Xalted

ENGINEERING A SAFER WORLD

INTELLIGENT-DRIVEN SECURITY ANALYTICS

InteliCENTER

Engineering
A Safer World

Almost all the problems faced by the Law Enforcement personnel today have a distinguished feature. They demand these personnel to be transformed into knowledge-based professionals. The rise of technology has not only strengthened the arms of the LEAs but also the enemies of the states. Modern warfare against the crime and terrorism is being fought on a technologically elevated platform altogether.

Terror strikes and serious crime needs planning and coordination before execution; in order to prevent them Law Enforcement and Intelligence Agencies need to actively monitor communication, transactions and events across domains, draw intelligence from them and act in time. Monitoring and surveillance would be the first step but digging out the relevant information out of this vast pool of diverse data would be the real challenge.

Oceans of data are being created every second - Structured Data and Unstructured Text - Facebook, Twitter, Whatsapp, Skype, Documents, Email, Chat, Intercepted Web pages. It's increasing day by day.

Today's Security Analyst has access to terabytes, even petabytes of real-time disparate data, but they don't know what to do with it. It would take a security analyst weeks, even months to go through the oceans of data from cell phones, towers, social networks, banking systems, travel databases, interception systems, government databases and all other vast data sources that are available. And that's just a fragment of the problem. To create actionable intelligence, it is critical for today's security analyst to be able to correlate, profile and find patterns and linkage information, identify targets and analyze from the vast array of historical and real-time data available.

So, how do you find the needle in a haystack? We designed InteliCENTER to do just that.

Xalted offers InteliCENTER, which is especially designed for Law Enforcement & Intelligence Agencies to transform them into knowledge-based professionals as demanded by unique challenges confronting them.

Changing The Paradigm From React To Predict

InteliCENTER – Intelligence-driven Security Analytics

InteliCENTER takes in all the complex data in real-time, filters, curates and enriches it. Once the data is organized and a knowledge database is created, it becomes instantly usable for information discovery and for further correlating and profiling targets. We are literally transforming loose bits of data into actionable intelligence!

The challenge is analyzing all of these disparate data sets and finding the right information to make informed decisions. InteliCENTER allows analysts to identify entities and suspicious events that are generally overlooked and establishes relationships amongst them. It also helps uncover hidden behaviour of patterns.

Years of research, has helped us build domain-driven patterns using historical and real-time data into our platform. We help Intelligence Officers to not only track location movements of suspects/targets, but also provide information of other entities that might be present at the desired location and desired time… helping analysis narrowing and spotting of suspect or suspects and their associated groups, if any.

The problem doesn't stop at converting loads of data into actionable intelligence! It's also about getting the data and analytics across to all the people who need it. Because recreating information is time consuming, it's essential for agencies to be able to share their information in real-time.

With the power of InteliCENTER, Security Agencies can now collaborate, share data, analyze, and work together, while maintaining user privacy to fight crime and terrorism.

InteliCENTER's data visualization, presentation and reporting tools exploit the output of analytics to help analysts visualize, explore and make sense of volumes of data. What's more, advanced reporting allows analysts to extract historical data for pattern mining for further prediction and prevention of crime and terrorist attacks.

Its unique threat prediction and prevention technology platform is designed with best-of-breed open architecture, anti-threat solution components that are scalable, flexible and can be deployed globally.

What are the problems you think about when you do your work?

- ◆ **Human Trafficking**
- ◆ **Extortion**
- ◆ **Theft**
- ◆ **Kidnapping**
- ◆ **Drug Trafficking**
- ◆ **Manifestations**
- ◆ **Homicide Crimes**
- ◆ **Counter Terrorism**
- ◆ **Counter Narcotics**

These are the serious problems of society that we help Law Enforcement and Security Agencies combat!

Oceans of Disparate Data

Oceans of structured and unstructured data are being created every second today by modern systems posing unique challenges against security analytics. These dynamic or static data pools may be in the form of Facebook Posts, Tweets, WhatsApp Instant Messages, CDRs, E-Mails, Documents, Bank Transactions, Travel Records, and Government Surveillance Feeds, etc.

Analysts have access to terabytes, even petabytes of real-time disparate data and it would take them weeks or even months to go through the oceans of data from cell phones, towers, social networks, banking systems, travel databases, interception systems, government databases such as Immigration, Tax, Identity and Vehicle registration. Etc. and all other vast data sources that are available.

InteliCENTER has the ability to take all these structured and unstructured data types.

Knowledge Search & Discovery

Finding relevant information out of oceans of disparate data is just a fragment of the problem. After digging out information from multiple data sources, Security Analysts should be able to discover knowledge across the domains for further analysis. InteliCENTER supports pluggable Ontologies for extracting meaningful knowledge from the unstructured Internet data corpus. For this purpose InteliCENTER Knowledge-base allows them to discover suspicious entities, events efficiently and unveil the hidden patterns or relationships among them.

The discovery engine of InteliCENTER provides analysts with a single interface to Knowledge-base for handling of knowledge discovery from multiple domains and varying data types. The power of Knowledge-base search is to be able to allow an analyst to define any Query, standard or customized and search among vast sources of structured and unstructured data, in motion or at rest, linkages and patterns resulting into information that helps an Analyst with Intelligent insights to make informed decisions.

Social Network Analytics

With new communication mediums growing exponentially, the perpetrators are using modern warfare against crime and terrorism. Use of Social Media in planning and communicating some of the high-ended criminal group activities is on a rise.

InteliCENTER can take intercepted social network and communications records of tweets, facebook posts, skype calls, chat data, email, cell phone record to find out, who the perpetrators are communicating with, how frequently they communicate, what's their sentiment and what are they planning. It is important for an analyst today to identify new patterns of the perpetrators by analyzing their Social Networks.

Social Network Analytics embedded in InteliCENTER does the micro segmenting of the suspects, unveil their hidden linkages and build networks and sub-networks of suspects based on their social media communications patterns. It enables analyst to find common contacts/associates between directly linked and indirectly linked suspects and also allows them to explore common suspects associated with multiple operations. To perform this analysis, InteliCENTER also employs behavioral modeling and sentimental analysis of the suspects.
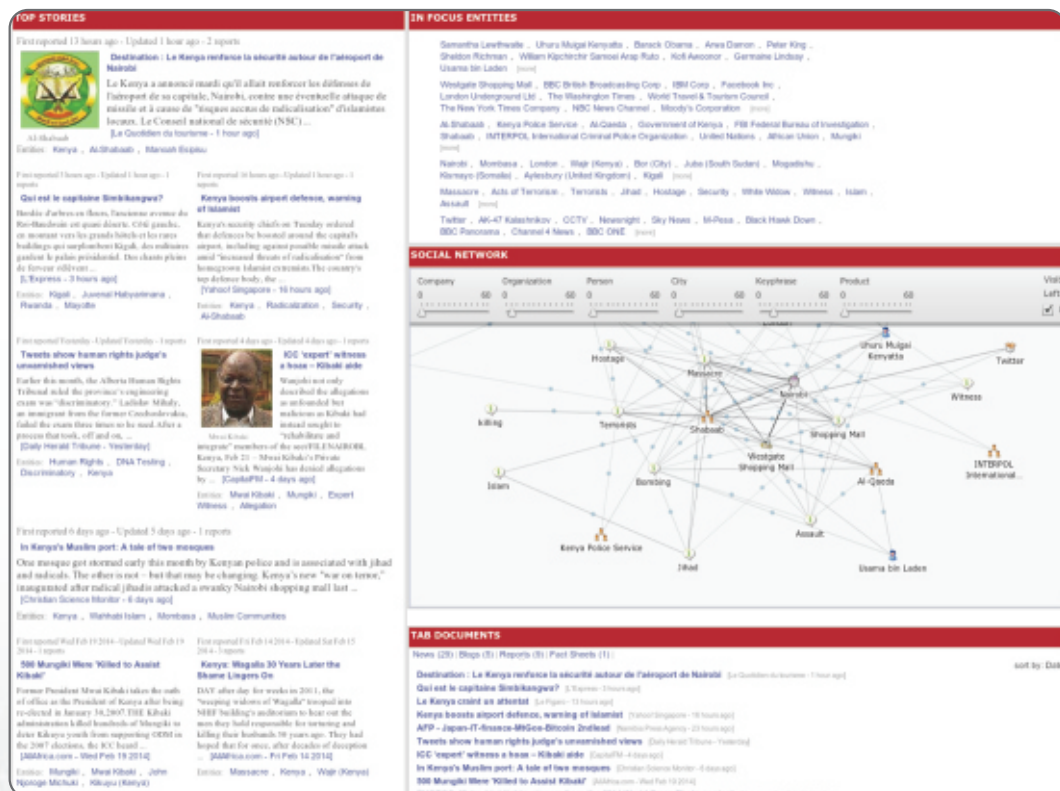
Security Analytics

Several governments and security agencies focus on monitoring, surveillance and collecting huge amount of data from all possible sources. But gathering all these data is of no use and would prove to be just a noise unless it is analyzed properly for insights resulting into Actionable Intelligence.

InteliCENTER helps analysts and officials recognize crime trends and patterns, so they can anticipate and prevent criminal events and improve outcomes. Not only can analysts proactively streamline the criminal data, but they can also identify risks that could help in taking timely corrective action.

Law Enforcement and Intelligence Agencies should be able to profile suspicious targets and establish relationships amongst events and entities, using InteliCENTER. This is achieved by looking for domain-specific patterns while correlating entities with suspicious events. InteliCENTER's multi-domain analytics includes a variety of analytics such as Entity and Relationship Analytics, Profiling Analytics, Location-based Analytics, Geospatial Analytics, Visual Analytics and Content Analytics.

Directly Involved

Indirectly Involved
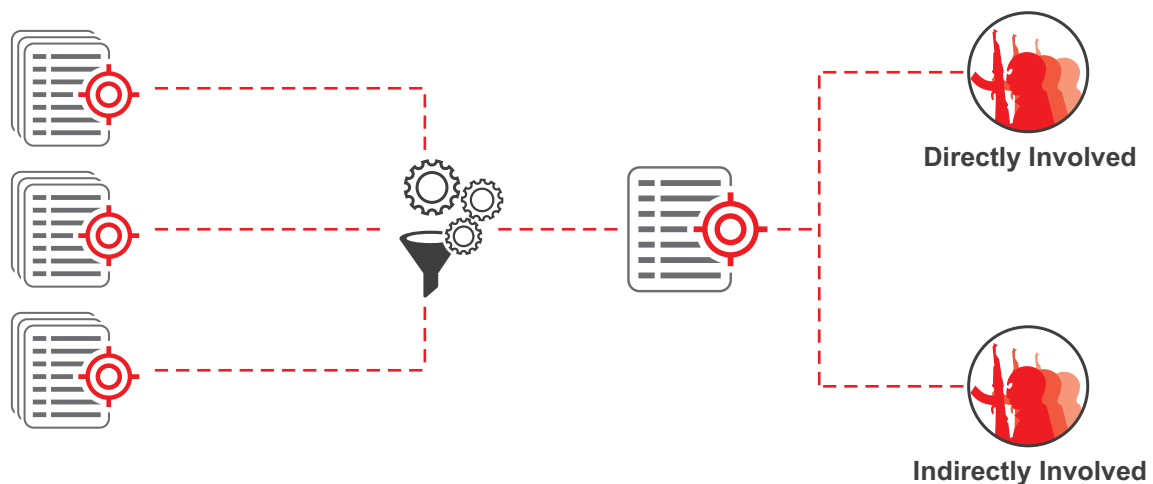
Case Management

InteliCENTER Case Management provides powerful tools to transform the work of law enforcement agencies, inspectors general, and intelligence organizations responsible for protecting public safety. Agencies benefit from the ability to integrate case information across multiple data sources, automate case tasks and workflow, and perform real-time case analysis. Investigators benefit from increased productivity, better collaboration, and real-time analytics.

InteliCENTER Case Management enables investigative agencies to analyze large amounts of data from investigations in real time in order to spot trends and patterns. Leveraging the powerful capabilities of InteliCENTER Security Analytics, It's Case Management enables investigators to analyze data residing in both internal and external systems to gain real-time insight into critical issues. InteliCENTER Case Management simplifies case reporting by providing analytical dashboards to track incident volumes and outstanding leads. Investigators, managers and agency administrators can view dashboards that summarize case activity relevant for their position in the organization and filtered for their security profile.

With InteliCENTER Case Management, investigators and managers can obtain a "360 degree" view of cases. Evidence collected during the course of an investigation can be identified, catalogued, and associated with several investigations.

Visual Analytics

InteliCENTER can generate report in all popular formats such as MS Word, PDF, MS Excel, .CSV, etc. The user can customize the report content and generate current or periodic report with desired sortable fields from the output screen with desired headers. These reports can be made for user-defined parameters at a user-defined periodicity for any desired period.

Several interactive visual tools like visual controls like Event Slider, Link Analysis, Radar Chart and Data Table are available within InteliCENTER. The output can be visualized through various charts such as Bar Chart, Pie Chart, Line Diagram, Area Chart, Column Chart, etc. InteliCENTER can also integrate with GIS systems like Google Maps and facilitate for custom geocoding.
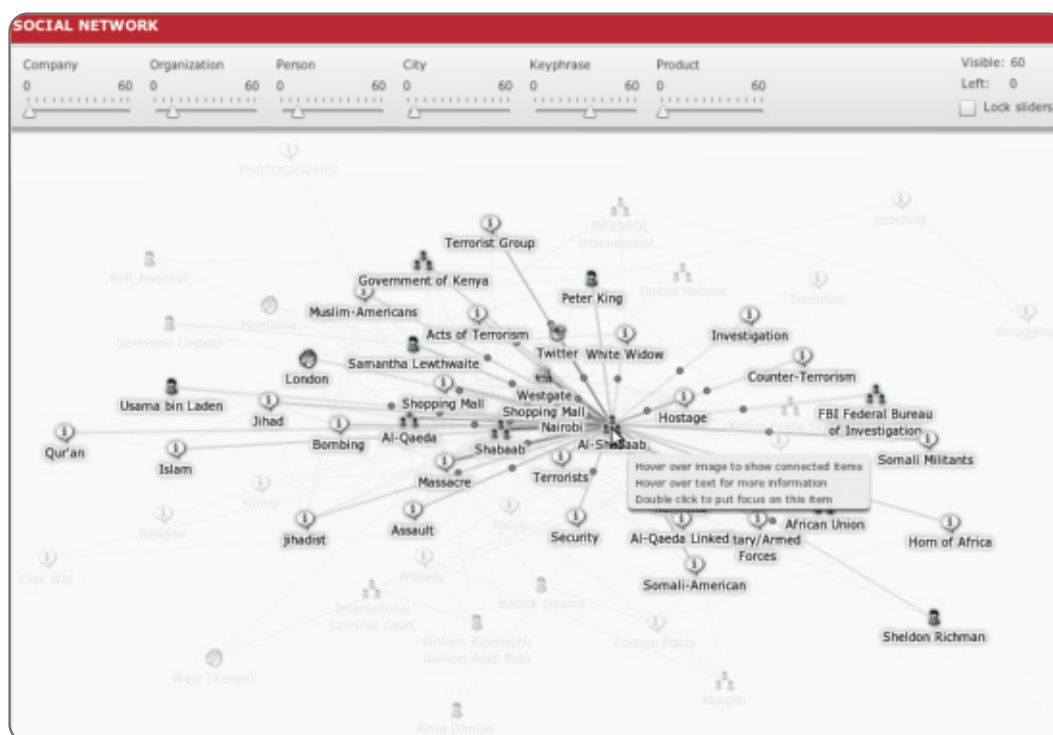
Collaboration

The problem doesn't stop at converting loads of data into Actionable Intelligence! It's also about getting the data and analytics across to all the people who need it. Because recreating information is time consuming, it's essential for agencies to be able to share their information in real-time.

With the power of InteliCENTER "User Management", agencies can now collaborate, share data, analyze, and work together, while maintaining uses privacy, to fight crime and terrorism.

Open-source Intelligence (OSINT)

InteliCENTER truly supports Open-source Intelligence (OSINT) capabilities by collecting, extracting, disseminating, co-relating the data from publicly available sources like media houses, web communities, social-networking sites, wikis, blogs, folksonomies, public data like Govt. reports, speeches, warnings, judicial reports etc.

Using these OSInt capabilities, InteliCENTER helps in providing Actionable Intelligence in a timely manner to security agencies for the purpose of addressing intelligence requirement on criminal/terror activities.

Actionable Intelligence

The whole point of monitoring, doing surveillance, gathering and analyzing vast data is to produce intelligence, which enables the security analysts to make decisions with its help. We call these acquired in real-time, Actionable Intelligence, which empowers Law Enforcement and Intelligence Personnel to make informed decisions.

Though, it is all about automating the attack detection, analysis and action response process well beyond the status quo. Actionable intelligence converts data into contextual information, enabling real-time human interaction with data, graphic and visual representations. Then, as additional human understanding and judgment is further encoded into algorithms, actionable security intelligence can be converted into machine-driven action – freeing the analyst to move onto the next anomalous finding – faster and with more confidence that the risk gap is being reduced effectively.

With InteliCENTER, analyst can automate pattern analysis using historical and real-time data for finding anomalies' leading to automated actionable security intelligence – helping reduce time to detect, understand and respond by security personnel.

With InteliCENTER, we empower Law Enforcement and Intelligence Agencies with the paradigm shift from React to Predict.

From React to Predict
Using InteliCENTER, effectively prevented a Terrorist Attack

Case Scenario

A major International Sports event was scheduled to be held in an Indian megacity. A major LEA using InteliCENTER was monitoring several suspects prior to the event to ensure security for the event. InteliCENTER, with its Keyword Search & Analysis capability intercepted an email with certain alarm raising keywords intended to a high-profile suspect.

Rising Challenges

The case was complex and LEA had several challenges in front of them. The agency had to first ensure that some destructive plan was indeed being hatched. They also had to gather as much information about the perpetrators, their network, communication details, resources, etc. before interrogating the suspect. This was necessary, as without enough information and evidence, the LEA might have scared off and lost the suspect with his network at the first stage itself.

The Compelling Solution - InteliCENTER

Using InteliCENTER, the LEA analyst first created a case with all the collected metadata related to the case such as MSISDN, bank account data, government issued identity cards etc. Through the bank and communication service provider the LEA received details about suspect's bank transactions and communications and imported them into InteliCENTER system. Then by exploring links through the system, the analyst did a social network analysis of the suspect which revealed two numbers, which whom he regularly interacted with. One of the two was already a suspect in LEA's records. The LEA also found large scale fund transfer from the high profile suspect's account right after the intercepted email was sent.

InteliCENTER Pattern Discovery revealed that this transfer was matched with second suspect's bank receipt transaction. Days later, analysis of second suspect disclosed that same amount of cash was withdrawn from his account. InteliCENTER revealed that another email was intercepted intended to the suspect which said "bade din ke dhamake ka intazam ho raha hai", which literally means "the arrangement is being made for the big day explosion". Now the LEA had enough information and evidence to apprehend the suspects. They grabbed the suspects and their network and questioned them. It was found that they were planning to make explosions in the sports stadium during the International sports event, which was eventually prevented.

Why Xalted

With InteliCENTER, we are helping Law Enforcement, Government and Security Agencies with Predictive and Intelligence-driven Security Analytics that makes their job totally seamless.

Research-Driven, Technology Orien

We are highly research driven organization leading to innovative solutions. This provides a strong platform to produce cross-domain solutions on leading technologies. Its' unique threat prediction and prevention technology platform is designed with best-of-breed open architecture, anti-threat solution components that are scalable and flexible. .

Rich Domain Expertise with Proven Track Record

Built on years of domain specific research, it comes with a proven track record across global deployments, including some highly volatile crime stricken nations. For National Security, we have successfully deployed several projects for regional and central Anti-Terrorist Squads and Special Task Forces across India and emerging markets.

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Strong Customer Relationships

Xalted believes in strong and successful customer relationships, which is very much evident by the repeat orders for several years. We build trusted partnership with our customers that help them change the paradigm from react to predict.

Global Social Responsibility

From cities to countries, from entities to events, from citizens to communities, every moment of every day, we're committed to making a future that's peaceful and secure.

We are "Engineering a Safer World"