

BISOYS FOR SIM VERIFICATION

Back ground

Government of Pakistan has made biometric verification mandatory for SIM issuance. Cell Phone Companies are required to authenticate the personal identity of customers before issuance of SIM from NADRA database; for this purpose NADRA has developed biometric verification service named as BISOYS.



1. Biometric Verification System (BISOYS) Features

- a. **BISOYS**; is a biometric verification web-service which verify an individual through finger-print.
- b. *Kiosk Solutions* has developed a solution for cell phone operators to utilize “BISOYS”, to this end company has developed a solution both hardware & software inclusive to carry out activities at Client’s end so that customers fingerprint are verified online through NADRA database.
- c. Once individual’s CNIC No. and finger print is sent to NADRA, a positive or negative verification response is received from data NADRA’s database, without human intervention.
- d. Verifies proof of life at the point of service acquisitions.

2. **Communication:** Communication between NADRA and client will be established through Secure VPN, avoiding network congestion with data & version download capability.

3. System Requirements

- i. **NADRA** will only be exposing their web-services to the client.
- ii. **Technical Activities at Clients' End;** the product is hardware/software intensive. Client is required to manage technical activities like, connectivity, biometric devices, client end application its installation and operations, etcetera.
- iii. For smooth operations it is recommended that all such activities are undertaken by a **third party (IT Firm)**; with an important role to act as a go between NADRA & Client, to perform specific role / tasks.

4. Third Party Role

- a. Will help and facilitate clients in provision of hardware & software to be used at client end.
- b. Will coordinate activities between NADRA & Client for smooth operations.
- c. Will also provide after sales maintenance and services.
- d. Will address client complaints & will facilitate their resolution.

5. **The Proposed Solution.** *Kiosk Solutions* has developed a turnkey solution comprising of both hardware and software segments to be used at client' end. Solution has been developed to be used with desktop/laptop computers or with a smart device.

- a. **Middleware** will be deployed at Client's server that will on same Vlan as NADRA offers, this application will communicate with NADRA main server and record every action. The Middleware will acquire customer's CNIC No. and finger print for biometric verification and send it to NADRA's server. Will also fetch the result which will be either positive or negative.
- b. **Hardware:** Provision of finger print digitizer (As approved by NADRA), which will be connected with Client' server to handshake with NADRA server,

enabling Client to deploy multiple digitizers at multiple locations through a single network connection.

Proposal

NADRA will only be exposing their web-services to the client, whereas, Client is required to manage technical activities like, connectivity, biometric devices, client end application its installation and operations, etcetera. For smooth operations it is suggested that all such activities be outsources to *Kiosk Solutions* to manage related technical activities for the client like, biometric devices, client end application its installation and operations, etcetera.

Contact Détails

Khalid Hameed Shah

Executive Director - *Kiosk Solutions*

Cell: +92-300-856-5031

www.kiosksolutions.com.pk

e-mail:khalid@kiosksolutions.com.pk