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Trust SEC

Professional
Services



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About TrustSEC

TrustSEC is founded by internationally recognized information security and cryptography experts. Launched in 2016, the company intends to fill the gap in the cybersecurity market, Securing data assets, and digital identity against unauthorized access, cyber-attacks, hacking, through its state of the art and innovative products and solutions.



100+
Employee
IN OUR TEAM



6
COUNTRIES

Professional Services



IT Hardware
Solutions



Web / Desktop
Development



Embedded
Development



App
Development



Cloud
Development

45+
RESEARCH
PAPERS

3
PATENTS

13+
IPs

20+ TECHNOLOGY
PARTNERS



Trust SEC

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Outsourcing

It has been thought that the main reason for outsourcing is cutting costs but, when it comes to software development it is much more than that. “Lower cost” isn’t what the companies should actually look for. It is the quality, the guaranteed **project management** and the **experience** of the outsourced company that matters the most. Companies should choose Software development outsourcing services because they **will guarantee their projects will be handled by talented IT professionals.**

TrustSEC now is providing outsourcing services for its customers. Our team has great experience in developing different types of software and hardware products. TrustSEC 's big network with technology companies, professional engineers, and IT graduates, allows it to help its customers find the most suitable candidates.

TrustSEC helped many enterprises boom through leveraging it's qualified resources, certified software developers, IT engineers. Also, our various projects allowed us to work on a variety of programming languages.

Why Outsourcing?



Get the work done by Experienced team



Guarantee delivering on time



Deal with guaranteed enterprise of **25 years Experience**



Guarantee the quality of work



Saving Costs (Opex & Capex)



No risk of hiring unqualified employees



We share our experience and knowledge **to empower your business**



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Industries



Information Security

- Data Encryption
- Identification & authorization
- Biometric Solutions
- In-app Protection



Digital Identity and Security

- Smartcards
- Biometrics Technologies
- Access management
- PKI Solutions
- Fido solutions



FINANCIALS INDUSTRY

- Banks, Multi-Sector Holdings
- Specialized Finance
- Investment Banking & Brokerage
- Financial Exchanges & Data Insurance



HEALTHCARE INDUSTRY

- Healthcare Technology
- Biotechnology
- Pharmaceuticals
- Medical insurance Services



RETAILING INDUSTRY

- Distributors
- Internet & Direct Marketing Retail



Applications Development

- Various Mobile Apps Development
- In-app Protection
- Gaming Development

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Technologies

TrustSEC through its 25th year journey has covered many areas as the following:



Desktop Software Development

TrustSEC development team provide software using following development environment:

1. C++/C# under Microsoft Visual Studio 2008, 2012, 2013
2. C++/QML under QT Development Environment
3. Java/C++ under Net-beans and Eclipse
4. MacOS xCode, Linux cc/gcc/g++



System Software Development

TrustSEC develop low level system software like windows drivers, security libraries for multiple platforms. In the following a list of developed libraries:

1. Windows CSP (Cryptographic Service Provider)
2. Standard PKCS11 library for Windows/Linux
3. Windows Gina/Credential library (User Log in Replacement)
4. Windows Secure Virtual Drive (Encrypted with secure hardware)
5. Window Smart Card Driver



Mobile Software Development

Mobile application includes technologies like database, socket, security, internet/mobile communication, file and document management, camera access, and more ...

Many Mobile application are developed using following tools:

1. Microsoft Visual Studio for Windows Mobiles
2. Eclipse/Android SDK for Android Mobiles
3. xCode for iOS Mobiles
4. QT for multiple mobile platforms



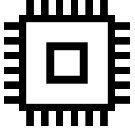
Web/Cloud Software Development

TrustSEC develop different web/cloud applications either stand alone or integrated with other systems and backends. Development team uses following technologies for development:

1. Server Programing: PHP, JSP (Java), ASP/ASP.NET, C/C++/C# (CGI/Web Service and Web Extensions)
2. Client Script: JavaScript, HTML 5.0, Ajax/JQuery, Java (Applets)
3. Servers: Apache, IIS, Web Sphere and Tom Cat
4. Environments: Visual Studio, Net Beans and Eclipse

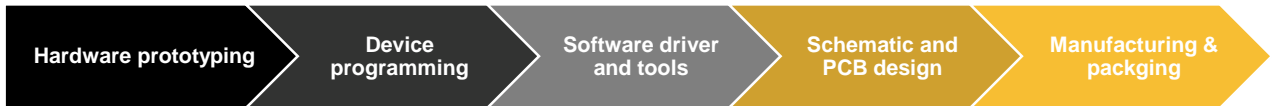
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Technologies



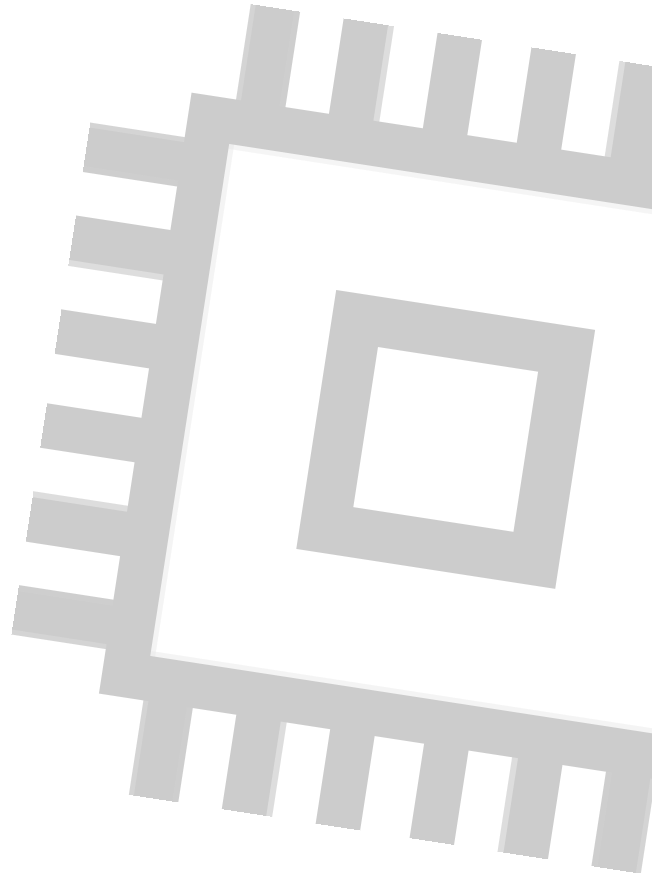
Embedded System Development

TrustSEC is capable of building complete embedded system. The development process may include:



Embedded development team creates many projects/products based on following MCUs:

- Atmel ARM7 16 Bit microcontrollers
- Atmel AVR 8/32 Bit microcontrollers
- ST Cortex 32 Bit microcontroller
- Microchip 8/16 Bit microcontroller
- NXP 80C51 Bit microcontroller
- Infineon 80C51 Bit microcontroller
- ST microcontroller



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Outsourcing Models

TrustSEC provide four models of Professional services to satisfy its clients needs based on every business requirement.

1)- Fully Managed Remote Resources

Fulltime committed resources & Project Management.

In this Model TrustSEC is responsible for managing the delivery of the services. It either allocates its resources or hire new ones, in which TrustSEC would be fully responsible for the **project management** and **deliverables** to the client



Resources + Management + QC

Benefits

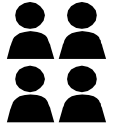
- **Project Management** : Fully managed projects by professional project management team (Client doesn't have to get involved in the project management hassle)
- **Quality Assurance**: TrustSEC will be responsible for the quality of the deliverables
- **Payroll**: TrustSEC Manages the monthly payroll
- **Premises**: Employees working in TrustSEC premises
- **Payment Terms**: Quarterly payments

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Outsourcing Models

2)- Client Managed Remote Resources

TrustSEC is only responsible for hiring to the client, the hired team will be working in TrustSEC premises and will use TrustSEC resources.



Resources + Premises

Benefits

- **Management :**
 - ✓ Client manages the project on his own way
 - ✓ Client has direct contact with the resource
 - ✓ Team is fully dedicated to the Client.
 - ✓ Clients can modify or reprioritize tasks during the work time
- **Saving Costs:** Very Competitive pricing compared to Europe & USA
- **Premises:** Employees working in TrustSEC premises
- **Payroll:** TrustSEC Manages the monthly payroll
- **Payment Terms:** Quarterly payments

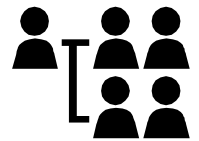
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Outsourcing Models

3)- Remotely managed Projects / Tasks

Project / Tasks Management.

In this Model TrustSEC is responsible for managing the delivery of the projects. It allocates its resources and management to fully be responsible for the **project management** and **deliverables** to the client.



Resources + Management + QC

Benefits

- **Project Management** : Fully managed projects by professional project management team (Client doesn't have to get involved in the project management hassle)
- **Quality Assurance**: TrustSEC will be responsible for the quality of the deliverables
- **Saving Costs**: No need for training, payrolls and premises for Employees working on temporary projects
- **Deadlines**: Saving time as a team will be working on the project
- **Payment Terms**: Advanced payment, then breakdown to the following payments as per agreement with client.

4)- Recruitment

In this Model TrustSEC uses its experience in software development and in security sector in specific to help other business hire the most qualified Employees



Benefits

- Getting the Recruitment Process done by Experts
- Saving costs and time by hiring the right candidates

Management Fees

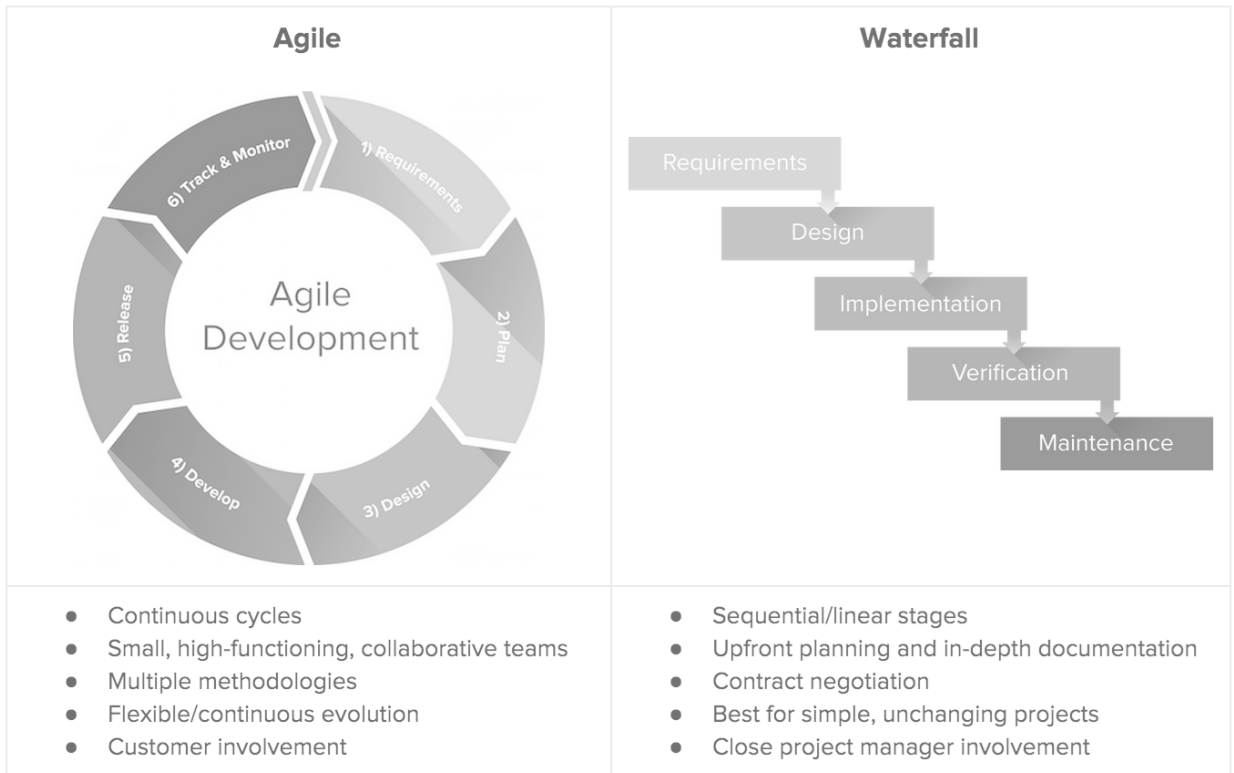
Recruitment Fees

Fees equivalent to one (1) month's of salary of each hired employee

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Methodology

follow development process derived from standard **water-fall/agile processes**. Also, TrustSEC uses customized process for R&D to generate prototypes and semi-products.



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Business Analytics

The purpose of the Business analytics phase is to describe goals and requirements of the project

- Initial idea deep research and business analysis
- Propose product vision and details of proposed solution
- Detailed requirements specification
- Provide a basis for detailed software design and development
- Design the product user experience (UX) that includes business workflows, scenarios, user cases, pages structures and sequences, page composition, content, interactive elements (buttons, links, menus, etc), as well as user impressions, product goals achievement.



TrustSEC will guide you with strategic advice on technology, your business goals and operations to adopt the right IT Strategy with the best return on technology investment.

Defining goals

1. Researching the main idea of the project.
2. Exploring the high-level main goals of the project.
3. Determining the client's primary high-level expectations, which are known at this stage.
4. Vision synchronization of this unit with client.
5. Identifying all User Roles and key User Stores.
6. Gaining access to industry insights from TrustSEC experienced professionals to place you at a competitive advantage and minimize the risk of costly errors.

Business Analytics

7. Building strong communication to ensure that everyone on the same page that is essential to success. Starting to form a glossary of project terms.
 - TrustSEC prepares agendas before each meeting and record results in a summary.
 - Commonly-accepted terminology in the industry reduce miscommunication.
8. Forming a complete roles list.

Project analysis

1. Researching competitors' existing solutions and technologies.
2. Researching the groups of client needs to clarify the best user experience.
3. Analysing data, ready-made solutions on the market, their real (and not declared) pros and cons as well as customer base.
4. Decomposing user stories to user roles based on the results of research.
Visualizing tree of user roles, stories and cases.
5. Defining main restrictions and providing solutions for them.
6. Identifying the main requirements, as migration and learning complexity.
7. Identifying the main risks.

High-level architecture

Selecting approaches and a key development stack based on analytics to reduce the chance of error emerging, improve the quality of product requirements and the product itself, and obtain a basic coverage of non-functional and transitive requirements. In this case, the cost of ready-made solutions plays an important role.

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Business Analytics

Interactive prototypes & specification

1. Development of detailed specification that covers all user stories. Specification sections can be grouped by specific scenario depending on the industry and application type. The functional is describes in detail but not redundantly; acceptance criteria and the restrictions imposed on them, such as speed, security and so on are specified.
2. Development of prototype (clickable if needed) in parallel with specification.
3. Forming Definition of Done.

Building development process

1. Forming development process in accordance with the identified requirements and interests of stakeholders. The main frameworks:
 - Scrum uses for active development phase of medium and large projects, or small projects where there is no 100% vision from the client. It is also used during the final phases of broad functionalities in ready-made projects
 - Waterfall uses for small projects (up to 2-3 months) or blocks of functionality in ready-made projects with 100% vision from the client and the team
2. Forming process configuration useful for client.

As a result, Product Owner gets a common vision and a complete package of the Vision documentation and SRS (including UX project prototypes for launch and high-level architecture) a project implementation plan.

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Project Team Roles

Product owner (client)

Setting high-level tasks and goals. Establishment and allocation of budget, budget control and execution of high-level tasks.

Account Manager

Solving all organizational issues with the client on the side of the company. Control of invoicing. Monitoring compliance with agreements.

Business Analyst

Provision of a common vision of the client and team, decomposition of high-level tasks, conducting research on the product, setting tasks, compiling and managing the documentation.

Software Engineer

Implementing of technical tasks, assessment of tasks, conducting an investigation. Process adherence.

UI/UX designer

Implementing of UI/UX design, assessment of tasks, conducting research. Process adherence.

DevOps

CI/CD configuration, server configuration, team support in terms of system configuration, task evaluation, research. Process adherence.

Project Manager

Provision of a common vision of the client and the team, decomposition of high-level tasks, setting and monitoring the

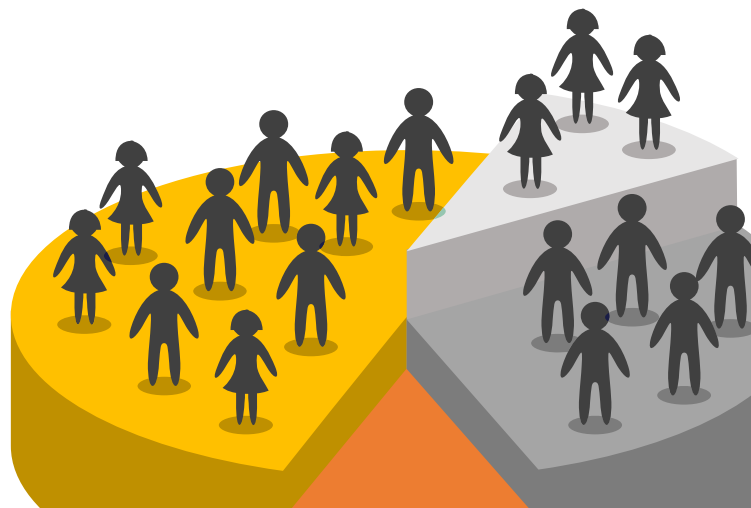
deadlines for the execution of tasks, management of tasks with the tracker (Jira, etc), budget management, time control, risk management and providing the conditions for the work of the team. Definition and monitoring of the implementation of processes; and methodology. Carrying out demos along with QA

Technical Leader

Technical decomposition of tasks, definition and control of following technical processes (git-flow, code review, standards, CI / CD execution). Support of the team, implementation/control of the survey, evaluation control, implementation and control of the architecture, drafting of technical documentation, control of technical aspects of the testing process, implementation of technical tasks, investigation of tasks, research. Process adherence.

Quality Assurance Eng.

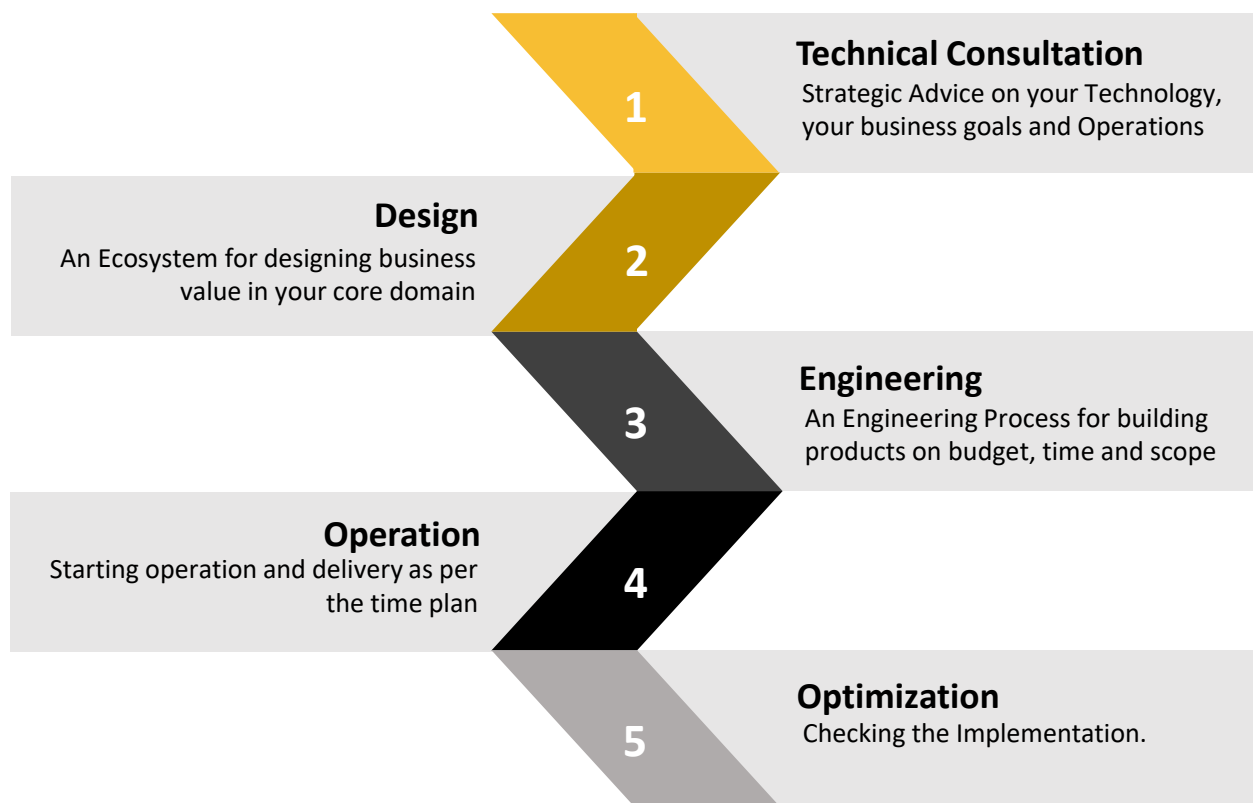
Testing tasks, writing technical documentation, providing recommendations for improving the project, implementing auto tests. Acceptance testing, regression testing, and demo testing. Process adherence.



TrustSEC offers organizations professional Research & Development services with competent project management. TrustSEC with its extensive experience and team of experts handles R&D projects from scratch to delivery. We take part in strategic planning, defining the project goals, designing, executing, and optimizing.

TrustSEC leadership practices effectively guide organizations that rely on it in R&D outsourcing to innovation, manufacturing, and maintaining market competitiveness.

Workflow



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Why TrustSEC?

Employees Selection

Choosing TrustSEC will allow you to interview the developers prior to signing the contracts.

Monthly Vs. hourly rate

You will be able to choose the fair rate that suits you from TrustSEC three Outsourcing models that makes you choose either on an hourly basis, monthly rate, or just the recruitment process.

Service Level Guarantee

Our utmost priority is to ensure accurate performance of the delivered projects based on requirements collected and agreed on. In the event of errors proven to be committed by us, we will rectify within a reasonable timeframe after the verification phase.

Creative thinkers

Our teams think out of the box and solve the most critical problems happen to block our progress. That's why we comply with the required outputs in the defined timelines. we have academic researchers in our department for solving and develop innovate solutions for problems.

Experience

TrustSEC team has more than 25 years of Experience in software development and a record of innovative solutions and products development.



Why TrustSEC?

Team

TrustSEC development department consists of 40 members divided into five teams. Most of the technical members are computer engineers. Some members are academic members or preparing post graduate studies like Master or PHDs.

Contract Terms

Our agreement is subject to an annual contract that gets renewed and reviewed from your side annually.

Development Methodology

TrustSEC follows development process derived from standard **water-fall/agile** processes. TrustSEC established and apply all required process documents and templates. Beside standard process TrustSEC uses a customized process for R&D to generate prototypes and semi-products

Commitment

Commitment is what transforms words, proposals and promises to reality. Our company regulations don't accept half-ways, only full compliance to our commitments.

Consultation

"In the business world, everyone is paid in two coins: cash and experience. Take the experience first; the cash will come later." Through consultation, we offer you part of our vast & multi-field experience that is gained over years.

Trust SEC

Who we are

Trustsec is founded by internationally recognized information security and cryptography experts. Launched in 2016, the company intends to fill the gap in the cyber security market, Securing data assets, and digital identity against unauthorized access, cyber-attacks, hacking, through its state of the art and innovative products and solutions.

What we offer

Through Trustsec pool of experts and its business-driven innovative solutions, Trustsec offers its uniquely, in-house developed operating system for smart cards- SLCOS, a variety of products and solutions, that cover Software protection, data encryption, OTP, and security hardware namely PKI tokens and FIDO2 tokens in addition to its unique panel of professional services; of consultation, integration, testing, and outsourcing to help the other companies benefit from the latest available advances in cryptography to improve their products and services.

Trustsec 2020

TrustSec has acquired Softlock inc in 2020. This new chapter for Softlock and Trustsec is an important step for the information security field where two companies with their strengths combined will better serve the region. Working in parallel, the R&D of Softlock with accumulative 25 years of experience, and the professional supervision of Trustsec Board who steer the organization towards a successful future, the two companies will provide the best-in-class secure digital experience to the benefit of individuals, entities, and governments!

Throughout the past 25 years, Softlock has been a leader in providing innovative information security solutions in the Middle East. Softlock has been focusing on research and development over the past 25 years. The company's latest unique innovative solution was the smart card operating system SLCOS. With its strategy of innovation, Softlock is now developing smartcard solutions and applets that run on SLCOS to serve the different sectors under Trustsec Supervision.



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