to satisfactory performance. The contract type is Time Based.