

PROBLEM ORIENTED POLICING SYSTEM (POPS)

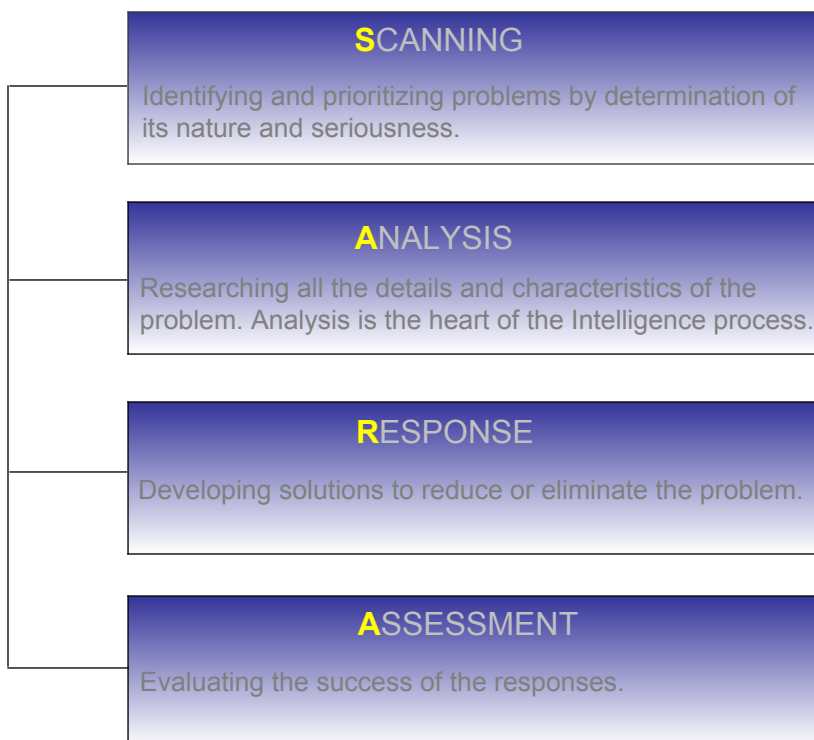
Description:

Problem Oriented Policing System (POPS) designed and developed by IONNINA, LLC., is a crime solving system for identifying, assessing, tracking, and reducing community crime and disorder problems. It s a proactive approach to solving crimes by addressing the root causes of problem disorder, and preventing crime before it occurs rather than reacting to it after it happens.

Model:

POPS is a web-based solution modeled and developed using Herman Goldstein's problem oriented policing framework, with modules extensions to adapt Community Oriented Problem Solving and also Intelligence-Led Policing.

The entire system is organized using SARA (Scan, Analyze, Respond and Assess) analytical model for easy understand and use.



PROBLEM ORIENTED POLICING SYSTEM (POPS)

Benefits:

- Active involvement of communities and external agencies through Intranet and Internet communication capabilities.
- Capable of linking all regional offices at one operations center location for optimum sharing of information and solutions.
- Visually creative interface and graphics for rapid data collection, improved work flow and customizable reports for operators and responders.
- Enhanced data collection - supports most popular enterprise databases for integration with Geographic Information Systems (GIS) to visualize relationships, patterns and trends.
- Easy interface for community - smart phones, web-based access, voice activation with standard report terminology to minimize data entry and capture and prioritize data.
- Configurable by modules for essential and optional features to meet requirements while maintaining price reasonableness.

Future Capabilities:

- Quantitative Efficiency engine - to help ensure efficient workforce distribution of resources and increased productivity.
- Probabilistic engine - sophisticated mathematical engine that will predict specific events based on predefined or dynamic patterns.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Technologies used:

- Implementation of high performance ASP.NET Web application developed in .NET 3.5 with one of the most powerful, scalable and advanced n-tier, service-oriented enterprise design patterns and high performance WCF services.
- Interoperability between COPS services and commercial Java applications (J2EE) based on WCF and industry-standard Web Services, including WS-* Advanced Web Services with no code changes required.
- Implementation of multiple service bindings to support different network transports including TCP/IP for blazing fast speed and message encoding formats using WCF.
- To be consistent with national standards, the system and the database structure was modeled after global jxdm (Justice XML Data Model) schema for easy integration and data-sharing with other systems in order to bring data together in a timely fashion.
- The Global JXDM is intended to be a data reference model for the exchange of information within the justice and public safety communities and is sponsored by the U.S. Department of Justice (DoJ) Office of Justice Programs (OJP), with development supported by the Global Justice Information Sharing Initiative's (Global) XML Structure Task Force (GXSTF).
- The system supports the most popular enterprise databases such SQL Server 2005/2008, Oracle 11g, Sybase 12.5, etc.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Scanning

- The first phase of SARA model is Scanning and helps to identify and prioritize problems by determination of its nature and seriousness.
- The POPS system is designed to handle each problem as a cluster of recurring similar type of incidents and can accept information data from different intelligent sources.
- A problem could be identified from a variety of sources such as: crime statistics, 911 calls, letters from the elected officials, the local authority, community survey, other agencies and businesses, etc.
- The system provides a search engine that will allow you to greatly reduce the time spent searching for a particular type of information that is relevant to a particular problem.
- Also it allows the user to associate problem elements such as people, organizations, locations, etc. from external data sources with the current problem.

The modules included in this phase helps to identify and select a problem, redefine the problem, and identify the stakeholders. The system allows you to describe in detail all the incidents, crime types, and recurrence that makes up a problem.

Note: Only the screens that are relevant to understand the Scanning phase are included.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

COMMUNITY ORIENTED POLICING SYSTEM
Alpha Scuti Police Department

Features Home

SEARCH

Search By

Go

SARA

Scan

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- Agencies
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- Similar Crimes

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- Objectives

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Help

Problem Information (String of Armed Robberies)

Problem Information

Problem Name	Problem Number
<input type="text" value="String of Armed Robberies"/>	<input type="text" value="08032009-1001-ROB"/>
Start Date & Time	End Date & Time
<input type="text" value="8/3/2009"/> <input type="text" value="08:00 AM"/>	<input type="text" value="8/28/2009"/> <input type="text" value="11:00 AM"/>
Problem Description	
<input type="text" value="On July 31, 2009, Charlotte City Council issued a letter to Charlotte Police Chief Mr. D. S. explaining his concern related to high volume of robberies recorded in Charlotte, particularly on South East Bulevard."/>	
Why was this problem selected?	
<input type="text" value="As Police Chief for Charlotte, I regularly review crime reports and statistics. 911 calls and recent analysis of crime figures shows an increase in the level of reported robberies with the"/>	
Problem Statement (CONFIDENTIAL)	

Figure 1: POPS Problem Information Page

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Problem Information (String of Armed Robberies)

Problem Information
Problem Statement (CONFIDENTIAL)

Problem Statement

- * An assailant held up a woman working in a local children's store at knife-point in front of her four-year-old child.
- * An assailant robbed and beat a woman near her car with her two young children watching and another woman was assaulted and robbed on a Sunday morning near her church.
- * Two residents were robbed at gunpoint last week and another had her car stolen even though it was locked and parked under a street lamp in front of her home.
- * Another armed robbery was reported Sunday night, leaving law enforcement agencies wondering if they are looking for a serial assailant or multiple suspects.
- * The latest robbery occurred shortly before 11 p.m.

New Save Delete

Problem Info Crime Type Initiated By Officers Recurrence

Figure 1: POPS Problem Information Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

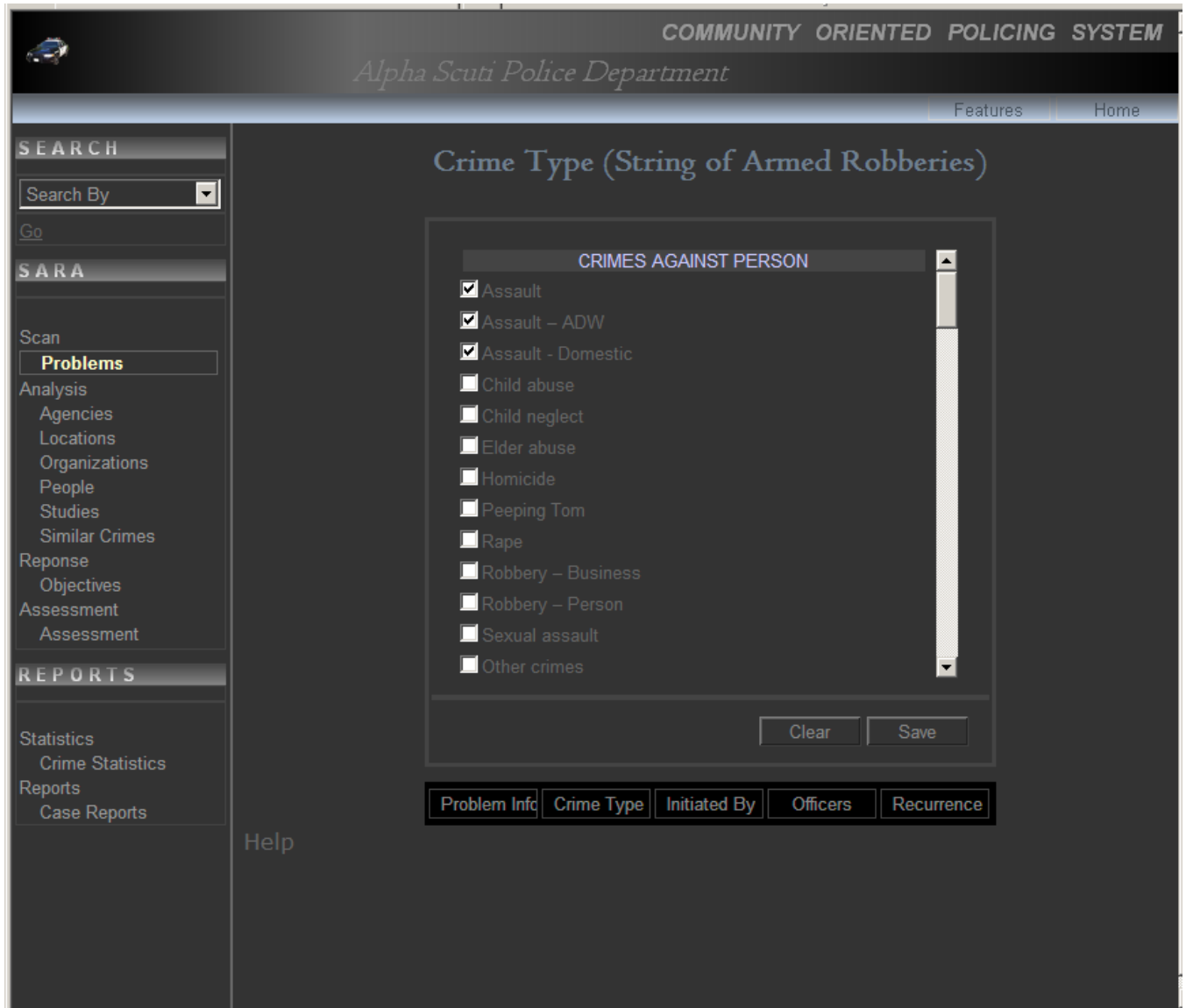


Figure 1: POPS Crime Type Page

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COMMUNITY ORIENTED POLICING SYSTEM
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Initiated By (String of Armed Robberies)

Requested By	Description	Rank
<input checked="" type="checkbox"/> Citizen	<input type="text" value="911 Call"/>	<input type="text" value="1"/>
<input checked="" type="checkbox"/> City Council	<input type="text" value="Request letter"/>	<input type="text" value="2"/>
<input checked="" type="checkbox"/> Crime Stats.	<input type="text" value="Crime reports and statistics"/>	<input type="text" value="3"/>
<input type="checkbox"/> Env. Services	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Hospital	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> KB-COPS	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Media	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Police	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Other Agency	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Other	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> School	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Social Svcs.	<input type="text"/>	<input type="text" value="0"/>
<input type="checkbox"/> Survey	<input type="text"/>	<input type="text" value="0"/>

Clear Save

Problem Info Crime Type Initiated By Officers Recurrence

Figure 1: POPS Initiated By Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

The screenshot shows a web browser window titled "Problem Information - Windows Internet Explorer" with the address bar displaying "http://localhost:4666/ProblemRecurrence.aspx". The page header includes "COMMUNITY ORIENTED POLICING SYSTEM" and "Alpha Scuti Police Department". The main content area is titled "Problem Recurrence (String of Armed Robberies)".

On the left side, there is a navigation menu with sections: "SEARCH" (containing a "Search By" dropdown and a "Go" button), "SARA" (containing a "Scan" button and a "Problems" button), "Analysis" (containing a list of categories: Agencies, Locations, Organizations, People, Studies, Similar Crimes), "Reponse" (containing "Objectives" and "Assessment"), and "REPORTS" (containing "Statistics", "Crime Statistics", "Reports", and "Case Reports").

The main form area contains the following elements:

- Frequency selection: Radio buttons for "Once", "Daily" (selected), "Weekly", "Monthly", and "M & W".
- Time selection: "Start Time" (06:30:00 PM) and "End Time" (10:30:00 PM) text boxes.
- Recurrence Description: A text area containing the text "These events are opportunistic and occur predominantly earlier in the morning or late in the evening." with scrollbars.
- Buttons: "Clear" and "Save" buttons.
- Filter tabs: "Problem Info", "Crime Type", "Initiated By", "Officers", and "Recurrence".

A "Help" link is visible at the bottom left of the main content area.

Figure 1: POPS Problem Recurrence Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Analysis

- Herman Goldstein defines analysis as in-depth knowledge of all the characteristics of a problem and all the factors involved to the problem. *"Analysis requires the acquisition of detailed information about offenders, victims, and others who may be involved in a problem, the time of occurrence, locations, details about the physical environment, the motivations, gains and losses of all involvement parties, and the results of current responses."*
- The system has a very complex implementation of Analysis phase and contains the following modules: Agencies, Locations, Organizations, People, Interviews, Surveys, Problem Analysis Triangle (PAT), Crime Prevention Triangle (CPT), Crime Prevention Through Environmental Design (CPTED), and Similar Crimes.
- Modules such Interviews, Surveys, Problem Analysis Triangle, Crime Prevention Triangle, and Crime Prevention Through Environmental Design, help better understanding of the root causes of problem disorder.
- Similar Crimes module was designed to help you find crimes of the same nature and learn what others have found about the causes of the problem, how they implemented the responses and how effective was their responses.
- The Analysis modules will help you to understand:
 1. the victims
 2. the location
 3. the characteristics of the offenders
 4. the factors, conditions and causes that contributed to the problem

Overall you understand the root causes of problem disorder, why the problem exists and why is occurring.

Note: Only the screens that are relevant to understand the Analysis phase are included.

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COMMUNITY ORIENTED POLICING SYSTEM
Alpha Scuti Police Department

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Location Info (String of Armed Robberies)

Name
Stumpy Creek Park

Description
[v]

Location Type
Public Park/Playground [v]

Neighborhood Name
[v]

Landmark
[v]

Cross Street (Intersection)
Perth

Highway
150

New Save Delete Map

Location Address [v] [v] [v]

Figure 1: POPS Location Page

The system has implemented a list of locations associated with the current problem or the user can create a new location from a GIS system to interactively add to the current problem.

Understanding the location can more accurately anticipate the likelihood of displacement or diffusion.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

The screenshot displays the 'Organization Info (String of Armed Robberies)' page within the 'COMMUNITY ORIENTED POLICING SYSTEM' for the 'Alpha Scuti Police Department'. The interface includes a search bar on the left, a sidebar menu with 'Organizations' highlighted, and a main form for editing organization details. The form fields are as follows:

Name	Computer Business Intelligence, Inc.				
Doing Business As	Computer Business Intelligence				
Name Abbreviation	CBI	Is Incorporated ? <input checked="" type="checkbox"/>			
Federal Tax Id	56-092019	Organization Id			
ORI Id		Generic Id			
Established Date	9/11/1998	Termination	7/31/2009	Status	Active
Business Type	Professional service provide	Government Level Code	Local		
Description	Software Development Company				

Buttons at the bottom of the form include 'New', 'Save', and 'Delete'. Below the form are additional buttons for 'Bus. Info', 'Contacts', and 'Address'. A 'Help' link is located at the bottom left of the page.

Figure 1: POPS Organization Info Page

The system has a list of organizations associated with the current problem or the user can create a new organization to associate it with the current problem. Similar functionality is available for agencies.

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Person Name (String of Armed Robberies)

Person Category:

Date of Birth:

Prefix Name:

First Name:

Middle Name:

Last Name:

Suffix Name:

Maiden Name:

Alternate (AKA):

Soundex Name:

Name	Life Style	IDs	Residence	Address
Social	Physical	Employment	Photos	Contact Info

Figure 1: POPS Person Name Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

COMMUNITY ORIENTED POLICING SYSTEM
Alpha Scuti Police Department

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Person Physical Details (String of Armed Robberies)

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Help

General Info

Person Build	Handedness		
Small (thin) [v]	Right [v]		
Body Mark	Body Location		
Tattoo [v]	Back [v]		
Complexion	Teeth Type		
Clear [v]	[v]		
Skin Tone	Eye Color		
Light [v]	Brown [v]		
Hair Facial	Hair Color		
Unshaven Stubble [v]	Brown [v]		
Hair Type	Hair Length		
Wavy [v]	Shorter than Collar Length [v]		
Hair Appearance	Hair Style		
Messy	Scissor Cut no Trim		
Height	Unit	Weight	Unit
1.58	Foot [v]	158	Pound [v]

Additional Info

Clear Save Delete

Name Life Style IDs Residence Address

Social Physical Employment Photos Contact Info

Figure 1: POPS Person Physical Details Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

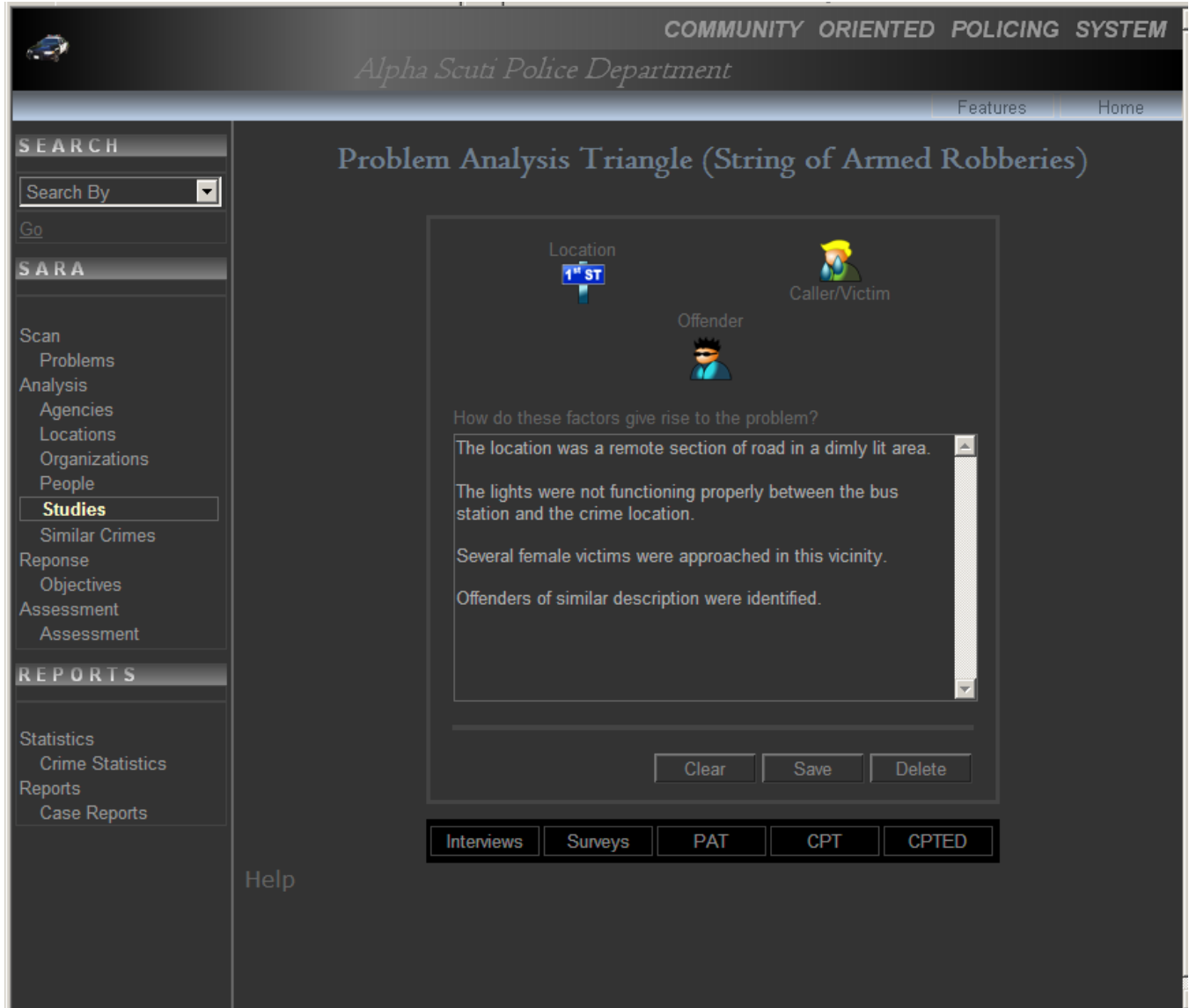


Figure 1: POPS Problem Analysis Triangle Page

Problem Analysis Triangle contains three elements of crime: victims, offenders, and locations. Each of the three elements is used to generate analysis questions such: who, what, where, why, when, and how, that helps finding details about the problem.

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Crime Prevention Triangle (String of Armed Robberies)

Desire
Easy money

Ability
Potential to overpower weaker, female victims.
Women are usually targeted for purse snatchings (offender grabs the purse from the victim's arm and forcibly takes it).

Opportunity
Weaker victims in remote, secluded, poorly lit area

Explain if any from the above three could be removed
Could remove opportunity by improving lighting.

Clear Save Delete

Interviews Surveys PAT CPT CPTED

Figure 1: POPS Crime Prevention Triangle Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

The screenshot displays the 'COMMUNITY ORIENTED POLICING SYSTEM' interface for the 'Alpha Scuti Police Department'. The main title is 'Crime Prevention Through Environmental Design (String of Armed Robberies)'. The interface is divided into a left sidebar and a main content area. The sidebar contains sections for 'SEARCH', 'SARA', and 'REPORTS'. The 'SARA' section is expanded, showing options like 'Scan', 'Problems', 'Analysis', 'Agencies', 'Locations', 'Organizations', 'People', 'Studies', 'Similar Crimes', 'Reponse', 'Objectives', 'Assessment', and 'Assessment'. The 'REPORTS' section includes 'Statistics', 'Crime Statistics', 'Reports', and 'Case Reports'. The main content area features a search bar with a 'Search By' dropdown and a 'Go' button. Below this, there are four sections with dropdown menus: 'Natural Surveillance' (selected: 'No visibility from surrounding buildings'), 'Natural Access Control' (selected: 'Hedge adjacent to road is too tall allowing convenient concealment for the offenders.'), 'Territorial Reinforcement' (selected: 'Large holes in chain-link fence near hedge.'), and 'Maintenance' (selected: 'Inadequate lighting'). At the bottom of the main content area, there are 'Clear', 'Save', and 'Delete' buttons. A row of buttons at the very bottom includes 'Interviews', 'Surveys', 'PAT', 'CPT', and 'CPTED'. A 'Help' link is located at the bottom left of the main content area.

Figure 1: POPS Crime Prevention Through Environmental Design Page

Crime Prevention Through Environmental Design (CPTED) module help you understand the relationship between crime and environmental opportunities that offer opportunity for committing criminal activities.

In the Response module we have implemented different strategies that help to reduce or eliminate crime opportunities by changing the physical environment of problem locations.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Response

- The modules in the Response phase will help you to develop solutions to eliminate, reduce or better address the problem.

Note: Only the screens that are relevant to understand the Response phase are included.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

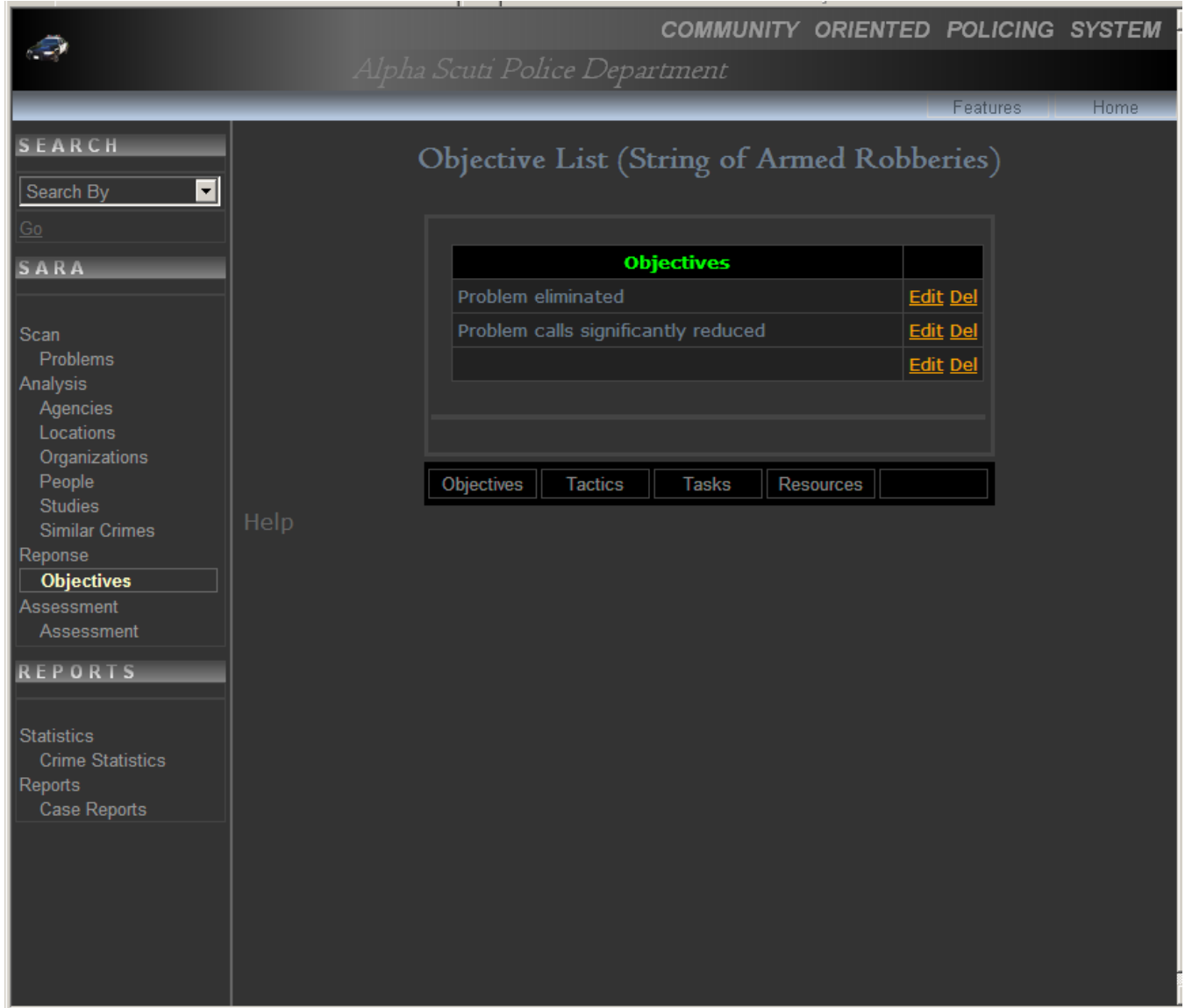


Figure 1: POPS Objective List Page

Long-term objective list.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

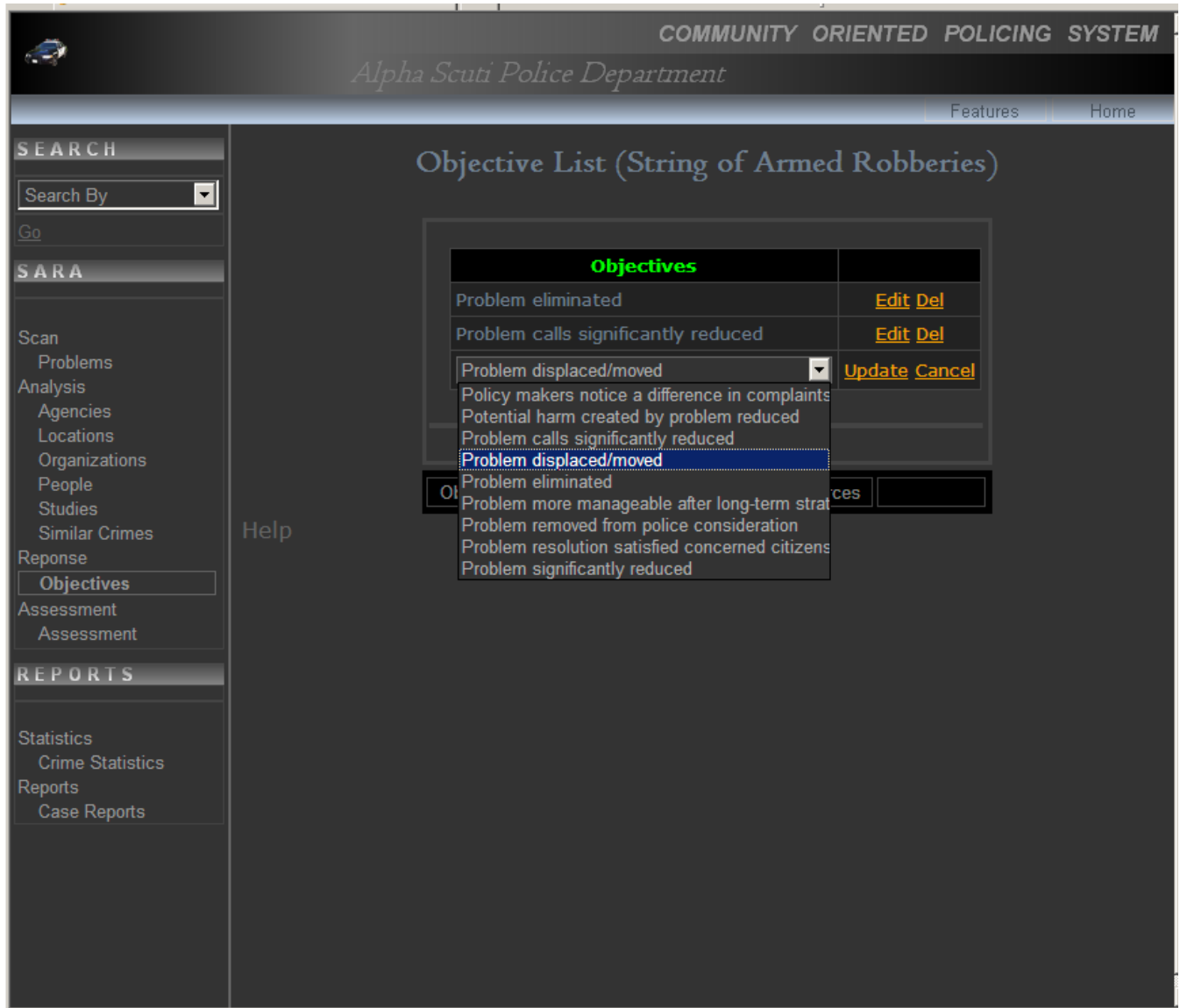


Figure 1: POPS Objective List Page

The user can easily add/remove the long-term objectives from a predefined list.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

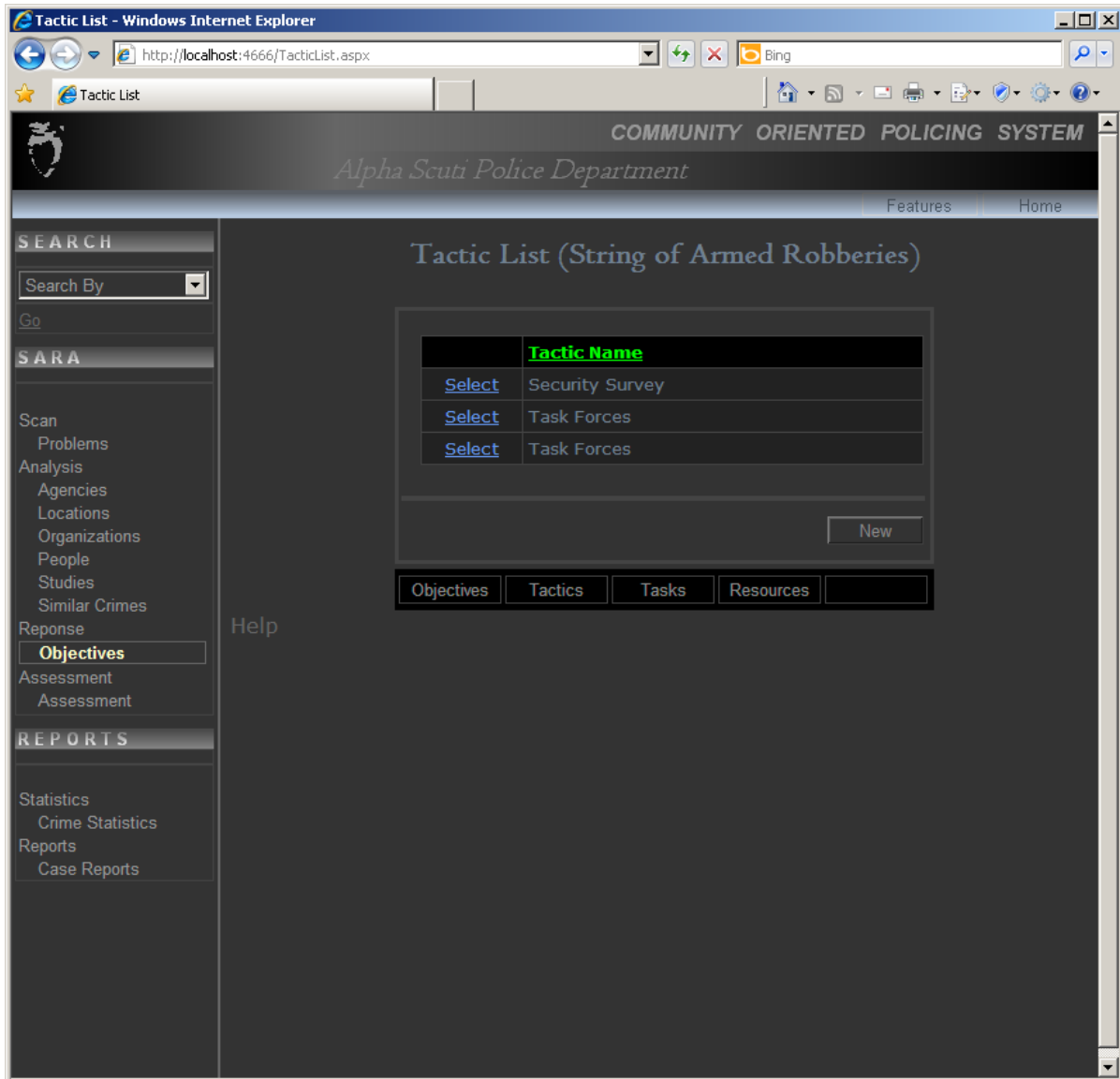


Figure 1: POPS Tactic List Page

The system has a list of tactics associated with the current problem. The user can add as many tactics as needed in order to address the problem.

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Tactic Info (String of Armed Robberies)

Tactic
Security Survey [v]

Description
Install four surveillance cameras at bus stop and at end of street in the places where these crimes occur most often. [v]

Evaluation Criteria
Location for cameras, visibility restrictions, power source [v]

The Major Crime Unit is employing specialist video evidencing experts to produce independent high quality [v]

Start Date - Time
8/5/2009 08:00:00 AM

End Date - Time
8/7/2009 04:00:00 PM

Objectives
 Problem eliminated [v]
 Problem calls significantly reduced [v]

New Save Delete

Objectives Tactics Tasks Resources

Figure 1: POPS Tactic Page

Each of the objectives that is associated with the current problem can be selectable for a particular tactic. By associating an objective to a tactic, the user is implying that this tactic is undertaken as a measure to help satisfy the specified long-term objective. Any number of long-term objectives can be selected for the current tactic.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

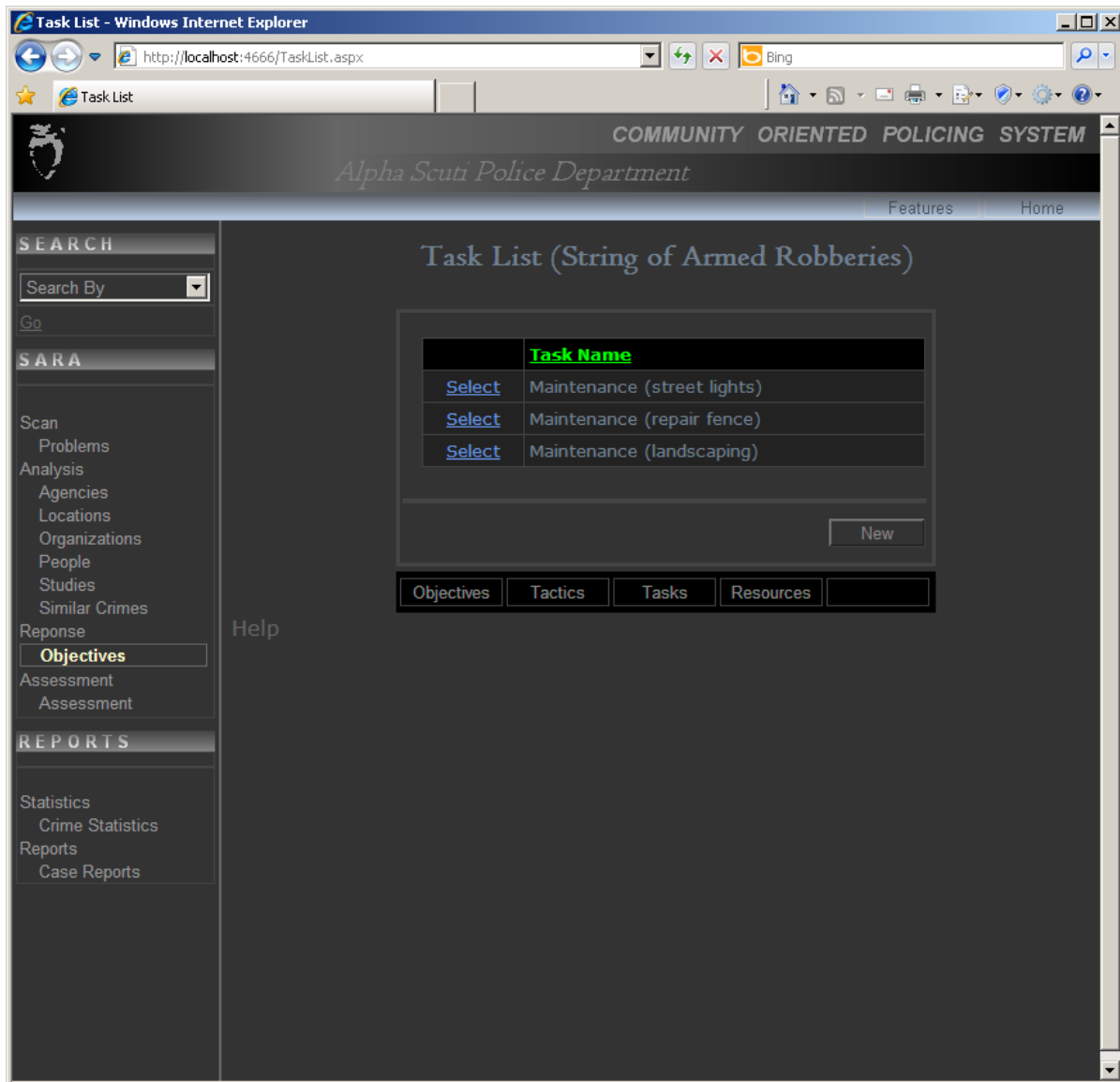


Figure 1: POPS Task List Page

The system has a list of tasks associated with the current problem. The user can add as many tasks as needed in order to address the problem.

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Task Info (String of Armed Robberies)

Name
Maintenance (street lights)

Description
Fix lighting in the area.

Notes
Contact Duke Power management to schedule service.

Start Date - Time
8/5/2009 02:00:00 PM

End Date - Time
8/5/2009 04:00:00 PM

New Save Delete

Objectives Tactics Tasks Resources

Figure 1: POPS Task Page

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Help

Resources (String of Armed Robberies)

Police Officers	<input type="text" value="2"/>	Officers Hours	<input type="text" value="16"/>
Community People	<input type="text" value="3"/>	Community Hours	<input type="text" value="3"/>
Local Authorities	<input type="text" value="1"/>	Authorities Hours	<input type="text" value="5"/>
Other Resources	<input type="text"/>	Resources Hours	<input type="text"/>

Police Officers Cost Description
\$480.00

Community Cost Description
\$0.00

Local Authority Cost Description
\$0.00

Other Resources Cost Description
\$0.00

Clear Save Delete

Objectives Tactics Tasks Resources

Figure 1: POPS Resources Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Assessment

- The Assessment phase is for evaluating the response success and effectiveness.

Note: Only the screens that are relevant to understand the Assessment phase are included.

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Assessment (String of Armed Robberies)

What was actually done to address the problem?
Cameras were installed. Hedge was trimmed. Lights were installed. Fence was repaired. Undercover officer recognized offenders, based on descriptions, and arrested.

Was the problem resolved?
Yes

Has assessment reached the desired objective?
Yes

Who resolved the problem (police, others)?
Police

No

Clear Save Delete

Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

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Assessment (String of Armed Robberies)

What was actually done to address the problem?

Cameras were installed. Hedge was trimmed. Lights were installed. Fence was repaired. Undercover officer recognized offenders, based on descriptions, and arrested.

Was the problem resolved?

Yes
No

Is the means to resolve the problem out of the control of Police department? Yes No

Does the problem need to be reanalyzed?

Does the problem need to be restated?

Why can the police department not resolve the problem?

Clear Save Delete

Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Statistics

- Statistics information are real-time data based on crime type, location, dates, and other variables.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

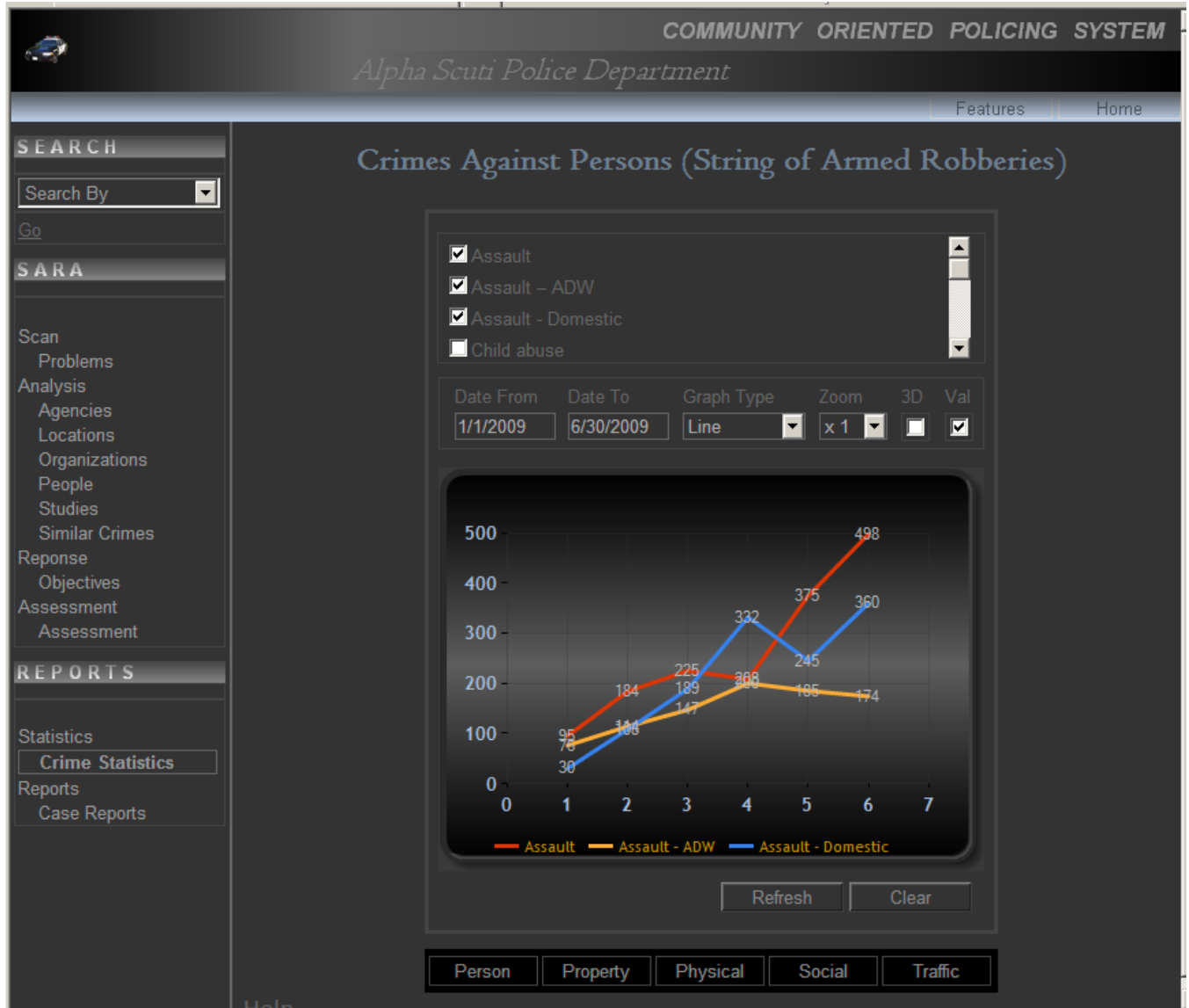


Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

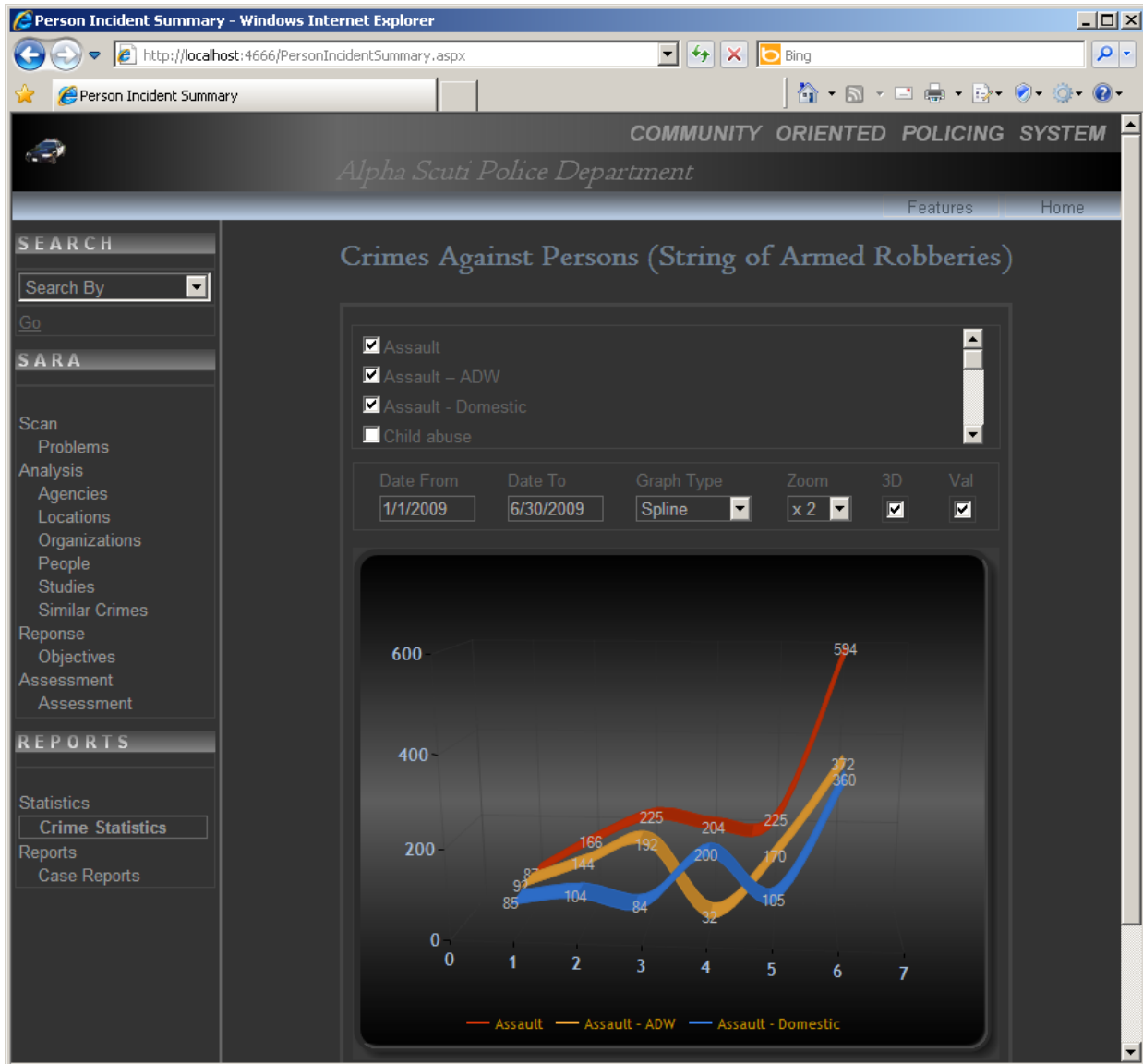


Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Reports

- The Problem Summary report contains a detail view of the entire problem as recorded within POPS system.

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Case Detail.rdl

Case Name: String of Armed Robberies View Report

1 of 5 100% Find | Next

Alpha Scuti Police Department

Community Oriented Problem Solving Report

Page 1 of 5 5/24/2010 11:49:10 PM

CASE INFORMATION

Case Name: String of Armed Robberies **Start Date:** 01-01-2009
Case Number: 08032009-1001-ROB **End Date:** 15-05-2010

Case Description

On July 31, 2009, Charlotte City Council issued a letter to Charlotte Police Chief Mr. D. S. explaining his concern related to high volume of robberies recorded in Charlotte, particularly on South East Bulevard.

Why was this problem selected?

As Police Chief for Charlotte, I regularly review crime reports and statistics. 911 calls and recent analysis of crime figures shows an increase in the level of reported robberies with the majority committed in city and town centers of the South East Bulevard area.

Rank	Problem Initiator	Crime Type
1	911 Call	Assault
1	Request letter	Child abuse
1	Crime reports and statistics	Elder abuse

Problem Recurrence

These events are opportunistics and occur predominantly earlier in the morning or late in the evening.

Objective(s)

Problem eliminated
Problem calls significantly reduced

www.ionnina.com

Figure 1: POPS Report Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

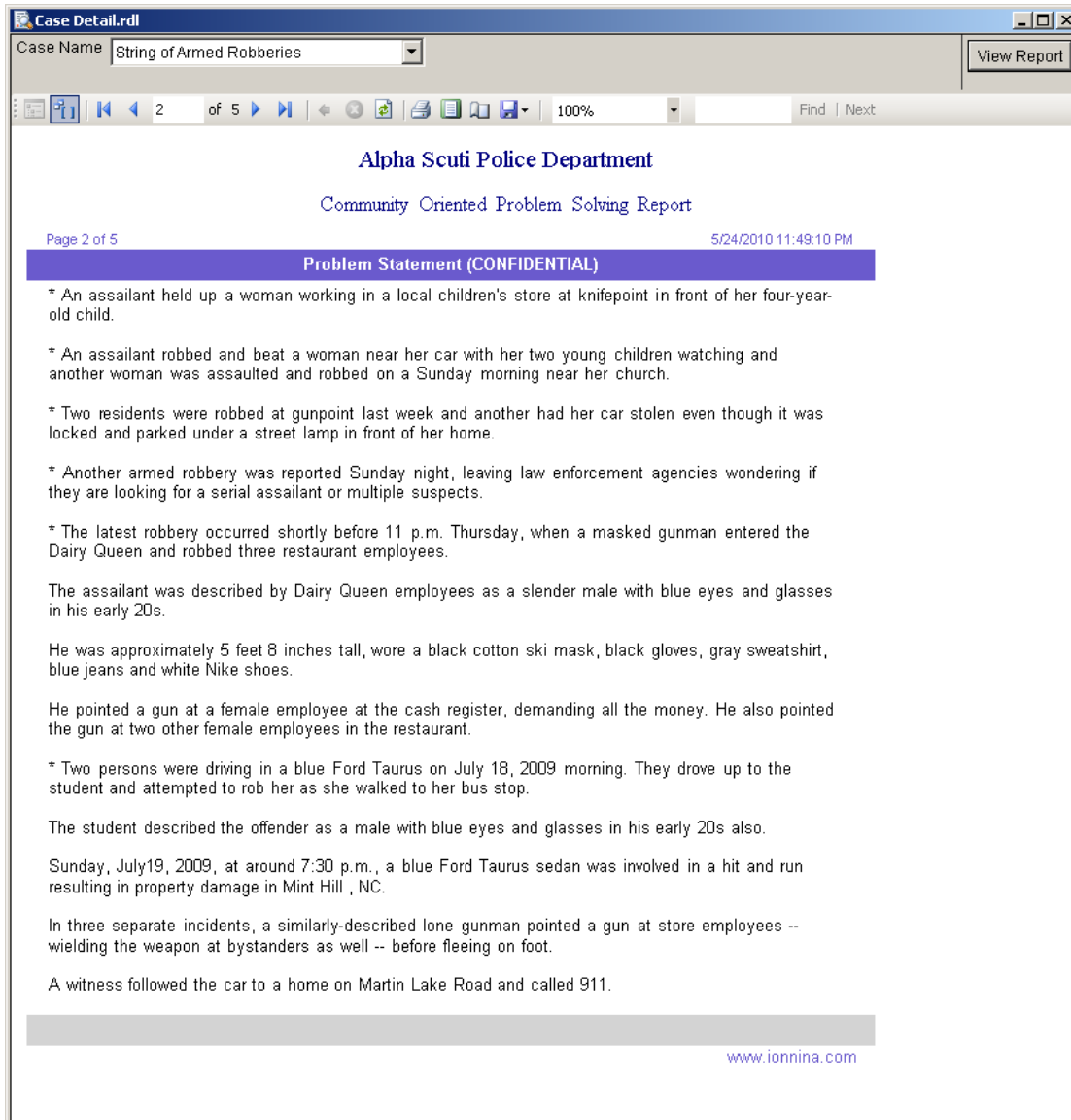


Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

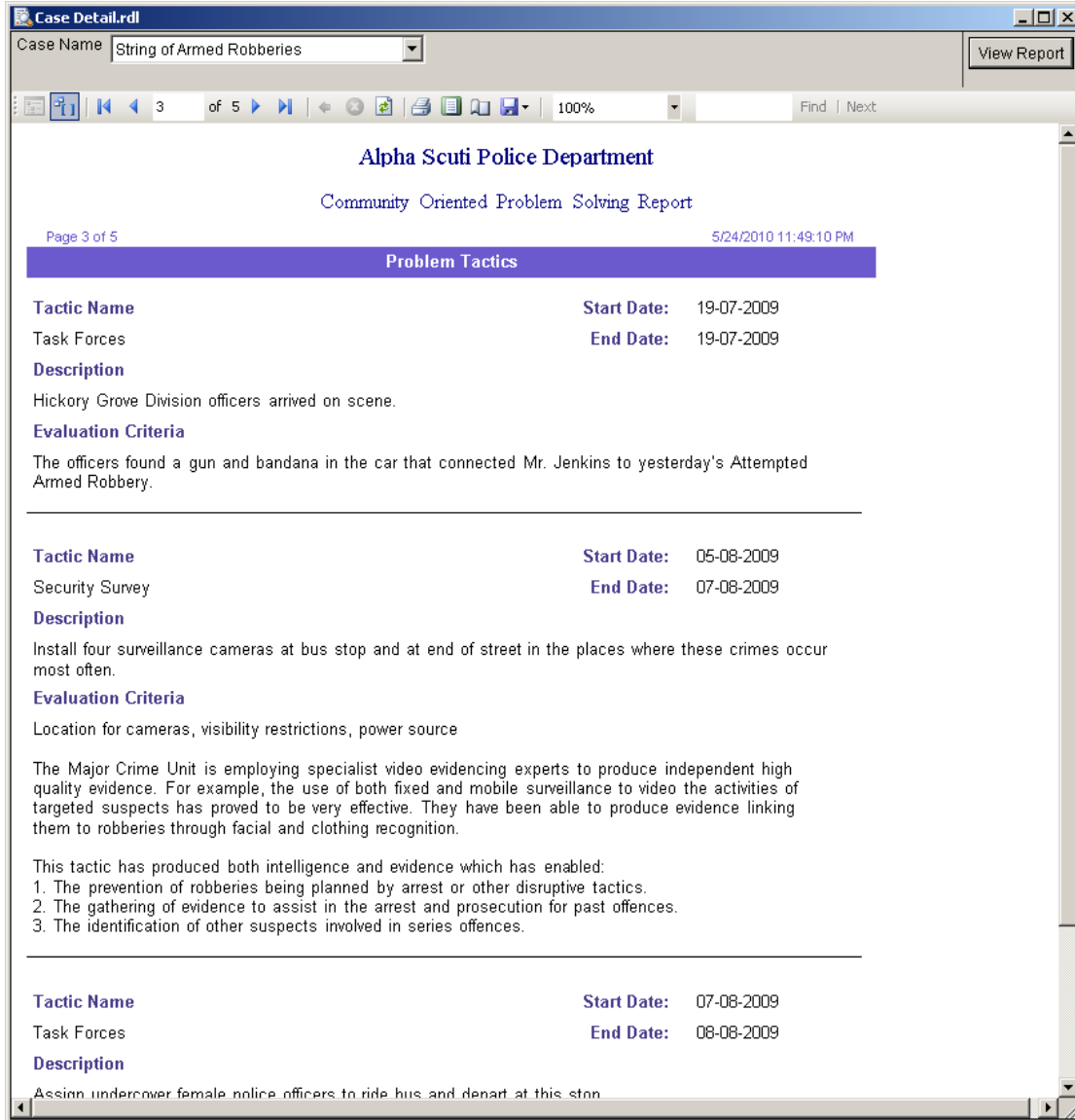


Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Case Detail.rdl

Case Name String of Armed Robberies View Report

4 of 5 100% Find | Next

Alpha Scuti Police Department
Community Oriented Problem Solving Report

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Problem Tasks

Task Name	Start Date: 05-08-2009
Maintenance (street lights)	End Date: 05-08-2009
Description	
Fix lighting in the area.	
Notes	
Contact Duke Power management to schedule service.	
<hr/>	
Task Name	Start Date: 05-08-2009
Maintenance (repair fence)	End Date: 05-08-2009
Description	
Fix holes in chain-link fence, as required.	
Notes	
Contact fencing company to repair.	
<hr/>	
Task Name	Start Date: 05-08-2009
Maintenance (landscaping)	End Date: 05-08-2009
Description	
Trim hedge to 4' height.	
Notes	
Met with Grounds maintenance supervisor to identify requirements and schedule work.	

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PROBLEM ORIENTED POLICING SYSTEM (POPS)

Case Detail.rdl

Case Name String of Armed Robberies View Report

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Assesment			
Is Objective Reached?	Yes	Does It Need To Be Restarted?	No
Is Under Police Control?	No	Does It Need To Be Reanalyzed?	No

Problem Resolved By
Police

What Work Was Done?
Cameras were installed. Hedge was trimmed. Lights were installed. Fence was repaired. Undercover officer recognized offenders, based on descriptions, and arrested.

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Figure 1: POPS Assessment Page

PROBLEM ORIENTED POLICING SYSTEM (POPS)

Description:

We here at Ionnina have developed an automated a system using Herman Goldstein's SARA model that follow it accurately and easily for the user. We understand that many people are still naive and resistant to change but hopefully by using and understanding our software many will begin to embrace the change. We started by trying to win the award but realized a way to help out many more communities and spread our software to a wide range of people. Given your approval we would like to launch our software as a reward for the winners of the Goldstein Award. *We would be glad to award the winner of the award our software at a 100% discount. Second and third place will receive our software at a 75% and 50% discount.* We strongly feel that in the end this will not only help out the communities but that this is a great way to reward our local agencies that are striving to be on the cutting edge of technology.

Our system will not only automate and guide the user through the SARA model but will also greatly reduce the time spent on paperwork and maximize time spent in the field. With our system the time that is required to be spent on paperwork now will ensure maximum efficiency and give the end user a better understanding of not only the problem, but the factors that allowed that problem to take place in the first place and the necessary means to prevent them.

Thank you once again for giving us the opportunity to give back to the community. We are very anxious to see you all in Arlington, Texas and look forward to doing and learning more through each other.

Ion Sirbu
Chief Officer
Ionnina, LLC.