

# M2SYS TrueVoter™

## Biometric Voter Registration System

Powered By: M2SYS Identity Management Solution Platform

### The M2SYS TrueVoter™

The M2SYS TrueVoter™ system is a scalable and customizable software package that allows you to perform a wide variety of tasks for processing, editing, searching, retrieving and storing biometric voting templates and voter records. It streamlines data collection and card issuance, creates a national database of verified voter data, and includes a wide range of tools to manage and maintain it. It is fully customized to the specific needs of a client, and is designed to integrate into existing processes and procedures. Working with only internationally renowned partners, the units are extremely reliable and offer excellent warranties.



### Supported Technologies with TrueVoter™

- ❖ Fingerprint Authentication Technology
- ❖ Iris Authentication Technology
- ❖ Finger Vein Authentication Technology
- ❖ Palmprint Authentication Technology
- ❖ Facial Recognition Authentication Technology
- ❖ Palm Vein Authentication Technology

### Key Features of TrueVoter™

- ❖ Highly customizable software modules for both input and output settings
- ❖ Multi-modal biometric voting identification including fingerprint, finger vein, palm vein, iris, and facial recognition
- ❖ Comprehensive reporting and data logs for thorough voter activity monitoring
- ❖ Information safety protection measures to protect citizen privacy including strong encryption, fault tolerant architecture, disk mirroring, automated database backups, and disaster recovery option.

Separate from our standard AFIS system, we offer a multi-modal automated biometric identification system (ABIS) which can combine fingerprint identification with an iris or facial recognition modality. Characterized by the utility to tailor deployment models based on unique needs and market conditions, our biometric voter registration military grade system is specially designed to meet government agency requirements and delivers fast, secure and reliable results.

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### *Additional Features of TrueVoter™*

- ❖ Complete voter registration software and back-end biometric identification system
- ❖ Scalable ABIS (Automated Biometric Identification System) to process voter de-duplication comparisons and quickly identify fraudulent applications
- ❖ EBTS Compatible by Add-On if requested
- ❖ Seamless database segmentation to perform real-time, one to many (1:N) comparisons at state level during registration
- ❖ Flexible architecture maximizes system performance and efficiency while reducing system stress and downtime
- ❖ ID Card Generation (ISO/IEC 7810)

The M2SYS Biometric Voter Registration System (M2-BVRS) helps establish a biometric identification mechanism that secures the 'one citizen, one vote' mandate and maintains just and accurate voting registries. Designed to facilitate accurate voting registration, prevent duplicate registration, maintain voting lists and provide a mechanism to verify the true identity of voters at polling stations, M2-BVRS is an affordable solution that comprehensively implements the safeguards of biometric identification at each step of the process, including:

- ❖ Demographic & Biometric Data Capture
- ❖ Duplicate Checking & Data Cleansing
- ❖ Central Biometric Matching
- ❖ Adjudication

### *Demographic & Biometrics Data Capture*

- ❖ Demographic details (name, father's name, mother's name, gender, date of birth, present address, permanent address, LGA, contact details, next of kin, marital status, spouse's name, number of sons & daughters, level of education, occupation, religions, height & weight, eye color, special mark, blood group, driving license/passport number)
- ❖ Flat or rolled 10 finger fingerprint image capture
- ❖ High quality dual iris capture
- ❖ Signature capture
- ❖ Capture ICAO standard face image (digital photograph) through external HD web cam or built-in webcam or compatible digital camera or upload from local storage

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### *Dedup/Duplicate Checking/Data Cleansing*

The M2SYS ABIS/AFIS solution also operates as a separate or integrated part of the main software to identify duplicate entries in the database. Once the data collection is completed by live enrollment or by entering a latent image, the duplicate checking

system allows users to find and cleanse duplicate entries with the synchronized database to make sure the database is unique to the Authority.

### *Adjudication*

While any electoral commission complaints adjudication does not often garner as much attention as the casting of ballots, it is a crucial part of the elections process. After all, the legitimacy of an election, and by extension public confidence in democratic institutions, depends in part on the way

countries resolve election disputes and complaints. One of the ongoing challenges for emerging and established fairness is to ensure that valid disputes or complaints are resolved in a timely, fair and effective manner.

### *M2SYS TrueVoter™ System*

M2SYS helps the electoral commission across the globe, offering its brand recognized TrueVoter™ System, end to end Biometric voter registration system including data capture kits, data aggregation & consolidation system and multimodal biometric duplicate checking application. Collaborating with right partners, M2SYS offers an integrated solution comprised of the hardware, software, supplies and

people that enable electrical body to successfully execute nationwide biometric voter registration programs. The system has successfully been used to register millions of voters in Nigeria in 2007. M2SYS multi-modal biometric system has been using in national id exercise to enroll 80 million citizens in Turkey.

## TrueVoter™ Platform

Easy  
Capture

Voter  
Information  
Manager

ABIS

Voter  
Verifier

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## Biometric Voter Registration System

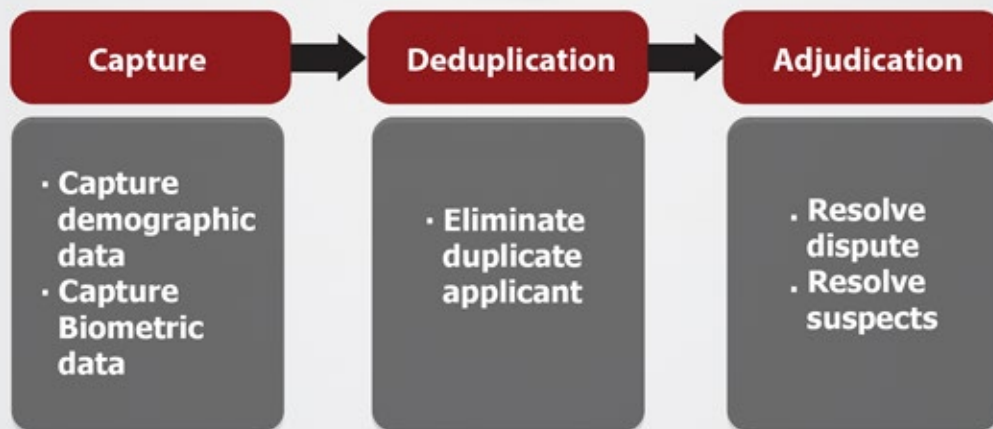
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### Dedup/Duplicate Checking/Data Cleansing

The M2SYS TrueVoter™ system is a scalable and customizable software package that allows you to perform a wide variety of tasks for processing, editing, searching, retrieving and storing biometric voting templates and voter records. It streamlines data collection and card issuance, creates a national database of verified voter data, and includes a wide range of tools to manage and maintain it. It is fully customized to the specific needs of a client, and is designed to integrate into existing processes and procedures. Working with only internationally renowned partners, the units are extremely reliable and offer excellent warranties.

- ❖ Register voters 'in the field,' even those in remote locations
  - ❖ Prevent duplicate registrations
  - ❖ Provide a simple and user-friendly interface for registering and identifying voters
  - ❖ Is easily scalable
  - ❖ Ensure quick and precise biometric voting identification
  - ❖ Provide a clear and easily accessible audit trail
  - ❖ Facilitate interoperability between government agencies for database consolidation and maintenance
  - ❖ Highly customizable software modules for both input and output settings
  - ❖ Multi-modal biometric voting identification including fingerprint, finger vein, palm vein, iris, and facial recognition
  - ❖ Comprehensive reporting and data logs for thorough voter activity monitoring
- Information safety protection measures to protect citizen privacy including strong encryption, fault tolerant architecture, disk mirroring, automated database backups, and disaster recovery option.

### TrueVoter™ Voter Registration Exercise Process



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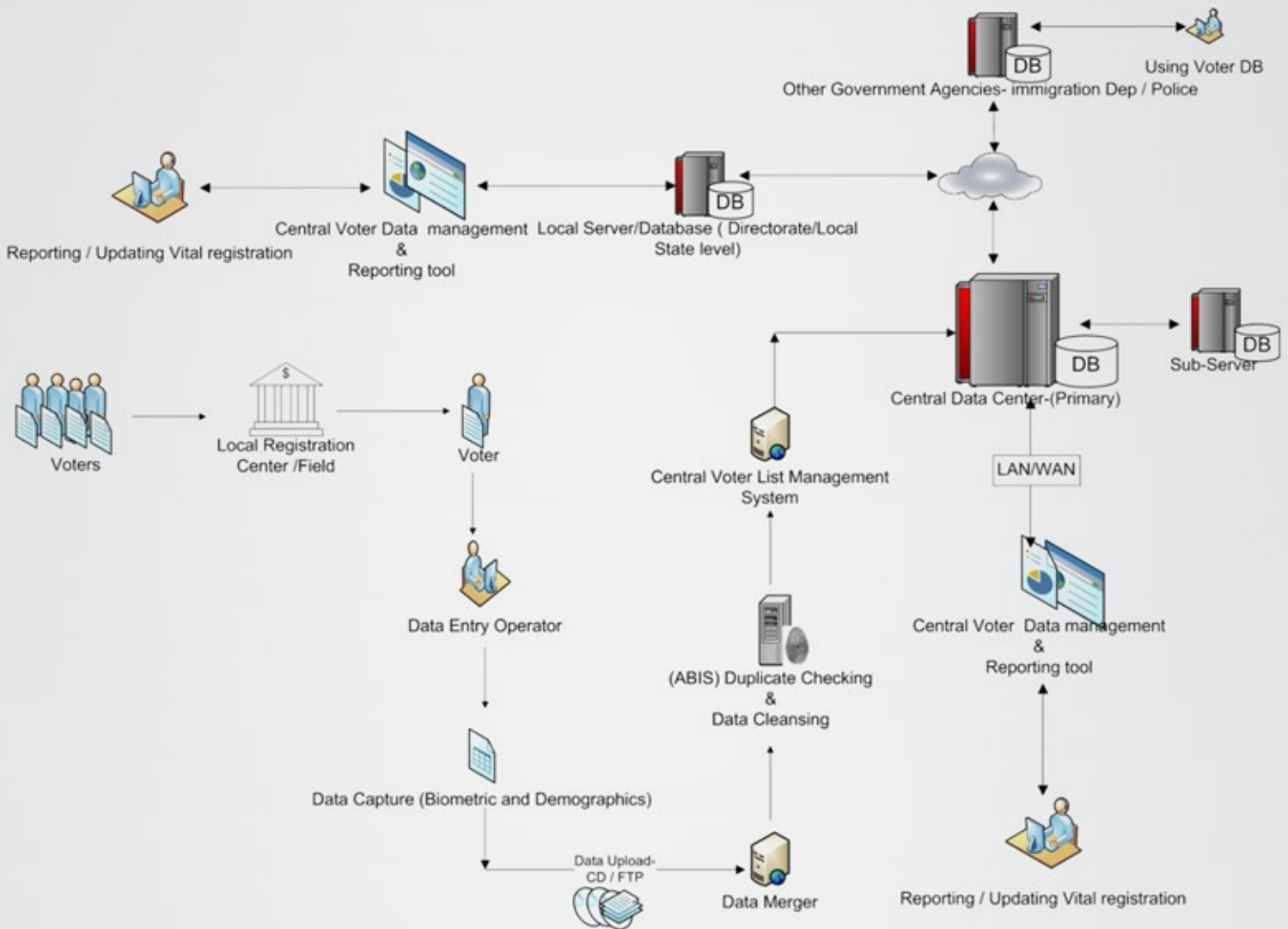
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# M2SYS TrueVoter™ Biometric Voter Registration System

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## TrueVoter™ System Overview



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### TrueVoter™ EasyCapture™ Module

EasyCapture™ is a very highly configurable voter data capture solution to enroll citizens into voter application system. System is capable to capturing very detailed demographic information, ICAO standard photo, signature, document and various biometrics data such as fingerprint, Iris, Finger-vein, Palmvein and fused biometric templates. All data can be saved into any SQL compliant database and captured data can be merged with the online or offline central system.

- ❖ Easy to use, fully customizable data collection software to capture all the required demographic and others data of eligible voters
- ❖ Multi-modal biometric data capture options allows the operator to capture the required of biometrics of voters includes fingerprint, facial, iris and vascular technology
- ❖ Multilingual version is available to meet the regional demand, language includes English, Arabic, French as well as Spanish ( customization on any native language based on demand)
- ❖ Simple user interface that capture customizable data for each voters and generate a unique ID number
- ❖ Dynamic user interface allow the user to capture biometric data through different types of scanner including single finger, dual finger as well as four finger scanner
- ❖ Built in propitiatory facial image capture system allow to capture the perfect facial impression of voter regardless the lighting conditions
- ❖ Register voters 'in the field,' even those in remote locations
- ❖ System comes up built in biometric identification system ( 1:N) which prevents duplicate enrollment in fields
- ❖ Acceptance of numerous national ID documents including passport, national ID & driving license
- ❖ Collect the biometric data in industry recognized standard format including ISO/NIST and FBI compliance
- ❖ Multiple levels of users accounts and secure logins to provide varying permission based on role
- ❖ Built-in artificial intelligence system prevent error in data enrollment and registration process
- ❖ Robust reporting system allow administrator to see the hourly, daily registration volume
- ❖ System requires minimum level of operating performance from the CPU(minimum Pentium 4 ), compatible with Windows xp, Windows VISTA, Windows 7 & windows 8.  
\*Open source version can be provided on demand



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### Voter Information Manager Module

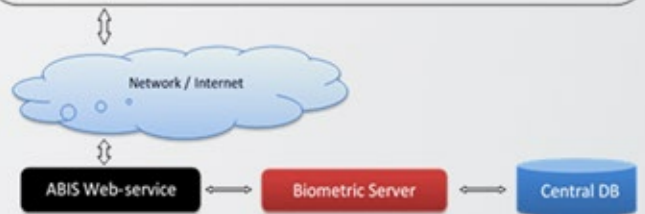
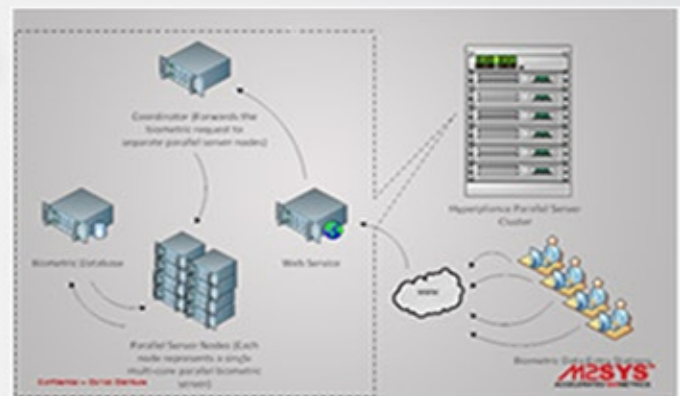
Voter Data Manager is the central application that manages all voter records. This system is capable of importing data easily from Easy Capture module or any other third-party data capture applications. The internal data is kept in a highly configurable data structure and capable of mapping virtually from any system. Besides configuration, this software allows customized software module through a pluggable system architecture that allows end-client extend the system without touching the complex under-lying system. Standard out of the box software can capable of:

- ❖ Generate voter list
- ❖ Print voter card
- ❖ Perform de-duplication through ABIS engine
- ❖ Adjudication management
- ❖ Import data from capture application
- ❖ Reporting & Analysis
- ❖ Role based user management
- ❖ Role based user data access – limit which user can see how much information about a voter
- ❖ Biometric device interface
- ❖ Centrally administers users tolled
- ❖ Act as disaster recovery toll if data retrieval is needed

### ABIS Module

ABIS module is an integrated part of **M2SYS TrueVoter™** module. We offer a multi-modal automated biometric identification system (ABIS) which can combine fingerprint identification with an iris or facial recognition modality. Characterized by the utility to tailor deployment models based on unique needs and market conditions, our government grade system is specially designed to meet government agency requirements and delivers fast, secure and reliable results. **M2SYS ABIS** ensures quick and efficient service while providing information safety through the use of fault tolerant architecture, disk mirroring, automated database backups, and disaster recovery options.

Our **M2SYS ABIS** biometrics matching software is available as a ready-to-use biometric solution with server hardware or as biometric software that will run on a regular PC. We provide ISO and ANSI fingerprint template standards support and full NIST and FBI IAFIS search compatibility. Our AFIS fingerprint software is capable of supporting tenprint databases ranging from tens of thousands of prints at a local level to millions of prints at a national level.



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### *ABIS Module*

Integrating a deduplication engine with our AFIS fingerprint enrollment software will pre-process enrollment data prior to storage, removing duplicate entries to ensure a unique identity for enrollees. Plus, our hyper-threaded one-to-many M2SYS ABIS biometric matching server architecture can be scaled by clustering servers to search 200 million irises or 100 million fingerprints per second and also supports facial recognition. Please contact us for more information or a live demo of our automated fingerprint identification system by filling out the form on the right side of this page.

### *Voter Verifier*

Voter Verifier system provides very innovative mechanism to verify voter in the voting station. Our VIM system can generate secure voter ID card with protected barcode encrypted with the voter ID and biometric data of the citizen. Voter verifier checks the authenticity of the voter and provides audio-visual information to the election-polling officers.

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### Success Stories of TrueVoter™ System

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### Millions Records for Nigerian Biometric Voter Registration Project



INDEPENDENT  
National Electoral Commission

M2SYS Technology provided the government of Nigeria with 10,000 fingerprint scanners and biometric software to help register over 20 million of 71 million voters for their biometric voter registration exercise. Millions of eligible Nigerian voters registered in the biometric voter registration project with M2SYS hardware and software solutions to create free and credible elections without fear of corruption, bribery or duplicate voters.

**Challenge:** Outdated voter registration systems in developing countries consistently cast a shadow of doubt over election results because of corruption, cheating, irregularities, and accusations of fraud at the polls. Duplicate registrations, proxy voting, and the absence of a credible mechanism to verify the true identity of voters promotes fraud and illegal practices which can jeopardize democratic principles and institutions. Nigeria was seeking a technology solution that would help them to maintain the 'one citizen, one vote' mandate and establish just and accurate voting registries.

**Solution:** The Nigerian government invested in the M2SYS biometric solution to register millions of eligible voters. Capturing millions of eligible voter biometric identities allowed election agencies to maintain full control of the voting process and acted as a preventative measure for potential illegal manipulation of the voting rolls by incumbent leaders or political parties. Spread out at hundreds of voting registration centers throughout the country, the M2SYS fingerprint hardware and software solution helped capture and verify millions of voter identities.

**Benefit:** The biometric voting project was a huge success, leading millions of eligible Nigerian voters to register their identities with the Independent National Electoral Commission (INEC). Effectively coordinating the massive deployment of M2SYS fingerprint readers and registration software at thousands of biometric voter registration stations, the government of Nigeria established political legitimacy through biometric voter registration. M2SYS and its partners on the project helped Nigeria to create a free and fair election absent of fraud and corruption positioning Nigeria as a model of democracy for the entire region.

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