



**USKOM**

## **USKOM in Brief**



**LEADERS IN MISSION CRITICAL SMART UTILITY  
TELECOM, SCADA, SS AUTOMATION, PROTECTION &  
CONTROL AND SECURITY SYSTEMS INFRASTRUCTURE**



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## 1. INTRODUCTION

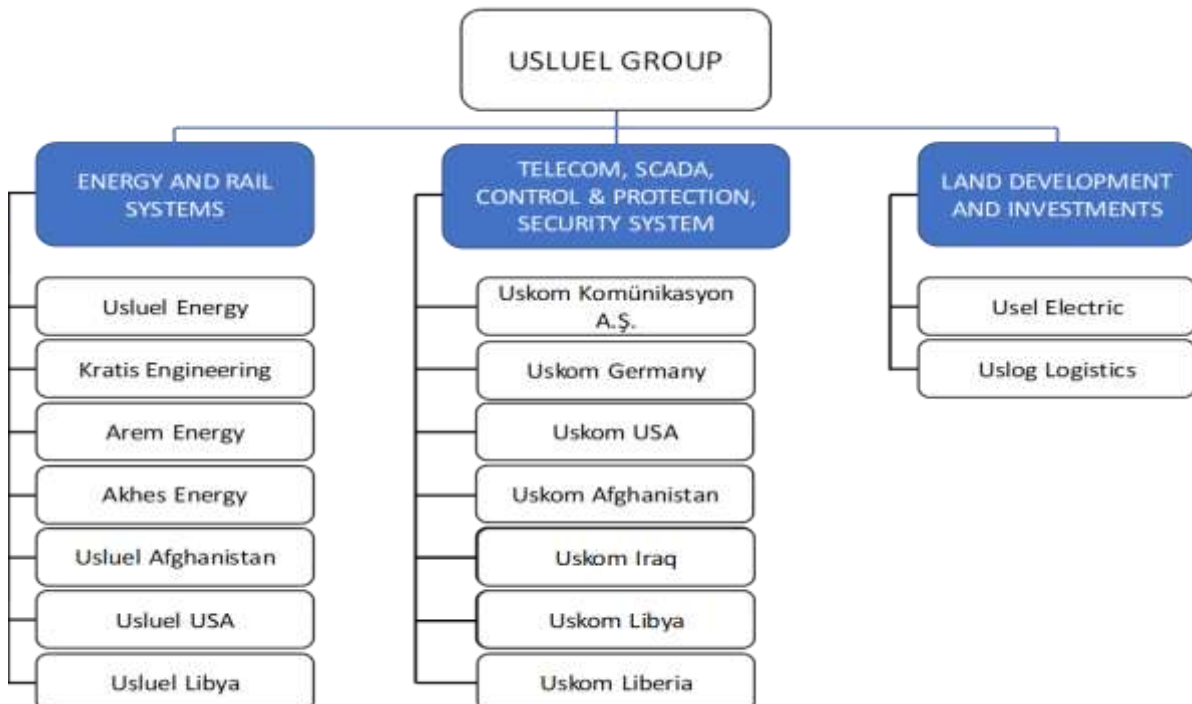
Uskom Komunikasyon A.S. is a leading high-tech system integrator specialized in Telecom, SCADA Control systems, Control and Protection systems and Security technologies with smart solutions. Energy, Transportation, Oil and Gas, Water sectors are the main sectors where Uskom delivers its services.

Uskom, according to the report by the Turkey Exporters Assembly for the year 2016, entered as 287th to Turkish 500 List of Companies for Service Exports, This position moved higher to 260th in year 2017 and Uskom was the 4th largest service exporter in the field of Telecommunication in Turkey.

In 2017, we achieved to increase our exports by 65% compared to 2016. In 2017, our exports increased by another 45%. Our growth is export-oriented and supported by adding new markets into our sales portfolio while strengthening existing ones.

Uskom's driving force is our human resources open to continuous improvement and our loyal employees who adhere to the company's principles. The company's financial infrastructure has paved the way for a larger number of projects over the years by continuously transferring our acquisitions to our business. Our company has 3A2 grade in Dun & Bradstreet 2017 report sealing our financially sound position within our operations.

Uskom stands out with strong, stable, sustainable operation open to developments to keep up with latest technologies and serving the best of our client needs.

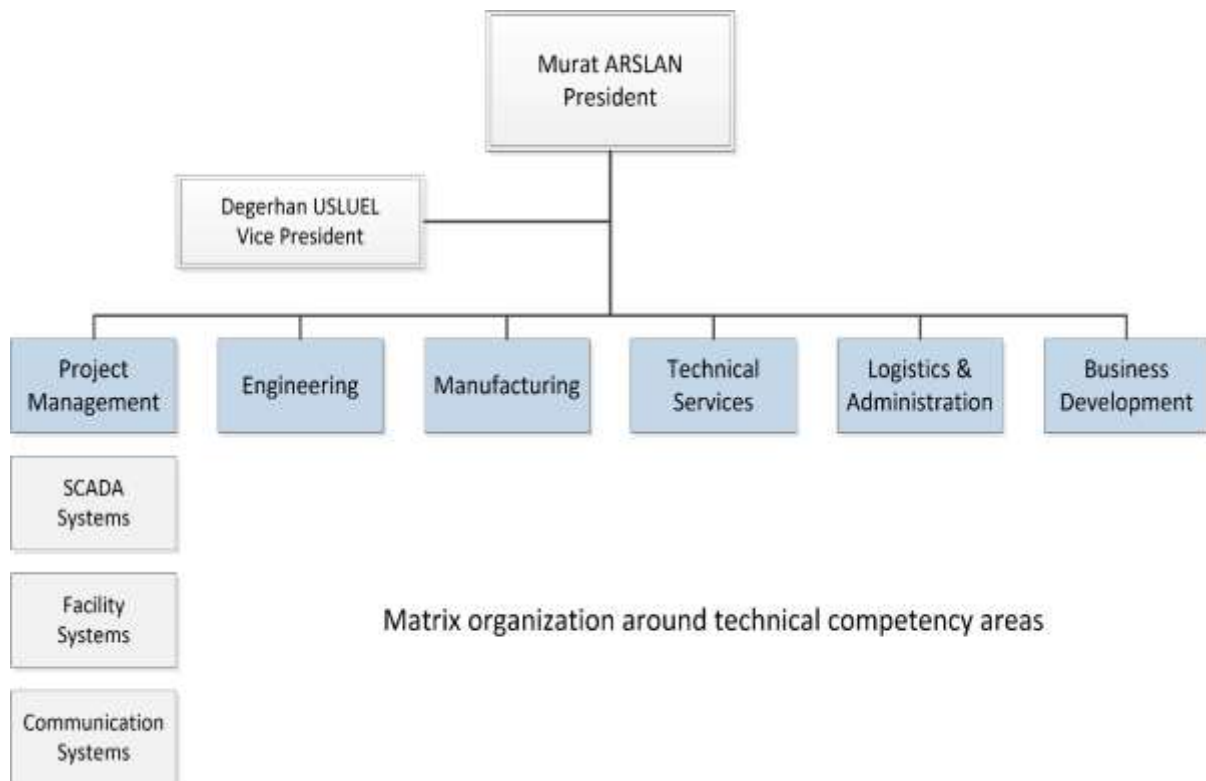


**Table 1 Group Profile**

## 2. COMPANY PROFILE

Below headlines briefs Uskom profile :

- Company Name Uskom Telekomunikasyon Sistemleri A.S.
- Legal form and founding year Corporation (Anonim Şirket), 2001
- General Manager Murat Arslan
- Shareholders Usluel Enerji, Arslan Telekomunikasyon
- Key business Telecommunication, Scada, Control & Protection and Security systems
- Main Sectors Electricity, Transport, Oil & Gas
- Export Countries Turkmenistan, Afghanistan, Saudi Arabia, Iraq, UAE, Uzbekistan, Haiti, Liberia, Nigeria and others
- Manufacturing locations Istanbul, Ankara (Soon in Germany)
- Organization chart Below



**Table 2 Uskom Organizational Structure**

### 3. FIELD of ACTIVITIES

Uskom is a turn-key communication & control systems integrator/manufacturer, contractor and has partnerships with communication system manufacturers and its geographic area of operations extend to cover Turkey, Poland, Abu Dhabi, Iraq, Germany, Afghanistan, Azerbaijan, Saudi Arabia, Georgia, Turkmenistan, Uzbekistan, Kazakhstan, Kosovo, Bulgaria, Nigeria and others.

Uskom mission within its area is system integration and high-tech contracting with full in house engineering capabilities and provide high quality aftersales support.

All of Uskom Lead Engineers are certified by their partners in design, installation, commissioning & maintenance of telecom systems and integration with other manufacturer systems.

Uskom has been certified as an integrator / manufacturer for SDH, Microwave Links, Tetra Radio Systems, Protection and Control, Power Line Carrier Systems, Multiplexers, SCADA Systems, Security Systems and equipment.



**Figure 1 Uskom PLC System in Saudi Arabia**

**(Leftmost: Uskom commissioning engineer, 2<sup>nd</sup> and 3<sup>rd</sup> from left: Saudi Electric Co. Engineers)**

Thanks to Uskom's powerful integration and manufacturing capabilities, Uskom provides a very wide range of system solutions with support of its COT manufacturing partners.

However, besides these solutions, when a client has a special request or a need may arise for a tailor made solution, Uskom as well designs, develops and manufactures hardware and software products.

Uskom has acquired over years a multidiscipline know-how allowing Uskom to meet specific client requests with tailor-made solutions developed in house. These solutions are not COT solutions and a development effort together with client is needed. Such tailor made solutions are not easily handled by individual system manufacturers or suppliers since the solution requires HW and SW expertise in a multidisciplinary environment, know-how, and dedication for this development effort.

Uskom confirms its stand and commitment to serve its clients with solutions where specific tailor made solutions are required.

Some of these specific products are herein described.

- USKOM Omnimot : Meter Automation System
- USKOM Velmotix: Unified Control Center System
- USKOM Signaling System Interfaces
- USKOM (OnBoard) Radio Equipment

All above products hardware and software is developed by Uskom and manufactured at Uskom facilities.

Uskom radio on board solutions presently operate over Alstom and Hyundai Rotem trains in Istanbul. The control centers for all radio on board systems are completely designed and manufactured by Uskom as well.

Uskom has an extensive heritage of engineering and services culture. The capability of execution extend from a single site simple system solution to very large turn-key EPC contracts covering nationwide solutions and complex integrated systems in multi disciplines. Engineering is the stronghold of the company and training is the key service provided to all of Uskom End-Users for a trouble free operation and maximum utilization of the delivery.

Uskom has its own products for DDF, ODF, MDF and designs and manufactures system cubicles and integrate systems in the cubicles. For these systems, with its integration capabilities of its partner products, Uskom has been as well certified as a manufacturer by Chamber of Industry.



**Figure 2 Uskom FAT Hall, FAT for LBGBV National SCADA Load Control Center**

Uskom has established strategic business cooperation agreements with Sagem, OTN, DNWP, Ericsson, SIAE, 4RF, Huawei, Fiberhome, Tejas (France/Belgium/Italy/Sweden/New Zealand/China/India) for digital transmission networks such as SDH/PDH MW, FO terminals and multiplexers, Selta, Siemens, Tesmec, ZIV, ABB (Italy, Germany, Spain, Switzerland) for PLC, PSE, Selta (Italy) for PABX, Selta, Siemens, ABB for RTU (Italy, Germany) Rohill, Motorola, Tait, Zetron (USA, UK, Netherlands) for Tetra and trunked mobile radio systems and paging consoles. Uskom has also subsidiaries abroad and these play an important role in Uskom's international projects and performs some of Uskom's international purchasing activities.



**Figure 3 Uskom PLC, PSE, DC, Multiplexer Cabinets in Balkanabat, Turkmenistan**



With these alliances merged with Uskom engineering and contracting capabilities, Uskom serves in Turkey and neighbor country government & utility networks and general contractors mainly with following lines of application :

- Electric & power company networks
- Railways, metro and tram networks
- Oil & Oil Pipeline company networks
- Broadcast, Information & Security networks
- Telecom Company networks (Fixed + wireless)
- Water & water pipeline company networks
- Internet Service Providers (ISP)



**Figure 4 Uskom Multiplexer System in Al Ameen S/S, Iraq**

With concrete engineering and actual on-site experience, Company has full know-how starting from engineering up to acceptance in the following specific telecommunication and control system fields:

- SDH & PDH fiber optic & MW radio systems
- Terminal & D/I multiplexers and X-Connects
- Power Line Carrier (PLC), Line Tuner & Line Traps
- UHF & VHF fixed, Tetra, conventional and & mobile radio systems
- RF Coverage in areas such as metro & highway tunnels
- 500/400/220/132/110/33KV Protection and Control Systems
- PABX and Dispatcher Telephone Systems
- Remote Terminal Units & Local SS Automation SCADA systems
- Load Control Centers (SCADA/EMS/DMS)
- Fiber Optic (U/G, ADSS & OPGW)
- DC, AC and Solar Power Plants for TLC applications





- Active & Passively cooled TLC shelters including U/G applications
- Telecommunication tower & antenna systems
- Fire Alarm, Fire Extinguishing, CCTV, Public Address, Access, turnstile and security systems
- TV/Audio program transmitters and studios
- GSM network infrastructure with 900/1800 bands



**Figure 5 Equipment Container including SDH/Multiplexer/PABX/RTU/PLC/PSE  
for Buzurgan Power Plant Iraq**

The capabilities of Uskom include:

**Initial Phase:** Consultancy services for network design and assistance in preparation of project specifications

**Tendering Phase:**

- Make local alliances
- Carry out preliminary engineering and design of the system
- Provide a competitive offer following surveys and meetings with the customer for a bid to the specific needs of the customer

**Implementation Phase:**

- Establishing Project Office
- Supervision or turn-key installation, testing & commissioning as may be required

- Professional Project Management intended for a timely and smooth completion of the contract

**After Sales Phase:**

- Maintenance activities
- Training for engineer and technicians
- Training Center Establishment (If required)
- Work with customer for continuous upgrades of system in line with needs and new developments

Presently, Uskom has a large portfolio of contracts with public and utility companies in Turkey, Iraq, Abu Dhabi, Afghanistan, Saudi Arabia, Turkmenistan, Uzbekistan, Poland, Kosovo, Nigeria & Bulgaria.

#### 4. STRATEGIC ORIENTATION & QUALITY

Uskom stands out with strong, stable, sustainable operation open to developments to keep up with latest technologies and serving the best of our client needs.

Today, we are a unique Turkish company with full Turkish capital that has experience in turnkey National Load Dispatch and SCADA Centers in the world. In this field, as a Turkish company competing with many Internationally respected brands, we have gained a place in the world market. Being competitive in prices is important in all markets today. However, the trust provided by our technical solutions and experience prevents only price-based competition in sectors serving critical system infrastructures. In our National Load Dispatch and SCADA projects, our technical infrastructure and solutions have been the preferential factor for the awards we have got.

Uskom's growth strategy is to expand business activities by adding new fields to existing sectors and increasing business capacity by expanding to a wider geographic coverage.



**Figure 6 Uskom SCADA National Load Control Center Opening Ceremony in Afghanistan**

By the beginning of 2023, we are looking forward to take a share in the North American market with Uskom Corporation, which was established in Boston, USA with 100% Uskom capital. One of the main reasons we chose Boston is to serve strengthening our technological infrastructure with research and development activities in this city, which has the best universities in the world. In addition, we wish to add our name in North American infrastructure investments by using our knowledge and experience in our field.

In addition, we have started our operations in Germany and have established 2 new companies with the names Uskom GmbH and Uskom Telekommunikation GmbH and our 1<sup>st</sup> contract is foreseen to start by Mid 2022 for Deutsche Telekom network services.

So far, we have provided our services in 15 countries in the world. In these countries, our activities were carried out either through our EPC partners or representatives. In addition, we have 3 overseas companies operating under the name Uskom in USA, Afghanistan, Erbil (Iraq) and a coshared operation in Libya within our Usluel Group. Afghanistan and Erbil plays an important role in the follow-up of new projects in these territories in addition to supporting our existing projects. In USA, R & D and work is being carried out for new business opportunities in the Americas. Libya is one of our target countries which we would wish to serve and remain. We plan another overseas company in Liberia and it will look after our West African operations. This is planned to be operational by the 4th quarter of 2022.

In addition to our personnel in Turkey, we have 24 people who are currently employed in our overseas units. Besides a large base in Turkey, Uskom has also carried out projects in Iraq, Afghanistan, Bulgaria, Kosovo, Nigeria, Egypt, Haiti, Denmark, Turkmenistan, United Arab Emirates, Saudi Arabia, Pakistan, Uzbekistan and Liberia.

Uskom has a scalable R&D department and till now this department has developed our own Passenger Information Systems, On-Board Communication Equipments, Emergency Announcement System Control Centers and Wireless Radio Central Dispatcher systems used in Rail System projects. The software and hardware of these systems belong to Uskom and all of them are already operational in Istanbul Subways. These systems increase Uskom's strength in its fields of activity and at the same time enhance its integration and solution capabilities. In the field of Energy, Omnimot Meter Management and Central reporting system has also been developed and installed in Turkmenistan.

We assign 5% of our annual turnover for our R & D activities. Our objective in 2019 and beyond is to invest more in technology and to make marketing of our products more actively in abroad.

Our main principle is to take steps for continuous improvements at every stage of the business process, foreseeing the sustainability of the business and to move to new areas without hesitation and with enthusiasm while keeping customer and employee satisfaction at the forefront. Gaining trust, producing solutions, working hard and below are the keys to our success.

- Usluel Group's synergy and contribution to development
- Having highly qualified engineers and technicians
- Supporting our activities with our R & D activities
- To give importance to documentation and standardization
- Being keen on best product and service quality
- Making continuous improvements at every stage of the business process
- Considering the suggestions of employees and customers
- Prioritize customer and employee satisfaction
- Being open to new geographies and services

- Support and contribute the personal development of employees

Uskom targets to present its clients the most advanced and relative level in technology and safeguarding its position as a top technology-exporter organization.



5. QUALITY CERTIFICATES

- ISO 9001, Quality Management System
- ISO 14001, Environmental Management System
- OHSAS 18001, Occupational Health and Safety Management System
- ISO 27001, Information Security Management System







## SELECTED REFERENCES V29

Project	Al Qaim 400KV Substation for GE
Content	PLC, PSE, PABX
Status	Under implementation
Project	NT 78 for Siemens
Content	SDH Mux, PLC, PSE, CCTV, PABX
Status	Under implementation
Project	Nassiriyah South 400KV Substation for Al Iemar
Content	SDH Mux, SCADA, PLC, PSE, PABX, Fire Alarm, Control & Protection System
Status	Under implementation
Project	Al Sader Al Hindia 132/33kV Substations GIS for GE
Content	Telecommunication, PDH-SDH Mux
Status	Under implementation
Project	Al Hamudhia 400kV Substation for Siemens
Content	PLC, PABX , LMU and Optical Communication System
Status	Completed
Project	Sabiha Gokcen Airport Metro Project
Content	Radio/PA/PIS
Status	Completed
Project	Gayrettepe – Istanbul 3 <sup>rd</sup> Airport Metro Project
Content	SDH Optic Transmission System
Status	Completed
Project	Halkalı – Istanbul 3 <sup>rd</sup> Airport Metro Project
Content	SDH Optic Transmission System
Status	Under Implementation
Project	Uskudar Umraniye Metro Project
Content	Tetra Radio System, Tetra Command Control System
Status	Completed
Project	Umraniye Goztepe Atasehir Metro Project
Content	Tetra Radio System
Status	Under Implementation



Project	Eminonu-Alibeykoy Tram Line Project
Content	Tetra Radio System
Status	Completed
Project	İkitelli-Ataköy Line Metro Project (11 Stations)
Content	IP-MPLS Optic Systems , Tetra and RF Coverage, Telephone, PA, PIS, FAS, Clock, ACS
Status	Under implementation
Project	Saudi Arabia Yanbu Medina WPP Telecom Project for Honeywell
Content	Optical Communication System, Telephone System
Status	Under implementation
Project	Başakşehir-Kayaşehir Line Metro Project (4 Stations)
Content	IP-MPLS Optic Systems , Tetra and RF Coverage, Telephone, PA, PIS, FAS, Clock, ACS
Status	Under implementation
Project	500KV Arghande SS - SCADA, CRP and Comms
Content	SCADA, SDH, PABX, RTU, Protection and Control for 500KV SS for DABS
Status	Under implementation
Project	Enerjisa 68 SS Project
Content	RTUs, Protection & Control, SS Adaptation in 3 Cities
Status	Completed
Project	Kirazlı - Bakırköy Line Metro Project (7 Stations)
Content	IP-MPLS Optic Systems, Tetra and RF Coverage, Telephone, PA, PIS, FAS, Clock, ACS
Status	Under implementation
Project	Power Management System (PMS) for Al-Dhakhira Sewage Treatment Works, at Al Khor, Qatar
Content	PMS RTU Cabinet and FAT
Status	Completed
Project	Basrah Steel Project 132 KV Substation Communication System
Content	PABX , MUX , Scada , RTU and Power Supply
Status	Completed
Project	Uzbekhstan Takhiatash Combined Cycle Plant
Content	Substation Automation System and RTU
Status	Completed



Project	Algeria Periphery South HGA Hassi Messaoud
Content	PMS Cabinets
Status	Completed
Project	Abu Dhabi OTS for PMS
Content	PMS and OTS Cabinets
Status	Completed
Project	13SS Project - 132/33kV Substation for Siemens
Content	PABX, ODF, MDF
Status	Completed
Project	SCADA Load Control Center KRG MOE in Erbil
Content	SCADA Control Center, PABX, RTU, SDH, DC System at Erbil, Duhok, Suly 54 S/Ss
Status	Completed
Project	110kV Pushmol SCADA, CRP and Comms
Content	SCADA,SDH, Radio, PLC, PABX, RTU, Protection and Control 110KV SS for USACE
Status	Completed
Project	110kV Maiwand SCADA, CRP and Comms
Content	SCADA, SDH, Radio, PLC, PABX, RTU, Protection and Control 110KV SS for USACE
Status	Completed
Project	220kV Chimtala TR Extension
Content	SCADA, SDH, Radio, PABX, RTU at 220KV SS for Kalpataru
Status	Under implementation
Project	220kV Pul-E-Alam SCADA, CRP and Comms
Content	SCADA, SDH, Radio, PLC, PABX, RTU, Protection and Control 220KV SS for USACE
Status	Completed
Project	220KV Pul-E-Khumri TR Extension
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for USACE
Status	Completed
Project	110kV Kabul North TR Extension
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for USACE
Status	Completed
Project	110kV Kabul North West TR Extension
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for USACE
Status	Completed



Project	110kV Pul-e Charki TR Extension
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for USACE
Status	Completed
Project	110kV Breshna Kot TR Extension
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for USACE
Status	Completed
Project	500kV Arghande SS
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for Techno Co.
Status	Completed
Project	220kV Salang Tunnel SS
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for Usluel & Omron JV
Status	Completed
Project	220kV Al Qasaba SS
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for Zadran Group
Status	Completed
Project	220kV Mazar-e Sharif TR Extension
Content	SCADA, SDH, PABX, RTU, Protection and Control 220KV SS for Siemens
Status	Completed
Project	Enerjisa Toroslar ADP-2 SCADA/DMS System
Content	RTUs, Protection & Control and Adaptation in 77 S/Ss
Status	Completed
Project	Boğaziçi EDAS SCADA/DMS System
Content	RTUs, Protection & Control and Adaptation in 100 S/Ss for Armin
Status	Completed
Project	Uludag EDAS SCADA/DMS System
Content	RTUs, Protection & Control and Adaptation in 200 S/Ss for Armin
Status	Completed
Project	Enerjisa Toroslar ADP-1 SCADA/DMS System
Content	SCADA CC, RTUs, Protection & Control and Adaptation in 235 S/Ss
Status	Completed
Project	Iraq NT 54 Project
Content	SDH/Mux/PABX/CCTV/Fire Alarm for Siemens
Status	Completed



Project	380KV Atasehir GIS SS – Protection and Control and SS Automation
Content	Local SCADA, Protection and Control for 380KV SS for GE
Status	Completed
Project	Qudus Project
Content	SDH/Mux/PABX/CCTV/Fire Alarm
Status	Completed
Project	Iraq Hanwha/NIC Bismaya Project
Content	CCTV/PABX System for 35 S/Ss
Status	Completed
Project	380KV Çan SS – Telecom, Protection and Control and SS Automation
Content	Local SCADA, SDH, PABX, Protection and Control for 380KV SS for Usuel
Status	Completed
Project	Kartal Kaynarca Metro Line
Content	Tetra Radio, Public Address and CC
Status	Completed
Project	Turkmenistan Watan PP
Content	MW Radio/PLC/PABX
Status	Completed
Project	Afghanistan Gulbahar S/S Project for Metro
Content	SDH, RTU, SCADA, PABX
Status	Completed
Project	Turkmenistan 220 KV Ahal and Derweze SS
Content	SDH/MW radio/PLC/SS Automation/RTU/PABX/Control & Protection for 2x220 KV SS
Status	Completed
Project	Istanbul Metro Hisarüstü Line
Content	SDH/Mux/PABX/PA/PIS/Clock/Tetra Radio
Status	Completed
Project	Istanbul Ulaşım İstanbul Tetra System
Content	Tetra Switch/Base Station/Infrastructure/RF Optimization
Status	Completed
Project	Iraq NT51 Project for Siemens
Content	SDH/Mux/PABX/CCTV/Fire Alarm
Status	Completed



Project	Afghanistan Gardez Syedabad Project for KEC
Content	SDH, Mobile Radio, RTU, SCADA, PABX
Status	Completed
Project	Sakarya OSB SCADA/Metering System
Content	SCADA/Metering/RTU/SDH
Status	Completed
Project	Rumaila PP Project for Hyundai
Content	PMP MW/PABX/MUX
Status	Completed
Project	Iraq NT N14 Project for LS Industries
Content	PLC/SDH/Mux/PABX/CCTV/Fire Alarm
Status	Completed
Project	Iraq NT43 Project for LS Industries
Content	PLC/SDH/Mux/PABX/CCTV/Fire Alarm
Status	Completed
Project	Iraq NT6 Project for Siemens
Content	PLC/PSE
Status	Completed
Project	Iraq NT33 Project for Alstom
Content	PABX/CCTV/RTU/Fire Alarm
Status	Completed
Project	Iraq NT38 Project for LS Industries
Content	PLC/SDH/Mux/PABX/CCTV/Fire Alarm
Status	Completed
Project	Istanbul Metro Kadıköy – Kartal Line for AMG and Thales
Content	Command Control Center / Tetra and MW System
Status	Completed
Project	Iraq NT96 – NT16 Project for LS Industries
Content	PLC/SDH/Mux/PABX/CCTV/Fire Alarm
Status	Completed
Project	USAID Afghan National SCADA Control Center
Content	SCADA/SDH/RTU/Metering/WD/PABX for LBGBVJV
Status	Completed



Project	Iraq NT2 Project for Siemens
Content	PLC/PSE/SDH/Mux/PABX/Fire Alarm
Status	Completed
Project	Iraq NT1 Project
Content	PLC/PSE/PABX/FA for Siemens
Status	Completed
Project	Iraq NT117 Project for Siemens
Content	PLC/PSE/PABX/Fire Alarm
Status	Completed
Project	Abu Dhabi Ruwais Project
Content	SDH/FMX/PABX/GA/PSE
Status	Completed
Project	Iraq Taji Power Plant Project
Content	SDH/Mux/RTU/PABX/MW for Uruk
Status	Completed
Project	Poyraz RES Comms & S/S SCADA System
Content	SDH/FMX/PABX/Modems/LL/Substation SCADA
Status	Completed
Project	MOE 5 Siemens PP (Rumaila, Dibis, Baiji, Sadder) Project
Content	PLC/SDH/Mux/PABX/MW for Siemens
Status	Completed
Project	Doruk HES Comms & S/S SCADA System
Content	SDH/FMX/PABX/Modems/LL/Substation SCADA
Status	Completed
Project	Afghanistan Kandahar 236 Dist. Transformers Metering
Content	0.2s meters/GPRS Modems
Status	Completed
Project	Kozbeyli RES Comms & S/S SCADA System
Content	SDH/FMX/PABX/Modems/LL/Substation SCADA
Status	Completed
Project	Iraq MOE ETP NT75 Project
Content	PABX/Mux/MW Radio/Cabinets for PLC for Siemens
Status	Completed



Project	Kabil City Pilot for Transformer Metering and Control
Content	0.2s meters/GPRS Modems/Controlled Cct Breakers
Status	Completed
Project	Abu Dhabi Ajman Project
Content	SDH/FMX/PABX/GA/PSE
Status	Completed
Project	Iraq MOE ETP NT30 Project
Content	PLC/PSE/PABX/SDH/MW for Siemens
Status	Completed
Project	Kepezkaya Comms & SCADA System
Content	SDH/FMX/PABX/Modems/LL/RTU
Status	Completed
Project	Iraq MOE ETP NT83 Project
Content	PABX/Mux/MW Radio/Cabinets for PLC for Siemens
Status	Completed
Project	Iraq MOE ETP NT49 Project
Content	PABX/Mux/MW Radio/Cabinets for PLC for Siemens
Status	Completed
Project	Borusan Yedigöl Comms & SCADA System
Content	SDH/FMX/PABX/Modems/LL/RTU
Status	Completed
Project	Feke Comms System
Content	SDH/FMX/PABX/Modems/LL
Status	Completed
Project	Antalya LRT Tetra System
Content	Tetra Switch / Base Station / Infrastructure
Status	Completed
Project	Iraq MOE ETP N33-38 Project
Content	PLC/PSE/PABX for Siemens
Status	Completed
Project	Turkmenenergo – Avaza P/P Comms System
Content	PLC, Multiplexer, MW, PABX
Status	Under implementation





Project	Abu Dhabi ICAD Project
Content	SDH/FMX/PABX/GA/PSE
Status	Completed
Project	Iraq MOE ETP NT17 Project
Content	PLC/PSE/PABX/Mux/MW/DC for ETP
Status	Completed
Project	Iraq MOE ETP NT26 Project Comms System
Content	PLC/PSE/PABX/Mux for Siemens
Status	Completed
Project	Turkmenistan Electric Co.– Akhal P/P Comms and SCADA
Content	Multiplexer, MW, PABX
Status	Completed
Project	Abu Dhabi Water Distribution Project Comms System
Content	SDH/FMX
Status	Completed
Project	Istanbul Metro Taksim 3rd Phase – H.Osman Line
Content	SDH/MUX/PABX/CCTV/PA/PIS/Access/Clock for ALMAK
Status	Completed
Project	Iraq MOE ETP NT18 Project Comms System
Content	PLC/PSE/PABX for Siemens
Status	Completed
Project	Iraq MOE ETP NT15 Project Comms System
Content	PLC/PSE/PABX/Mux for Siemens
Status	Completed
Project	Istanbul Metro Taksim 2nd Phase – Yenikapı Line for Alarko
Content	SDH/MUX/CCTV/PA/PIS/Access/Clock
Status	Under implementation
Project	Abu Dhabi Ras Al Khaimah Project
Content	SDH/FMX/PABX/GA/PSE
Status	Completed
Project	Iraq Ghammas S/S Project Comms System
Content	PLC/PSE/PABX for Siemens
Status	Completed



Project	Çolakoğlu Dilovası Comms & SCADA System
Content	SDH/FMX/PSE/PABX/Modems/LL/SCADA/RTU
Status	Completed
Project	Nigerian Agip Oil Company - Comms System
Content	MW/Mux/Shelter
Status	Completed
Project	Istanbul Ulaşım A.Ş. – LRT SDH & Management System
Content	SDH (STM-1/4/16) and IONOS NMS System
Status	Completed
Project	Modern Enerji Comms System
Content	SDH/FMX/PSE/PABX/Modems/LL
Status	Completed
Project	Iraq M.of Oil – Daura-Shuiaba Pipeline Comms System
Content	FOC, SDH, FMX, NMS, PABX, Mobile Radio, Dispatcher
Status	Completed
Project	Iraq WII / MOE SCADA System Refurbishment Project
Content	MW Radio Links and Multiplexers
Status	Completed
Project	Abu Dhabi Sweihan Project
Content	SDH/FMX/PABX/GA/CCTV/PSE
Status	Completed
Project	Gaziantep OSB Comms System
Content	Mux/PABX/Modems/LL
Status	Completed
Project	Iraq - Basrah 4 CPS S/S Project Comms System
Content	PLC/PSE/PABX/MW/Mux
Status	Completed
Project	Mersin Soda Comms System
Content	SDH/FMX/PSE/PABX/Modems/LL
Status	Completed
Project	Karadeniz Enerji Silopi Comms System
Content	PABX/Modems
Status	Completed



Project	Basrah 6 CPS S/S Project Comms System
Content	PLC/PSE/PABX/MW/Mux for Siemens
Status	Completed
Project	Bares Rüzgar Santrali Comms & SCADA System
Content	SDH/FMX/PSE/PABX/Modems/LL/RTU
Status	Completed
Project	TEİAŞ 10 site FO SDH System
Content	SDH/FMX
Status	Completed
Project	Çerkezköy OSB Comms System
Content	SDH/FMX/PSE/PABX/Modems/LL
Status	Completed
Project	Abu Dhabi ADWEA Fujairah Project
Content	SDH/FMX/PABX/GA/CCTV/PSE
Status	Completed
Project	Istanbul Sultanciftligi Fast Tram System, 1st section
Content	FO, SDH, Turnstiles
Status	Completed
Project	Göлтаş Çimento Comms System
Content	SDH/FMX/PSE/PABX/Modems/LL
Status	Completed
Project	Iraq Electric Co. – Amara/Buzurgan P/P
Content	SDH/FMX/PABX/DECT/PLC/PSE/RTU for Shaw
Status	Completed
Project	Iraq Electric Co. - Al Ameen S/S
Content	FMX/HDSL/PSE for Kellog Brown and Root
Status	Completed
Project	Akenerji Yalova P/P
Content	SDH/FMX/PSE/PABX/Modems/LL
Status	Completed
Project	Akenerji Kemalpaşa P/P
Content	SDH/FMX/PSE/PABX/Modems/LL
Status	Completed



Project	Istanbul Zeytinburnu – Bagcilar Fast Tram System
Content	FO, SDH, PABX, PA, SCADA, Turnstiles, TETRA Radio
Status	Completed
Project	Iraq Electric Co. North Samara 400KV S/S
Content	PLC/PSE/PABX/MW/Mux/Intruder/PA/CCTV for Siemens
Status	Completed
Project	Istanbul Eminonu-Kabatas Tram Line
Content	FO, SDH, PABX, SCADA, Turnstiles, TETRA Radio
Status	Completed
Project	Iraq Electric Co. – BW & Akarkoof
Content	PLC/PSE for Siemens
Status	Completed
Project	Abu Dhabi ADWEA E19 Project
Content	SDH/FMX/PABX/GA/CCTV/PSE for Siemens Munich
Status	Completed
Project	Iraq Electric Co. – Baiji 400KV S/S
Content	FMX/PABX/MW Radio/PSE for ODEBRECHT
Status	Completed
Project	Poland – Eurocentrum Complex
Content	FO, SDH, PABX, CCTV, PA, Turnstile
Status	Completed
Project	Copenhagen – Underground Metro
Content	Train P.A., Passenger Info & CCTV technical assistance
Status	Completed
Project	Istanbul Metro Railway Comms System
Content	Trunked Mobile Radio System
Status	Completed
Project	Iraq Electric Co. / 7/2000 Project
Content	PLC/TPS/PABX/SCADA
Status	Completed
Project	Aria GSM 1800 System – 4 Cities in East
Content	Implementation of 58 BTS + 4 BSC
Status	Completed



Project	Police Force MW Links - Ankara
Content	MW Radio / FMX / NMS
Status	Completed
Project	Iraq Electric Co. Taji S/S
Content	PLC/PSE/PABX
Status	Completed
Project	Iraq Electric Co. 174/2000 Project
Content	PLC/PSE/PABX/SDH/FO/FMX for Siemens
Status	Completed
Project	Turkish Electric Co. National Load Dispatch Center
Content	Nationwide PABX / Dispatcher & Data system for Siemens
Status	Completed
Project	Turkmenistan – Balkanabad Electric Co.
Content	Multiplexer, HDSL, PABX, PLC, LMU,LT comms system
Status	Completed
Project	Saudi Arabia – Juba P.P.
Content	PLC, PABX, PSE Comms system
Status	Completed
Project	Saudi SWCC Pipeline Projects
Content	FMX commissioning along the water pipeline
Status	Completed