

MAIN TARGET





- Support the country in reaching full situational awareness at their external borders
- ► Increase the reaction capability of country's law enforcement authorities
- ► Reduce the number of illegal immigrants entering the country undetected
- Provide complete security to the internal entry points of the country
- ▶ Reduce the threat of terrorism, including preventing cross-border movement of persons, weapons and funds connected with terrorist and other criminal activity;

MAIN TARGET





- ► Promote high standards in border services
- Promote free and secure movement of persons, goods, services and investments;
- Prevent and repress transnational organized crime, corruption and trafficking in weapons, drugs and human beings
- Promote dignified treatment of all individuals wanting to cross borders
- Create beneficial conditions for social, economic and cultural development
- Foster common spaces of freedom, security and justice in the area
- Ensure security of the international transport circuit for supply of commodities

KEY CONCEPT









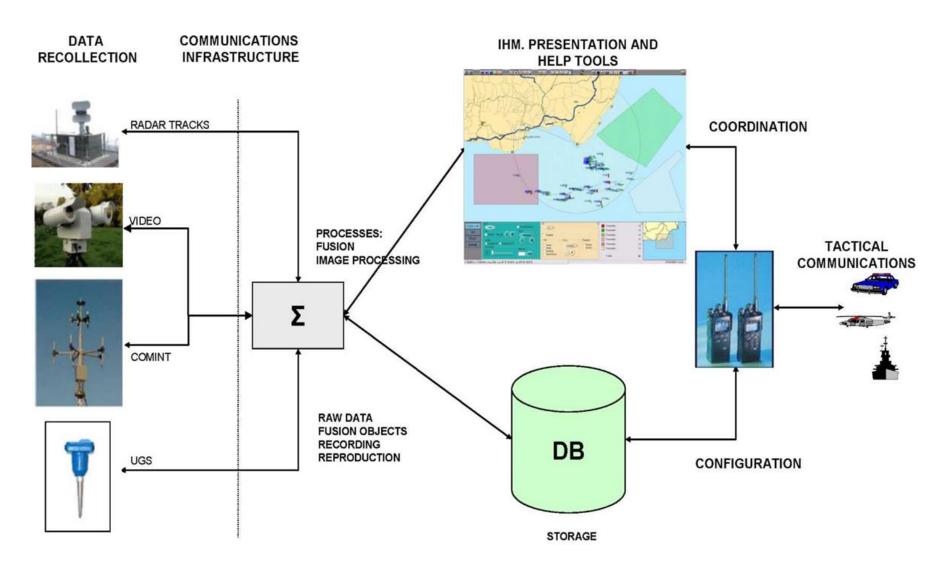




SYSTEM DESCRIPTION







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LEONIDAS IBS & MS

Complete Border Surveillance Solution







SYSTEM DESCRIPTION





- ► Fixed and mobile command & control systems which incorporate specialized centralized data fusion & management software (indigenously developed by ONEX)
- Sophisticated fixed-based and mobile surveillance systems with motion detection, object tracking, threat classification, information fusion capabilities and integration with various sensors:
 - ☐ Short range electro-optical (EO) systems (Day/night TV camera, Thermal Imaging, Laser Range Finder, North Finder)
 - ☐ Long range systems (Radar)
- ► Unattended Ground Sensors (UGS) systems
- Perimeter intrusion detection systems
- Secure terrestrial wireless, wired and satellite communications systems

SENSORS





Aerial Surveillance Systems

- ☐ Unmanned Aerial Systems (UASs)
 - Micro & Mini UAVs
 - Hexacopters
 - Tactical UAVs
 - MALE UAVs





SENSORS







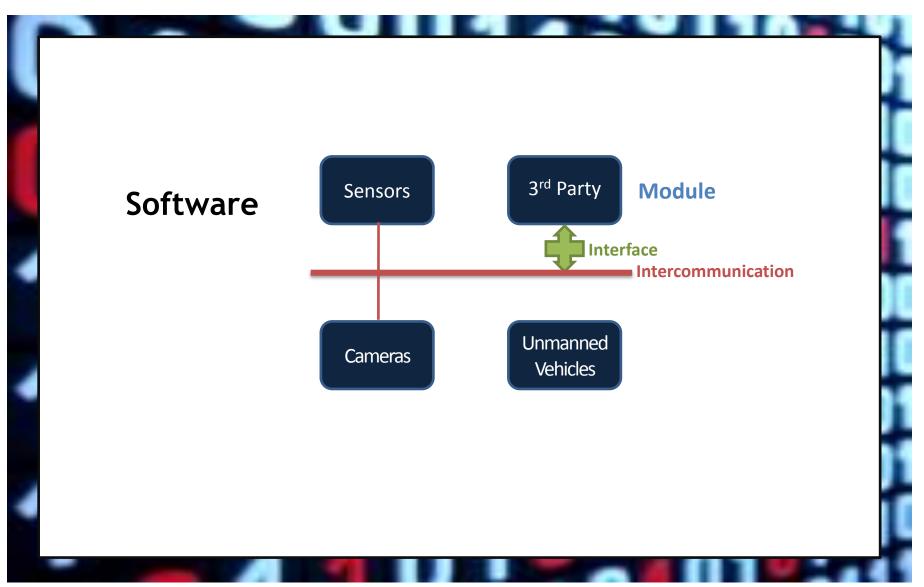


Naval Surveillance Systems

- ☐ Vessel Control (Underwater Inspection
 - System)
- ☐ Coastal Surveillance Radars
- ☐ Unmanned Underwater Vehicles











- ► The whole software is divided in separate functional modules
- ➤ 3rd party modules can be added through the use of Interfaces (special software)
- **►** Key Characteristics:
 - ► Modular
 - ► Multi-tier Client/Server
 - ► Open Architecture





ADVANTAGES

- ▶ Provides easier maintainability, because each module is simpler than a single application
- ► Modules can be modified, upgraded, removed, added without affecting the availability or operability of the rest of the system
- ► Allows the system to support different kinds of sub-systems
- ► All system components operate as one single system





The whole software system is divided into three levels:

Server - Client - Database User2 User1 User3 Client1 Client2 Client3 Hardware **Network** Server DB **Software**





<u>. Server</u>		
		Handles transactions between the clients and the database
		Controls user rights
		Distributes working load evenly
		Controls back-ups
		Communicates with hardware
2. Client		
		Handles all interaction with the users
		Adjusts functionality according to user rights
		Many clients can operate simultaneously
3. Database		
		Relational database system
		Stores all data from subsystems
		Stores user information

C2 SOFTWARE System Snapshot





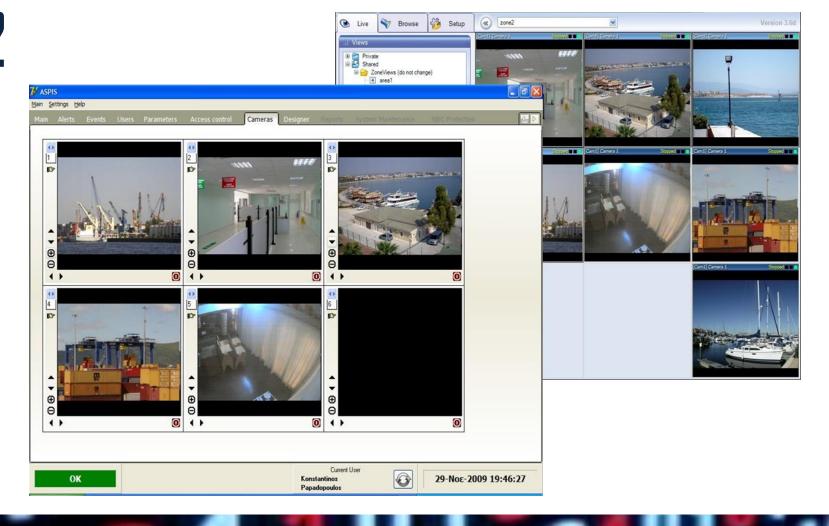


C2 SOFTWARE System Snapshot





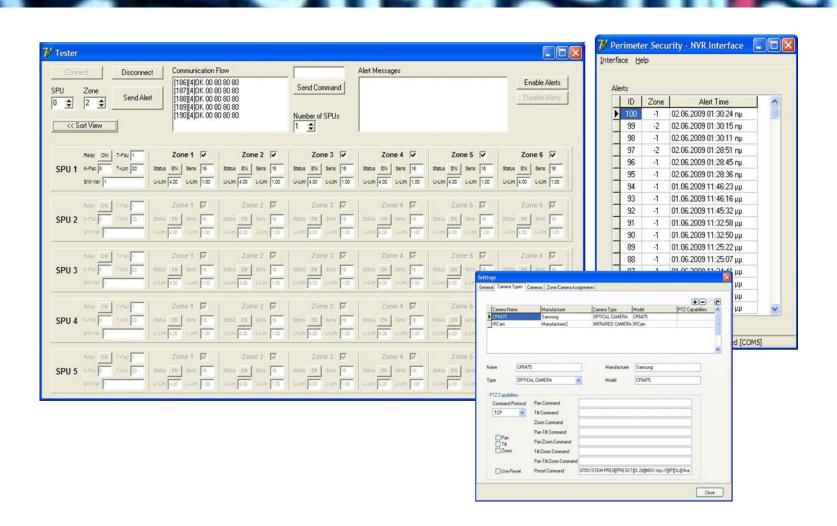
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C2 SOFTWARE System Snapshot







SYSTEM OPTIONS



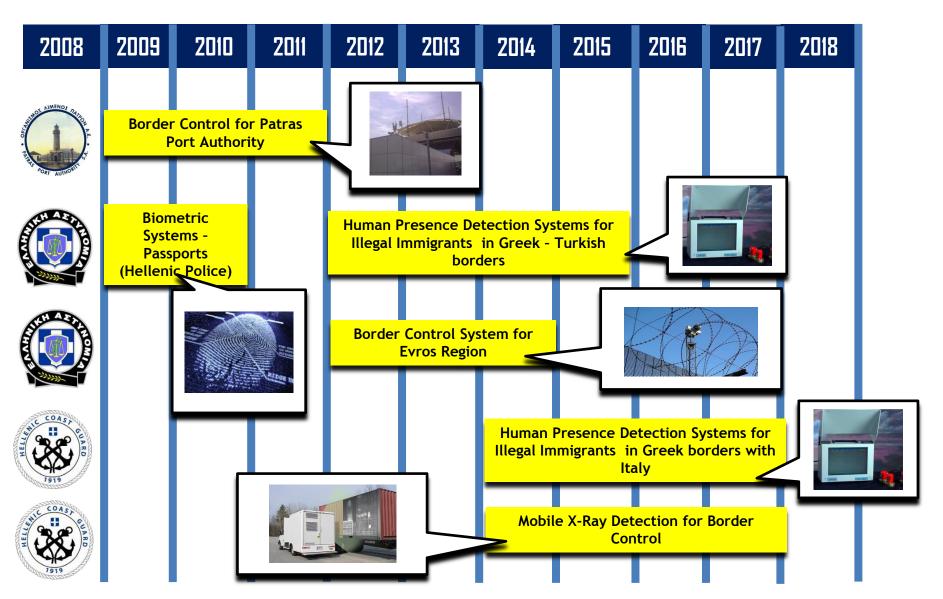


- Long Range Acoustic Devices (LRAD)
- X-Ray inspection systems, including personnel & parcel screening systems
- ► Human presence detection systems
- Container inspection systems
- Hazardous material detection systems
- **▶** Spectrum monitoring systems
- ► RF jamming systems
- ► Mobile telephony interception systems
- Access control systems (entrance, gates, buildings)
- ► Video & data recording systems
- License Plate Recognition and undercarriage inspection systems
- ▶ Biometric control systems
- Face recognition systems
- Passport control systems

REFERENCES - MILESTONES











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This was the LEONIDAS IBS & MS presentation

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