

White Paper GangNet® Software

INTRODUCTION

Gang activity is rapidly rising across the United States, Canada and around the world. In 2011 there were an estimated 1,400,000 active gang members throughout the United States, comprising more than 33,000 gangs. These numbers are a 40 percent increase from 2009 and indicators point to them continuing to grow through the present day. Attempts by federal, state and local law enforcement agencies to combat the growing gang problem are a day-to-day struggle. It is estimated that 48 percent of all violent crimes can be attributed to gang members. Gangs are increasingly engaged in non-traditional gang related crimes such as alien cross-border smuggling and human trafficking, prostitution, counterfeiting and identity theft.

The GangNet system, known as Cal/Gang® within the state of California, is a user-friendly, browser-based, investigative, analytical and statistical resource for recording and tracking gangs, gang members and their activities. The system is person oriented and is designed to share information and photographs collected on gangs, gang members, their associates and relationships to other gangs and entities. The system allows the identification of gang members and related entities through complete or partial information searching techniques including like-sounding searching for names as well as facial recognition searching (if configured). Through a simple user interface officers are able to work gang-related crimes by making use of the case management features. The system allows agencies to collect gang member information including individual biographical data such as age, weight, height, eye color, hair color and specific markings and tattoos. The system also allows for compiling data that links gang members to locations, vehicles, reports such as field interviews and arrests, weapons, narcotics and other gang members. The system also collects similar data on gangs such as AKA's and the various symbols used by gangs. Users are able to quickly generate gang membership rosters and a multitude of statistical reports with the click of a mouse. The system also provides a resource for officers to collaborate, share their expertise as well as find other officers with a particular expertise. The GangNet system will continue to aid in the identification, location and apprehension of individuals and gangs engaged in a multiplicity of crimes on a local and national level. Since the systems inception, California has logged approximately 400,000 gang members with over 15,000 users from over 1,400 agencies accessing the system.

The GangNet system has received numerous awards and accolades for its pioneering and ground-breaking technology, including the Cisco 1999 Innovation Award, the Smithsonian 2001 Most Innovative New Technology for the Century Award, as well as the American Council for Technology (ACT) 2006 Intergovernmental Solutions Award (ISA). Each year new features and functionality are added to enhance the user experience and continue the evolution of the system.

The GangNet system can provide the foundation for a national gang repository. The GangNet system is operational in many states, Federal government agencies, as well as areas of Canada including:

- | | | |
|---|---|---|
| ❖ Arizona | ❖ California | ❖ District of Columbia |
| ❖ Florida | ❖ Georgia | ❖ Maryland |
| ❖ Minnesota | ❖ Nevada | ❖ New Mexico |
| ❖ North Carolina | ❖ Peel – Canada | ❖ South Carolina |
| ❖ Texas | ❖ Toronto – Canada | ❖ Virginia |
| ❖ Washington | ❖ Wisconsin | ❖ Department of Homeland Security Immigration-Customs Enforcement (DHS-ICE) |
| ❖ Federal Bureau of Investigation (FBI) | ❖ Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) | |

The systems above in bold are currently connected and sharing in real time, their vital gang information. Success stories from this sharing of information have been and continue to be reported.

DESCRIPTION OF CAPABILITIES

The capabilities of the system can be grouped into:

- Information Collection (also referred to a “data collection”)
- Data Analysis and Searching
- System Maintenance
- Additional Available Features

1. Information Collection

The GangNet system has been designed to support data collection from officers in the field, gang units, patrol officers, corrections officers, and any other law enforcement entity. The GangNet system provides a flexible subject-based system to support collecting information about persons, gangs, affiliates, vehicles, locations and contacts. Subject detail records include monikers, aliases, reports (field interview, jail intake interview, arrest, incident, etc.), physical descriptions, weapons, drugs, IDs, monikers, images, scars/marks and tattoos, probation information and other details. Gang detail records include gang symbols, areas, cities, gang injunctions, and predicate. Additional media files (Word, PDF, etc.) can be uploaded and attached to records to further enhance information. If textual, and not image-based, these attachments are also indexed for searching.

The screenshot displays the GANGNET web application interface. The top navigation bar includes links for 'proxy', 'lock', 'preferences', and 'logout'. The left sidebar contains a 'Main Menu' with various search and management options. The main content area shows a subject profile for 'Member - Adams, Andy John - Male'. Key information includes 'Age Status Unknown', 'Primary Gang: Varrio Hamilton City Locos', and 'Race: Hispanic'. A 'Purge Due Date' of 08/14/2014 is prominently displayed. Below this, there are tabs for 'Preview / Summary', 'Edit Record', 'Delete Record', 'Edit Subject Type', and 'Customize Summary'. A 'Special Alerts' section shows a red alert for the purge date. A table lists subject information: Name (Adams, Andy John), Age Status (Unknown), Type (Member), Gender (Male), Race (Hispanic), Race Appearance (Hispanic), Descent, and Nationality. Further down, there are sections for 'Subject Information', 'Membership Status', 'Immigration Type', 'DOB Information' (with a table of birth dates and ages), and 'Subject Photo Information' (with a table of photo dates, methods, and photographers). The bottom of the interface shows a navigation bar with 'Subject By Name/Detail', 'Results: Select Subject', and 'View Subject' buttons.

The GangNet system runs within a single browser window interface that allows users to conduct multiple searches, obtain results and have the ability to switch back and forth between tasks easily. A home page is provided that shows user login information, messages, links, notifications, and the users' most recent activity history all on one page. The home page message board allows users to see critical and non-critical messages, and allows users to click links to external documents/sites that are pertinent to the message displayed.

Report Form

The GangNet system has the capacity for rapid data entry with the use of the digital Report Form. This allows users to collect information on field interviews and arrests and reduces the man hours required to enter data by allowing users to enter information on several subjects at once through a single on-screen entry form. The resulting information automatically creates relationships between the subjects, vehicles, and locations. The report form also captures report information during the creation of new subject records to simplify data entry and ensure proper record sourcing. A generic report may also be re-titled for a specific agency, for example "Gang Card" versus "Field Interview", and reports can be further customized by SRA at additional cost.

Watch List

The GangNet system allows users with proper permissions to register system records such as Subjects, Gangs, Locations/Addresses, Vehicles, Weapons, Narcotics, Contacts, and be notified when other users have viewed or edited a registered record. This capability keeps officers aware of the latest information on pertinent data and increases officer safety. The Watch list functions also extend to the ability to be notified when someone enters a new record that matches the following criteria:

- Subject moniker or distinguishing mark
- Vehicle VIN or license
- Gang name, AKA or symbol/image description
- Contact area code and phone number, phone number, or email address
- Street name and city, or street number and street name and city.

When new information is entered for the first time that matches the registered criteria, the officer is alerted to the new information of interest.

Administrative Notifications

The watch list feature can also be used to notify designated users when specific data actions occur. If a Gang falls below three (3) members or if a gang affiliate collects more than two (2) gang criteria, the user will receive an administrative notification in the watch list. Administrative notifications can also be configured to send an email alert to the user.

Image Collection

Digital images in the format of JPG or GIF can be uploaded and associated to any of the objects (Subject, Gang, Vehicle, Location, Report, etc.) supported by the system. These images are displayed as part of the results of any search to aid in identification and analysis. The GangNet system lets you easily create electronic photo line-ups from subject images, as well as show and hide identifying details underneath the photos. Subject images may also be encoded and searched using a third party facial recognition application from SRA's biometric partner (at an additional cost).

The screenshot displays the GangNet web application interface. On the left is a navigation sidebar with sections: 'Main Menu - Training', 'Search/Add Subject' (with sub-links for Name/Detail, Matrix, Facial), 'Search/Add Gang', 'Search Other' (with sub-links for Address/Location, Vehicle, Contact/Phone Number, Subject Photo Lineup), 'Search All Information' (with sub-links for All Information By Text, All Information By Date), 'Search Index' (with sub-links for Index Search By Text, Index Search By Matrix, Index Search Help), 'Gang Tools Manager' (with sub-links for Slang Term Manager, Reporting Group Manager, Resource Manager, Agency/Facility Manager), 'Forms' (with sub-link for Field Interview Report Entry), 'My Account', 'Primary Searches', 'Gang Reports', 'Case Management', 'Probation/Parole', 'Tools', and 'Administration'. The main content area is titled 'Subject Photo LineUp' and includes a 'Title' field containing 'FOUR PACK'. Below the title is a PDF generation section with a grid of thumbnails (1-4) and a 'Generate PDF' button. The list of photos includes: 1. Gunchi, Jason Garyson (08/30/2011, 18Th Street Eastside, LineUp Image); 2. Gunchi, Jason Garyson (08/30/2011, 18Th Street Eastside, LineUp Image); 3. Gunchi, Jason Garyson (08/30/2011, 18Th Street Eastside, LineUp Image); 4. Gunchi, Joe Gunter IV (11/05/2010, 18Th Street Eastside, LineUp Image). The browser's taskbar at the bottom shows several open windows related to the application.

Slang Dictionary and Resource Features

The GangNet system has a built-in slang dictionary capability where users can record gang related slang terms, their meaning and region of use. The ability to record information about users and their gang related expertise is available in the Resource feature.

2. Data Analysis and Searching

The GangNet system provides robust, user-friendly tools designed to help the user discover hidden relationships. These tools include built-in statistical reports, ad hoc query reports, text searching, and automated multilevel link analysis.

Statistical Reports

The simplest and easiest analysis tools to use are the built-in statistical reports that provide aggregate counts using criteria selected by the user. These reports are pre-programmed and all that is required of a user is to supply some basic information to filter with such as age, gender, or ethnic background.

The screenshot shows a window titled "Member Age/Race Stats Report" containing a table titled "Member Age/Race/Gender Statistical Report" for "All Gang Members". The table lists counts for various age groups (18 to 40 and Unk) across different racial and ethnic categories (Aminidin, Asian, Black, Hisp, Mult, Pctair, White, Unk) and gender categories (Female, Male, Unk). A "Total" column is also present.

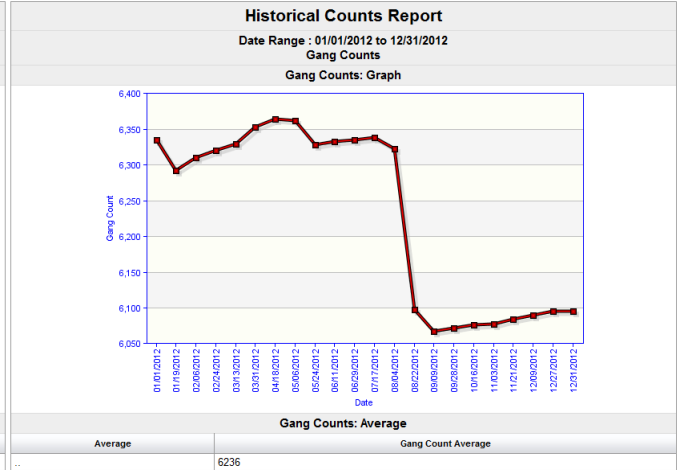
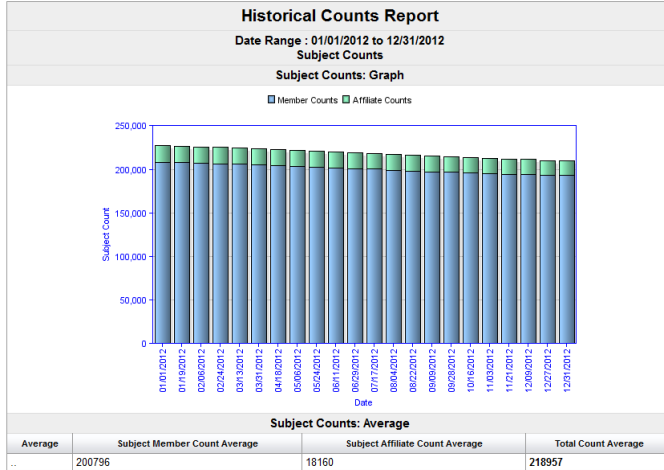
Age	Aminidin	Asian	Black	Hisp	Mult	Pctair	White	Unk	Female	Male	Unk	Total	
18	0	0	1	1	0	0	1	1	1	3	0	4	
19	0	0	2	0	0	0	3	4	1	8	0	9	
20	1	1	7	7	1	1	7	7	3	29	0	32	
21	2	5	1	23	2	0	5	5	9	34	0	43	
22	7	13	10	69	1	1	7	5	27	86	0	113	
23	4	20	14	157	1	3	36	6	40	201	0	241	
24	16	29	20	209	2	0	49	10	36	299	0	335	
25	13	40	34	261	3	1	45	7	42	362	0	404	
26	11	60	38	301	2	0	62	14	47	441	0	488	
27	11	74	49	346	3	3	80	13	44	535	0	579	
28	13	91	51	388	2	1	93	14	35	618	0	653	
29	13	120	49	420	6	4	106	18	54	682	0	736	
30	9	86	74	401	3	5	97	19	36	657	1	694	
31	17	81	59	347	3	7	70	15	33	566	0	599	
32	8	50	64	286	1	11	82	11	24	489	0	513	
33	10	41	55	241	0	3	62	15	25	402	0	427	
34	5	23	42	204	0	3	48	7	15	317	0	332	
35	5	26	36	155	0	1	39	7	7	262	0	269	
36	3	11	40	125	0	1	42	5	10	217	0	227	
37	4	8	25	94	0	1	31	6	5	164	0	169	
38	5	8	41	61	1	0	26	5	5	142	0	147	
39	3	4	33	46	0	2	26	2	4	112	0	116	
40	4	5	25	44	3	0	25	4	6	104	0	110	
Unk	3	12	48	91	4	2	36	10	13	193	0	206	
Total		167	808	816	4279	38	50	1078	210	522	6923	1	7446

Ad Hoc Queries

In large and diverse organizations it would be difficult to predict all of the possible statistical and custom reports that may be required. The ad hoc query capability allows users to construct their own reports (lists and statistical) from information in the database. Ad hoc reports are defined using standard structured query language (SQL). Report definitions can be saved and retrieved for future use.

Historical Counts

The system automatically tracks gang and subject information to monitor growing and diminishing counts in gang membership. By using the Historical Counts report, users can quickly see gang, gang membership and subject impact reports in a graphical display that clearly show upward or downward trends.



Top 10 Reports

Top 10 reports display the ten most active gangs, gang members or locations in the system based on the amount of backup documentation that has been collected on subjects. Backup documentation used to determine the most active gangs and subjects include field interviews, arrests, and investigative reports. Most active locations are determined by the number of subject associations to known locations. Top 10 reports can be filtered by date range and departmental information.

Top Ten Report - Gang Member									
Date Range : 01/01/2012 to 12/31/2012									
Agency : Los Angeles Sd - Los Angeles - CA									
Maximum Records Displayed : 10									
No.	Gang Member Name	Arrest Count	Crime Count	Field Interview Count	Gang Registration Count	Investigative Count	Jail Classification Count	Miscellaneous Count	Total Counts
1	[REDACTED]	3	0	12	0	0	0	0	15
2	[REDACTED]	2	0	11	0	0	0	0	13
3	[REDACTED]	3	0						
4	[REDACTED]	5	0						
5	[REDACTED]	0	0						
6	[REDACTED]	2	1						
7	[REDACTED]	1	0						
8	[REDACTED]	6	0						
9	[REDACTED]	2	0						
10	[REDACTED]	2	0						

Top Ten Report - Gang										
Date Range : 01/01/2012 to 12/31/2012										
Agency : Los Angeles Sd - Los Angeles - CA										
Maximum Records Displayed : 10										
No.	Gang Name	Arrest Count	Case Count	Crime Count	Field Interview Count	Gang Registration Count	Investigative Count	Jail Classification Count	Miscellaneous Count	Total Counts
1	EUREKA 53	233	0	5	392	1	1	50	0	682
2	Hawaiian Gardens	270	0	10	368	2	3	3	0	656
3	Eastside Paramount	66	0	1	307	0	0	3	0	377
4	Phonix	118	0	6	213	2	0	15	0	354
5	Watts Norwalk	151	0	9	171	1	5	7	1	345
6	Shaw Patch	99	0	1	159	0	0	3	0	262
7	Acta	64	0	0	135	0	0	0	0	199
8	Watts Carson	88	0	6	101	0	0	4	0	199
9	El Monte Flores	40	0	0	134	2	1	20	0	197
10	Compton West	69	0	1	116	0	0	5	0	191

Text Lookup and Cross Reference

The text indexing with lookup and cross reference searching tool allows users to search all data in the system, including Word and PDF document attachments, for user specified words or phrases. This allows users to easily find information regardless of where it is located in the System.

Find Matrix

ⓘ Loading an existing Matrix will reload this matrix with the selected overwriting anything already entered.

Find : All My Matrices (search term required for ALL)

Click To Load :

Matrix [Clear](#)

Name : [Save](#) [Delete](#) (name required to save)

Subject Index Search Matrix [Index Search Help](#)

	Search Terms	SANTA ROSA	BAKERSFIELD	SAN DIEGO	SACRAMENTO		
6		5640	18	96	36	0	0
MS-13	0	0	0	0	0	0	0
SURENOS	1957	4878	9	150	23	0	0
18TH STREET	44	0	0				
NORTENOS	1590	5920	10				
	0	0	0				
	0	0	0				

Subject Index Search Options

Search Target : All Objects/Documents

Search Options : Fuzzy Searching 4

Stemming

Phonic Searching

Natural Language Search

Max Files : 25

Subject Index Search Results - Matrix

Results : 16 Files : 150 Hits : 16 shown Search Term : "SURENOS" AND "SAN DIEGO"

#	Hits	Description	Type/Size	Indexed
1	39	SUBJECT - Member - Puentes, Eduardo • WITH THE KNOWN SURENO GANG MEMBER JORGE • 012988. Primary Fairfield Surenos Calle San Marcos • Calle San Marco Sureno gang member with • Ct. a known sureno area. On probation • Ct. a known sureno area. On probation • Ct w/ known surenos . in sureno area. Probation w	Object Data HTML 77.76 KB	6/11/2010 19:01:00
2	29	SUBJECT - Member - Cairo, Ramon Armando • 03/24/1993 San Diego CA Documented By • Primary Santa Rosa Surenos 1. Secondary Varrio Sureno Loco 1. Tattoo • Chest Upper Front Surenos locos gang =13 • set of the Surenos for approx. 11 • of Cairo displaying Sureno hand signs and	Object Data HTML 249.82 KB	6/11/2010 19:00:36
3	10	GANG - Sureno - South East San Diego • GANG - Sureno - South East San Diego South East San Diego Sureno Y Black San Diego Active 1	Object Data HTML 13.66 KB	6/12/2010 19:01:19
4	10	GANG - Sureno - East Side San Diego • GANG - Sureno - East Side San Diego East Side San Diego Sureno Y San Diego Active 1	Object Data HTML 13.64 KB	6/12/2010 19:01:16
5	10	GANG - Sureno - South Side San Diego • GANG - Sureno - South Side San Diego South Side San Diego Sureno Y Hispanic San Diego Active 1	Object Data HTML 13.67 KB	6/12/2010 19:01:01
		GANG - Sureno - East San Diego	Object Data	

Bulk Searching

Bulk searching allows users to query without the need to run multiple searches. Users can upload lists of search criteria to the system and run the resultant query to display matches. The results of a query can be downloaded for further analysis. Format-specific Excel spreadsheets can be created for upload use. The format types that can be uploaded for searching are Name and Date of Birth, Identification Number, Phone Number, or Vehicle License.

Bulk Searching Refresh Back/Close

Generate Report Clear

Define Bulk Searching Parameters

ⓘ If performing search on behalf of a requesting entity/individual please do not forget to do the proxy login before generating the output.

Search Target : CA05 - G8EDGE

Search Type : Subject Name/DOB

Spreadsheet File : C:\Docs\8.3\Gang83WebXfer\bulkquery-test-r Browse... Check File For Errors removed after processing

input file size (rows) will affect processing time and may cause timeouts, if timeouts occur consider breaking the file into smaller chunks for processing

First Row Header ? select if the first row in the provided spreadsheet contains only column headers

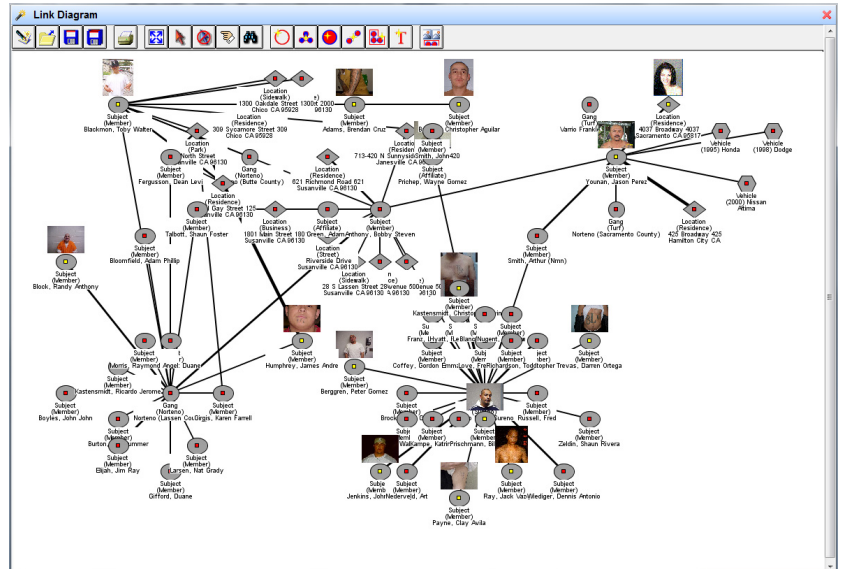
Bulk Searching (CA05 - G8EDGE)

Subject Name/DOB : 06/27/2013 10:05 : 7 Input Row(s)

Input Row	Searched Last Name	Searched First Name	Searched DOB (+/-2)	MATCH	SOURCE	Autold	Subject Last Name	Subject First Name	Alias Last Name	Alias First Name	DOB	Gang Name	Criteria Officer	Officer Phone
1	Adams	Joseph	11/30/1990	Yes (Name/DOB)	(CA05) G8EDGE	7777770000010000349	Adams	Joseph	n/a	n/a	11/30/1990	Unstoppable Criminals	Rose, Chris	(890) 123-4567
2	Carter	Brett	05/10/1995	Yes (Name/DOB)	(CA05) G8EDGE	7777770000010000350	Carter	Brett	n/a	n/a	05/10/1995	Unstoppable Criminals	Rose, Chris	(890) 123-4567
3	ONeil	Robert	02/02/1994	Yes (Name/DOB)	(CA05) G8EDGE	7777770000010000351	ONeil	Robert	n/a	n/a	02/02/1994	West Side	Rose, Chris	(890) 123-4567
4	Moore	Mark	06/01/1994	No	...	...	...	...	...	...	...	...	...	...
5	Dunhill	Terry	01/01/1988	No	...	...	...	...	...	...	...	...	...	...
6	Moore	Melissa	04/04/1993	No	...	...	...	...	...	...	...	...	...	...
7	Alvidrez	Christopher	12/15/1978	No	...	...	...	...	...	...	...	...	...	...

Automated Multilevel Link Analysis

The core design of the system supports data collection for each subject and then provides the ability to associate known subjects with other subjects and entities to build a relationship hierarchy. The system includes the implementation of SRA's proprietary JAVA based multilevel link analysis program (JavaLink) to show the connectivity between subjects, affiliates and other objects. JavaLink, built to the ANACAPA standard, should not be confused with drawing packages where users define in a pictorial manner what they already know. The GangNet system's automated link analysis helps the user discover information they **do not** already know. This is especially crucial when the data collection sources are diverse. Starting with any person or other main object, the user can create an automated diagram with the click of the mouse allowing up to 10 levels of relationships to be constructed in the diagram. The user may also augment the generated diagram with custom nodes and information. After the diagram has been generated, the user can save and print the diagram using a standard Windows printer or plotter.



3. System Maintenance

The GangNet system provides an extensive set of system maintenance features. The database maintenance capability supports an organization's need to customize the system for their particular agencies, crime codes, vehicle makes and models, and common pick-lists such as hair and eye color. The ability to perform database maintenance is controlled by an access profile that is generally only given to the application administrator. These controls specify the user's ability to perform activities (view, add, modify, print, and delete information) in the system. The administrator can create different access profiles consisting of any number of the individual controls (e.g. Subject Add, Subject Modify, Subject Owner Modify, Agency Modify, etc.) to restrict the actions that can be performed a given group of users. The Administrator can create and name as many profiles as necessary. The system automatically records information about the user who creates, modifies or deletes a record and/or detail record including the details of the modification if applicable.

User accounts retain information about the user, including login and access privileges. User account information includes user name, password, agency information and expertise, as well as contact information.

Data review and purging is required to ensure that the database is 28 CFR 23 compliant. The system provides purge reports based upon user-supplied parameters and produces a list of records scheduled to be purged. Alternately the system may be scheduled to automatically run the purge routine on a nightly basis to ensure the system is never more than twenty-four hours out of compliance.

Purge periods are also configurable by adult/juvenile record status if such a configuration is needed when the retention periods for each are different.

Data Security and Integrity

During the data collection process, actions of the user are audited for security purposes. All searches, adds, modifies and views of information are recorded in the system audit log that can be reviewed by all users of the system. In addition, if performing actions by proxy for a requesting individual this information is also collected and audited. Low-level information is stored with each audit allowing the display of the following details:

- Exact query run to generate a search result
- Exact Information added per the audit
- Exact Information deleted per the audit
- Exact Information modified per the audit
 - A comparison of the record before and after the change is available, highlighting the modified information

Standard audit reports are provided to system administrators with proper permissions. Data security features include automatic and manual screen locking, automatic account logoff due to session inactivity, high-level password encryption, and the use of strong passwords. Permissions are checked in real-time and thus, when changed, take effect immediately.

The image shows two overlapping application windows. The background window is titled "Subject Audit Report" and displays a table of audit records. The foreground window is titled "Audit Detail View" and shows a detailed comparison of a specific record's data before and after editing.

ID	Date/Time	Action	Location	Office	User	Record ID
92	07/12/2013 09:40:36	List	Location	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
93	07/12/2013 09:40:31	List	Preview / Summary	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
94	07/12/2013 09:36:56	List	Location	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
95	07/12/2013 09:19:10	List	Location	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
96	07/12/2013 09:19:08	List	Location	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
97	07/12/2013 09:19:01	List	Report	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
98	07/12/2013 09:19:00	Edit Detail	ARREST	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
99	07/12/2013 09:19:00	Add Relationship	SubjectToLocation	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001
100	07/12/2013 09:18:59	Delete Relationship	SubjectToLocation	LANDER COUNTY SHERIFF'S OFFICE	Administrator, Orion Systems	777001

Field Name	Before Data Edit	After Data Edit
Autoid	10010300000000051693	10010300000000051693
RootObjectType	Subject	Subject
RootObjectAID	1001030000000017165	1001030000000017165
CreateDate	2010-07-09 09:08:37.263	2010-07-09 09:08:37.263
CreateUserAID	10010300000000000001 : [Administrator, Orion Systems]	10010300000000000001 : [Administrator, Orion Systems]
UpdateDate	2011-06-30 15:34:25.28	2013-07-12 09:19:00.503
UpdateUserAID	10010300000000000001 : [Administrator, Orion Systems]	10010300000000000001 : [Administrator, Orion Systems]
Type	ARREST - [Arrest]	ARREST - [Arrest]
InformationDateTime	2010-07-09 00:00:00.0	2010-07-09 00:00:00.0
OfficerName	Smith, Joe	Smith, Joe
OfficerId	23333	23333
OfficerFacilityAID	1001030000000001640 : [LVMPD-GANG CRIMES BUREAU]	1001030000000001640 : [LVMPD-GANG CRIMES BUREAU]
Notes	TEST TEST TEST TEST	TEST TEST TEST TEST
MetaAID	1001030000000000543	1001030000000000543
LocationAID	1001030000000017728	1001030000000020873
LocationRelAID	10010300000000177854	10010300000000177877
MetaData	Arrest Report Specific Information Below This Line	Arrest Report Specific Information Below This Line
ArrestUnit	Unit	Unit
BookingNumber	2010-07.1	2010-07.1
CaseDate		
CaseDisposition	Convicted	Convicted
CaseNumber	1	1
Convicted	No	No
ArrestCharges	1006 - 1006 - RIDING ANIMAL UNDER INFLUENCE ON HIGHWAY	1006 - 1006 - RIDING ANIMAL UNDER INFLUENCE ON HIGHWAY
HousingCell		
HousingModule		
HousingUnit		
ReleaseDate		
HousingFacilityCode	1001030000000000000	1001030000000000000
HousingFacilityAID		1001030000000000000







Data editing and deleting can be controlled at many levels, including the ability to edit and or delete either the primary object or its details for:

- All records
- Only records that are created by the user's agency or department
- Only records that are created by the user's facility or unit
- Only records that are created by the user.

4. Additional Available GangNet Features

Optional GangNet Mobile Connectivity

Mobile searching of GangNet from smartphones and PDAs is available. Searching of subject, gang, location, vehicle, and contact information is available in the mobile search. Connectivity from the mobile device to the GangNet mobile website will be required. If facial recognition is installed, a user can take a photograph in the field and have a comparative return in seconds.

<p>GN8MOBILE Help? Logout</p> <p>SHOW IMAGES IN SEARCH RESULTS ? <i>please expect longer search times with images</i></p> <p><input checked="" type="checkbox"/> Yes, show images.</p> <p>BY SUBJECT Clear All Search <i>checkbox triggers exact match search - otherwise contains</i></p> <p>LAST NAME <input type="text" value="Gunchi"/> <input checked="" type="checkbox"/></p> <p>FIRST NAME <input type="text"/></p> <p>MONIKER <input type="text"/></p> <p>DOB (+/- 2 years) <input type="text"/></p> <p>AGE RANGE <input type="text"/> TO <input type="text"/></p> <p>BY DESCRIPTION Clear All Search</p> <p>RACE <input type="text"/></p> <p>DESCENT <input type="text"/></p> <p>GENDER <input type="text"/></p> <p>HEIGHT RANGE <input type="text"/></p>	<p>7. - MEMBER - Gunchi Jackson Jackson</p> <p> NODE NV02 DOB 05/05/1974, GANG 18th Street GENDER Male</p> <p>8. - MEMBER - Gunchi Jackson Withreport</p> <p> NODE NV02 DOB 05/05/1974, GANG 18th Street GENDER Male</p> <p>9. - MEMBER - Gunchi Jason Garyson</p> <p> NODE NV02 DOB 02/01/1988, 02/01/1989, GANG 18Th Street Eastside GENDER Male MONIKER Bacon Boy, Pork Chop, RACE White</p> <p>10. - MEMBER - Gunchi Jimmy</p> <p> NODE NV02 DOB 05/01/1974, GANG 102 Budlong Crips GENDER Male</p> <p>11. - MEMBER - Gunchi Joe Gunter</p> <p> NODE NV02 DOB 02/02/1970, 02/02/1972, GANG 1200 Block Crips GENDER Male MONIKER Cocheese, Slick,</p>	<p>GN8MOBILE New Search Results Re-Search Help? Logout</p> <p>Gunchi, Jason Garyson</p> <p>Subject Affiliate Alert Arrest SMTG ID Location</p> <p>Vehicle Contact</p> <p> TYPE Member GENDER Male RACE White IMG DATE 07/06/2012 IMG METHOD Detention</p> <p>GANG P/S : name, clique [position]</p> <p>P : 18Th Street Eastside S : 18th Street</p> <p>DOB 02/01/1988 (25) 02/01/1989 (24)</p> <p>ALIAS Goober, Jack</p> <p>MONIKER Bacon Boy Pork Chop</p>
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Optional Data Transfer

To reduce the need for duplicate data entry, purchase of the GangNet Bridge and Gatekeeper will support automated transfer of data from RMS/CMS/JMS or other system to GangNet. The Gatekeeper allows a designated reviewer to examine data and approve or disapprove its inclusion into GangNet. The bridge can be configured to automatically add/merge incoming data on high probability matches as configured by the administrator. Please see the separate GangNet Bridge Overview document for additional information. The GangNet Bridge currently supports ingestion of data files in the N-DEx IEPD format (NIEM and LEXS based), but custom adapters can be developed for alternative formats.

The screenshot displays the GangNet GateKeeper Document View interface. The main window shows a document titled "(NDEX Field Interview) 9900000000098 - 06/27/2013 08:51:07 (doc date)". The interface is divided into several sections:





- Document Subjects:** A table with columns for Name, Last, First Middle Suffix, and Status. One subject is listed: Hernandez, Enrique (NEW).
- Witnesses/Other Involved Persons:** A table with columns for Name, Last, First Middle Suffix, and Status. It shows "No Data within Report."
- Victims:** A table with columns for Name, Last, First Middle Suffix, and Status. It shows "No Data within Report."
- Person - N65889:** A detailed view of the subject, including fields for PREFIX, LAST (Hernandez), FIRST (Enrique), MIDDLE, SUFFIX, DOB (1988-03-03), and ETHNICITY.
- DOCUMENTATION:**
 - FIELD INTERVIEW:** Includes DATE (2013-06-04T10:16:00.0000), REFERENCE NUMBER (130604-1323), OFFICER (Robinson, Jonathan J), OFFICER FACILITY, OFFICER ID (13658), OFFICER BEAT (F3), and OFFICER PHONE.
 - CLOTHING:** blk and white stripped polo, blk pants.
 - DETAIL:**
 - GANG MEMBERSHIP:** TYPE (Gang), NAME / CLIQUE (Juggalos), PRIMARY, REL.
 - SOURCE GANG MEMBERSHIP CRITERIA:** Subject Criteria[AD]: Self admitted - Subject has admitted to being a gang member. Subject Criteria[GT]: Gang tattoos - Subject is known to have gang tattoos.
 - IDENTIFICATION:** TYPE, NUMBER (JURISDICTION), SSN (590-80-8885), SCOPE ID Number (1978365 (NV)).
- High/Medium/Low Matches:** A section for matching candidates. The selected subject is Hernandez, Enrique.
 - High Section:** Contains two entries:
 - Entry 1: Name/Alias (Hernandez, Enrique), Gang Name, Type, Clique, Relationship (3Rd Street Locotes), Sex (Male), Race (Hispanic), Descent, and DOB (10/19/1987, 03/03/1988).
 - Entry 2: Name/Alias (Hernandez, Enrique), Gang Name, Type, Clique, Relationship (Juggalos, Crew), Sex (Male), Race (White), Descent, and DOB (03/03/1988).
 - Medium Section:** No potential matching candidates found for this section.
 - Low Section:** No potential matching candidates found for this section.

Optional Biometric Capabilities

The system can seamlessly integrate with a highly-sophisticated, 255 points facial recognition engine. Facial images in the form of JPG can be encoded and stored in the system’s database. The system provides an easy to use interface to search for faces matching a selected target image and a user can generate a photo line-up from the results of the search.

Simultaneous Node Search

Agencies that have agreed to participate in the sharing of gang data have the ability to search both their local GangNet system as well as external GangNet systems with a single search command. Information returned from each GangNet system is shown as a separate tab on the results screen, giving the user the ability to view information from multiple sources without logging in and out of different systems. Network connectivity between the GangNet systems and memorandums of understanding (MOUs) between the systems are required.

Select Gang									
Local • LASD • 13 Remote • Arizona • 6 Remote • ATF • 9 Remote • DOJ • 8 Remote • FBI • 0 Remote • ICE • 8 Remote • Nevada • 3 Remote • New Mexico • 1									
Remote • Spokane • 0 Remote • Washington Baltimore HIDTA • 3									
Viewing 1 - 6 of 6 Records									
Legend: <input checked="" type="checkbox"/> Image(s) Present OR <input type="checkbox"/> No Image(s) OR Image(s) Displayed									
Filters : NAME=(13) Images=(IMGRECENT)									
No.	Image	Name	Aka	Clique	Type	Symbol	Area	City	Membership (Pri / Sec / Aff)
1		Cherry Lane Tokers	<ul style="list-style-type: none"> Cherry Lane Cherry Lane 13 Cherry Lane Sur 13 Cit Toker 13 	...	Street Gang	<ul style="list-style-type: none"> Graffiti 	<ul style="list-style-type: none"> Maricopa Maricopa, AZ Pinal County 	<ul style="list-style-type: none"> Maricopa, AZ 	0 / 1 / 0
2		South East Side	<ul style="list-style-type: none"> S.E.F. Southeast Familia Sur 13 	...	Sureno	<ul style="list-style-type: none"> Tag Tag with Monikers 	<ul style="list-style-type: none"> Cottonwood AZ Cottonwood 	<ul style="list-style-type: none"> Cottonwood, AZ 	8 / 2 / 0
3		Sur 13 La Victoria		<ul style="list-style-type: none"> Gang graffiti 	<ul style="list-style-type: none"> Southern California 	...	8 / 2 / 0
4		Sur 13/Sur Trece/Surenos	<ul style="list-style-type: none"> Ssl Sur 13 	<ul style="list-style-type: none"> Chino Sinners Chino X3 Knock Knock Boys La Victoria 	Street Gang	<ul style="list-style-type: none"> Sur 13 Tatt LHC, PD Az 	<ul style="list-style-type: none"> 12th Street & Valencia, Tucson, Arizona 3200 E. Thomas Rd. Phx, AZ 68th Street & Osborn Scottsdale 68th Street and Osborn Scottsdale, AZ 7200 E. Belleview 	<ul style="list-style-type: none"> Oro Valley, AZ Inland Empire, CA San Bernardino, CA 	155 / 65 / 10

SYSTEM REQUIREMENTS

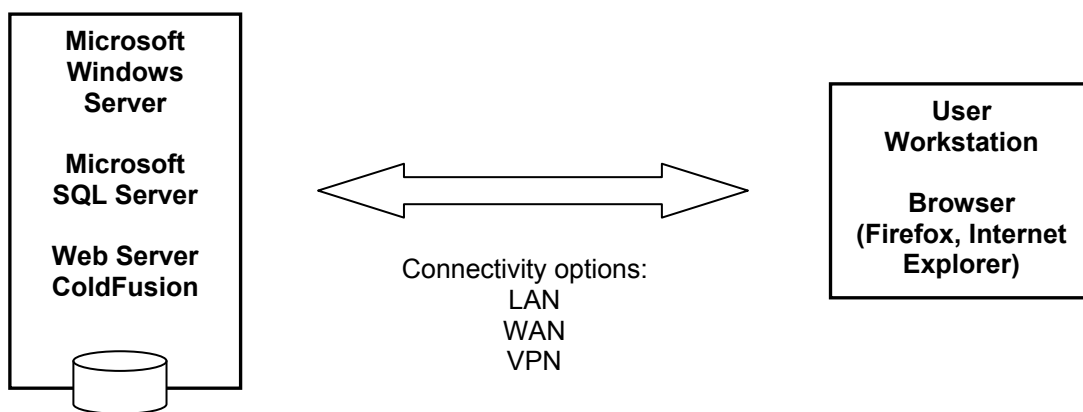
Required Supporting Software

The system uses Internet technology. Required supporting software is listed below:

- Client: Mozilla Firefox or Microsoft® Internet Explorer (Version 8.0 or later)
- Web Server: Microsoft Internet Information Server
- Database Management System: Microsoft® SQL Server™ 2008 or newer
- Application Server: Adobe® ColdFusion® 10 or newer

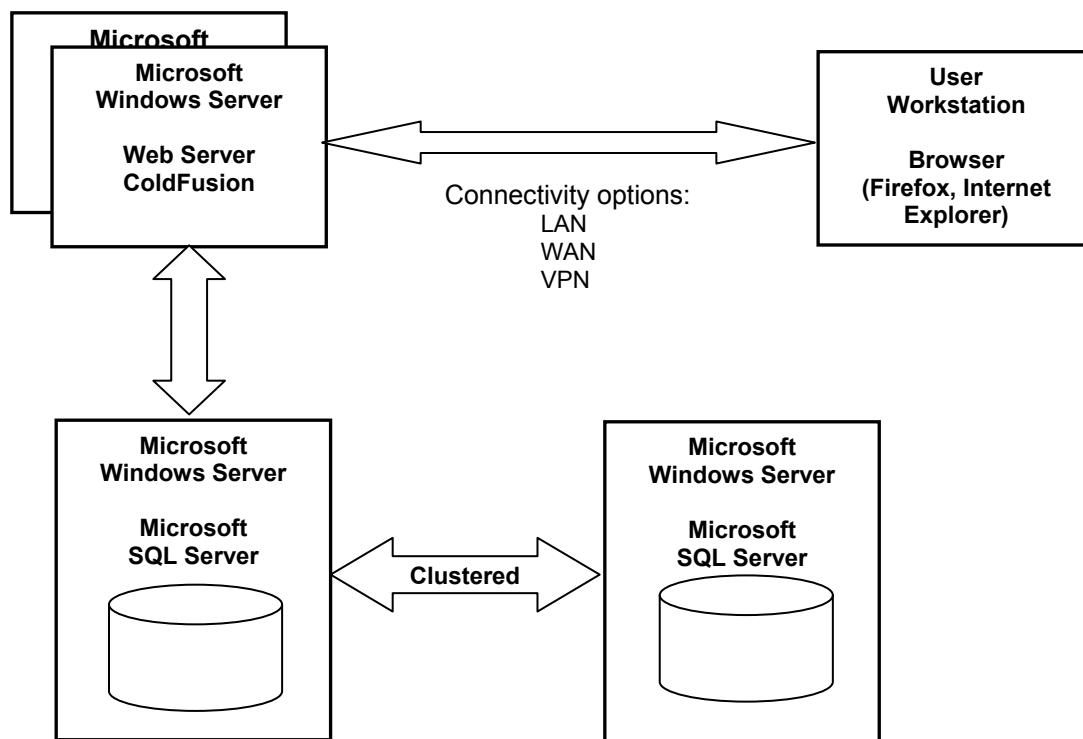
System Architecture

The system requires a Microsoft Windows Server running Microsoft SQL Server, which may be provided by SRA at cost or obtained from a third party. The actual configuration of the servers (RAM, hard disk space, RAID etc.) will depend upon the potential size of the database, number of users and the number of transactions executed. Additional supporting software includes Cold Fusion (application server), and a web server (Microsoft Internet Information Server). In this architecture, users do not connect directly to the database, but to the web server that uses Cold Fusion to make requests and send information to the database. The user's workstation only requires a web browser to connect. The system supports several connectivity options. Local area networks, wide area networks, wireless technology, and/or virtual private networks are supported. The connectivity choice is up to the customer based on what best fits into their current IT practices. In small installations, the architecture will support the GangNet system running on a single server.



Option for a small installation

High traffic and large installations require additional servers to support the workload and redundancy requirements. Additional web servers can be added to support load balancing. Additional SQL Servers can be clustered to support redundancy ensuring high availability including replication to a central location.



Option for a large installation

NEED MORE INFORMATION?

If you would like a proposal for the system described above or need more information on SRA GangNet or any other SRA product, please contact us at 1-866-895-6681; or gangsupport@sra.com; or visit us at <http://www.sra.com>.

ABOUT SRA

SRA International, Inc. is a leading provider of information technology (IT) services and solutions to clients in national security, civil government, as well as health care and public health. Our largest market, national security, includes the Departments of Defense, Homeland Security and Justice. Since its founding in 1978, SRA has successfully performed thousands of high-level projects delivering sophisticated IT systems and solutions to Federal, State and Local Government agencies. The Company's 5,000+ employees serve clients from its headquarters in Fairfax, VA and its numerous offices around the country.