



ROLTA

INSIGHTS. INNOVATION. IMPACT

MARITIME AND HOMELAND SAFETY & SECURITY SOLUTIONS

SECURITY IS ABOUT SAFEGUARDING YOUR PEACE OF MIND



HOMELAND AND MARITIME SAFETY & SECURITY SOLUTIONS

Rolta's safety & security solutions support decision-makers who are responsible for human safety, emergency management and security.

The solutions are designed for continuous operation.

Greater insights are possible, in managing safety and security, by enhanced situational awareness.

An integrated 'common operating picture' provides this awareness.

Rolta's safety and security solutions for command & control centers are deployed to safeguard people, property and assets.

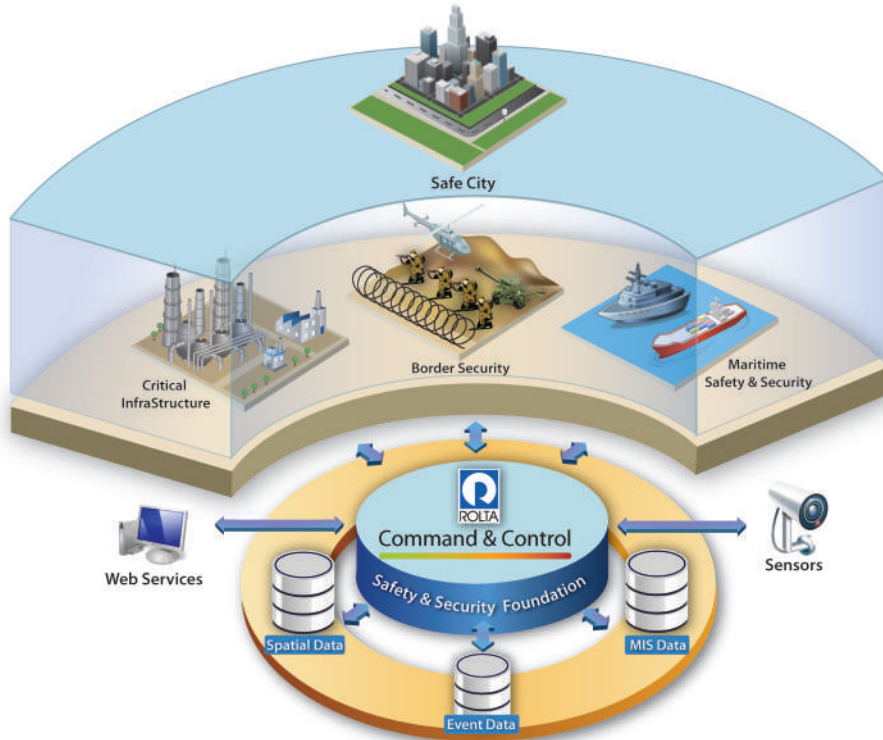
Advancements in Information and Communication Technology (ICT), Geographical Information Systems (GIS) and the integration of multiple sensors with data fusion has enabled continuous and improved situational awareness as compared to earlier systems.

These state-of-the-art solutions act as a force multiplier by enabling informed decisions and initiating real time response.

The Command Center personnel and emergency management teams will have:

- An intuitive 'common operation picture'
- Rule-based, collaborative situational analysis
- Access to real-time, focussed and relevant information
- Context-specific information display
- Access to user-specific and agency-specific data
- Event generation and tracking
- Capabilities of incident analysis and mapping
- Intelligent tasking, based on SOPs (Standard Operating Procedures)
- Analysis and response, based on threat condition

SOLUTIONS PORTFOLIO



Maritime Safety & Security

Rolta's solution for maritime safety & security leverages the integrated capabilities of the Rolta Command & Control Suite. The solution provides advanced capabilities in:

- Coastal security
- Coastal surveillance
- Vessel tracking
- Port security
- On-shore and off-shore asset protection
- and other similar areas

The solution supports integration with multiple sensors and components including Radar, Sonar, Automatic Identification System (AIS), Video Management Systems (VMS), External Databases and many other types of sensors and systems.



Critical Infrastructure Protection

Rolta's solution for critical infrastructure protection supports collection, fusion and analysis of data from a variety of security sensors. This allows for a 'common operating picture' in a geospatial context. The solution, thus, caters to emergency response (including disaster management), asset protection and integrated access control.

Border Security

Rolta's solution for border security supports the monitoring of large tracts of border areas. It integrates a wide range of smart fences with sensors such as:

- Fence vibration and penetration sensors
- Unattended Ground Sensors (UGS)
- Radar
- Video
- Long-range thermal cameras

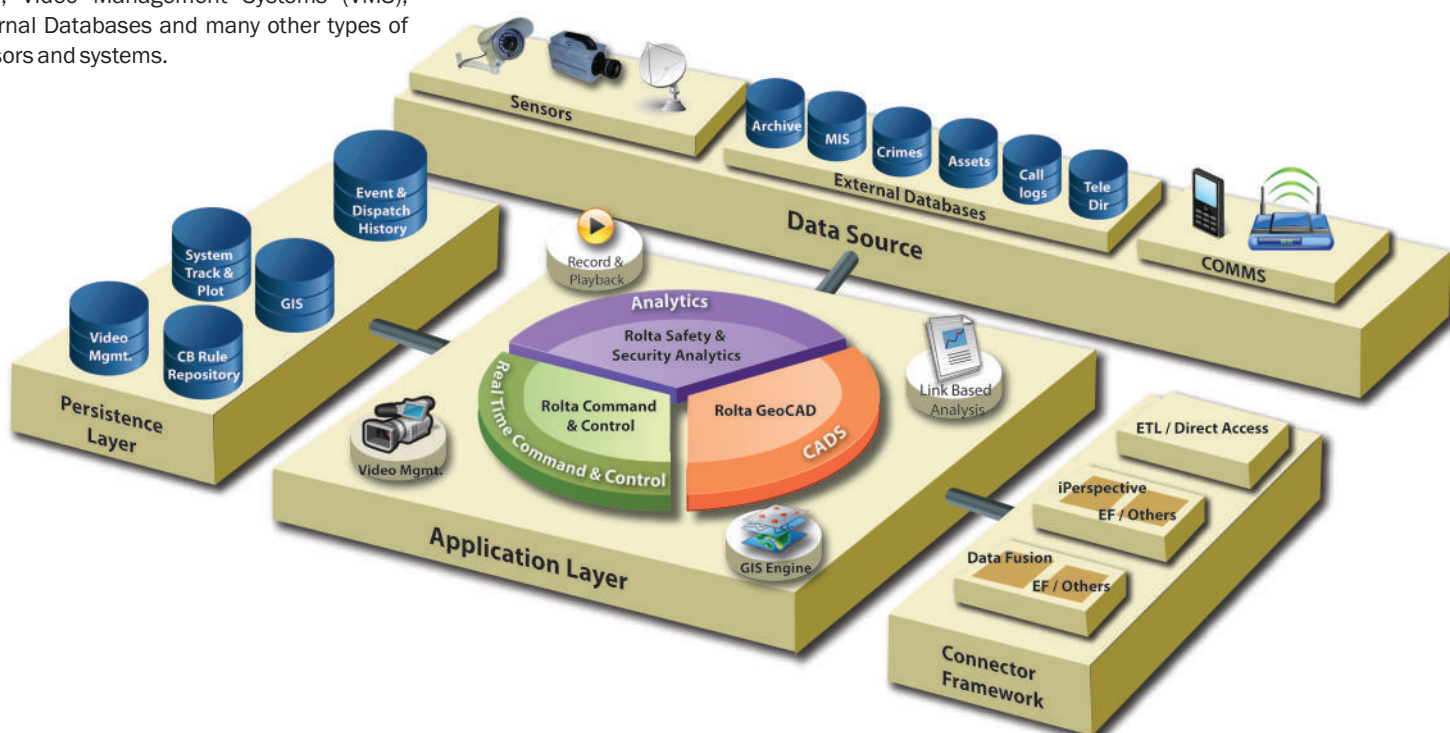
The solution feeds this integrated information into the decision support and situational awareness system.

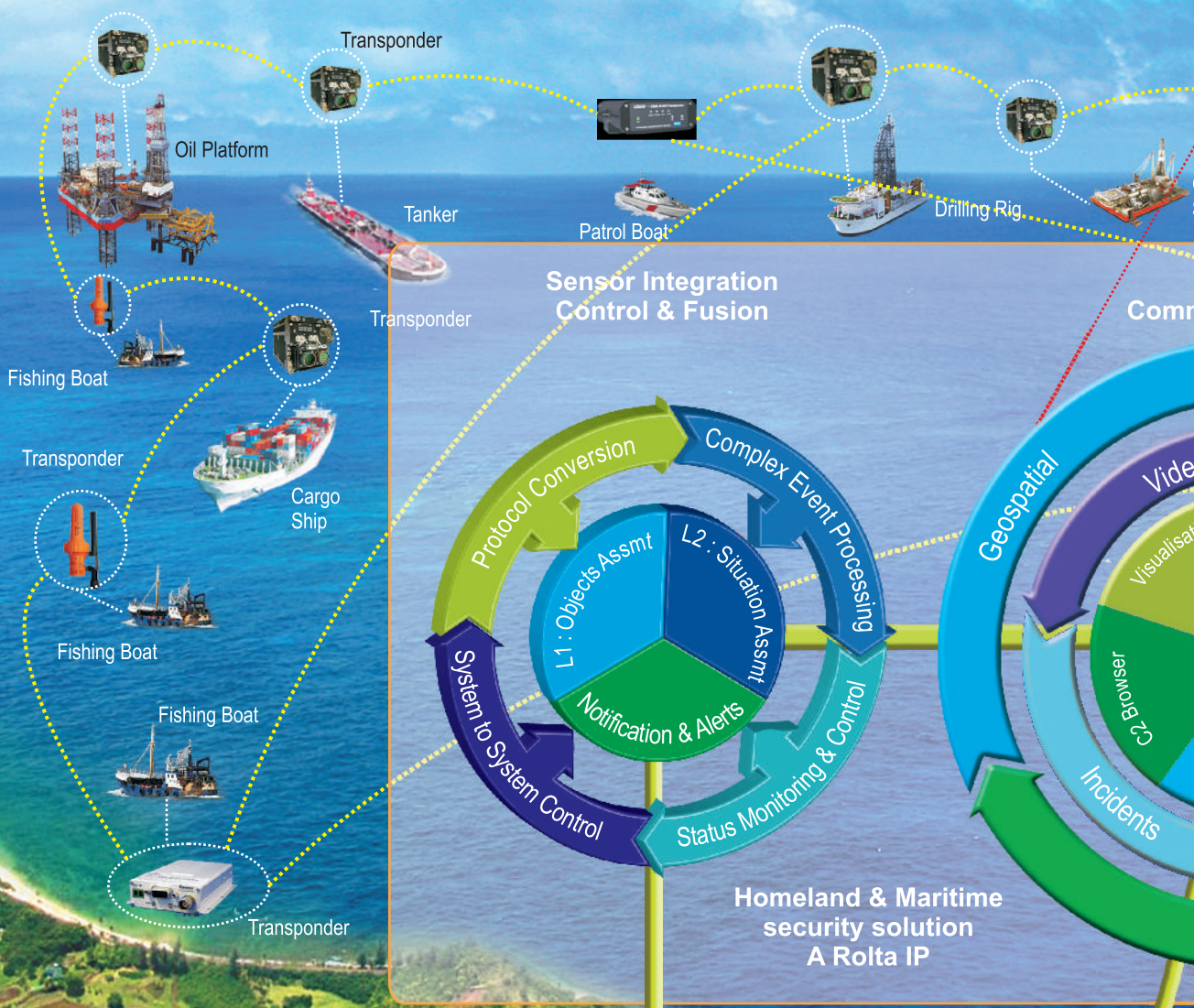
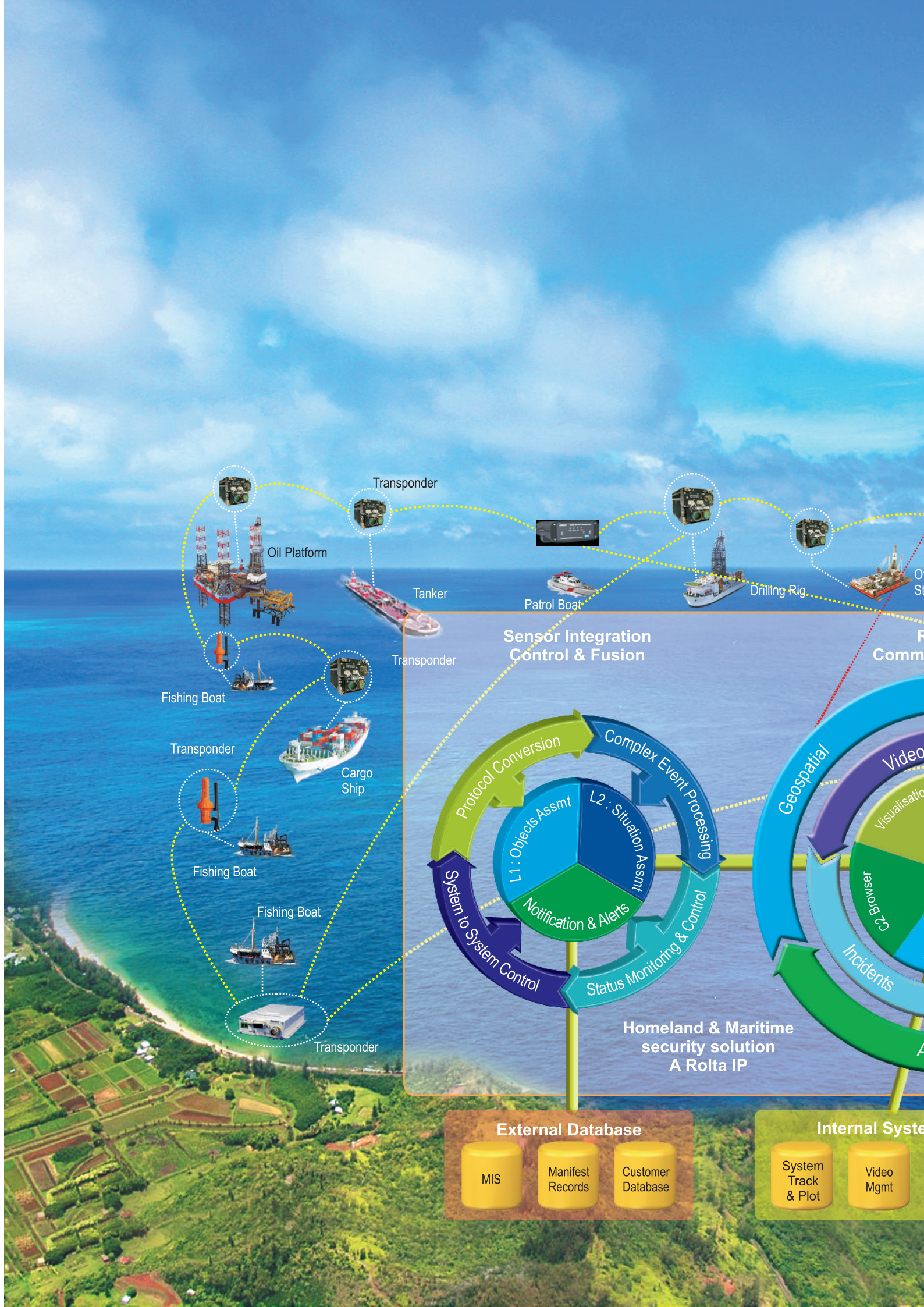
Police and Emergency Management

Rolta's solution for police modernization addresses a wide range of requirements:

- Computer aided dispatch systems
- Integrated safety & security
- Crime analysis with geospatial tools
- Intelligence data fusion

The solution also supports the collection and analysis of local and national databases such as the Criminal Tracking Network System. This enable the computerisation of police stations.







Biometric scanner

Alarm

Video Camera

Airport

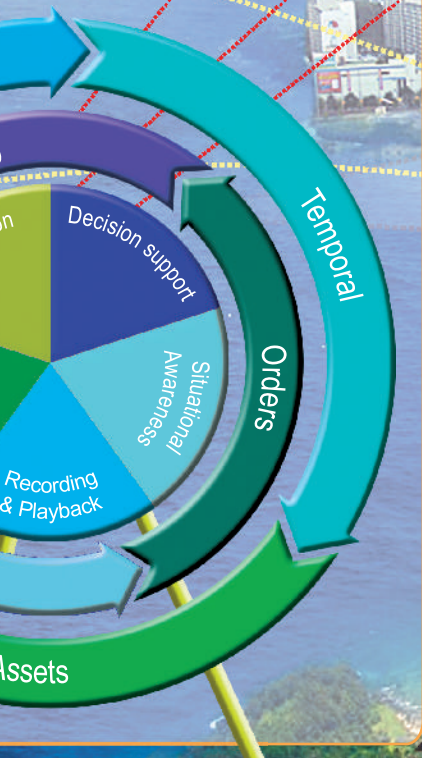
Coastal Radar
(Automated Identification System)

Maritime WiMAX

Offshore station

Coast Guard

Real time
Command & Control



Central Control Room

Hydro Meteo
(Weather)

Repeater

Police Law & Order
Computer Aided Dispatch
(CAD)

Lighthouse

Maritime Surveillance
Camera

External Data Link

History Analysis

Temporal

Statistical
Tools

Geospatial

Nuclear Power
Plant

GIS

ROLTA GEOCAD

Rolta GeoCAD is an advanced Computer Aided Dispatch (CAD) solution. It enables integrated multi-agency emergency response for:

- Police
- Fire
- Ambulance

This innovative solution provides seamless integration with GIS maps, allowing emergency response agencies to record, locate and respond to distress calls within a spatially enabled environment.

The solution leverages the strengths and capabilities of desktop, web and mobile technologies, to seamlessly integrate the command center with the vehicle tracking and response forces.



ROLTA GEOCAD PRODUCT

Rolta GeoCAD Desktop

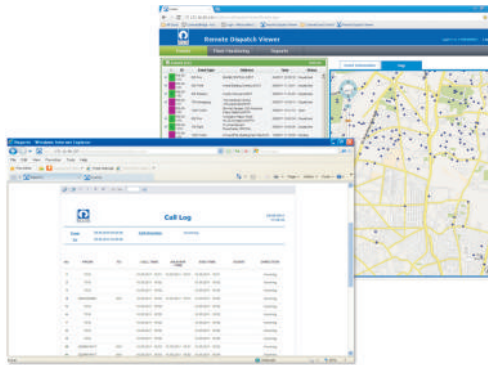
Within the Rolta GeoCAD suite, the Desktop module caters to the call-takers, dispatchers and supervisors of the emergency response management services. An intuitive GIS interface allows them to record, locate and respond to distress calls within a spatially enabled environment. The three teams also have customised capabilities, tailored to their duties which smoothen the entire process.

Call Taker Functionalities

- Customizable & easy-to-use GUI
- EPABX integrated call taking capability
- Ensures complete data collection using “questionnaire” based on event type
- Form-based input screen for fast data entry
- “Smart Addressing System” for faster incident location
- Automatic caller address input via ALI/ANI
- Reduced duplicate calls by “Nearby Location” & “Appended Events”
- Voice recording capabilities through “Voice Logger”
- “Messaging” capability between call takers, dispatchers and supervisors

Dispatcher Functionalities

- Automatic event routing to appropriate dispatcher
- Faster dispatch using “Nearest vehicle” & “Nearest Center”
- “Shortest path” between vehicle and incident computation
- Supports “Resource & Response Planning”
- Time stamping and recording of vehicle as well as incident information
- Vehicle status designation “On route”, “At scene” & “Event Close”
- Access to local and external databases



Supervisor Functionalities

- Capability to configure the daily operational needs of the command center.
- “Add” and “edit” or “Delete” Event Types and Sub Types including their priority, queue timer and operator-processing messages

Operating System

- Microsoft Windows 2008 Enterprise or above for servers
- Microsoft Windows XP or above for desktop clients & MDT
- Windows Mobile 6.5 or higher for PDA & handheld devices

Rolta GeoCAD Web

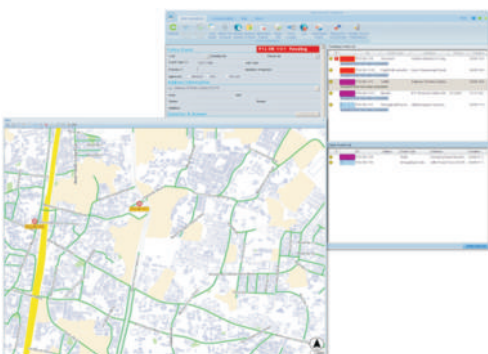
Rolta GeoCAD Web enables users to view a complete picture of a given event, including response activities, at their current position. This is done using standard web technology. The user need only be web-enabled. The module also provides enhanced reporting tools capable of multiple levels of output. The range of reports spans basic call-taking, analytics, chronology, resource utilization and summaries, all enhanced with graphical representations.

- Supports access from anywhere on the internet/ intranet on any standard browser
- “Event view” provides a birds-eye view on the situation
- “Fleet Monitoring” allows display of vehicle locations in their correct geographic position on the map
- “Reports” helps in generating reports incorporating text, graphics and map data
- Incorporates user pre-defined reports
- Enables user to perform specialized analysis and generate custom reports

Rolta GeoCAD Mobile

The Mobile module of the suite channels all the information regarding the event to the responding units on their mobile devices. Further, a two-way communication is made possible, thereby updating the control center of the mobile units' progress.

- Supports PDA, MDT & hand-held devices
- Presents the complete information of the event assigned in an easily comprehensible user interface
- Enables the generation of pre-defined status messages for transmission to command center
- Enables the mobile workforce to provide information to the command center such as text messages and incident closing reports
- Fully integrated maps
- Automatic real-time GPS location and display on pre-loaded geographically referenced map (for supported devices)



ABOUT ROLTA

Rolta is a leading provider of innovative IT solutions for many vertical segments, including Federal and State Governments, Defense/HLS, Utilities, Process, Power, Financial Services, Manufacturing, Retail, and Healthcare. By uniquely combining its expertise in the IT, Engineering and Geospatial domains, Rolta develops exceptional solutions for these segments. The Company leverages its industry-specific know-how, rich repository of intellectual property that spans photogrammetry, image processing, geospatial applications, business intelligence, analytics, field-proven solution frameworks, and deep expertise in cutting-edge technologies like Geo BI, Cloud computing, Software Defined Infrastructure and Big Data for providing sophisticated enterprise-level integrated solutions. Rolta is a multinational organization headquartered in India. The Company operates from 40 locations worldwide through its subsidiaries, and has executed projects in over 45 countries. The Company benchmarks its quality processes to the world's best standards, like successful assessment for Software Application Development and Maintenance at the highest Level 5 of SEI's CMMI® version 1.3. Rolta is listed on the Bombay Stock Exchange & National Stock Exchange, and forms part of various indices on BSE/NSE in India. The Company's GDRs are listed on the Main Board of London Stock Exchange. The Company's 'Senior Notes' are listed on Singapore Stock Exchange.

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