

ÖLÇSAN
to measure is to know

SOLUTION GUIDE

Solution Guide

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50-YEARS EXPERIENCE IN INFORMATICS

ÖLÇSAN PROVIDES UNIQUE SOLUTION-ORIENTED APPROACH
AND 50-YEARS OF EXPERIENCE, THANKS TO ITS VISIONARY
VIEW IN ITS AREAS OF EXPERTISE.

CORRECT IDENTIFICATION OF REQUIREMENT

Necessities may be identified correctly only through analysis of possibilities encountered or to be encountered with correct parameters. Criteria like quantitative and qualitative values of needs, safety, efficiency, speed, time and cost balance are evaluated.

ENGINEERING

ÖLÇSAN designs the best solution with its vision one step ahead of technology and specialized personnel thanks to the experience gained through its R&D activities that it has carried out starting from the date of its incorporation. ÖLÇSAN's focused approach paves the way for a permanent and global solution.

RIGHT PRODUCT

Designed solutions may be realized with different product options. The right approach is to choose the product that will bring a solution in consequence of an extensive survey. Global business partners leading in their fields suggest the best product with sectoral knowledge and perspective of engineering.

DESIGN

The process to be carried out for the designed solution upon selection of the product is determined through analysis of all possibilities by the specialized staff.

SYSTEM INTEGRATION AND CONSULTANCY

Following all these stages, solution is implemented. ÖLÇSAN provides consultancy services as well as turn-key projects.

Representing information technologies and quality, ÖLÇSAN has been adding value to the sector with the best solutions.

R&D AND INNOVATION

Our company believes that it is possible to be a global player in the area of information technologies through R&D activities and innovation-oriented approach, and acts with this belief. European Union and TUBITAK R&D activities are carried out in cooperation with business partners. Bringing a cycle of innovation with R&D activities, ÖLÇSAN commercializes its new and innovative ideas. For customer satisfaction, we meet software, hardware and integration requirements in the shortest time and in the most efficient manner possible.

TECHNOLOGIES:

Types of biometrics and algorithms, Smart Cards and Terminals, Embedded Systems, IoT, M2M, Mobile Applications, User Interfaces, Application Platforms and Frameworks, Digital Security and Safety, Next-Generation Communication Technologies, Cyber Security Management, Deep Packet Analysis, Attach Detection and Prevention, Cyber Intelligence, Network Security Solutions, Log Management and Correlation, Integrated Network Firewall, Dynamic Password Solutions, Digital Signature Infrastructures, Security Threat Inspection, Cyber Threat Detection and Abnormality Detection

COMPETENCIES:

Energy Efficiency Management, Secure Communication, NFC, Payment Systems, Product Modeling/Design/Production, Digital and Physical Activity Tracking Platforms, Software Engineering, Hardware Development, Operating System Development on Embedded Systems, Image Processing, Autonomous Control Systems, Development of Biometric Comparison and Detection Software, Information Security Consultancy



Smart access management:

Smart Cards

As an integral part of our lives, smart cards make life easier with the security measures they provide and their extensive use.

We provide turn-key solutions with smart card technologies, including many applications such as physical and logical access, data security, authentication and identification, loyalty, payment, transportation and data management.

- National ID Cards
- Corporate Cards (Employee, Loyalty, Campus)
- Public Transport Cards and e-Ticketing
- Debit and Credit Cards
- Identity and Certificate Management, Data Security

Key to security:

Biometrics

Biometric transactions performed by using physical and behavioral characteristics of an individual bring security to the highest level without a need of any media.

With our software platform, we provide unique and integrated biometric solutions in areas that require high level of security. Besides its own biometric products, ÖLÇSAN has also close partnerships with the leading biometric companies.

- Biometric Enrolment and Verification
- Finger Print, Finger Vein, Face, Iris, EyePrint and Motion modalities are used for Biometric Readers / Terminals and Biometric Access Control Terminals
- Biometric Access Control and Time & Attendance (T&A)





Secure process management:

Special Security Layers

Special security layers are label and printing solutions that prove authenticity of documents and objects and provide compliance of transactions with security criterias.

Featuring security, these labels and printing techniques provide confidentiality, preservation, protection and tracking combined with digital security.

ÖLÇSAN developed end to end authentic document security system by using these analog security layers with digital certification and work flow systems.

- Distributing personal identification (PIN) in a secure way with labels
- Identification, protection and security of document authenticity
- Medical Security Labels, Secure Syringe and Injection
- Industrial Security Label / Films / Shields
- Payment Labels

Internal and external cyber threats:

Cyber Security

Data of public and private enterprises and individuals should be protected against risks on virtual environment. Secure access to these data should be provided with a sustainable structure.

ÖLÇSAN provides extensive solutions and services with a wide range portfolio for cyber security; such as access control, identity control, attack detection, threat analysis, log management and correlation, intrusion detection and prevention, incident response, cyber intelligence and many more...

- Network and Infrastructure Security
- Threat Intelligence Solutions
- Identity and Access Management
- Security Operations and Event Management
- Application/Data/WEB/Endpoint/Mobile Security
- Secure Messaging and Communication Security



Against unauthorized access:

Physical Security

It is required to prevent unauthorized access to facilities, premises and designated areas at private and public enterprises and organizations and also protect their properties against theft or threats.

Considering all possible dangers, ÖLÇSAN brings solutions for installation and management of systems that will protect against unauthorized access thanks to access control systems and T&A software based on card, PIN and biometric elements, perimeter security platform and the overall security management system.

- Access Control
- Time & Attendance Systems
- CCTV Systems
- Perimeter Security Systems
- Security Threat Management Systems

For critical areas:

Border and Critical Infrastructure

Protection of national borders and infrastructures with strategic importance is among the prominent points of national security in every country.

We provide monitoring, protection and management solutions with electronic systems in preventing actions that may impair national security, such as terrorist actions and external power attacks and particularly human and goods trafficking.

- Border Control & Remote Monitoring / Management
- Port Management, Coast Guard, Integrated Border Management
- Critical infrastructure, Pipelines, Airport and Stadium Security
- Smart and Secure Cities





Secure access of objects:

IoT

IoT means that the objects are connected to the Internet or a network and thanks to this connection, they stop being a simple object and share information about their own state, receive commands and direct their behavior and thus become smarter; thus, it aims to provide a world where devices become more autonomous. Data is being collected and stored from IoT devices and managed with smart applications. Data from IoT devices are collected and managed on a single platform. We offer management platform, IoT modules and integrated cyber security solutions.



- IoT Modules
- Secure Communication
- IoT Management System
- Smart Energy, Mobility and Lighting Management
- Smart Vehicle Sensors and Applications



Efficient Life:

Smart and Safe Cities

From lighting to energy, from transportation to security, water, health, waste management, many benefits are provided and citizens are offered a more livable, healthy and peaceful environment.

We are a partner of EU Horizon 2020 funded REMOURBAN project which is a reference project in the 2020-2023 National Smart City Strategy and Action Plan, a first in Turkey and fourth Smart City strategy and action plan in the world. With the City on CLOUD platform and IoT modules we developed in the project, we provide renewable energy, smart building automation, electric vehicles and smart general lighting system and digital city management.

- Transportation, Parking Lot and Security Management
- Building Energy Efficiency and Management System
- Indoor and Outdoor Lighting Management
- Electric bus, vehicle and bicycle management
- Smart Grid and Water Leakage Solutions
- Renewable Energy Production Management
- Waste Tracking, Central Heating and Cooling Management



**SUSTAINABLE DISTRICTS
& BUILT ENVIRONMENT**



**SUSTAINABLE URBAN
MOBILITY**



**INTEGRATED
INFRASTRUCTURE AND
PROCESSES**





Planning, Design, Management:

Customized Software

ÖLÇSAN has developed numerous software platforms, some of which are turned into package software, meeting the needs with its more than 20-years of software experience.

ÖLÇSAN provides software solutions and related services with its specialized staff offering service to many private and public enterprises.

- Public Transport Management Systems - PTMS
- Management Information Systems (MIS)
- Archive and Document Management
- Fruit and Vegetable Market Hall Management
- Event based Simulation

Error-free:

RF-ID

RF-ID technology stores information and data of a shipment and/or inventory item and enables transfer of this information to certain points by means of radio waves and RF-ID (Radio Frequency Identification) readers. This process is performed with mobile and fixed RF transmitters and readers.

ÖLÇSAN represents and delivers solutions of world's leading manufacturers who produce readers, labels, TAG's and inlays.

- Object Recognition and Tracking
- Personnel Tracking
- Product Tracking (Spare parts, production, stock management)
- Luggage, Live Animal and Vehicle Tracking
- High-Value Item Tracking and Protection



A woman with long brown hair, wearing a blue and white uniform, is looking down at a handheld device. She is holding a black stylus in her right hand. The device has the 'SARRAN' logo on it. The background is blurred, showing what appears to be a medical or professional setting.

The Secure key of the era:

Mobile

Mobile platforms has become the world's widest platforms and thus security and management of mobile devices have become more of an issue.

We, as ÖLÇSAN deliver mobile solutions enabling processes like performing field operations of civil and military security institutions, financial and health institutions via authentication with smart phones and mobile devices and applications.

- Customized Field Applications
- Mobile Authentication
- Mobile Biometrics
- Mobile Payment & Health
- M2M (Machine-to-machine communication), IoT

High efficiency:

Data Center Solutions

Today, data centers where data are virtualized and stored are essential elements that makes business processes of enterprises more efficient.

Data center solutions with secure and uninterrupted infrastructures are offered in many different areas from virtualization of important systems to their deduplication and from high-performance computing to GPU-based big data solutions.

- Big Data Consultancy and Products
- GPU-Based Big Data and Embedded Solutions
- High Performance Computing (HPC)
- Virtualization and Deduplication
- Data Security
- DC Integrated Infrastructure Management Systems





A Technological View to the Future:

Education

Educations that enable interaction with visual and auditory elements in digital media, independent from physical classes, make considerable contribution to student development.

This new technology-based approach of training is supported with solutions like smart boards, e-campus solutions, special applications, interactive training software and distance learning management systems.

- Smart Boards
- Interactive Education
- E-Campus
- Learning Management System
- Interactive Classroom Platform

ÖLÇSAN
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