# Criminal ABIS - LAW & ENFORCEMENT
# ePolice™

Law and Enforcement departments across the globe were not busy ever than today with incremental crime rates, home grown criminals, repeat offenders, illegal immigrants and foreign delinquents. The rapid change of technology and availability of modern communication system aids criminal to be more cunning than ever, and they easily overwrite & dodge the current legacy systems of police departments. Report says, “Most of the crimes of a distinct area are committed by the repeat offenders, networked gang and terrorist group, the rate of individual criminals are negligible to compare with the repeat offenders and others”.



Traditionally law and enforcement agencies in most of the developed countries have been using several legacy systems including criminal booking system, fingerprint ink card, automated fingerprint identification system(AFIS) , forensic analysis and case managements applications. However, the legacy systems are not ample enough to combat with current nature of crimes and astute of criminals. The usage of next generation technology, we call it e-Police system leveraged by state-of-the art technology, artificial intelligence, scientific analytics, third generation communication system will not only help the law and enforcement agency to manage and control the crimes, terrorism and criminals but also it will alert the agents on any potential threats before it happens.

## *M2SYS Solutions ePolice™*

Decade long experience in biometrics identity managements industry, and partnered with law and enforcement agencies, research universities, crime investigations experts, security analysts and intelligence community help M2SYS to understand the need of law and enforcement agencies better than anybody else. And, we have brought the most desirable and next generation IT platform, M2SYS ePolice™ application for the global law and enforcement agencies!!!

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# ePolice™

M2SYS ePolice™ application is an integrated platform to address the needs of all operational units of an agency including case management, investigations, booking systems, demographic database, next generation automated biometric identification system(ABIS), forensic analysis (Latent, DNA), mobile platform, integration & data exchange capabilities with global agencies (Interpol, FBI, Scotland Yard), intelligence reports and analytics as well as comprehensive ad-hoc reporting.

The requirements of technology for an agency is varied significantly based on geographic and strategic locations, culture, demographics as well as the crime history of the place. M2SYS offers custom tailored ePolice™ platform to fulfill the specific law and enforcement agency.



## *How M2SYS Solutions addresses the workflow of police ( Standard practices )*

### Criminal Booking System

- Customizable electronic booking systems
- System delivered in local language ( Any preferred language)
- Integrated biometric devices ( Fingerprint , Palmprint, facial, Vein, Iris etc)
- Integrated with the central ABIS system
- Available mobile platform with integrated biometrics devices for mobile enrollments and verifications
- Integrated with the ePolice™ platform
  - Eliminate the manual paper based criminal record/booking systems
  - Strengthen the booking process
  - Increase operational efficiency
  - Help the agents to understand the criminals nature, past record etc
  - System helps to convert the legacy system( paper based fingerprint card) to electronic format and export to the central ABIS systems
- Mobile booking platform
  - Help agents to enroll and verify any suspects in the system while patrolling (on the go)
  - System run in any android based mobile phone
  - Minimal connectivity required (GPRS, 2G or 3G)

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## Case Management Module

- Customizable module of ePolice(Platform)
- Windows, web and mobile versions are available
  - People does not require to come to police station to file a complaint,
  - People use the simple their pc or tablet or phone to file the compliant
  - Built in administrative capabilities to assign the case to the agents automatically and manually
  - Intuitive dashboard and reporting system gives the higher official to monitor the progress of a cases
  - System allow you to capture all the investigations data including ( any crime scene materials images, documents, pictures etc )
  - Mobile version of case management module allow agents to update the systems with investigations data from the field
  - Agent will have the options to use the intelligence and analytics platform of e-Police module to expedite and facilitate the investigation

## ABIS Module

- Multimodal start of the art automated biometric systems
- Anti-spoofing and forgery proven biometric matching systems
- Built in deduplication and high speed matching system ( 1:1 and 1: N matching)
- Match 100 million of templates per second in one to many searches
- Modality ( fingerprint, iris, facial, finger vein, palm vein etc)
- Integrated with ePolice platform, specially with the booking system, case management and intelligence module
  - Helping agents to identify the individual with their unique biometrics features to minimize the investigation error
  - Helps to better manage the criminals and inmates
  - Reduce the error to book and release an individual from the systems
  - Help agents to identify the repeat offenders and their subsequent history from the systems.

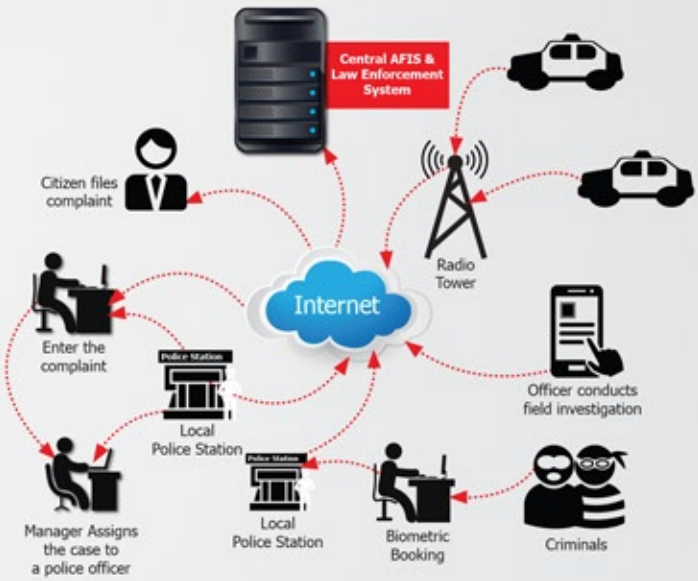



**Fig: System Layout of M2SYS ABIS/AFIS**

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## Forensic Modules

- Integrated part of the e-Police System
- State of the art latent analysis and processing ability
- Integrated with ABIS module
- Latent matching ( latent to latent, latent to ten print, latent to single print)
- DNA analysis
  - Facilitate the investigation of sophisticated crime
  - Helps agents to understand the pattern of criminals and their crime
  - Helps to identify the clue of mysterious cases and incidents

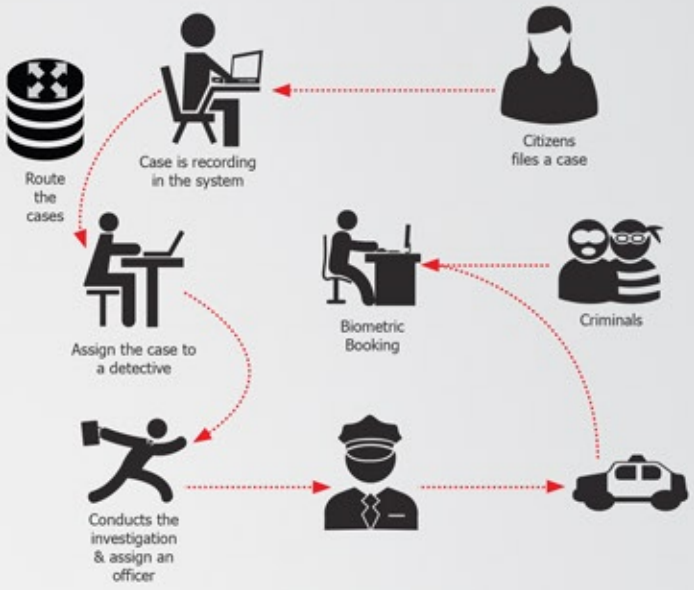



**Fig: ePolice module**

## Artificial intelligence and Analytics module

- Integrated part of ePolice platform
- Provide the quantitative analysis on universal operations of agency
- Provide the artificial intelligence through probabilistic analysis
  - Help agency to prevent the crime before happenings
  - Provide more insights and data to manage and control the crimes
  - Facilitate to analyze and investigate the sophisticated analysis

## ePolice central Data Management Module

- Built in administrative control and monitoring system to manage the whole ePolice platform
- Provide the comprehensive reporting on agency's operations, crime reports, criminal reports, case status, status and result of investigation process
- Built in state of the art probabilistic matching system including text, images, tattoo matching
  - Help head quarter to manage and monitor the overall operations
  - Facilitate the higher official to take the right decision in right time
  - Ensure the optimal usage of the resources
  - Help the management to act proactively to combat with crime and terrorism
  - Ensure the universal reporting in a single fingertip
  - Make sure the accountability and transparency of agents duties and responsibilities
  - Ensure the global standard and compliances of agency' operations
  - Ensure the better policing system for the community

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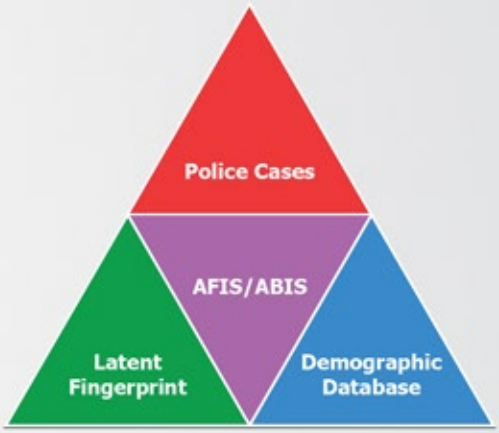
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## ePolice™ Features

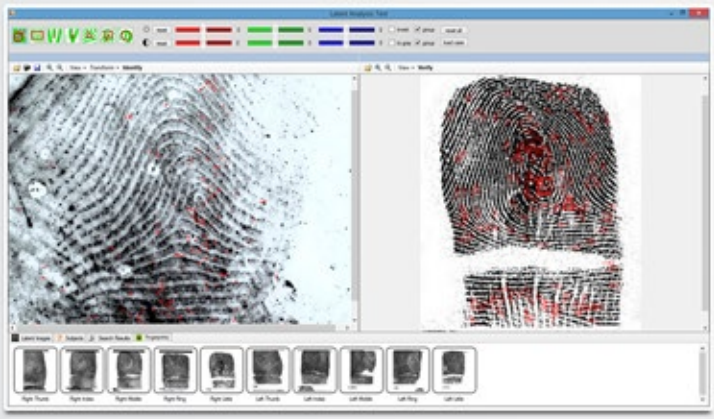
- M2SYS Experiences and engagement with global law and enforcement agency
- Universal ePolice™ platform – the unique in this kind ( Unique in this classJ)
- Unique capability of ABIS systems ( fastest in the industry )
- Multi modal biometric and hybrid biometrics unique in the industry
- Commendable and revolutionary Latent processing and matching system
- Sophisticated artificial intelligence system and analytics with amazing probabilistic matching
- Integrated platform ( all modules in one platform )
- M2SYS exceptional delivery skill to understand the individual agency requirements and customize the solution accordingly
- M2SYS proven success records around the globe
- M2SYS continuous R& D and commitment to the industry
- M2SYS commitment to society and the community

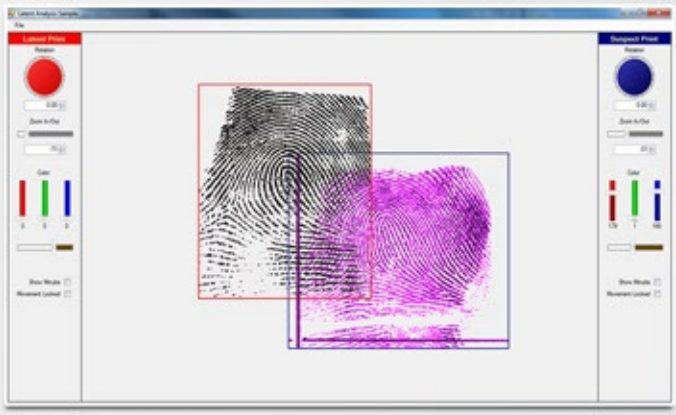
## Latent Capabilities

- Automatically Latent to 10-print match
- Latent-Latent match
- Automatically grouping unknown latent to single finger
- User friendly latent-to-original image fitting process
- Adding, deleting, rotating minutia points for ease of image cleaning process
- Fourier transformation based image cleanup tool to extract very obscure latent image




*Our system consists of several modules: the core ABIS, police case management, forensic latent analysis and demographic information management.*





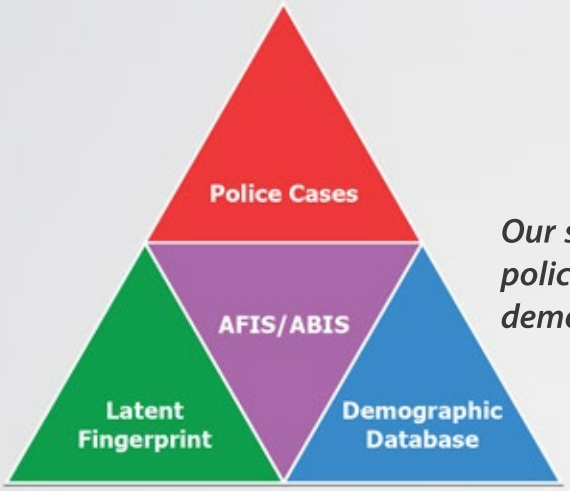
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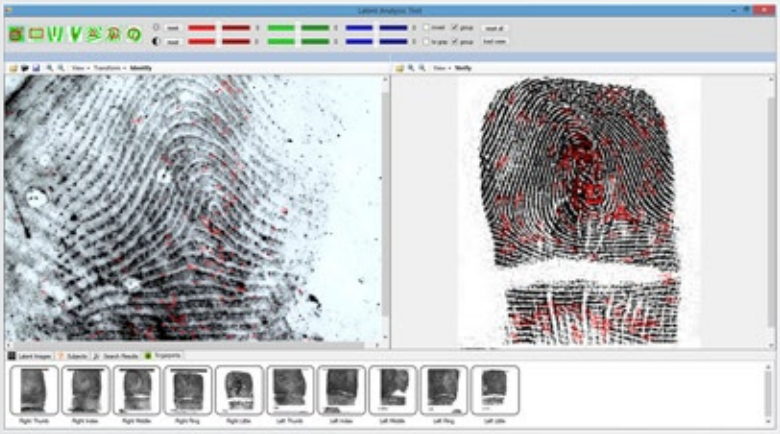
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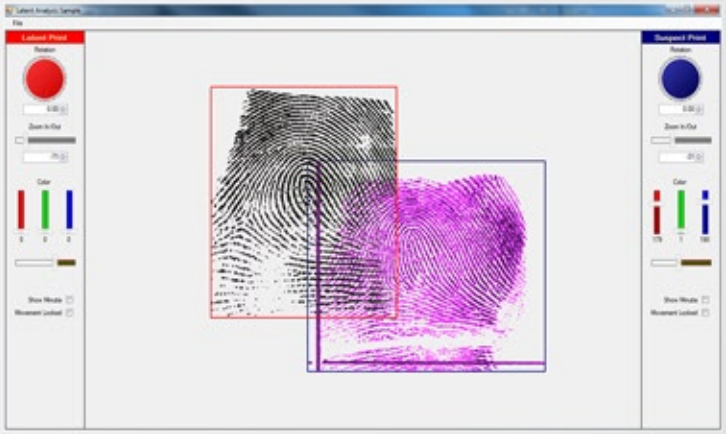



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## *Latent Capabilities*

1. Automatically Latent to 10-print match
2. Latent-Latent match
3. Automatically grouping unknown latent to single finger
4. Extremely user friendly patent-pending latent-to-original image fitting process
5. Adding, deleting, rotating minutia points for ease of image cleaning process
6. Case management
7. Fourier transformation based image cleanup tool to extract very obscure latent image





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