Events

License Plate	Timestamp	Patch	Overview	Information	Login Name
6DYW075	7/3/2008 5:23:26 PM	6DYW075			Laptop
6DYW075	11/14/2009 4:07:56 PM	GOVA ! (OF A-)	Costs		laptop
6DYW075	12/1/2009 10:37:51 PM	EDYNOTES			laptop
6DYW075	12/21/2009 9:56:04 PM	6DYW075			laptop
6DYW075	4/10/2010 8:22:37 AM	6DYW075			laptop



BOSS3

6/17/2014 9:59:05 AM

Reads Statistics Report





Year	Month	Day	Total Scans	Valid Reads Mi	sreads	Hits.r
2014						
	May					
		1	34924	34924	0	33
		2	44378	44378	0	60
		3	53381	53381	0	29
		4	38746	38746	0	83
		5 .	25808	25808	0 .	. 20
		6	31806	31805	1	49
		. 7	33609	33608	1	57
		8	36613	36612	1	93
		9	47334	47334	0	64
		10	54959	54959	0	53
		. 11	41439	41437	2	66
		12	29635	29635	0	30
		13	46319	46319	0	204
		14	28998	28997	1	75
		15	32611	32609	2	108
		16	47899	47899	0	140
		17	48619	48619	0	76
		18	39283	39279	4	139
		19	25576	25575	1	32
		20	28400	28400	0	52
		21	28732	28732	0	66
		22	34148	34148	0	127
		23	33041	33040	1	56
		24	46052	46052	0	133
		25	37791	37791	. 0	123



BOSS3

6/17/2014 9:59:05 AM

Reads Statistics Report

Mark Elliott



2014's Totals			1150719	1150700	19		2488
	May's Totals:		1150719	1150700	19		2488
		31	47778	47778	0		126
		30	35932	35932	0	ł	128
		29	27178	27174	4		79
		28	29107	29107	0		94
		27	28147	28147	0		52
		26	32476	32475	1		41
Year	Month	Day	Total Scans	Valid Reads	Misreads	Hit	ts

Begin Date >= 5/1/2014 12:00 AM AND End Date <= 5/31/2014 11:59 PM



BOSS3

Reads Statistics Report



	Month	Day	Reads	Misreads	Hits
- Wiconson	110	1	27488	0	220
		2	29526	0	142
		3	14338	0	205
		4	19757	0	238
		5	13446	0	59
		6	14700	0	118
		7	28535	0	222
		8	23547	0	152
		9	23885	0	146
		10	25425	0	171
		11	18600	0	43
		12	12092	0	23
		13	7447	0	0
		14	22369	0	121
		15	26336	0	179
		16	22675	0	157
		17	30895	0	426
		18	33428	0	337
		19	13941	0	83
		20	10308	0	68
		21	17348	0	122
		22	17322	0	109
		23	20656	0	201
		24	5616	0	38
		25	9157	0	86
		26	7008	0	30
		27	10524	0	102
		28	20259	0	222
		29	26413	0	315
		30	24818	0	298
	Novembe	er's Totals:		577859	0 46

Is your shopping mall spying on you?

It might be, if you visit the Mall of America in Bloomington. We know all too well already that police departments in places like Minneapolis are using computers and license plate readers to track vehicles moving through the city.

LPR's — which record photos of license plates — have been installed over various entrances and exits to the Mall of America. What is different than local law enforcement use of LPR is a partnership between a private entity and a local government agency to gather and collect location data on many thousands - if not hundred of thousands - of vehicles, which in turn are tied to people.

In August of 2012, before the LPR cameras were purchased and placed at the Mall of America, Bloomington Police collected 577, 859 LPR scans of vehicles for the month. In May of 2014, the total number of BPD scans topped 1, 150, 719 — it more than doubled.

Through a data practices request, I received a memo of understanding (MOU) between the City of Bloomington and the Mall of America (MOA) that allows the Bloomington Police Department to install LPR cameras - possibly as many as 16 - at the Mall to do surveillance activity.

The LPR's were purchased by the Bloomington Police Department (BPD) with grants from the US Department of Homeland Security and the State of Minnesota Department of Commerce. The agreement highlights that the LPR's are for the "security of the Mall, to identify vehicles that pose a threat to public safety, or have a warrant issued for the vehicle's owner." But also used "for the identification of potential criminals."

The Mall of America has been a focal point of civil liberty and privacy concerns in the past. In reporting done by National Public Radio and the Center for Investigative Reporting there were issues of how the Mall was handling suspicious activities reporting and "disrupting innocent people's lives."

What does the Mall of America specifically do with the data it collects? How long do they keep it? Should Mall of America customers be given notice that their license plate is being searched, examined, and compared against a "hot list?" It is clear the Mall of America gets "identification of vehicles entering the MOAC property." Is this only the picture of vehicle and license plate number? The agreement states that the Mall does not collect from BPD "data relating to the registration or ownership of these vehicles" that are scanned. But it is easy to "buy" bulk lists of drivers license and registration as highlighted in the most recent Minnesota legislative session when the issue of access to drivers license and registration was part of major discussion. Is the Mall of America buying this kind of data and pairing it up with the "identification of vehicle" for numerous purposes?

It is not just law enforcement taking a bite out of your privacy and liberty with the license plate readers, but the Mall of America is doing the same.

Update/Note: I spoke with Chief Potts after this post was initially published and he stated that the Mall of America is not getting any "identification of vehicles" contrary to what I was told by Bloomington Police Department previously. Attempt was made to contact Mall of America public relations to comment on story with message left, but no return call.

Posted by Rich Neumeister at Thursday, October 09, 2014 No comments:



COMPANY OVERVIEW

Agenda



- Introductions
- · Vigilant Overview
- Vigilant Offering
 - License PlateRecognition
 - Identity Solutions



Vigilant – Company Snapshot



- Fastest growing company within our market segment of US public safety technology solutions
- · Over 3,200 agencies and 30,000 sworn as customer base
- · Founded in January 2005; approaching 100 employees
- Rapid sales growth and product innovation
- · Headquartered in Livermore, California (HQ)
- · Majority ownership of Digital Recognition Network (DRN)

#1 North American Public Safety Market Provider of LPR Products & Services

Vigilant – Our Customers



Federal Government

- Department of Homeland Security
- Department of Justice / Department of Defense

- · ~70 million LPR scans monthly
- Exclusive LPR Provider for US Lenders

Law Enforcement Agencies

- · >30,000 users at 3,200 agencies
- · Local, State, Regional Initiatives



















Vigilant - Our Passion



Protecting Officers, Families and Communities

- · Increased situational awareness / Improved officer safety
- Lead generation to solve more cases, and close them faster
- Proactive Intelligence-Led Policing for intervention of criminal activity and threats to the community
- · Reduce and deter crime
- Save lives

Vigilant - Innovation



Realization that LPR data is valuable investigative tool; vendors begin to offer simple query tools

Vigilant creates NVLS to:

- provide access to commercial LPR data via DRN & other sources
- facilitate data sharing and interoperability among LE Agencies

Vigilant begins delivering NVLS data via LEARN for more functionality

- · Free sharing for LE data
- Commercial data via subscription

Vigilant introduces facial recognition into offering at IACP 2013

LPR is agency specific, used for stolen ID Vigilant delivers Common Plate & Associate Analytics via LEARN

Vigilant introduces mobile app for collecting & accessing LPR

The (Near) Future

- Locate Analysis to provide probabilistic assessment of vehicle location based on historical data / public records
- Public records / LPR / facial recognition fusion

WHO?



Screenshot of LEARN Data Sharing Map with overlay of Data Density (as of Oct 2013)

Major Accounts: Orange County (CA), Miami, Atlanta, Dallas,
 Connecticut CROG, Colorado State Patrol, various federal (CRP)



Vigilant Successes



- · Literally hundreds of testimonials every year from customers
 - · Homicide, rape, burglary, identity theft, organized crime, etc
- Much of this information can not be shared due to adjudication, ongoing investigations, or desire by agency not to advise other criminals of the tools they are using
 - All press releases and other marketing efforts require coordination and approval with the Agency Customer

Now for some real-life examples of how we protect officers, families and communities...

Vigilant Case File: CounterTerrors NIGILANT

- Failed terrorist plot to attempt car bomb in Times Square
- No connection between registered owner of vehicle and terror plot
- · LPR data from Vigilant was key to locating suspects; one of which was apprehended boarding a flight to the Middle East



Vigilant Case File: Drug Cartel



- Vehicle stop in Maryland with \$500K in cocaine hidden in secret compartment
- Search of Vigilant LPR data shows vehicle in four different apartment complexes in Houston metro dating between 2011 and 2013; car is registered in state other than Texas
- Second vehicle identified with same registered address (different owner) also seen at same apartment complexes
- Analysis of Vigilant LPR data yields >20 additional vehicles frequenting same four apartment complexes; one of these vehicles stopped in Mississippi with 9,000 doses of cocaine also in a hidden compartment
- Investigation uncovers major narcotics cartel operating out of Texas and trafficking narcotics in multiple states

"The historical LPR data and investigative tools from Vigilant are solely responsible for us identifying the apartment complexes and over twenty (20) vehicles to date that are a part of this cell. I am confident that our investigation, enabled by Vigilant, will result in identify many more vehicles, allow us to seize more drugs, and ultimately bring about the downfall of this large drug trafficking operation." Interdiction Officer Thompson

Vigilant Case File: Civilian Life Savegin

- Elderly mother reports daughter missing after being unable to reach her for over a week
- Detectives use LPR data from Vigilant to locate her vehicle on three occasions in the same apartment complex in the prior week
- Detectives work with property management to identify the apartment
- Door bolted from inside; detectives hear a soft moan and make entry into the apartment
- The woman is on the floor, unable to help herself, and near death according to emergency responders

"Emergency personnel responded and stated that the woman had been without food or water for several days. Her condition was critical, and she was very near death. Clearly, the information provided from Vigilant saved this woman's life." Detective Dan Cucchi

Vigilant Case File: Child Abduction

- Fifteen year-old girl abducted by illegal immigrant in NY
- Taken to another state (MD) and held as sex slave
- LPR data from Vigilant located the vehicle and allowed for rescue of victim and apprehension of suspect

Vigilant Solutions License Plate Recognition Data Aids in Locating a Child Abducted by an Illegal Immigrant

LIVERMORE, CALIFORNIA (January 22, 2013) – Vigilant Solutions announces today that its license plate recognition (LPR) data was used in helping to locate and recover a missing child in an Amber Alert. The child was abducted by an illegal immigrant.

On August 14, 2012, a fifteen (15) year-old girl was abducted from her home by Edgar Daniel Mazariegos-Cifuentes, a forty (40) year-old illegal immigrant from Guatemala illegally residing in New York. Mazariegos was a close friend of the victim's family, frequently visiting the girl's home, and communicating with the girl for approximately one year prior to the abduction. Following an argument with her mother, the girl called Mazariegos because she was upset.

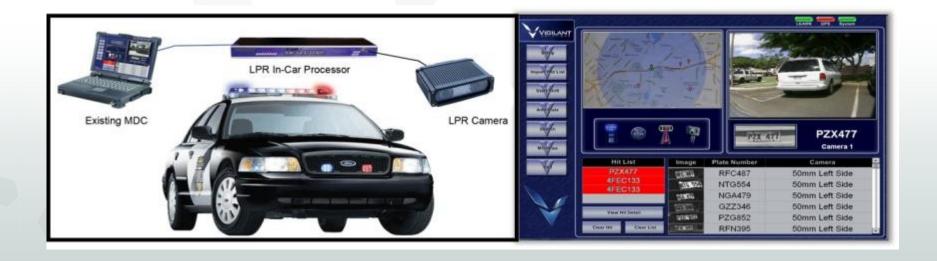
Mazariegos abducted the girl the following day, telling her that he was taking her to see her uncle in Boston. When the girl attempted to call her uncle, Mazariegos took her phone away and told her that he was taking her away to begin a new life together. Mazariegos then drove her to Maryland where he checked them into a hotel and forced her to have sex on multiple occasions over an eleven (11) day period.

Aided by license plate recognition data from Vigilant Solutions, a task force consisting of Maryland State

Mobile LPR



- · Color & infrared (IR) cameras w/ optical character recognition
- · Up to four (4) cameras per vehicle
- · Seamless Integration with LEARN intelligence suite
- · Unmatched performance Winner of CHP "shootout"
- · Real-time interdiction and localized data collection
- Intuitive user interface with exclusive features



Simple and Intuitive

Interface

VIGILANT

- · Large, easy to use buttons
- · Day / Night Modes to avoid illumination of officers on patrol at night
- · Color image of vehicle / infrared image of plate
- Scrolling plate history

· Audible and visual alerts for vehicles of interest



Vigilant Exclusive - Mobile Hit http://www.

- Optional service for Vigilant Mobile LPR
- Matches ~70 million monthly reads of "private" data against law enforcement client hotlists
- Delivers hits to active mobile LPR systems within 3-mile radius of match
- · Greatly enhances officer efficiency

"Mobile Hit Hunter is incredible. It's like shooting fish in a barrel."



Fixed LPR

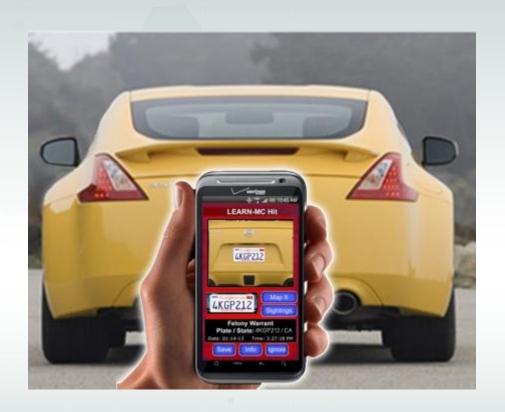


- For perimeter security of your City or Region – identify and intervene
- Unmanned LPR for high capacity operations
- Seamless Integration with LEARN for automated alerting, hotlist management, data sharing and remote updates
- Target Alert Service for remote alerting on virtually any device

"The use of Fixed cameras has really complemented our overall LPR program. We know when wanted vehicles are entering our community and can take action."



Vigilant Exclusive - Mobile Companient



- Scan license plates from Android device or iPhone
- Share with agencies nationwide
- Perform LPR searches
- Receive hotlist alerts

"Mobile companion has greatly expanded our use of LPR in the field. It is an extremely useful tool for officers that do not have an LPR-equipped vehicle and for use in special events where vehicles are tightly parked."

Vigilant Exclusive - LPR Data



- The nation's first and largest national LPR data sharing initiative commonly referred to as NVLS
 - · Over 1.6 billion records total
 - ~70 million records added per month



Where Does the Data Come From VIIIILANT

- Click to edit the outline text format
 - **Second** Law Enforcement & Commercial







rourth level

FMehicle Asset Recovery

DRN Digital Recognition Network a Vigilant Solutions Company

Law Enforcement

- Mobile and Fixed LPR
- · Vigilant Customers ·
 - ALL Major Competitors
- Shared at no cost to Law

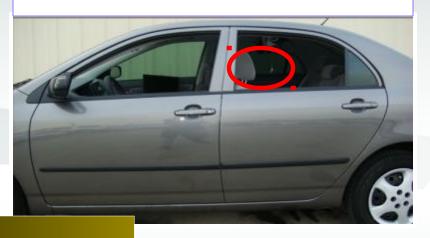
- - · Casinos
 - Malls and Retail
 - Parking & Access Cont

© 2013 Vigilant Solutions

DRN-to-Vigilant Data Flow



DRN Scout Vehicles Collect Data for their Clients



cans are sent to the DRN data center (TX)





Data is copied to Vigilant's Law Enforcement Data Center (VA)



What is Included in the Data?



Click to edit the outline text format

Each LePR Record Contains Outline Level

- Color Image of Wellinellevel
- Infrared Image of Plate Level
 Plate Interpretation to Outline Level
- Date and Time of the Outline Level Nintp Outline Level Click to edit Master text styles

Sectratitude and Longitude · Information on Collector (Agency, User, System, Fourth level Camera)

·FifthNeedrest Address

Nearest Intersection

NO PERSONAL INFORMATION



Who Owns the Data?





For Law Enforcement Contributed Data

- · Data is property of Agency, not Vigilant
- Data is subject to retention policy set by Agency
- Data is NOT shared to any entity by Vigilant; Agency controls its Sharing
 - Contribute to NVLS National Data Sharing Pool
 - · All of the above still hold true
 - Allow LPRD Sharing
 - Share with external (non-hosted) servers
 - Agency specific sharing

<u>For "Private" Data from DRN and other</u> <u>Commercial Sources</u>

Vigilant owns the data and manages its retention

Where Does the Data Reside?



- Vigilant's Law Enforcement Data Center is managed by Verio, a leader in cloud computing to many Fortune 500 and Federal customers
 - Data Center Security
 - · Redundant Power Sources & Fiber Connectivity
 - HVAC Environmental Monitoring
 - · Secure Physical Access Control
 - · Physical Escort for Onsite Visitors
 - Multiple Diesel Fuel Generators
 - · Active Fire Prevention & Suppression
 - · 24 X 7 Monitoring and Operational Support
 - · Onsite System Administrators/Engineers
 - · Certified & Capable Support Staff
 - · Certified Information System Security Professional (CISSP)
 - Cisco Certified Network Associate (CCNA), Internetwork Expert (CCIE), Design Professional (CCDP), Network Professional (CCNP), Design Associate (CCDA)
 - · CompTIA A+, CompTIA i-Net+, CompTIA Security+
 - Sun Certified System Administrator (SCSA)
 - Microsoft Certified Systems Administrator (MCSA), Systems Engineer (MCSE), Professional (MCP)
 - · Alteon Certified Administrator
 - · Solaris 8 System Administrator
 - · Red Hat Certified Engineer (RHCE)



Who Can Access the Data?



Simple answer: Only law enforcement can access the data center, Vigilant online investigative tools, and the data itself.



How Do I Access the Data?



One of Two Ways:



NVLS Web Portal

- · Simple License Plate Queries
 - Full plate lookup ONLY
 - Daily / Weekly Query Limits



LEARN with Private Data Subscription

- · Advanced License Plate Queries
 - Partial Plates
 - · Geo-fences
- · Analytics
 - Pattern Crimes / Common Plates
 - Possible Associates
- Mapping Alert Service
 - GIS Interface to private data "Hits"

© 2013 Vigilant Solutions

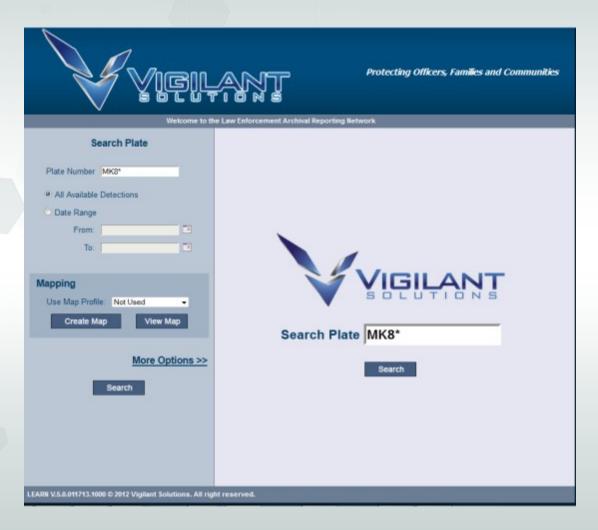
LEARN Enterprise LPR Intelligence

- Web-based LPR management solution
- Centralized, secure and hosted data warehousing
- · Inherent interoperability and data sharing
- Time and geo-coded queries / analytics
- Data fusion & analytics
- Auditing and reporting



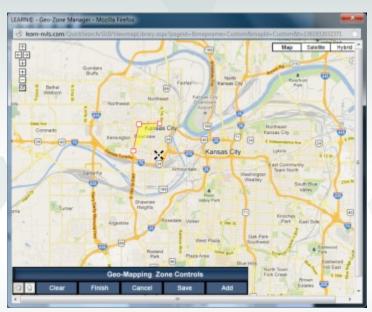
Investigative Queries - Simple Seave



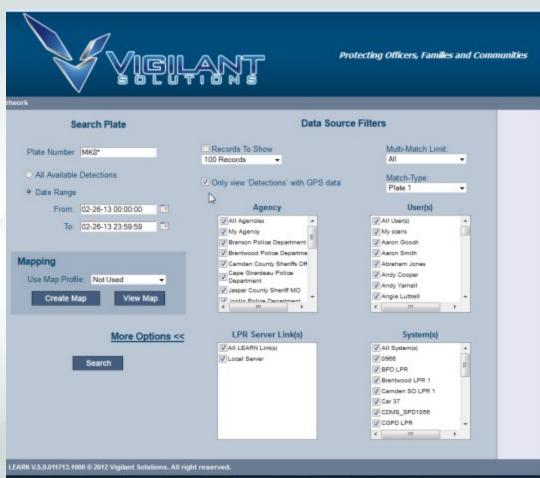


- Full of partial plate numbers using wildcard character (*)
- · Time / Data filter
- · Geographic filter
- More Options for Advanced Search

Investigative Queries – Advanced VIGILANT

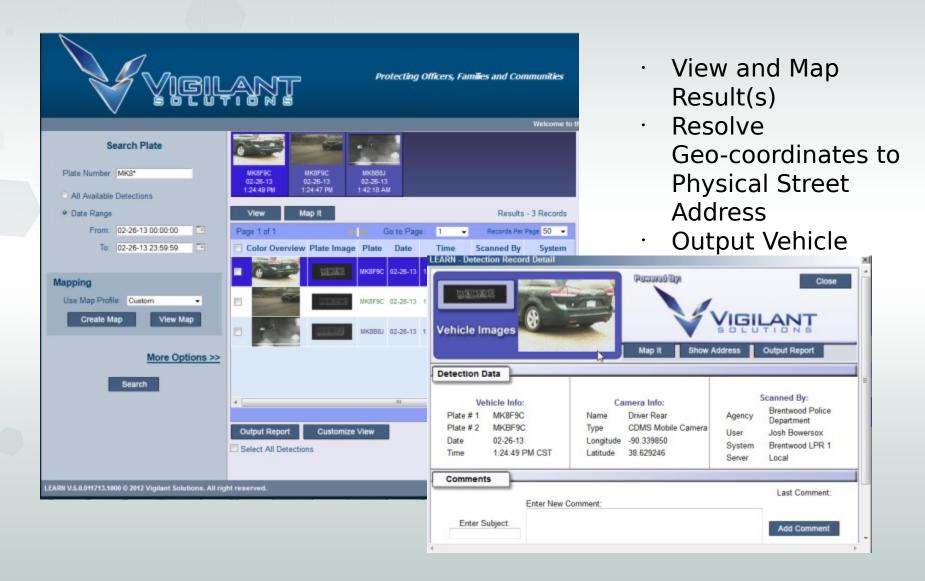


- Draw Geo-zone(s) on map
- Additional filters by Agency(ies), User(s), Server(s), and System(s)



Query Results



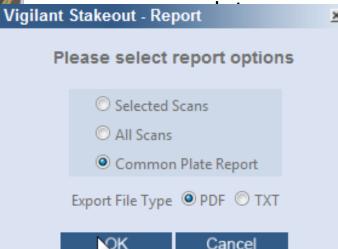


Analytic Tools - Stakeout





- Conduct surveillance on physical address(es)
- View LPR visit(s) and associated LPR
- Select multiple locations and run



Powerful Reporting





- View statistics across agency(ies), users, systems
- · View effectiveness of system (hit ratio)
- Filter by agency, user
- **Output reports**

Lest 7 Days

Total Detections: 63.366

Detections

6.808

Schedule automated reports

Identity Solutions



Why and What?

- At Vigilant's core is image recognition, management of Big Data, and simplification of complex analytics and user interfaces.
- Several very functional and full-featured facial recognition systems exist in the market, but many agencies simply cannot justify the high cost associated nor make use of the full functionality.
- Vigilant's Identity Solutions offering makes use of the latest technologies to deliver something that all agencies can use and afford.
- Vigilant's Identity Solutions offering includes both facial recognition and CCTV facial cataloguing systems that can operate independently of one another or as an integrated solution.

Identity Solutions: Facial Cataloguing

LineUp Facial Cataloguing

- Analyzes CCTV video for facial content
- · Catalogs faces with time/date/location for efficient investigative purposes
- Integration to FaceSearch for facial recognition & alerting of "known" faces seen by CCTV
 - Urban areas terrorists, wanted felons
 - Schools registered sex offenders
 - Airports terrorists
 - Jail visitation gang members / associates





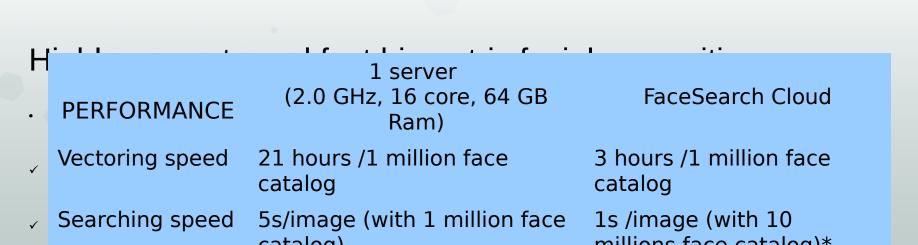
Identity Solutions: Facial Recognition

FaceSearch Facial Recognition

Organically Developed by Vigilant:

Does not use any COTS facial recognition algorithms

· Over 350 facial vectors developed by Vigilant



FaceSearch - basics



Hosted on Top-Tier Data Center

- Designed for hot-list management in tens of millions of faces
- Speed of querying

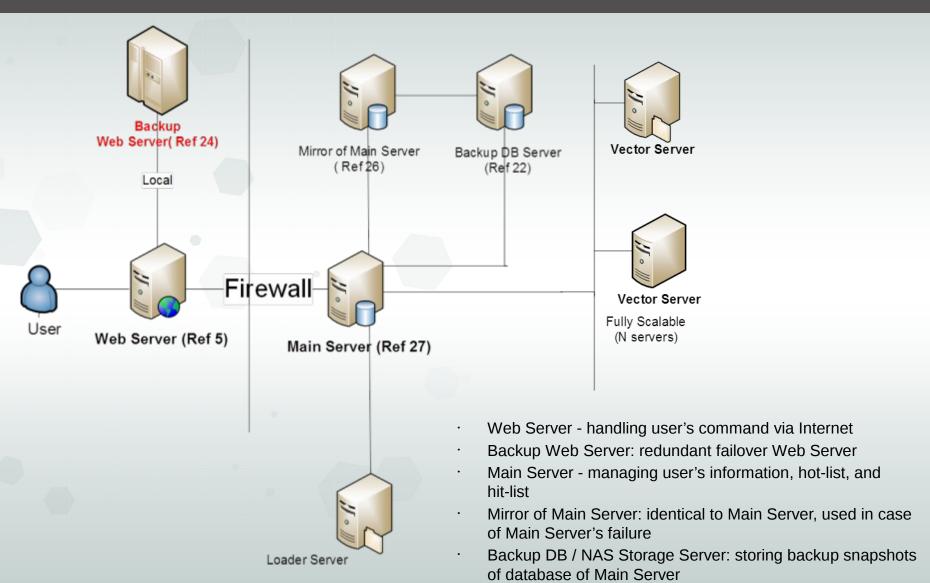


against 10 million

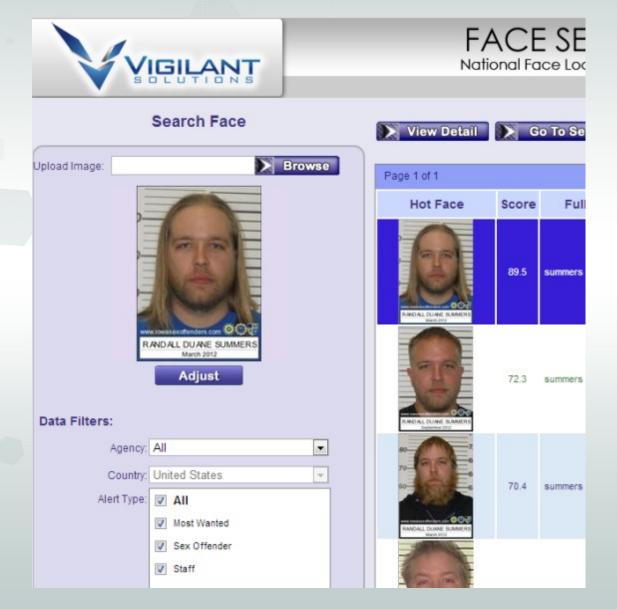
Structure of FaceSearch Cloud



Loader Servers - parallel servers for vectoring face images Vector Servers - parallel servers for executing search.



FaceSearch - Investigative Querles



- Simple Query Interface
- Browse to an Image or Capture Image from Tablet or Smartphone
- Import Image from any Source (social media, SMS)
- · Filter Results by Agency, Alert

FaceSearch - Viewing Data





- View all confirmed matches
- · View source / reference and all meta-data

FaceSearch - Mobile Devices



- Capture and Query in the Field for Real-time Identity Validation
 - Field Interviews
 - Disoriented People
 - Dead Bodies
- Web interface for almost universal compatibility with any mobile device
- Android application available





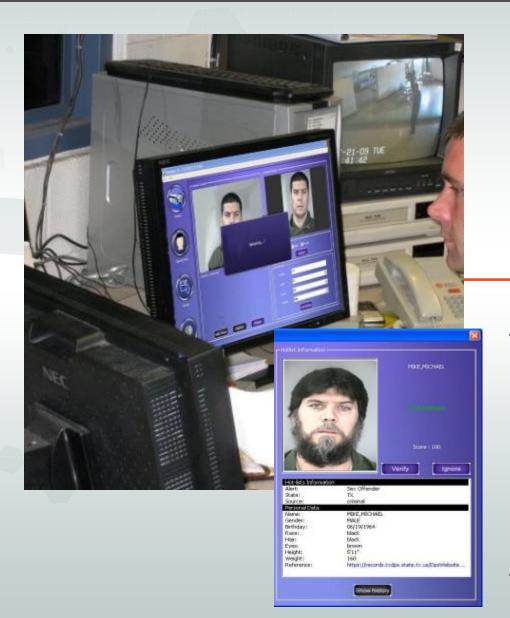
FaceSearch - Facial Image Clustering

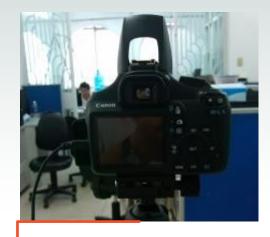
- Facial Image Clustering Engine for fraud prevention & intelligence gathering on large image sets
- Detect Fraud in Drivers License and Other Documentation
 - Same images with multiple names
 - Same names with multiple images



FaceSearch - PC Enrollment App







- Simple PC Interface for Enrollment with Integrated Canon Camera
 - Jail Booking Stations
 - Security Checkpoints
 - School Security
 - Business MembershipPrograms
- Enroll New Faces & Match Against Existing

Vigilant Solutions



Identity Solutions – Summary

- LineUp Leverages Existing CCTV Infrastructure for Facial Cataloguing
- · FaceSearch is Multi-Platform, Feature-Rich Facial Recognition
- Leverage Available Content from Vigilant & Upload your Own
- Hosted & Secure
- Easy to Use & Intuitive
- Scalable & Versatile
- Affordable for All Agencies
- Vigilant Innovation

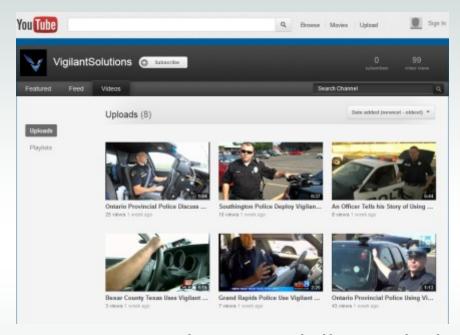


For More Information





www.vigilantsolutions.com



www.youtube.com/VigilantSolutions

Brian Shockley brian.shockley@vigilantsolutions.com/865-228-2308