inCRIPT

[I N F O R M A T I O N   T E C H N O L O G I E S]

ABOUT US

INCRIPT is a private company specialized in the field of communication and IT system integration in Armenia. The company specializes in bringing together components and subsystems from various vendors and technology providers to offer an integrated, reliable and cost effective IT and communication solutions. The company possesses the required expertise and experience to provide assistance at every stage of the projects, from development of design and planning to the actual installation, commissioning and maintenance of communication and IT systems.

Our company offers a wide-range of system integration services on the following markets:

- ☑ Telecom
- ☑ Energy
- ☑ Water
- ☑ Infrastructure
- ☑ Information technologies

INCRIPT offers state-of-the-art solutions and covers the entire range of services offered in the field, including supply, installation and commissioning of HW (GPON/Juniper/Cisco) and SW platforms (OSS/BSS/NMS), installation of FO passive network and OPGW commissioning and maintenance, supply of computer hardware and peripherals, supply and installation of computer software, maintenance and technical support, SCADA and low current systems, IT consultancy and training.

MANAGEMENT TEAM

The key management staff behind our company is all experienced managers and professional engineers, with from 10 to 20 years of professional experience. They have all played an important role in the development of the Armenian IT, telecom and energy sectors, and in the implementation of various large-scale programmes and projects in many regions of the country.

The partners in INCRIPT network together form a highly experienced group of planners, financial experts, management consultants and technical experts. The company is in a position to bring in various other kinds of experts from our international network of contacts comprising various system integration companies and consultants.

Statement of CEO

The term 'Information Technologies' was coined a long time ago and has become an everyday expression since then. It takes us to one of the most contemporary sectors of economy that is providing a technological breakthrough of a global character. International analysts predict that the future will be for the companies that are actively deploying information technologies with a particular aim of 'internetizing' their intellectual and financial assets. To put it in other words, companies that do not have global presence in the World Wide Web are doomed to obscurity and oblivion. Such a forecast can hardly be disputed with, especially if we keep in mind the fact that information technologies have become an integral and concurrent feature of the modern culture.

Fortunately, the Armenian economy has not stayed out of the marked global trend. This is attested to by the annual 20% growth in the sphere of information technologies in the country. All the above-said confirms the idea that it is the high-tech sectors that should be charged with the 'mission' of helping Armenian economy to sustainably start on the road to dynamic development.

We at INCRIPT LLC are proud that we are able today to contribute to the modernization of our country by providing sophisticated state-of-the art solutions in the field of communication and information technologies, as well as by instilling new culture and standards of business.

Internet is a virtual environment mirroring the real life. It is an instrument that gives us the ability to comprehend what our future development will be. We are preparing ourselves to it. And what about you? We will be delighted to help you…

Arsen Palikyan, Director ad interim

SERVICES

The scope of the services provided by INCRIPT is including, but not limited to:

- ☑ Supply and installation of HW
- ☑ Supply, installation and technical support of SW platforms
- ☑ Turnkey GPON projects
- ☑ Installation and commissioning of SCADA & telemetry systems
- ☑ Design and installation of low current systems
- ☑ Hotel Systems
- ☑ Training and capacity building
- ☑ IT Consulting

Supply and installation of hardware

Being a system integrator, our company has a vast experience in supply, installation, and technical support of the entire range of telecommunication, computer, and network equipment by such world leading manufacturers as Cisco, Juniper, HP, Dell, ZyXEL and many others.

Due to direct partnership with the world leading communication and IT equipment manufacturers, our company has an opportunity to offer flexible pricing policy. The expertise that we have in implementation of large-scale infrastructure projects as well the running and operating equipment allows constantly advancing the professional skills of the engineering staff at INCRIPT. Our certified experts have the knowledge and skills required for operating virtually any equipment that is currently in use in the IT field.

Our company retransmits the equipment warranty received from the manufacturer and assists our customers in making use of it.

Supply, installation and technical support of software platforms

INCRIPT provides software applications to serve business and customer requirements. The solution can be off-shelf form leading market vendors or custom developed for specialized applications.

In this context OSS/BSS (system of network equipment enumeration with operating and managing functions) is a powerful and convenient tool for operative and efficient telecommunications resource management, enables you to organize all telecommunications related entities in a single integrated data bank. OSS/BSS Integration Services represents one of the core activities of our company.

Our company specialized in coherent implementation, integration, configuration and customization of all software packages previously selected in the architecture and design practice for supporting the new processes of operations. Interoperability or pre-integration between the network equipment and OSS applications supplied by INCRIPT creates major value for our customers.

We offer services of supply and installation of equipment manager and billing special software, as well as we also perform a coherent customization, configuration, installation and integration of software packages previously selected in the architecture and design practice for supporting the new processes of operations. Our expert also delivers a report on the evolution and the target objectives for the OSS/BSS stream.

Turnkey GPON projects

GPON (Gigabit-capable Passive Optical Network) is one of the priority directions in the company's operations. Due to the technology that provides unsurpassed quality of services and is fast and cost-effective in implementation, INCRIPT is capable of successfully solving one of the major

challenges facing the modern telecommunication access networks: provide as much bandwidth as possible to the individual and corporate subscribes at minimal cost.

In order to provide services in this area, INCRIPT has applied and been granted with the corresponding 'License №15619 for conducting construction works in the communication field' issued by the Ministry of Urban Development of RA on 04 March 2013.

Installation and commissioning of SCADA & telemetry systems

Information technology is an essential integral part of a power sector enterprise management. At the same time, availability of a telecommunication infrastructure determines the development level of modern enterprises acting in the power sector.

INCRIPT offers state-of-the-art solutions for supply and deployment of IT systems that provide operational management of technological processes and personnel at a power sector enterprise. Moreover, these IT systems ensure data exchange on the current state of junctions and assemblies in real time and provide many other functions. We pay special attention to modern SCADA systems planted at high-voltage sub-stations (of 110 and 220 кВ).

Turnkey services of our company include, but not limited to:

- ☑ Installation of Control Centre hardware and software
- ☑ Installation of SCADA and communication equipment on-site
- ☑ OPGW installation and commissioning works
- ☑ Tools and test equipment.

These systems serve as time- and cost-effective solutions for operation and maintenance of entities involved in transmission and distribution of electrical power.
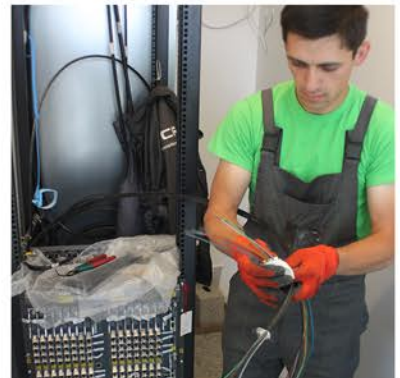
Design, installation, commissioning and maintenance of low current systems

We provide project design, project management, turnkey solutions, installation and annual maintenance contracts for Low Current Systems and Solutions. We supply stand alone as well as complete and complex solutions to Hotels, Schools, Enterprises, Towers, Stadiums, and Hospitals.

Our scope of services includes:

- ☑ structured cabling systems
- ☑ video-surveillance (CCTV)
- ☑ access control
- ☑ fiber optics
- ☑ public address
- ☑ background music
- ☑ AV systems
- ☑ Data Center solutions
- ☑ telephony (digital and IP)
- ☑ switching
- ☑ routing
- ☑ wireless solutions

- ☑ building management systems (BMS)
- ☑ energy management systems (EMS)
- ☑ IPTV

Hotel Systems

INCRIPT is one of the professional suppliers of hotel equipment to the highest standard. Our company offers and implements the associated services in full compliance with the all applicable standards and high technical requirements for hotel properties, which are to be operated by world leading operators.

These include a full review of requirements, proposing system options that meet and surpass your project goals, and fully assisting the hotel's architects and designers with device compatibility and design optimization.

We provide solutions including:

- ☑ automation of engineering systems within hotel rooms
- ☑ audiovisual systems
- ☑ video-surveillance
- ☑ access control
- ☑ interactive and satellite TV
- ☑ PBX
- ☑ wireless internet
- ☑ servers and
- ☑ lighting control and dimming systems
- ☑ Building Management Systems (BMS)
- ☑ Energy Management Systems (EMS).

Training and capacity building

INCRIPT provides trainings to the IT personnel at the customer's enterprise. The training sessions aim at improving the quality of work of the IT personnel as well as attaining better efficiency and maximum productivity in using the IT equipment installed at the customer's site.

Our vast experience in the field attests to the fact that IT staff training is highly recommended in cases when:

- ☑ Customer has completed all works towards introduction of new equipment to the site
- ☑ Personnel at the customer's enterprise are not familiar how the IT equipment functions
- ☑ Personnel at the customer's enterprise require assessment and certification.

Our company expresses its perfect willingness to design and develop an individual training plan for

IT Consulting

INCRIPT offers successful and efficient implementation of all types of projects in the field of information technologies starting from strategic planning to deployment and maintenance of complex systems. In particular, the company offers the following services:

- ✔ Conceptual design of IT infrastructure;
- ✔ Audit of IT infrastructure.

Conceptual design of IT infrastructure encompasses the following activities:

- ✔ Collection of data on the company's development strategy, current and planned activities towards restructuring and development of IT infrastructure;
- ✔ Inspection of all the IT infrastructure components in use at the customer's enterprise;
- ✔ Identification of specific requirements towards infrastructural support of the company's operations and current problems and shortcomings;
- ✔ Design of the IT infrastructure model, identification of a set of requirements to its components and their interrelation;
- ✔ Definition of the project portfolio for implementation of the identified IT infrastructure model.

Audit of IT infrastructure at the customer's enterprise will help collect quality data about the current state of the technical infrastructure at the company.

Our specialist will then be able to report about the following:

- ✔ Infrastructure components
- ✔ Telecommunication and network equipment
- ✔ Server hardware
- ✔ Worksite hardware
- ✔ Telephony and data transmission channels
- ✔ Information security

SOLUTIONS

Data Transmission

Modern companies are making large investments in the development or modernization of data transmissions network aiming at increasing business efficiency. At the same time the profitability of the investments made and their return on equity are directly affected by the quality and structure of the network design. INCRIPT offers a broad range of mission-critical solutions for design and modernization of networks in the following categories:

Backbone Networks

Through the use of modern technologies in multi-service networks, our experts will help you to realize transition to an IP/MPLS network with a packet-switched data transmission and high-speed data exchange over all types of protocols. The given technology will allow retaining security and integrity of the information environment.

Broadband Networks

INCRIPT offers solutions for selecting and installing broadband routers from world leading manufacturers. This equipment ensures high-speed data transmission as well as high availability of services.

Corporate Networks

Our specialist will assist you in selecting a new communication platform for your company ensuring that it meets the highest requirements for the reliability of communications. We are flexible to discuss options adapted to the customer's budget.

Structured Cabling Networks

INCRIPT offers solutions for structured cabling systems (SCS) as a means of universal telecommunication network for a building or a block of buildings as it ensures transmission of signals of all types, including voice, data, and video. SCS can be installed before user requests are formalized, or data transmission speed and type of network protocols are known.

Wireless Wi-Fi Networks

Increasing volumes of multimedia traffic as well as the necessity to provide adequate security call for introduction of complex wireless network infrastructure solutions based on Wi-Fi, access points, controllers, and control systems. INCRIPT offers comprehensive modern solutions for wireless Wi-Fi networks. The success of this technology can be attributed to by low cost chipsets in subscriber units as well as high quality communication.

Data-Centre Solutions

Accumulation of large volume of data as well as the recent trends in the field of high-tech resulted in setting up data centres, which are specialized repositories that ensure fast processing and security of the mission critical information. The main advantage of using a data-centre is the maximum availability and reliability. Data-centre and data storage solutions are intended for banks and large enterprises, the successful operation of which requires complex infrastructure.

Solutions based on a unified data processing centre from world leading manufacturers will result in cost reduction, provide excellent scalability, facilitate operational workflow and be easy to manage.

NCRIPT offers such solutions in the following categories:

☑ **Network Infrastructure**

Our company offers solutions for design and development of a robust network infrastructure that will cope with the predicted loads and provide the required quality of services. Selection of specific equipment is determined by data-centre specifics and the particular task to be solved.

☑ **Server Infrastructure**

Supply and commissioning of reliable server systems is designed to improve the basic performance indicators of data centres. Our server solutions from leading manufacturers meet the highest requirements for reliability and availability of cloud computing.

☑ **Database Systems**

Big data class solutions require special infrastructure to handle massive amounts of information. Our experts at INCRIPT will assist in providing storage and quick access to enterprise information

Voice Communication

VoIP (Voice over Internet Protocol), also known as IP telephony, is a methodology and group of technologies for the delivery of voice communication form a public telephone network over the Internet. This methodology allows reducing costs, as the Internet is a more economical medium of traffic transmission than telephone lines.

To implement VoIP solutions, our company offers you a series of VoIP telephone adapters manufactured by ZyXEl, D-Link, and other companies.

INCRIPT offers carrier-class equipment for access networks as well VoIP telephone adapters that support all types of protocols for IP telephony. VoIP (Voice over IP) gateways are functionally sustainable and reliable and have an intuitive user-friendly interface.

VoIP gateway is used for connecting telephones or PBX over the IP network protocol for transmission of the IP telephony voice traffic.

SUPPORT & MAINTENANCE

INCRIPT considers support to be an essential part of the whole service. Our company has a thorough knowledge in the support area designed to enable a significant decrease in 'downtime', and a problem until it is solved. Our engineers are trained officially and certified by our partners to provide efficient and rapid service to our customers all time. We are ready to maintain your solutions to optimal level and to support the entire lifecycle management of your IT Infrastructure, starting from consultancy for the optimal solution, planning, design, procurement, logistics, implementation, operation, support and ending-up with annual upgrade.

Although GPON was specifically designed for efficient troubleshooting, efficient 24/7 maintenance service of the network is highly required. O&M is centrally managed with the management system providing full network visibility. Central management minimizes required field technician expertise and supports high volume Moves, Adds and Changes (MAC) work for large user communities.

INCRIPT provides 24/7 services of annual maintenance of GPON to telecom companies, including but not limited to:

- ☑ maintenance of FO passive network

- ☑ maintenance of optical linear terminals (OLT)

- ☑ maintenance of optical network terminals (ONT)

- ☑ efficient and rapid troubleshooting of end-users devices, such as STB, Wi-Fi routers etc.

INCRIPT is continuously investing in work force & training for existing staff in order to provide our customers with professional services and support by improving our functionality and expertise.

OUR PARTNERS

www.cisco.com	www.dell.com	www.hp.com	www.juniper.net
www.zyxel.com	www.transition.com	www.te.com	www.zte.ru
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www.belden.com	www.siemens.com	www.kippzonen.com	www.alcatel-lucent.com

REFFERENCES LIST OF INCRIPT

No.	Project*
1	Supply, installation and commissioning of GPON HW (Zyxel/Juniper/Cisco) of Rostelecom Armenia
2	Supply, installation, commissioning and technical support of SW platforms (OSS/BSS/NMS) of Rostelecom Armenia
3	Installation and commissioning of VoIP technological communication equipment at 10 railway stations in Armenia
4	Installation of FO passive network of Rostelecom Armenia
5	Annual maintenance of GPON of Rostelecom Armenia
6	Installation and commissioning of structuring cabling systems in Dilijan International School in Armenia
7	Design, supply, installation and commissioning of low current system at the Jewelry Free Zone in Armenia, namely: ■ Structuring cabling system ■ Fire alarm system ■ Video surveillance
8	Design, supply, installation and commissioning of low current system at the multifunctional building (35 Moskovyan), namely: ■ Structuring cabling system ■ Video surveillance ■ Fire alarm system ■ Wireless internet (Wi-Fi)
9	Installation of IPTV platform (Client: ZTE Corporation)
10	Installation of DWDM equipment (Client: ZTE Corporation)
11	Design, supply, installation and commissioning of low current system in the IBIS Hotel in Yerevan (under construction, to be operated by ACCOR): ■ Structuring cabling system ■ TV System ■ Video surveillance ■ Audio and video of conference rooms ■ Wireless internet (Wi-Fi) ■ Digital Signing ■ PBX ■ Servers
12	Design, supply, installation and commissioning of rooms automation system in the Monarch Erevan Hotel (under construction)
13	Supply and installation of network security equipment in Gazprom Armenia
14	Installation, testing, commissioning, and putting into operation the SCADA connection equipment in 6 (six) 220 kV high-voltage substations in Armenia

* - as of 2015

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