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1 COMPUTER AND COMMUNICATIONS BUSINESS GROUP

... where ICT is your solution ...

The Higher Organization for Business Management (OSDE), called the Informatics and Communications Business Group (Geic), has the mission of managing the comprehensive development of information and communication technology products and services that contribute to the computerization of society and the growth of the economy.

Its Vision is to be the organization that groups together leading companies in the computerization process of Cuban society.

It projects its business management under the precepts of commitment to the performance of the organization and knowledge of it; creativity in solving problems that arise in different ways; honesty in the management of own and others' assets and resources; sincerity in daily behavior and analysis of any matter or problem; the responsibility in the fulfillment of the actions approved by the organization in the established time and with the required quality; the social commitment that each worker has with his organization and society; teamwork to achieve the objectives set, in an environment of trust, permanent communication and respect, sharing knowledge, experiences and information; professionalism and careful performance,

The GEIC has defined its Strategic Objectives, focused on:

- ✓ Accelerate the implementation of the National Computerization Program of Cuban society, with an effective insertion of computer applications and services.

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- ✓ Promote the GEIC's foreign trade activity to help increase exports and attract foreign investment.
- ✓ Ensure the continuity of the revolutionary and professional leadership, prioritizing the decision-making and fundamental positions of the GEIC.
- ✓ Strengthen intellectual capital through continuous improvement of the organizational, relational and human capital system.
- ✓ To improve the management and business management system of the OSDE-Geic.

It has a young and experienced Workforce, with a high comprehensive cultural preparation, professional qualification and a varied profile, where the specialties of information technology, telecommunications and electronics stand out.

As a Business Group, it maintains a favorable financial situation with a sustained growth in its activity level, above 5% as an annual average.

It is made up of state companies, commercial companies with 100% Cuban and instrumental capital that function as shareholders of the commercial companies scheme, in Cuba and abroad, with a central body as the Presidency and auxiliary bodies that exercise management and control functions. , respecting its management and autonomy, located in Havana, Cuba. These companies are: Desoft, Segurmática, Softel, Radiocuba, Movitel, Cubatel SA, Solintel SA and Sepcom.

The lines of products and services that are marketed respond to the demands of the national and international market, in order to provide all clients with services with efficiency and quality, giving quick and effective solutions to their needs, through professional human capital and committed to the organization, as well as to the import and export powers of their companies.

As Computer Solutions, we have a wide range of software, with its associated products and services. We face small, medium and large-scale projects with solutions based on open source and an advanced technological platform that guarantees the quality of services

Giving coverage to any sector with comprehensive solutions such as:

- Business and government management.

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- Electronic government.
- Mobile telephony.
- Process management in Health.
- Cloud-oriented thematic projects.
- Expert Systems, Artificial Intelligence.
- Antivirus solutions, computer security products and services.
- Consulting and specialized advisory services.
- Training and education services in information technology and automation.

In the field of Telecommunications, we cover:

- National and international radio and television signal transmission services.
- Mobile satellite services (Inmarsat).
- Trunked radio communications services, eLTE network infrastructure planning.
- Engineering solutions and projects associated with the transmission, operation, transportation, monitoring of radio signals, tower and radiation systems, and protection against electric shock.
- Solutions, projects, installation, assembly and execution of civil works for telecommunications networks by copper cables, fiber optics and wireless.
- Integrating solutions for telecommunications and informatics with the services of installation, configuration, start-up and operation of the info-communications systems.
- Training, consulting and specialized technical assistance services.

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GEIC_DICE



GEIC_Cuba



GEIC Business Group

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2 Characterization of its integrated companies:



Desoft, a Computer Applications Company, has vast experience in the Information Technology sector, backed by more than two thousand highly qualified and professional workers, internationally certified by ISQI and other renowned institutions. Its business model is based on the commercialization of Software as a Service (SaaS), offering comprehensive solutions and services for business and government management (ERP and GRP), electronic government and mobile telephony, on platforms based on Open Source (Open Source), which together with the assurance of development cycles by implementing the MCDAI quality model (based on CMMI-Capability Maturity Model Integration) guarantees the quality of its services.

The company has broad national coverage, with a presence in all provincial capitals and representations in more than 130 municipalities in the country; its headquarters are in Havana, Cuba.

Desoft is a leader in the national market in the commercialization of business management software and value-added services for mobile telephony and as a technological provider of the Electronic Government ecosystem in Cuba, a project that won the World Summit Award of the Society of the Information (CMSI) for its application in the Portal of the Citizen of the Pinar del Río province.

In the international market, Desoft has faced various software factory projects for countries in Europe and Latin America.

Its lines of business are:

- Business management

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- Government Management
- RFID technology
- Added Value to Mobile Telephony
- Applications development
- Electronic Government
- Security
- Professional services

It offers a varied and wide range of products and services of proven quality, framed in:

- Comprehensive consulting in information technology.
- Development services for ERP and GRP solutions on Odoo and integration with RFID technology.
- Development of customized solutions for mobile telephony on Android OS.
- Coordinator in the provision of resources in the value chain, in which consumers and providers are integrated in the face of ICT services.
- Professional Scientific Technical Services

For his results he has received the following awards:

- Special award for innovative solutions at the International Informatics Fair 2018.
- Mention to the services of the ENTUMOVIL Platform in the category of Software Solutions and Computer Services at the 2018 International Computer Fair.
- Mention in the CYBERSECURITY category to the IT Security Suite at the International IT Fair 2018.
- Club TuAndroid 2018 Award for the ENTUMOVIL Platform.
- Award from the World Summit of the Information Society (WSIS) for the Portal of the Citizen of Pinar del Río.
- LaTinatec Award from the Forum of Entrepreneurs and Leaders in Information Technologies (FELTI 2019), awarded to the Bimas project, Executive system for monitoring organizational strategies.

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- LaTinatec Mention from the Forum of Entrepreneurs and Leaders in Information Technologies (FELTI 2019) for the Cuban Localization of the Odoo ERP integrated into the ROIC platform, an integrated system for business management that allows processing of data issued from objects connected through a network.

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DesoftCuba Computer Applications Company

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Softel is the Software Production company for Electronic Technique. Develops, implements and supports computer solutions, especially for the management of health processes and technologies with the aim of increasing the efficiency of the National Health System in Cuba and gaining a space in the international market. Based on the clients' own needs, it develops a line of technological projects whose use extends to other sectors. It also stands out in the management of technologies and knowledge of a large community where customers feel part of it.

Its main product and service lines cover the following areas:

- **Health Solutions:**

- ✓ Hospital Computerization System (GALEN CLÍNICAS).
- ✓ Information System of Diagnostic Means (GALEN LAB).
- ✓ National Network of Blood Banks.
- ✓ Health Information System (SISalud).
- ✓ Information System for the Sanitary Control and Regulation of Medicines, Medical Equipment and Devices.

- **Technological solutions:**

- ✓ Technological infrastructure for the implementation of highly complex projects oriented to the "computational cloud" (FULL).
- ✓ Expert or decision support systems (ExperLab).
- ✓ Generation of neural networks (NeuroLab).
- ✓ Public Key Infrastructure (PKI)
- ✓ System for Business Management based on the application of the Balanced Scorecard (DIRIGER) methodology.

Its fundamental client is the Cuban Health System, especially the national hospitals.

Awards received:

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- First place in the Computer Applications category by Suite Galen Clinicas at the 2016 international computer fair
- Special recognition to an institution for its contribution to the Computerization process of the Cuban Society, awarded for the first time at the 2016 International Informatics Fair and Convention.
- Acknowledgment to the "Cuban Health Informatization System Project" for its contribution to the Informatization process of the Cuban Society at the 2016 Informatics International Fair and Convention.
- Winner of the ICT Panorama Contest at the 2016 Informática international fair and convention.
- 2016 World Summit of the Information Society Award, awarded by the International Telecommunications Union in the e-Health category.
- Winner of the ICT Panorama Contest at the 2016 Informática international fair and convention.

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The Computer Security and Consulting Company, Segurmática, develops antivirus solutions, computer security products and services. It is a Platinum distributor in Cuba of Kaspersky Lab company's products for the corporate sector. It has the only antivirus laboratory in the country, which specializes in detecting, analyzing and confronting malicious programs, with special emphasis on those that circulate on national networks.

The quality management system has been endorsed since 2018 by the NC ISO 9001: 2015.

It offers a range of products and services, both in Spanish and English, that allow strengthening the computer security of its clients. Among them, the following:

- **Antivirus security.**

It is the leading product of the company, with great functionality, which contributes to raising the IT security of the computers operating system, has a friendly and simple interface, which consumes few resources and easy access to updates, which are incremental and it works on any Windows operating system from XP + SP3 and LINUX. Kaspersky Edition Security Antivirus is available, a product of collaboration with Kaspersky Lab, as well as its products for security solutions as its distributor.

- **Development of Cybersecurity modules and systems.**

We develop modules or systems with security tools and libraries that include cryptography, secure network connection and use of hash for Windows, Linux and Android operating systems.

- **Comprehensive diagnosis of technological security.**

Analysis of physical security, access controls, video surveillance and others. Analysis of the security of the info-communications infrastructure and services. Analysis of the applications and systems supported on the technological infrastructure and the security controls in the terminals, devices and workstations of the end users.

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- **Comprehensive diagnostics for websites and applications.**

Analysis of the hosting or infrastructure where the website or application was deployed.
Security tests to the website and applications.

- **Secure deployment of vital services in a data center.**

Analysis and configuration for the deployment and secure implementation of telematic services (dns, mail, proxy, etc.), web services and Wifi.

- **Training and Awareness Services.**

Training aimed at developing a culture of security within organizations, as well as making visible the risks and threats that affect the confidentiality, integrity and availability of information

Awards received:

- Security Software Award: "Computer Convention 2016"
- FELTI Award 2017

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Radiocuba is the Radiocommunication and Broadcasting Company of Cuba. It is responsible for guaranteeing quality Radio and Television transmissions in the national territory and broadcasting abroad. For this, it has a transmission network distributed in television and radio centers throughout the country. Always immersed in new projections, it constantly modernizes its network, transmission centers and increases new services. Since 2013 he began his entry into the world of digital television.

It provides services for the transmission of radio broadcasting signals and the conduction and distribution of audio and video signals. INMARSAT acts as a national and international provider of mobile satellite radiocommunications services, including the marketing of equipment associated with these. It carries out assemblies and disassemblies of professional towers and antennas and provides technical consulting services in Radiocommunication.

Its main projects focus on:

- ✓ Turnkey project for the creation, expansion and modernization of radio, television, modulated frequency and short wave transmission centers.
- ✓ Turnkey project for the transport of radio and television signals from propaganda studios to transmitting centers, amplitude modulation, frequency modulation and short waves.
- ✓ Turnkey Project for the implementation of control and supervision systems for television and radio signals (modulated amplitude, modulated frequency and short waves).

The projects consist of:

- Preliminary study of the client's requirements, survey of the data network, and make a technical and commercial offer for the project.
- Project design.
- Acquisition of equipment and instrumentation.
- Installation.

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- Start up.
- Training and training of the installed system.

He has working relationships with several foreign companies from: the People's Republic of China, the Socialist Republic of Viet Nam, Nicaragua, Italy and Canada in the sector of radio, TV and internet transmission, as well as joint engineering jobs abroad. Receiving in 2015 the award granted by the French company World Cast Systems, for the Deployment of Networks with all the ranges of World Cast Systems (PM / AM / remote TV monitoring, transmitters, encoders) in Cuba and Venezuela.

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Movitel is a public radio communications operator. It provides services and solutions for wireless telecommunications, mainly radio trunking. The analog network that it operates is considered one of the largest public MPT trunking networks internationally. It develops an eLTE solution for broadband trunked radio communications based on LTE, which includes voice dispatchers, video surveillance (4G), vehicle location, SMS / MMS and other functions.

It currently exports at the border to international organizations based in the country and foreign airlines

The business lines that it projects for its exportable offer are:

- ELTE network infrastructure planning and technical advisory services.
- Assembly, installation and technical support in the operation of the eLTE system.
- Technical advisory service and repair of infrastructures and terminals of the MPT technology.
- Critical infrastructure management and monitoring service.
- Import of network infrastructure and LTE and MPT equipment for use in critical, emergency and professional communications systems.

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Cubatel is the Cuban Society for Telecommunications, integrator of technologies for the construction of computer and telecommunications networks under the “Turnkey” concept, both in public and private infrastructures. It provides services tailored to the needs of the client in various areas: marketing, with powers to import and export; solution design; development of engineering projects; execution of technological civil works that includes the creation of copper cable and fiber optic networks; installation and configuration of computer communication and training equipment. It has the power to import and export and its human capital is made up of professionals and technicians of diverse specialization.

Its main services are:

- **Installation of telecommunications networks.**
 - Underground and overhead copper cable networks.
 - Underground and aerial fiber optic cable networks.
 - FTTX, Campus and PONS access networks.
 - Wireless links, WiFi, Wimax, GSM.
- **Installation of computer networks.**
 - XDSL networks.
 - Structured Cabling WAN and LAN networks.
 - Aerial and underground fiber optic networks.
 - Wireless WiFi links.
 - FTTP, Campus and PONS access networks.
- **Systems Installation.**
 - Voice over IP solutions.
 - Customized management and monitoring systems.
 - Custom applications.
 - Database storage, processing and recovery systems.
 - Voice mails.

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- Telephone traffic supervision systems.
- Systems for numbering changes.
- Televigilance systems.
- Call recording systems.
- Call center.
- **Construction of Technological Works.**
 - Urban undergrounds.
 - Underground interurban and national.
 - Underpipe.
 - Tunneling and directed horizontal drilling.
 - Installation of towers.
 - Installation of mobile radio bases.
 - Installation of VSAT stations.
- **Specialized projects.**
 - Underground and overhead copper cable networks.
 - Underground and aerial fiber optic cable networks.
 - FTTX, Campus and PONS access networks.
 - Wireless links, WiFi, Wimax, GSM.
- **Homologation services for telecommunications equipment.**

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The company Solintel SA is a smart option to obtain comprehensive telecommunications solutions, add technical and professional services for communications, information technology and project management both within and outside the country, as well as the import and commercialization of technological equipment and other supplies. Its nomenclator is an integrating entity of various technologies and with a broad profile in the external commercial management of assets associated with its professional sphere. It manages and integrates assembly, configuration and start-up services for different systems, including data transmission, networks, telephony, energy backup and others, as well as the parts, equipment, systems and solutions that its clients demand. It has high competition,

Its main services:

Technical Assistance Services.

- Technical Improvement Service.
 - Modifications to existing facilities.
 - Additional hardware installation.
 - Funcionality test.
 - Other assembly services.
- Hardware Preventive Maintenance Service.
 - To preserve the technical condition and performance of the equipment and systems installed on the site.
- Corrective Maintenance Service.
 - Remote Technical Support Service (Remote Troubleshooting) and on site (Onsite Troubleshooting).
- On-Site Hardware Replacement Service (Onsite Hardware Replacement).
- Support of mobile / fixed telephony systems.
- Commissioner Services.

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- Systems Support for Business.
- Report / Analysis of requirements.
- Analysis of requirements for the client administrator.
- Integration requirement.

Engineering Services.

- Survey, design and configuration of telecommunications solutions.
- Installation, assembly, configuration and commissioning of telecommunications systems.
- Administration, monitoring, control and management of telecommunications, computing and electronics projects.
- Maintenance, repair, attention to breakdowns and technical support for telecommunications hardware and software.
- Homologation services for telecommunications equipment.

Warranty and post sale services.

- Commercial warranty, repair and / or maintenance during that period to imported equipment and integrated solutions to them.
- Post-sale services to equipment and software of the systems and / or telecommunications solutions marketed and installed.

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The company of Security and Protection of Information Technology and Communications, SEPCOM. Promotes and facilitates the improvement and consolidation of the security and protection service of facilities, transfer of values, cash, documents, dangerous substances and assets, through an integrated system of consultancies, agents, physical and technical means, promoting the introduction of advanced technologies .

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