GCG Company Profile

Technology Integration Division

مجمـوعـة الخليـج التجـاريـة
Gulf Commercial Group
ENGINEERING SERVICES

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Who Are We

Gulf Commercial Group was established in 1982 by a prominent UAE businessman and has evolved into an international renowned product and service supply company, provider for the UAE market.

GCG's Divisions

GCG Engineering Services Division – General Trading of Electronic Precisions Instruments, Transmitters, Flow Meters, Pumps, Vibration Monitoring and Telecommunication Equipment specialized in Oil & Gas Fields.

Moreover the GCG Engineering Services Division includes a specialized team providing a state of the art integrated technology solutions covering the UAE and IRAQ. As system integrators and solution providers, GCG Engineering Services involvement cycle emerges from consultancy services, project design, project management, turnkey solutions to annual maintenance contracts. GCG's team core value is "Helping To Maximize The Client Performance" through delivering Total Integrated Solutions, based on the latest technology, providing added value services.

Through its strategic alliances with well known vendors, GCG Engineering Services has established an outstanding reputation in meeting its clients' requirements through premium quality standards, after-sale service and technical support.

GCG Digital Documents Solution Division – A leading provider of digital document solutions, with two branches in Abu Dhabi and Dubai with full staff to support the entire U.A.E. market.

GCG-DDS is the authorized distributor for the whole range of Kyocera Mita – Copiers/Printers & Multifunctional Devices in the United Arab Emirates; also the sole and exclusive distributor of DANKA/KODAK office Copiers/Printers.

GCG-DDS strength lies on reliable and cost effective solutions where the focus sets on Total Cost of Ownership.

GCG-DDS has the largest installation base of color copiers in the market and has been aggressively expanding its product portfolio.

GCG Interiors Division – Interior Consultancy and Turnkey (Contracting).

The GCG Interiors is another division of the group deals with decorations and turnkey, It has a large clientele and boasts of some of the big names in the industry.

GCG Engineering Services

Our Mission

To become the preferred supplier for engineering services and integrated solutions to our valued customers in the diversified market segments we serve.

Our Vision

To be the leading business organization in the GCG region by meeting and exceeding customer expectations to achieve their business objectives and maximize their performance.

Our People

Considered as the most valuable assets, GCG team of professionals and engineers are manufacturer trained and certified with outstanding performance record that revolves around one concept "Client Satisfaction".

Facts and Figures

- o Part of Ghobash Trading Investment Company (Over 1 billion AED Turnover in 2011)
- o Offices: Abu Dhabi, Dubai and Iraq.
- o More than 238 professional staff
- o Quality Management through ISO 9001:2008
- o Ability to commit and deliver
- o Application Oriented Pre-Sales Team: Oil & Gas, Green ICT, Home Automation, Security, Energy Management and FTTx.

What do we offer

- o Telecommunication Solutions
- o Security Solutions
- o Home Automation
- o Energy Management
- o Services (Project Management, Technical Services, Maintenance & Service Contracts)

Market we serve

GCG Engineering Services has been providing solutions and services to both private and public sectors in the following markets:
- o Oil and Gas
- o Hotel and Resorts
- o Commercial Buildings
- o Conference and Exhibition Centres
- o Law Enforcement Institutions
- o Financial Institutes and Banks

- o Governmental and Educational Institutions
- o Health Care Sector

Our portfolio includes a prestigious turn key projects that were designed, implemented, maintained and serviced by GCG's professional staff all across the UAE and IRAQ.

Our Partners

Our carefully selected Principals depend on us to take their high quality products and services to the UAE markets, something that we are respected for doing well. Our openly nurtured ideals of "trust and respect" – the cornerstones of business partnerships – ensure that our Principals afford GCG and its customers, the highest levels of support possible.

Today we have the best manpower trained to extend our services to companies and individuals.

We strive to keep our high quality at reasonable prices and our main objective is to satisfy the customers through extraordinary quality and service.

Over the years GCG Services developed a unique and refined management style. This is achieved through its experienced staff; using the latest technologies, ensuring the utmost satisfaction of its clients.

3M	**:** Structured Cabling Solution and Wan Infrastructure
AXIS	**:** IP Based Surveillance Systems
Leviton	**:** Physical Media Layer for Data Center
Honeywell	**:** Access Control, CCTV

Our Integrated Solutions

Telecommunication Solutions

Media infrastructure has become as essential part of any network. It's considered as the backbone that enhances the productivity for all corporate employees, by providing fat access to information and resources. Telecommunication network provides the basic considerations for future growth. Upgrading a network not designed for growth and expansion is the biggest negative impact for any corporate ROI. Our network infrastructure solutions include but not limited to:

- Structure Cabling Solution
- Access and WAN network Solution
- Data Centre Connectivity Solutions

Structure Cabling Solution

GCG expert team has all the credentials so conduct an assessment for any existing infrastructure and provide the adequate report stating the enhancement that needs to be done in line with your business needs taking into consideration your intended growth.

As network speeds increase customers are demanding extra flexibility from their passive network, which must be future proof and easy to install and maintain. GCG offers full data cabling systems in both copper and optical fiber, giving freedom of choice in the design and optimisation of the overall network architecture.

As network speeds are increasing and more demands are put on the data centre, GCG uses a variety of easy to install, innovative connectivity solutions to ensure a high performance, reliable data cabling system that is simple to maintain. The data cabling range includes all the products required for passive cabling from low data rates to 10Gbit/s performance, including patch cords, connectors, cable and associated hardware. The data cabling solutions are supported by a 20 year system warranty.

Access and WAN network solution

In addition, the installation and extension of public telecommunications networks require innovative solutions to allow them to operate as cost-effective, secure and future-oriented. Due to the long-term partnerships with 3M telecommunications division, GCG understands the requirements of local service providers as well as national or international telecommunications operators. This is why we have partnered with 3M telecommunications since they have played a leading role in consultancy services, development, production and sales of components and systems, for decades within all major telecommunications markets around the world.

3M Telecommunications have repeatedly set new standards with solutions for every aspect of Access and Next Generations Access networks, from the invention of IDC technology to complete hand-held diagnostic equipment supply.

Our access application solution, for both copper and fiber, covers the central office area, outside plant, till the last mile connections covering as well the customer premises.

Data Centre Solutions

Today's enterprise and business relies on data centers, computer rooms as key to enabling important business initiatives. GCG can provide your data centers with the below mentioned solutions:

- Fiber Networks
- Copper Networks
- Power Distribution Units
- Surge Protective Devices
- UPS
- Security
- Raceway Cable Management
- Wiring Devices
- Cooling Systems
- Racks
- Environmental Monitoring System

Our integrated solution are specifically designed for data center environments that required unsurpassed performance, flexibility, reliability and scalability. We help our customer in the design phase, having in mind that their data center should be modular, mobile, reliable and efficient. Those criteria's can only be met by using top notch products from our partners. Our Solution minimizes the installation time and system down time.

Security Solutions

To extend our services to our clients. GCG has added to its portfolio security system that includes but not limited to:

- CCTV and Surveillance Systems
- Access Control Systems
- IP Cameras
- Biometric Access Control and Time Attendance
- Wireless Solar Powered CCTV System

CCTV and Surveillance Systems

GCG provides solutions for monitoring critical areas varying form: VIP security area, a construction site, home, office, public areas or any other place using either an IP based system or analogue cameras depending on the application and client requirements. Recording capabilities from these cameras could be from number of days or even number of month to be stored locally or on a central location using Ethernet or Service Provider lines on Digital Versatile Recorders with additional features like motion detection, high compression of video signals, using the latest video compression technologies in various video formats. With the use of high sensitivity, low lux, high resolution and IR cameras, the quality of the recorded video could be enhanced. Solutions for monitoring the cameras using Internet Explorer and integrating the Cameras with various other systems like BMS, People Counting, Access Control can be also provided independently.

CCTV, Closed Circuit Television, is today rapidly becoming a key component in modern security systems. GCG offers fully integrated and flexible CCTV surveillance monitored from one central control point to ensure safe and controlled environment to our client to prevent unauthorized access to their premises.

In line with our corporate value "Helping to Maximize your Performance", the system based on a one centralized monitoring location will provided a cost effective productivity without compromising on the high standard of safety required to optimize your OPEX to CAPEX.

The system enables security to monitor every zone in the building. GCG offers cameras that can be placed virtually anywhere out of the public eyes so that the people are not aware of its existence. GCG had the capability and experience to research , design and develop CCTV systems specific to your needs. Using GCG's surveillance system allows live or recorded digital video to be accessed from anywhere across the Local Area Network (LAN), or the Internet. Used within a broad range of industries, GCG IP-Surveillance solutions are scalable and flexible, and provide the most reliable and cost-efficient ways of accessing live and recorded digital video.

Access Control Systems

Access control security systems monitor and control access to a given area: be it a room, a building or multiple buildings in distant areas. Access control security systems ensure that only approved personnel can gain access to restricted areas and only during certain time scales specified. In the most basic form, swipe card are used to electronically permit access to restricted areas. When proximity cards are held against a proximity reader, the code is read and checked by the controller against a list of codes that have access in a split of a second. Touch less Biometric access control is the most sophisticated and secure form of access control. Biometrics Access Control system authenticate users by means of physical characteristics like fingerprints, face, palm, voice and retina patterns and removes the hassles of keys and troublesome passwords. They provide the highest level of identification security as the physical parameters are unique to each individual.

There are three different access control systems available form GCG Engineering Services Division:

In the card-based system, the options are:

- Magnetic Stripe Card
- Proximity Card

In the new realm of Biometrics, GCG offers:

- The Finger Print Access Control System

The Finger Print Access Control System take the unique human fingerprint as a unique key, to provide irrefutable personal identification. It is a self-contained terminal that enrolls and verifies users, stores their fingerprint record, keeps transaction logs and interfaces with other units.

The time and attendance and access control markets continue to experience significant growth in the use of biometric devices. Used in conjunction with labour management software, biometric devices can make a considerable contribution to the reduction of labour costs in an organization. A company's line management can eliminate card fraud and also monitor its staff's attendance in real-time. Supervisors can run a report at any time to determine which employees arrived late or are absent and follow up accordingly.

The System is easy to use. Employees punch in their number and present their hand. The number retrieves the stores template and their identity is automatically verified. The reader shows an indicator light and emits a beep to indicate an 'accept' or 'decline' signal. Beyond being a time and attendance clock, the biometric reader also has data management keys that allow for labour cost transfer when employees punch. Thus employees' labour cost can be allocated to a new cost centre as they clock on duty.

The Device can be installed as a stand-alone unit, networked or used with a modern. It can be fixed or portable and has multiple serial and parallel communication interfaces as well as Alarm Inputs and Outputs.

The System cost-effectively reduces risk, limits liability, and provides protection and privacy.

IP Cameras

Axis IP-Surveillance technology offers more cost-efficient, future-proof solutions that bridge the technological gap between the analogue and digital worlds. Axis network camera and video server solution are ideal for sharing high-quality video streams over existing computer networks. Superior to analogue video solutions. Axis IP-Surveillance means reliable and distributed access or recording of high-quality digital images.

Some of the product features that can be used in your application include:

- Alarm Motion Detection
- Video Recording
- E-mail notification
- Audio
- Analog Video Output
- Remote Camera Operation for Wide/Detailed Views
- Pan/Tilt/Zoom Control
- Full Stream Video

Connect an Axis Network camera directly to your computer network and show live images to the whole Internet community. Make personal homepages or commercial Web sites come alive. Camera images are an increasingly popular method for bringing visitors back to a Web site.

Some of the product features that can be used in your application include:

- Outdoor Use
- Connection Via LAN/Modem /Wireless Adapter

Energy Management

As the cost of energy continues to rise, businesses are looking for smarter energy management strategies. GCG offers the benefits of energy management systems from one single manufacturer, Leviton, based on one single sustainable and flexible technology platform. With one investment, you can lower your operating costs while saving energy and showing your commitment to the environment.

With the most comprehensive line of energy management products to help you save energy, meet code compliance, and even garner rebates, Leviton brings it all together to help you build a complete integrated energy management. Only Leviton takes you from start to finish with service, support and free design tools every step of the way. This means more options for delivering the ideal control solution for each application. Easy system design, easy product selection, easy installation and the best customer experience – Leviton makes it easy to be green.

Leviton offers a wide variety of controls that combine sophisticated design with state-of-the-art technology. These include dimmers, dimming racks, relays, scene controllers, timers, motion sensors, occupancy sensors and architectural controls.

For most companies, the last time they reaped significant financial benefit form a change in their lighting systems was with an upgrade to more efficient lamps and electronic ballasts. But a lot has changed since then. Now, in virtually every business, there is an opportunity to significantly reduce existing costs further by adopting newly developed energy management control systems.

GCG offers three types of solution that will optimize the energy savings and pushes any corporate to become greener and opt for a LEED certification. When lightning, security, HVAC and other building management systems are integrated into a single control system, optimal energy efficiency is one of a host of benefits. Integrated systems provide superior interoperability as well as an essential function for companies participating in load shedding programs and can garner points towards LEED certification. Those solutions are:

- Occupancy Sensors
- Z-max Relay Control Panels

Occupancy Sensors

Lighting energy consumption has climbed to over 38% of all energy used in today's commercial facilities. Add the spiraling cost of energy to the mounting impact of its production on our environment and one comes to a simple conclusion: turning lights off in unoccupied space is not only an option but a necessity. And one of the best ways to ensure that this happen is by installing occupancy sensors.

The occupancy sensor includes several benefits but not limited only to energy savings and can be summarized as the below:

- Saves on material and labour cost trough reducing fluorescent lamp life and increase lamp longevity from 3.9 to 6.8 years. Despite the fact that the energy savings from occupancy sensors remains their most compelling feature, the reduced frequency of lamp replacement over time and the associated decline in maintenance costs can also provide significant savings. And last but not least, their ease of installation makes their use a cost effective and viable energy saving alternative in both new construction and retrofit application.

TYPICAL SAVING THRU OCCUPANCY SENSORS	
TYPE OF ROOM	ENERGY SAVING %
Private Office	13 to 15 %
Open Plan Office	20 to 28 %
Classroom	40 to 46 %
Conference Room	22 to 65 %
Bathrooms	30 to 90 %
Corridors	30 to 80 %
Storage Area	45 to 80 %

- Saves on energy code compliance costs
- The need to optimize building energy performance has resulted in a variety of mandatory energy codes. Occupancy sensors provide a very cost-effective means of compliance with these codes. They also offer an easy way to achieve higher levels of voluntary certification for implementation of energy saving measures, resulting in potential income tax credits for building owners or tenants who meet these "green" standards.
- LEED voluntary certification program

The range of our sensing solution offers the widest range from passive infrared (PIR) and ultrasonic to multiple technology occupancy sensors that combine the best features of both. Leviton exclusive Dollars & Sensors software helps you determine which occupancy sensors should go where in your facility. You also get a quick, accurate payback analysis on your occupancy sensors investment. Dollars & Sensors will do for you in minutes what it takes other programs to complete in a week.

GCG trained team along with the assistance of Leviton technical team stand ready with a host of helpful services to assure your project's success. The team includes Lightning Control Specialist who stand ready to address your complex occupancy sensor issues. Our team of engineers can also help you plan your occupancy sensor energy solutions program. Just supply us with your facility's blueprints or CAD drawings and we will spec in the appropriate energy-saving occupancy sensors right on your layout. Lat but not least, we back our installations with technical customer service that is second to none.

Z-max Relay Control Panel

Offering Stand-Alone and Fully-Integrated Building-Wide Solutions.
The EZ-MAX stand-alone switched relay control panel provides scheduling of lights in a single area. Multiple network-ready Z-MAX switched relay control panels are ideal for spaces where centralized lighting control, programming and monitoring, are required.

What Makes EZ-MAX and Z-MAX Relay Systems Better?
A Single Integrated Cost-Effective Solution where a separate time clock, cabinet, terminal blocks and contractors were used in the past, our EZ-MAX and Z-MAX Relay Control Panels replace them with a single integrated solution. That means labor costs are reduced to just wiring two lug wires in and out… and materials costs are lowered as well.

Revolutionary Z-MAX™ Super-Long-Life Relay Circuit
UL safety standards required that a relay under load have an electrical life cycle of at least 6,ØØØ switching cycles. The key obstacle to a relay's longevity is contact pitting due to the arcing that normally accompanies inrush current during switching. This problem is most prevalent when switching modern electronic ballasts that can generate a current inrush as high as 29 times their standard load. Leviton relays are specifically tested for use with electronic ballasts. Leviton's proprietary Z-MAX circuit, employed on standard Z-MAX relay cards, offer a unique circuitry that is capable of switching under full load conditions at the zero crossing with true zero current. The result is true air-gap switching with zero current leakage that completely eliminates are shower pitting at the contacts. This extends the electrical service life of the Z-MAX standard relay to its mechanical life of 1Ø,ØØØ,ØØØ switching cycles.

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Some Reference

ADNOC Group corniche CCTV and access control automated with HVAC.

ADNOC Group headquarters located on the corniche, was one of the early building in Abu Dhabi that integrated an automated approach for low current system.

GCG implemented the CCTV and access control system along with the BMS. The Redundant BMS system controlling the HVAC was one of the early automation system implemented in Abu Dhabi, it is linked with 2000 access controlled cards and motion detection.

The number of cameras was 156, linked to 8 DVR and one matrix switch and a 4 terra byte storage capacity.

A 68 fully centralized access control system was installed and automated to the HVAC.

Honeywell & GCG received an appreciation letter from ZADCO management for completion the project within the required time frame and for the innovative solution.

Khalifa University (KUSTAR): CCTV, Access control and IT Infrastructure

The project consisted of providing the different Buildings in the Campus with the full Infrastructure Cabling System with Full Security management system and Server Room Preparation. GCG was awarded the installation of 700 workstations with 550 IP Telephony and 120 Hotspots as a service agreement.

The campus consisted of 7 different buildings covering an area around 360,000 square meter linked together by fiber WAN. From our extensive experience in the educational sector, and due to the high number of online educational system installed in place, we adopted a single mode fiber WAN pulled in a sealed duct. We used jelly filled armored fiber cable to protect it from rodent and water retention.

End to end CAT 6 system was installed for the horizontal cabling and OM3 10G multimode fiber in the backbone. The whole system was designed, installed, commissioned and tested by GCG's certified engineers in accordance with client requirement.

The biggest challenge was the installation and integration of the various security systems.

One software based platform hosted the CCTV, Access Control and gate barrier.

GCG's team consisted of one project manager, two site engineers, seven supervisors, and 25 manufacturer certified technicians which all coordinated to finalize the project in less tha 4 months.

ADEC: Abu Dhabi Educational Council

The project consisted of providing the new head quarter of the Educational Council with an end to end structure cabling solution in the work area as well in the server room.

GCG involvement started as a consultancy services to provide a future proof cabling solution to cater for the continuous bandwidth growth over the LAN network and providing an open architecture design in accordance with TIA/EIA 568 and ISO 11801 international standards.

We adopted CAT 6 for the horizontal cabling and an OM3 10 G multimode fiber in the backbone.

As for the data room, GCG installed the FM 200 fire fighting system, Access Control, raised floor, Copper and Fiber connectivity and the UPS system.

Some of our projects:

I/M	Client	Project	Location	Year	Main Contractor	Principal
P001	ZADCO	BUILDING MANAGEMENT SYSTEM & ACCESS CONTROL CCTV	AUH	1998-1999	ETA/GCG	HONEYWELL
P002	ZADCO	MAINT. BUILDING MANAGEMENT SYSTEM & ACCESS CONTROL CCTV, INCLUDING ENGINEERING & SERVICES	AUH	2000-2006	GCG	HONEYWELL
P003	ZADCO	ZADCO/GASCO NEW HQ.	AUH	2004	GCG	HONEYWELL
P004	EMARAT / DANWAY	CCTV SYSTEM	AUH	2004-2005	GCG	HONEYWELL
P005	ZADCO	SECURITY / CCTV	AUH	2005	GCG	HONEYWELL
P006	ADCB	ABU DHABI COMMERCIAL BANK, NEW HQ	AUH	2005	ETA/GCG	HONEYWELL
P007	AL DAR	ICL DIABETES CENTER Infrastructure, Security, Public Address, Nurse Call System, AV System	AUH	2005	OGER	HONEYWELL / 3M
P008	MINA ZAYED	MINA ZAYED EXPANSION	AUH	2005	AL GEEMI	3COM / 3M
P009	AL JABBER	ABU DHABI MUNICIPALITY	AUH	2005	GIS/GCG	3COM / 3M
P010	TAMEER	DANA TOWER 1	DXB	2006	GCG	3M
P011	DUBAI ECONOMIC DEPARTMENT	EM CREDIT CENTER LOW CURRENT PACKAGE	DXB	2006	GCG	HONEYWELL / 3M
P012	SHK. MOHD. BIN ZAYED CITY	BMS FOR TOWER 2	AUH	2006-2007	SEIDCO	HONEYWELL
P013	GHQ	CONTROLL R00MS (3)		2006-2007	GCG	ADAPTA / 3M / CLARITY / HONEYWELL

I/M	Client	Project	Location	Year	Main Contractor	Principal
P014	TAMEER	DANA TOWER 2	DXB	2007	GCG	3M
P015	GHQ	CONTROL ROOM /VIDEO WALL / INFRASTRUCTURED	AUH	2007	CNS	HONEYWELL / CLARITY / 3M
P016	CBI	INFRASTRUCTURE / SECURITY / NEW IT CENTRE	AUH	2007	GCG	3M / HONEYWELL / LEIBERT
P017	CBI	BRANCH OFFICE INFRASTRUCTURE and Security / IT Room	SHJ	2007	GCG	3M / HONEYWELL / LEIBERT
P018	CBI	TIME ATTENDANCE ACCESS CONTROL	UAE	2007	GCG	RCG / 3M
P019	CBI	INFRASTRUCTURE - SECURITY - IT ROOM	AUH	2007	GCG	3M / HONEYWELL / LEIBERT
P020	AIS	DEMO CENTRE / VIDEO WALL SECURITY / INFRASTRUCTURE	AUH	2007	GCG	3M / HONEYWELL / CLARITY
P021	SHARJAH UNIVERSITY TEACHING HOSPITAL	INFRASTRUCTURE	SHJ	2007-2008	GCG	3M
P022	ZAYED UNIVERSITY	INFRASTRUCTURE	SWEIHAN	2007-2008	GCG	3M
P023	EDUCATIONAL COUNCIL	INFRASTRUCTURE, SECURITY, UPS, FM2000, ELECTRICAL	AUH	2008	C4/GCG	3M / HONEYWELL / LIEBERT
P024	SHARJAH UNIVERSITY DENTAL CLINIC	INFRASTRUCTURE	SHJ	2008	GCG	3M
P025	KHALIFA UNIVERSITY	INFRASTRUCTURE / CCTV / ACCESS CONTROL	AUH	2008	C4/GCG	3M / Honeywell / AXIS / MILESTONE
P026	CNIA	INFRASTRUCTURE / CCTV / ACCESS CONTROL	Habshan	2008	AIS	3M / LENEL / PELCO
P027	CNIA	INFRASTRUCTURE / CCTV / ACCESS CONTROL	AUH	2008	AIS	3M / LENEL / PELCO
P028	IAT	INFRASTRUCTURE / CCTV / ACCESS CONTROL	RAK/UQ	2008	C4/GCG	3M / Honeywell
P029	Armed Forces	INFRASTRUCTURE	Sweihan	2008	C4/GCG	3M
P030	Crown Plaza	CCTV SYSTEM	AUH	2008	GCG	Honeywell
P031	Armed Forces	Complete ICT LABS	AUH/RAK/DXB	2009	C4/GCG	3M / PROSKIT
P032	Department of Finance	Infrastructure / UPS	AUH/Silla	2009	CNS/GCG	3M / APC / Leibert
P033	ADNOC GROUP	MAINTENANCE BUILDING MANAGEMENT SYSTEM & ACCESS CONTROL CCTV, INCLUDING ENGINEERING & SERVICES	AUH	2007-2012	GCG	HONEYWELL

I/M	Client	Project	Location	Year	Main Contractor	Principal
P034	MOFA	INFRASTRUCTURE	AUH	2010	GCG	NEXANS
P035	Department of Finance 2	Infrastructure / UPS	AUH	2010	GCG	3M / APC / Leibert
P036	CNIA	INFRASTRUCTURE / CCTV / ACCESS CONTROL / SMART SENSOR LINE FENCE	AUH	2010	AIS	3M/LENEL/ PELCO
P037	ADS Holding	INFRASTRUCTURE / CCTV	AUH	2010	CNS	LEVITON/ AXIS
P038	ADEC	INFRASTRUCTURE for SCHOOLS	AUH	2010	EMIRCOM	3M
P039	DED	INFRASTRUCTURE	AUH	2011	GCG	PANDUIT