



BISOYS MIDDLE WARE

Developed by Kiosk Solutions

1. *Kiosk Solutions* is facilitating both public and private sector organizations to utilize this cutting edge verification technology and use it commercially with a view to bring transparency in the society. The purpose of this proposal is to create awareness among potential clients about the efficacy of the **BISOYS**.
2. **Biometric Verification System (BISOYS) Features**
 - a. **BISOYS**; is a Biometric enabled XML - CNIC verification web-service will feed text data and picture images directly to the client's data entry software, along with verifying the finger prints.
 - b. Accurate authentication of individuals from national database.
 - c. Individual's data is populated in the "application/form" directly from NADRA's database, without human intervention. Thus a transparent & accurate data population at clients' end application.
 - d. Reduce processing time by eliminating excessive paper work.
 - e. Verify proof of life at the point of service acquisitions.
 - f. **Communication:** Communication between NADRA and client will be established through Secure SSL, avoiding network congestion with data & version download capability.
 - g. **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.

3. Third Party Role

- a. *Kiosk Solutions* has developed a solution for public and private sector clients 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 and other details are verified online through NADRA database.
 - b. **Role**
 - i. Will help and facilitate clients in provision of hardware & software to be used at client end.
 - ii. Will coordinate activities between NADRA & Client for smooth operations.
 - iii. Will also provide after sales maintenance and services.
 - iv. Will address client complaints & will facilitate their resolution.
4. The Solution Proposed By *Kiosk Solutions* has developed a turnkey solution rather than providing just standalone hardware, comprising of both hardware and software segments to be used at client’s end. **Solution** has been developed to be used with desktop / laptop computers or with a smart device.
- a. **Middleware** will be deployed at Client’ server that will on same Vlan as NADRA offers, this application will communicate with NADRA main server and record every action. Further this application will expose APIs for Bank applications to use.
 - b. The Middleware besides biometric verification can populate relevant data of the individual, leading to account opening information.
 - c. **Client End**; application will run at bank branches/ offices. Finger print device is integrated with this client and interact with middleware. First you have to register the device by getting the license key from kiosk solution, which can be obtained by giving Device ID.
 - d. **Client’s Responsibility**: Following will be ensured:
 - i. Network configuration

- ii. Server and its hardware
 - iii. Connectivity issue
- e. **Technical Specification:** The solution has been developed using DOT.NET (Microsoft Windows Platform). The solution is capable of acquiring and storing individual's information/data, and will be linked with to web service exposed by NADRA over TCP / IP based secure internet.
- f. **Database** supports SQL but can be configured in ORACAL on clients request.

Contact Person

Khalid Hameed Shah

Executive Director - *Kiosk Solutions*

Cell: +92-300-856-5031

www.kiosksolutions.com.pk

e-mail:khalid@kiosksolutions.com.pk