



nisco

MAWALEJ INFORMATION SYSTEMS CO

شركة مهالج لأنظمة المعلومات





+20 years experience. ICT Solutions from the Desktop to the Data Center



PLATINUM category with more than **65%** Saudi employees



Classified **FIRST CLASS** in O&M, electronics works and communication

ABOUT US



Established in 2000



+150 Employees



+20 Projects per Year



+1B SAR Projects



Added Value



Agile



Professional



Committed

-We are a fast-growing information technology services and multidisciplinary business services provider in the Kingdom.

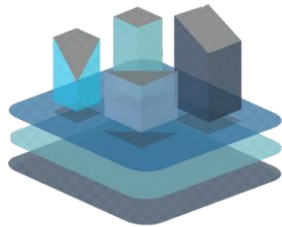
-We have been identified as one of the biggest companies in Saudi Arabia providing and running multiple types of projects across the Kingdom.



OUR Mission

To build and maintain reliable technology that can withstand the test of time.

What We Do...



**INFRASTRUCTURE
& POWER**



**COMMUNICATION
& NAVIGATION
SOLUTIONS**



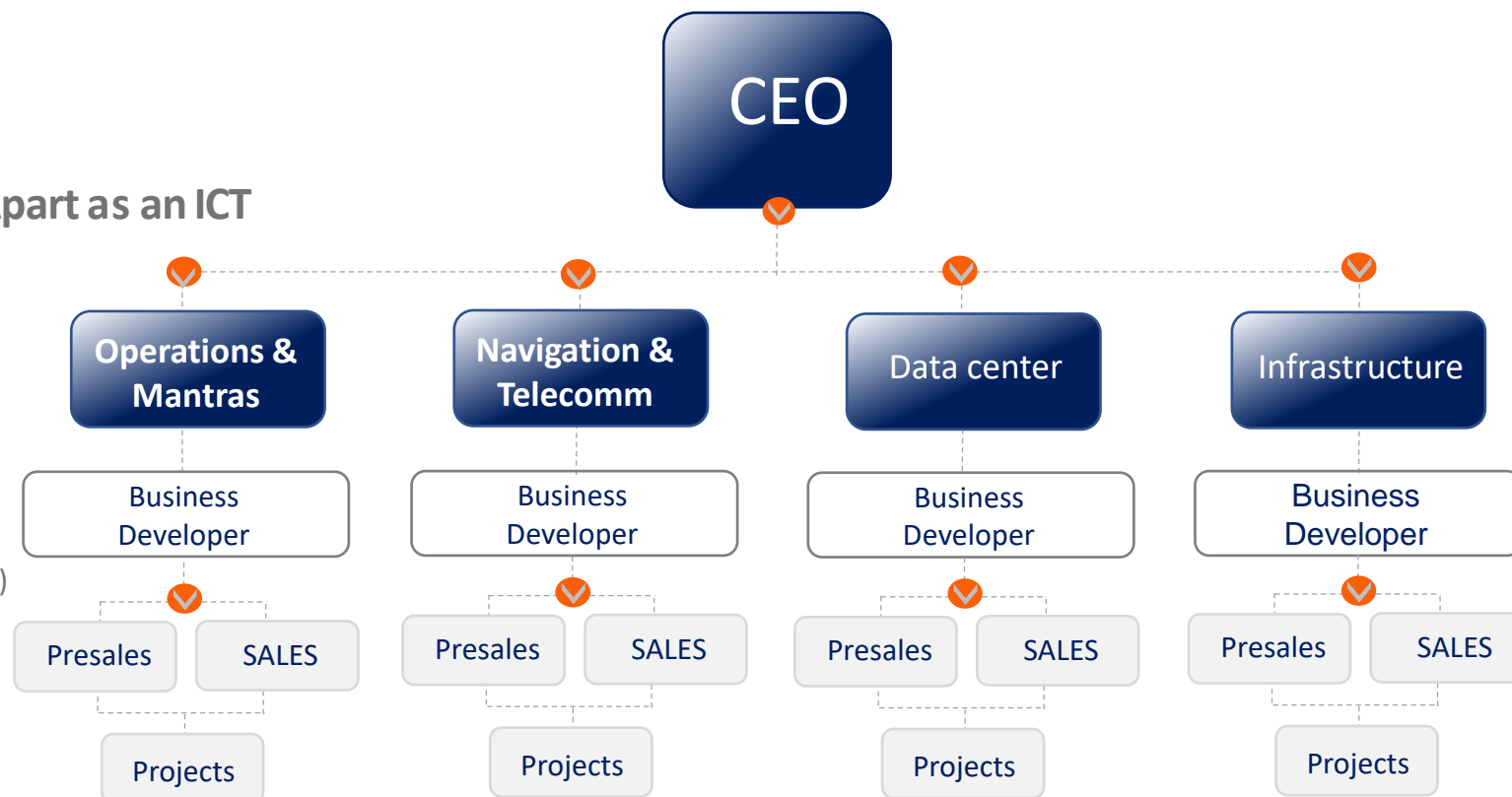
**DATA CENTER
OPERATION AND
MAINTENANCE**



**MANAGED
SERVICES**

Overview of the certifications that set Align Apart as an ICT leader.

- Uptime institute – Uptime Tier Accredited Designer (ATD)
- BICSI – Data Center Design Consultant (DCDC)
- CENT – Certified Data Center Design Professional (CDCDP)
- Cisco - Certified Internetwork Expert (CCIE)
- BICSI – Registered Communications Distribution Designer (RCDD)
- Fluke – Certified Cabling test Technician
- PMP – Project Management Professionals
- ITIL – Information Technology Infrastructure Library
- PVI- Solar Photovoltaic Installer



COMMUNICATION SOLUTIONS



COMMUNICATION

COMMUNICATION SOLUTIONS

Our vision is to provide the latest technology in the field of communications in line with the vision of the development of the Kingdom of Saudi Arabia for all sectors and organizations within the Kingdom.

We realize how important it is for our services to keep pace with the requirements of cyber security and the recommendations of the Communications and Information Technology Commission (CITC).



COMMUNICATION SOLUTIONS



Navigation & Surveillance:

- Radar (MSSR/ DASR).
- Instrument Landing System (ILS)
 - DVOR + VORTAC
 - WAS



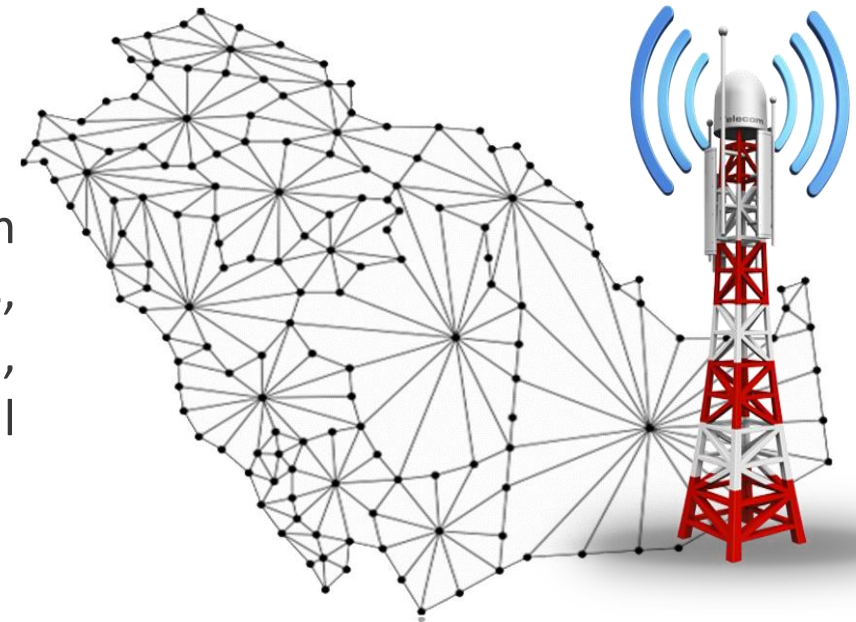
TELECOM SOLUTION :

- Two Way Radio : (DMR – TETRA- AM Radios)
 - Voice Recording Systems.
 - P2P/P2M.
 - Towers.
 - VSAT.

TELECOM SOLUTIONS

Design, build, upgrade, expand, install and maintain mission-critical wireless radio communication networks, Consulting, network design and planning, integration, project management and technical support. Technical engineering, on-site.

This include supply all type of system equipment's.



DMR (DIGITAL MOBILE RADIO)

An international (Analog/Digital) radio standard developed by the European Telecommunications Standards Institute (ETSI) with modern techniques to provide:

- SHORT DATA SERVICES (SMS).
- ANALOGUE AND DIGITAL OPERATION.
- 12.5KHZ NARROWBAND CHANNELS SPACING.
- 2-SLOTS TDMA PER SEMI-DUPLEX FREQUENCY.
- GPS AND DISPATCHING.
- REGIONAL COVERAGE UP TO (250) sites .
- HIGH POWER REPEATERS.
- AVAILABLE IN DIFFERENT FREQUENCY BANDS VHF UHF, MHZ.
- INDIVIDUAL, GROUP AND ALL CALL.



COMMUNICATION SOLUTIONS

DMR (Portable & Mobile Radio)

Voice only

Portable :DP1000,DP2000series

Mobile:DM1000,DM2000 Series

Voice &SMS

Portable:DP4400,DP4600,DP4800series

Mobile:DM4400,DM4600 Series

Voice &SMS&GPS

Portable:DP4401,DP4601,DP4801series

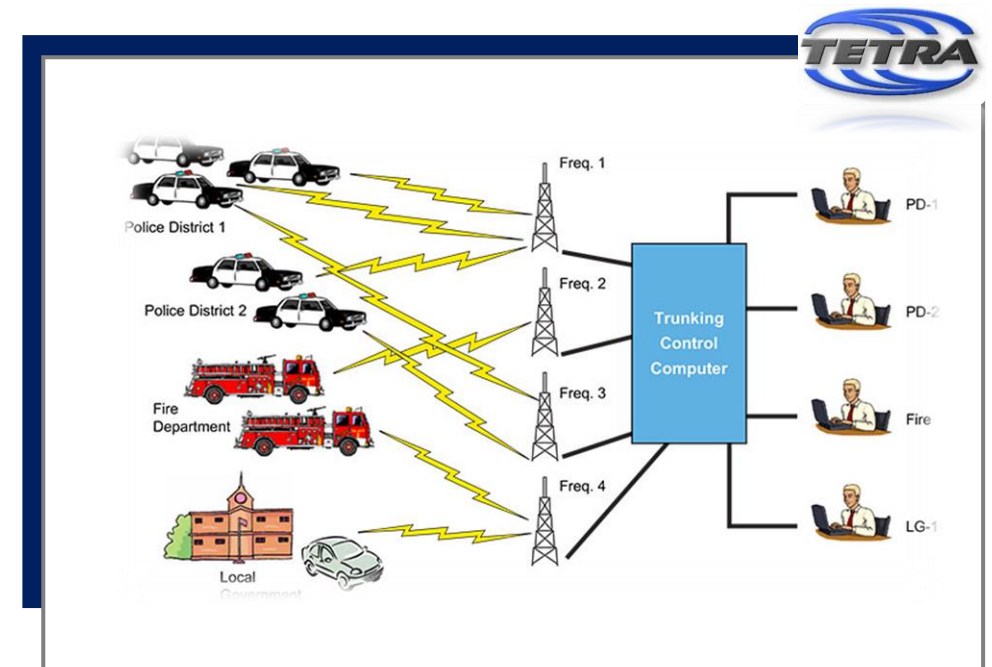
Mobile:DM4401,DM4601 Series



TETRA (TERRESTRIAL TRUNKED RADIO)

TETRA is a digital trunked mobile radio standard developed by ITSI to meet the unique requirements of mission critical communications of traditional Professional Mobile Radio (PMR) .

- DIGITAL OPERATION ONLY.
- 4 SLOTS PER SEMI-DUPLEX FREQUENCY.
- 25 KHZ WIDEBAND CHANNELS SPACING.
- AVAILABLE IN (350-470 & 800) MHZ FREQUENCY BAND.
- HIGHER LEVEL VOICE ENCRYPTION.
- COVERAGE SUBJECT TO SITES (MEDIUM POWER REPEATERS).
- SHORT DATA SERVICES (SMS).
- CONTROL CHANNEL
- DIRECT MODE OPERATION (DMO).



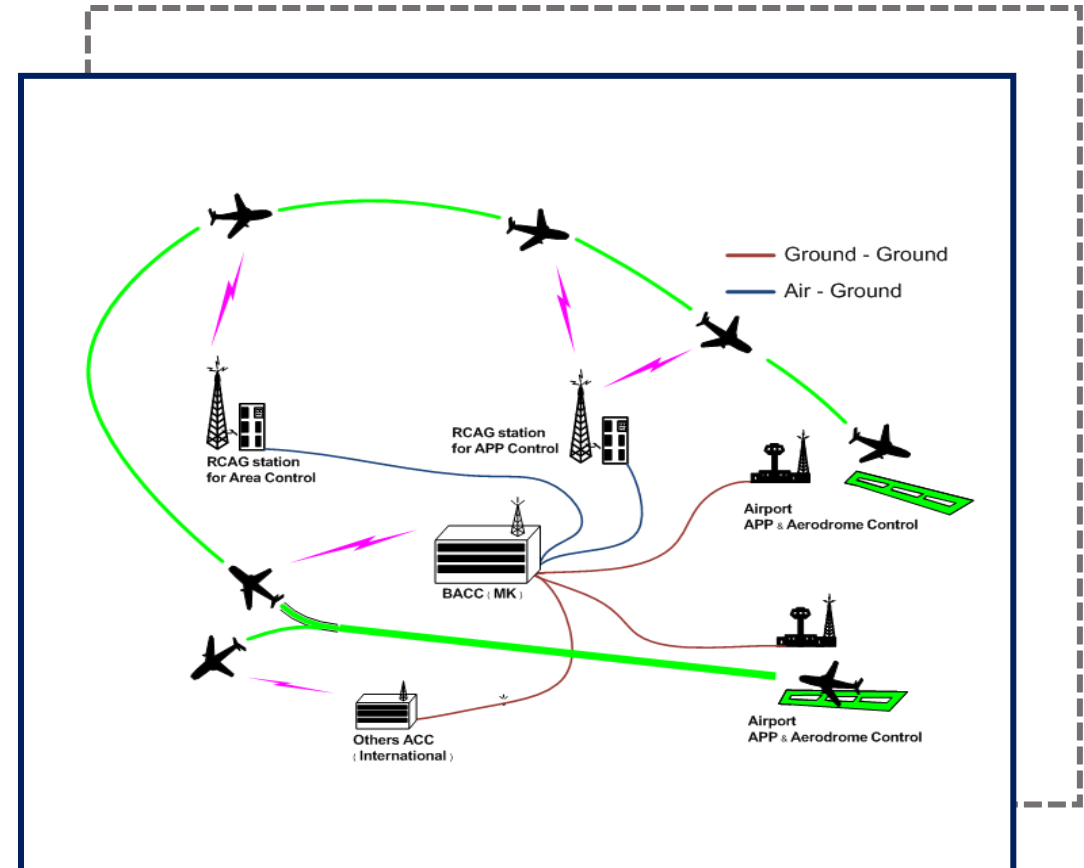
AM Radio (Air/Ground) Communication.

AM Radio (Air/Ground) Radio Communication between two or more Aircrafts or to exchange verbal information between aircraft and ATC (Air Traffic Control).

Used VHF Band for (Civil) and UHF (Military).

We provide complete line of AM Radios:

- Mobile Radios.
- Fixed Radios.
- Handheld Radios with GPS.



Microwave Link P2P & P2MP

supply and installation of complete Wireless Communication Technology Link Solution from Licensed Microwave to Licensed/Unlicensed P2P and P2MP that uses high frequency beams of radio waves to provide high speed wireless connections that can send and receive voice, video, and data information, our services include:

SITE SURVEY.

DRIVE TEST.

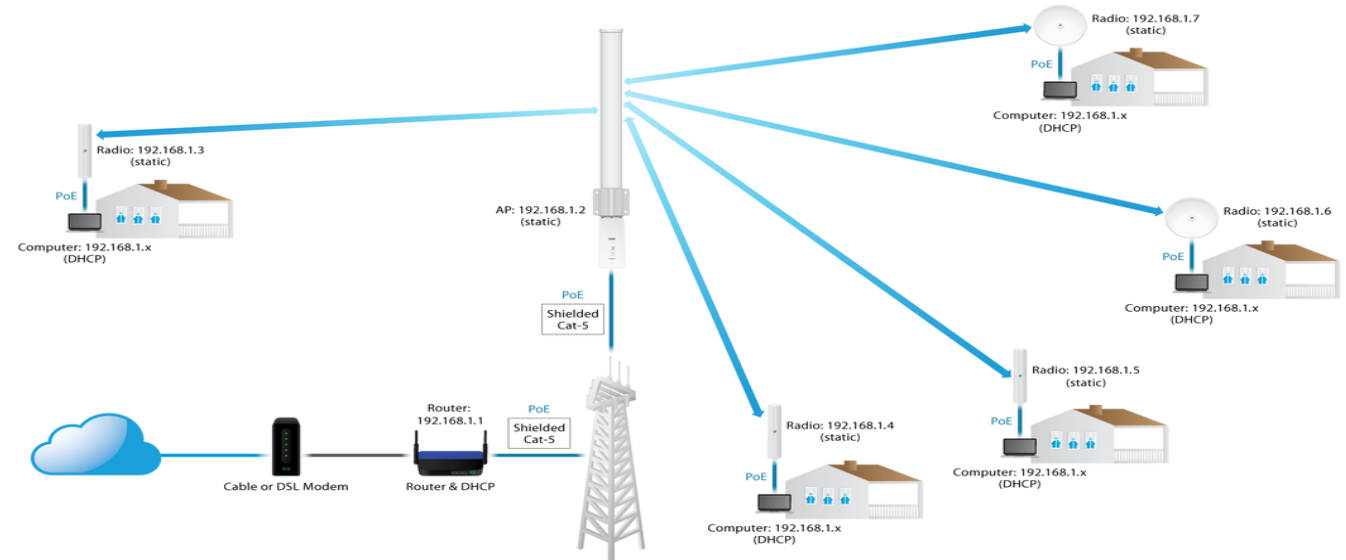
LOS (LINE OF SIGHT).

IMPLEMENTATION.

DESIGN.

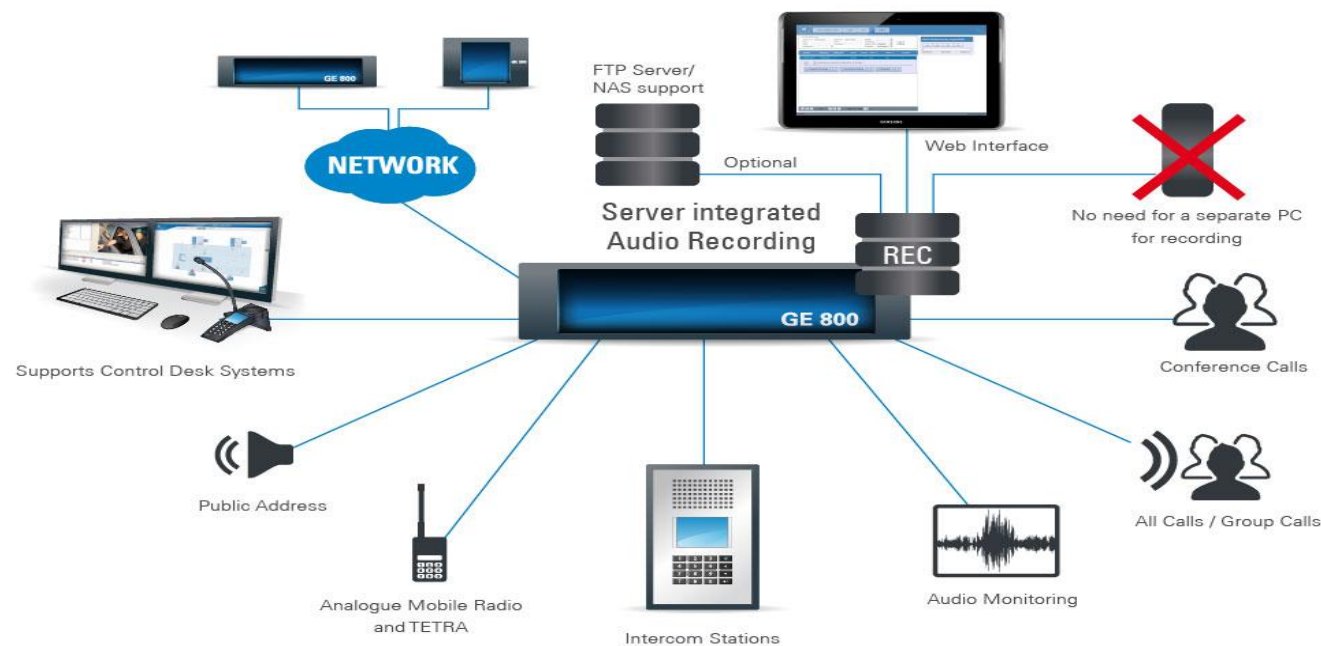
DOCUMENTATION.

Operation and Maintenance



VOICE RECORDING SYSTEMS :

We supply complete voice recording system for Radio communication (Analog / Digital) ,VoIP and Telephone .



TELECOM TOWERS

SUPPLY AND INSTALLATION OF ALL TYPES OF TELECOM TOWERS :

- MONOPOLES TOWERS.
- SELF-SUPPORT TOWERS.
- GUYDED TOWERS.
- TELE-SCOPIC TOWERS.
- ROOF TOP TOWERS



Navigation & Surveillance:

Misco has a team with unique experience in the field of Navigation & Surveillance, and previous experience that gives it leadership in this field.

The Air Force is one of our biggest client in this field.



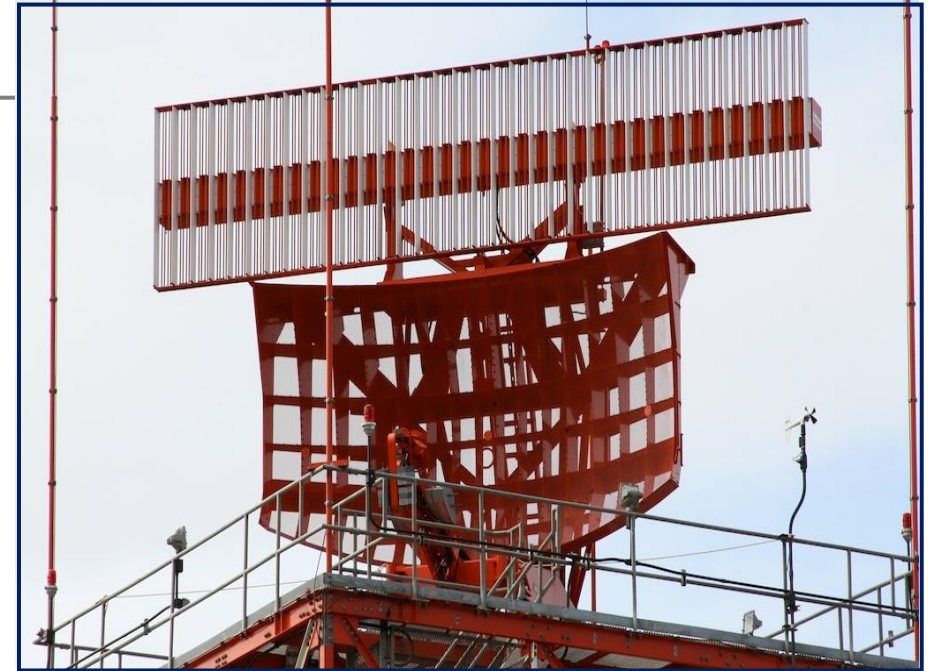
MSSR (MONOPULSE SECONDARY SURVEILLANCE RADAR)

Monopulse Secondary Surveillance Radar (Full Mode S Functionalities Stand-alone or co-mounted with a primary S-band or L-band), that gives controller total support in severe air traffic conditions.



DASR (DIGITAL AIRPORT SURVEILLANCE RADAR)

Full Dual Civil/Military next generation, most advanced and efficient S-Band Primary Surveillance Radar (PSR) System in the world, as it has a spectrum of military capabilities no civilian radar possesses, namely, the ability to detect both slow and fast moving targets such as helicopters and fighters as well as very small targets such as UAVs. It also possesses anti-jamming functions, and has the ability to provide altimetry information.

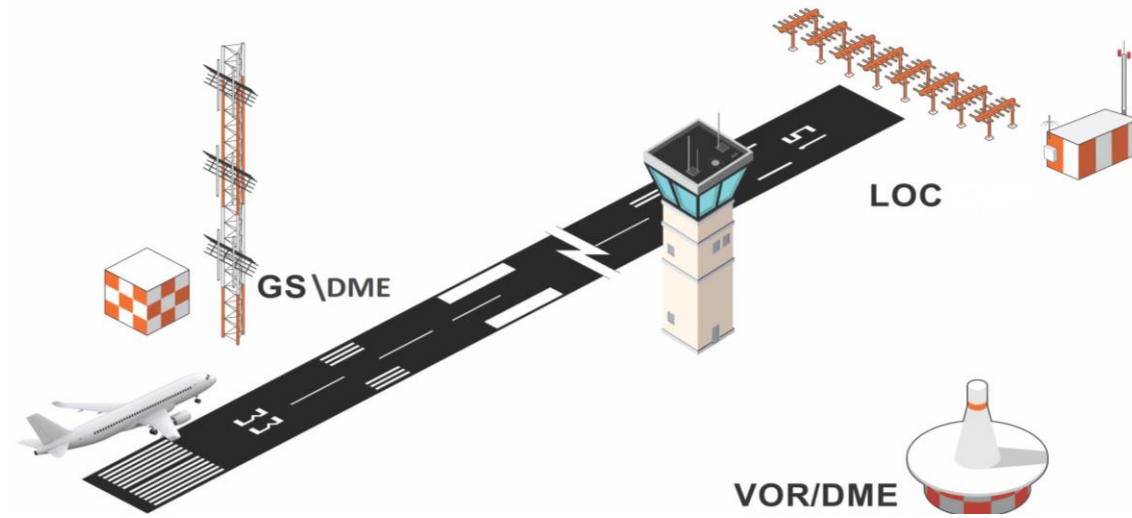


Instrument Landing System (ILS)

ILS is the principle of NAVAIDS System to Provide Safe Airport Landing with precise vertical and horizontal navigation guidance to pilots for smooth, safe approach and landing that meets or surpass the requirements of the FAA and International Civil Aviation Organization (ICAO).

ILS System consist of :

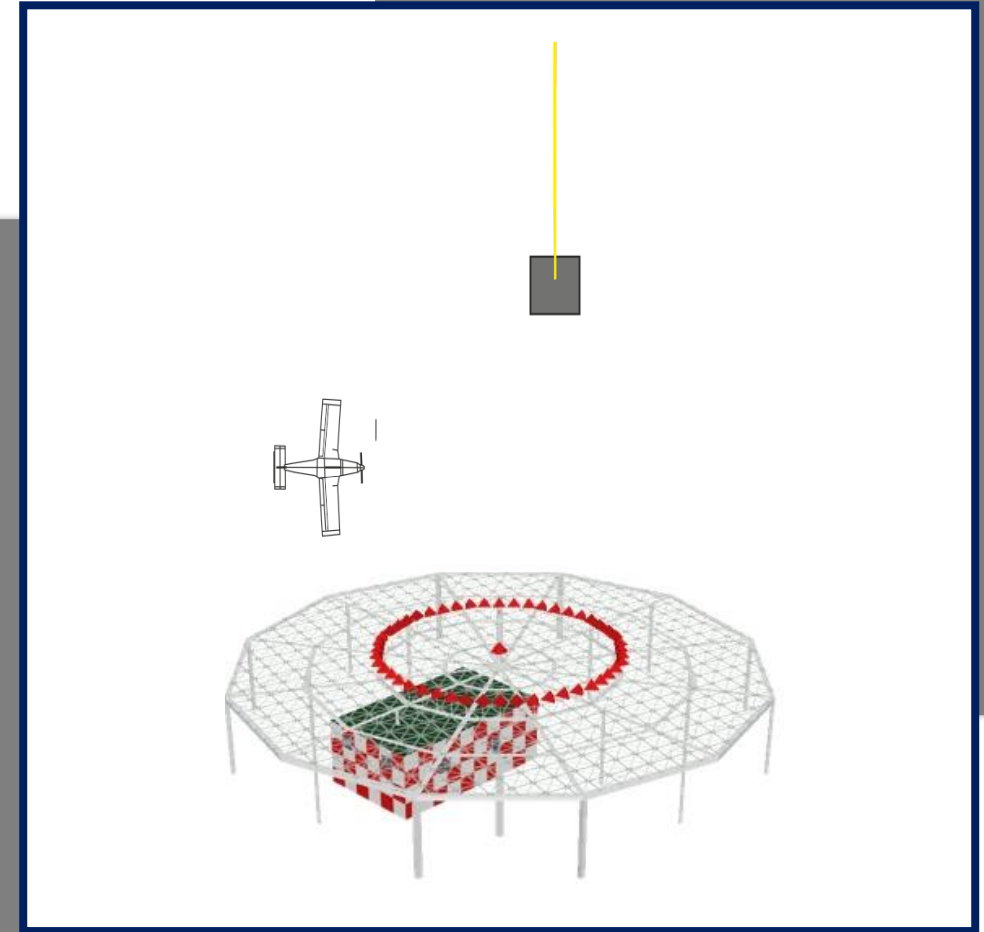
- LOCALIZER – (LOC)
- Glide Path – (GP) or Glide Slope – (GS)
- Distance Measuring Equipment – (DME)



DVOR (Doppler VHF Omni Directional Range)

A DVOR (Doppler VHF Omni Directional Range) is a short/medium-range radio navigation system used to aid aircraft in determining their flight position and direction in relation to their destination using VHF (Very High Frequency) signals between 108.00 to 117.95 MHz sent from a radio beacon.

The system includes DME (Distant Measuring Equipment).

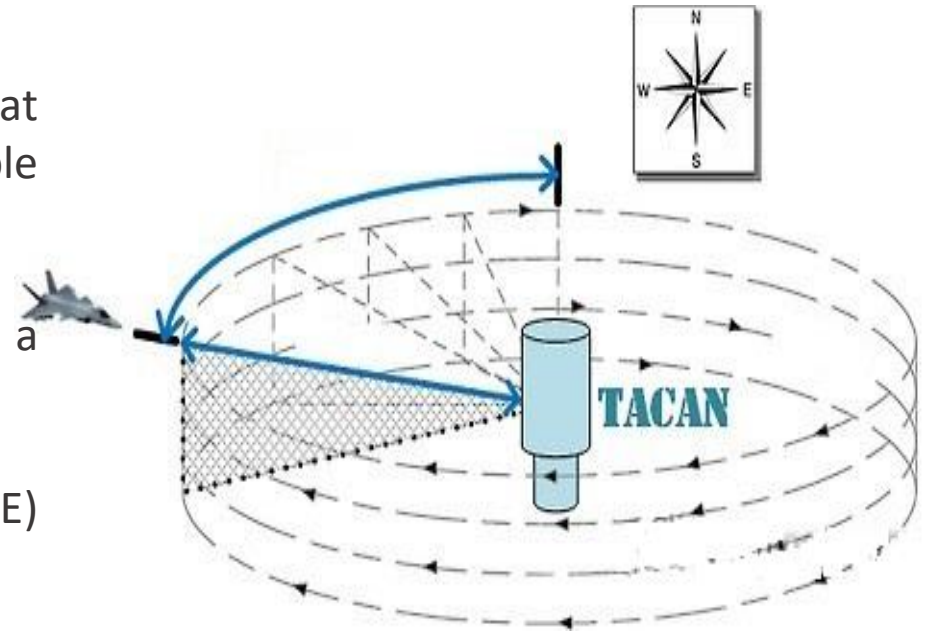


VORTAC (VOR- VHF Omni Directional Range +TACAN -TACtical Air Navigation System)

Tactical Air Navigation, a TACAN is a military navigational aid that consists of several functions amalgamated into one unit. It is available on frequencies from 960 MHz to 1215 MHz.

a TACAN is a VOR with a higher degree of accuracy than that of a conventional VOR used by civilian aircraft.

Built into the TACAN is a Distance Measuring Equipment (DME) station , A DME can be also used by civilian aircraft.



INFRASTRUCTURE BU



MAWALEJ INFORMATION SYSTEMS CO

مواالج لإنظمة المعلومات

Network Infrastructure

INFRASTRUCURE

We are leaders in Infrastructure field as we are accredited & certified from TOP Finders and Costumers.

We are staffed with the highest level of multinational expertise , which allows us to extend services to our clients.

Service Portfolio

01 Outside-Plant

- Fiber Infrastructure
- Power Infrastructure

02 Inside-Plant

03 Networking Services







Service Delivery Dimension

01 Design

02 Implementation

03 O&M

OUR ACCREDITATION

	SAUDI ARAMCO	Our ID →	10058798
	NEOM	→	Doc33625623
	SAUDI ELECTRICITY	→	5011974
	MOBILY	→	13244
	SAUDI Telecommunication	→	5571
	SALAM COMPANY	→	2473

OUR Service References

ارامكو السعودية
Saudi Aramco



OSP – 80+ KM



OSP – 130+ KM



OSP – 170+ KM

ISP – 4000 Node



OSP – 1000+ KM

ISP – 40,000 Nodes



OSP – 150+ KM

OUR Service References



OSP – 80+ KM



OSP – 170+ KM
ISP – 4000 Node



OSP – 150+ KM



OSP – 130+ KM



OSP – 1000+ KM
ISP – 40,000 Nodes

OUR Service References



4 Project Managers



20+ Machineries



Project Coordinator

3 Project Coordinators



Engineer

4 Project Engineers



**SITE
SUPERVISOR**

8 Site Supervisors



40 Technicians

Infrastructure Team CHART



Project Score Card

King Khalid AirBase Project

01

Design

02

Implementation

03

O&M

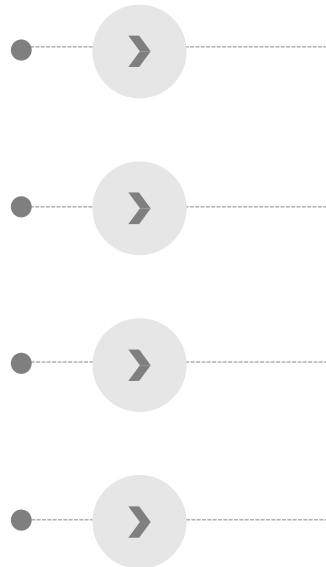
- 1200+ Cameras
- 160+ KM Fiber Optics
- 70+ KM Power Cabling
- 5 Integration with 5 Power Stations
- 1 Data Center
- 8 Communication Rooms
- 1 Control Room
- 2 Years of O&M

Power Solution

UPS System :

Designed to guarantee power continuity and power quality for commercial and industrial applications with
Leading UPS brands

- Commercial UPS for standard applications
- Industrial UPS and chargers for utilities



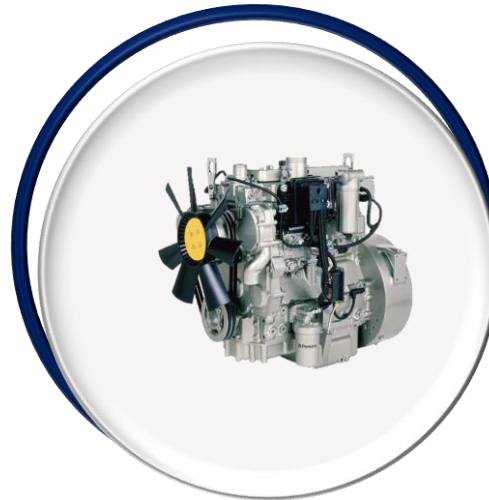
POWER SOLUTION

Generators:

With a verity of options and models, ICS offers generators set from 9KVA to 4000KVA with many leading brands.



 **GENERATORS
GHADDAR**



 **Perkins**





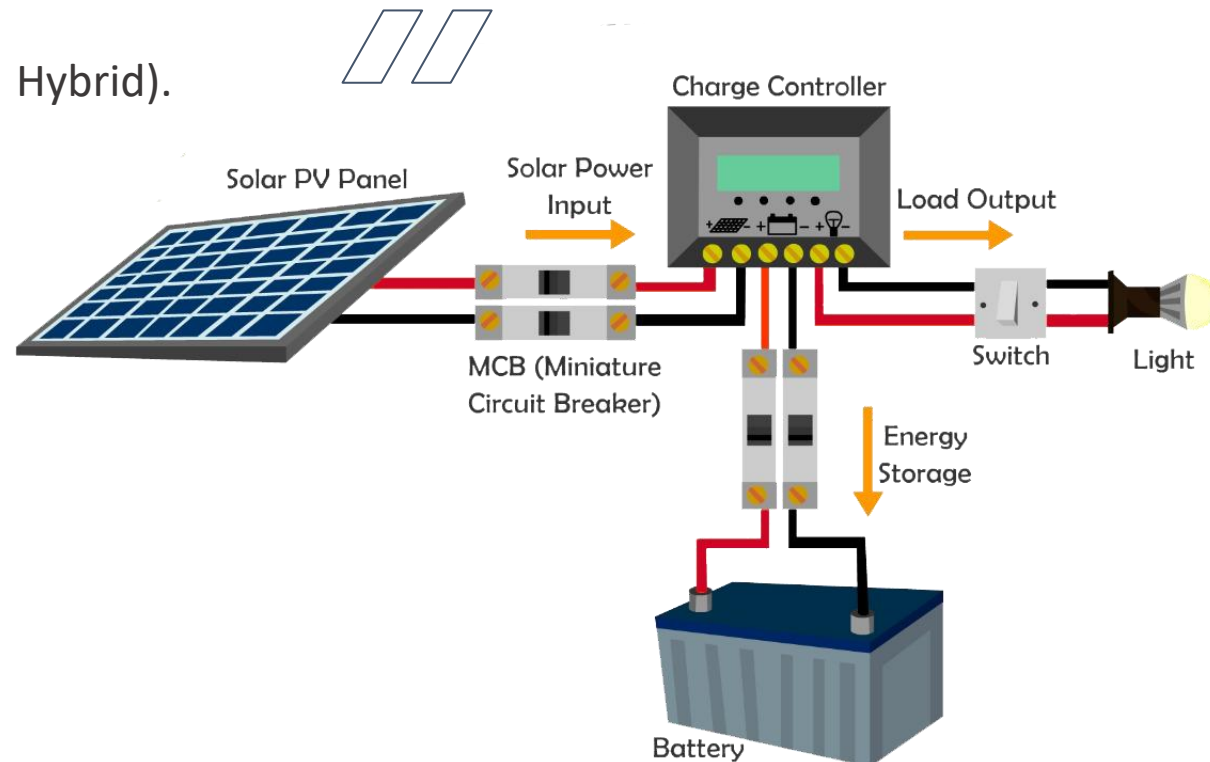



JOHN DEERE

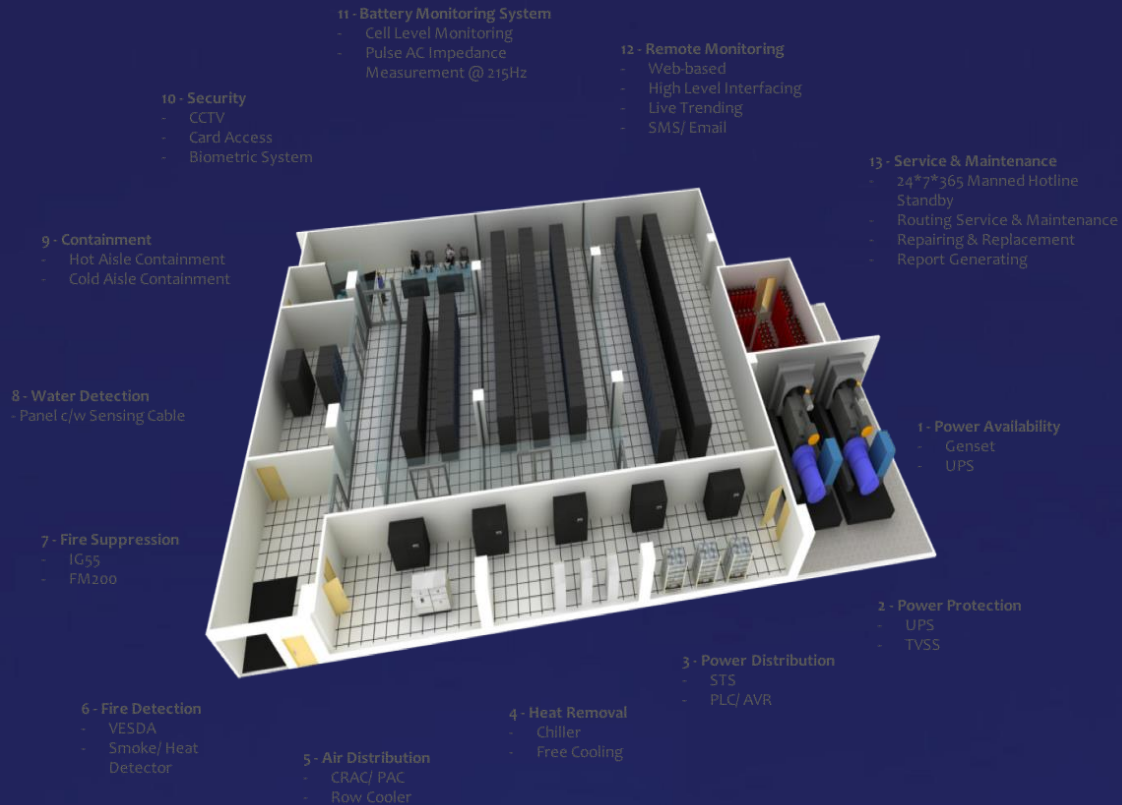
Renewable and Energy Efficiency

With higher demand on clean energy , ICS provide many solutions for a greener future .

- Solar systems (on grid , off grid and Hybrid).
- Solar Pumping.
- Energy Audits.
- Monitoring , Sensors , Drives



Data Center O&M Services



+40 K Square meters Gray Space

+50 megawatts

+100 K Square meters White Space

+75 Clients



MAWALEJ INFORMATION SYSTEMS CO

مواالج لإنظمة المعلومات

MISCO Data Center Facility Services

We are Specialized in boosting critical facilities operations



Hard FM Services

- HVAC Systems
- Electrical Power
- Plumbing Systems
- Fire Safety Systems
- Lighting Systems
- BMS & Control
- Security & CCTV
- Access Systems



Soft FM Services:

- Help Desks
- Cleaning
- Waste Management
- Landscaping
- Asset & Lifecycle
- Pest Control
- Projects Management
- Health Checks
- Offices Management



Health, Safety & Security:

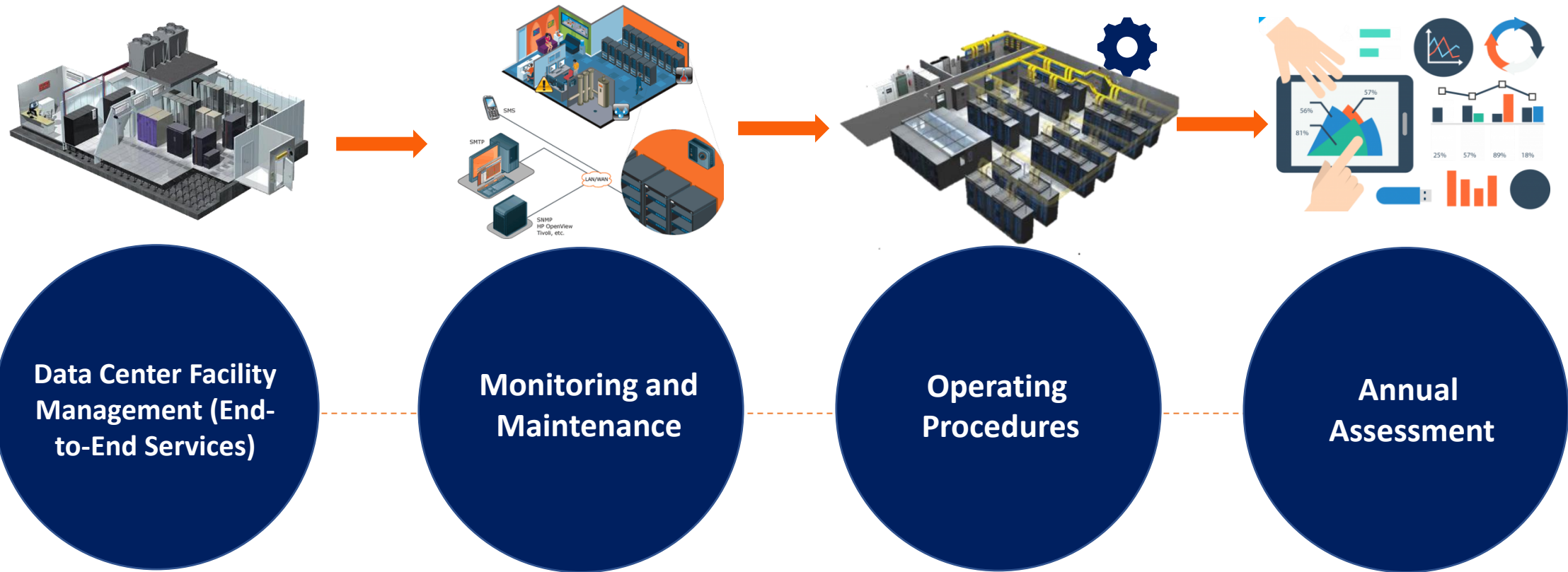
- 24/7 Security
- Staff training
- Risk Assessments
- Accidents and First Aid
- Emergency Response
- Risk / Hazards Management



Data Center Facilities Services:

- Total Facility Management (TFM).
- UPS systems
- Precision Cooling
- Racks, Containments & PDUs
- Whitespace Management
- Structured Cabling
- Capacity Management
- Monitoring Systems
- Low Current Systems

MISCO's Delivery Approach



White Space (Production Zone) Management

- Utilization, Capacity, and Demand management.
- Floor & Environment Management
- White Space Environment Management
- Structured Cabling Management
- Data Center Infrastructure Management (DCIM) / Automation
- Data Hall Security Management

Gray Space (Support Infrastructure) Management

- Data Center Facility Management
- Service Level Management
- Maintenance Management and Vendor Management
- Assets & spare parts Management

Some of our projects

Telecommunications and Navigation +350M SAR Value

	Project	Client
1	Supply and install of fixed air control radar, simulators and replace communications and control systems for control towers	Royal Saudi Airforce
2	Supply and install of mobile wireless communication stations	Royal Saudi Airforce
3	Supply & upgrade the infrastructure of the encrypted digital wireless communications networks DTRS	Royal Saudi Airforce
4	Supply & upgrade the infrastructure of the encrypted digital wireless communications networks DTRS	Royal Saudi Airforce
5	operation Maintenance of information security software equipment and devices	Royal Saudi Airforce
6	Supply and Installation 4 RSU For Air Force	Royal Saudi Airforce

Some of our projects

Data Center O&M. +180M SAR VALUE

	project	Client
1	operation and Maintenance of the financial and administrative system in the Air Force ERP	Royal Saudi Air Forces
2	operation and Maintenance all data centers with spare parts in the department	Civil Defence
3	operation and Maintenance of security control centers at the command and all air bases	Royal Saudi Air Forces
4	operation and Maintenance of logistics systems	Royal Saudi Air Forces
5	Data Center Infrastructure Development	Royal Saudi Guard
6	Build Two Disaster Recovery Data Center	Royal Strategic missile

Some of our projects

O&M
+100M SAR VALUE

	Project	Client
1	Operation, Maintenance and upgrade systems of Beneficiaries service center (Tawasul)	Riyadh Municipality
2	Operation and Maintenance computer systems for the branches	Tabuk University
3	Operation and Maintenance the automated supply system	Royal Saudi Air Forces
4	Operation and Maintenance networks in all brunches	Saudi Electronics University
5	Operation and Maintenance of the information center at Princess Noura University	Ministry of Higher Education
6	Operation and maintenance of information technology in Saudi Center for Organ Transplantation	health services council
7	Operation and Maintenance of Copmuter Systems	King Abdulaziz Foundation for Research and Archives (Darah)
8	Operation and maintenance of computer laboratories at Tabuk University	Tabuk University
9	Operation and maintenance networks, communications and printers' systems at Tabuk University northern borders	northern borders University

Some of our projects

Infrastructure & CCTV +700M SAR VALUE

	Project	Client
1	Implementation of the infrastructure works project for the RSLF network in the regions for fiber optic and manholes	Royal Saudi Land Forces
2	Supply and installation of infrastructure, supply and installation of security monitoring devices (BODY CAM) with monitoring system(Eastern Region - Northern Borders - Tabuk - Al-Jawf - Madinah)	Public Security
3	Supply and installation of infrastructure, supply and installation of security monitoring devices (BODY CAM) with monitoring system((Riyadh - Qassim Hail)	Public Security
4	Supply and installation of a security monitoring system at King Khalid Air Base in the Southern Sector (Phase II)	Royal Saudi Air Forces
5	Supply security surveillance cameras for the General Administration of Military Space	General Directorate For Military Survey
6	expansion the communications and information technology infrastructure of the Air Defense Forces for the western and northern regions	Royal Saudi Air Defense
7	expansion the communications and information technology infrastructure of the Air Defense Forces in the Eastern Region	Royal Saudi Air Defense
8	Establishing the computer infrastructure for the branches of the institution(SCADA) in the control sectors.	Saudi Irrigation Organization
10	Supply and installation Computer Network Infrastructure of RSLF	Royal Saudi Land Forces

OUR CLIENTS



وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture
Kingdom of Saudi Arabia المملكة العربية السعودية



المؤسسة العامة للري
Saudi Irrigation Organization
المملكة العربية السعودية



المؤسسة العامة للتقاعد
Public Pension Agency



الهيئة العامة للغذاء والدواء
Saudi Food & Drug Authority

المؤسسة العامة للتدريب التقني والمهني
Technical and Vocational Training Corporation



وزارة الحج والعمرة
MINISTRY OF HAJJ AND UMRAH

Partners

HARRIS®

 **LEONARDO**

AIRBUS

FREQUENTIS

Partners

DELL EMC

FIRE EYE

TREND
MICRO

COELMO
GENERATORS

ORACLE

KEYMILE

CISCO

AccessDat

Microsoft

vmware

legrand

Infoblox

ap Ξ EC
applied security

sanaKO

extreme
networks

HUAWEI

3M

LIFECO

HiRef
Innovators above
the standards



MAWALEJ INFORMATION SYSTEMS CO
شركة مهالج لأنظمة المعلومات

✉ help@misco.com.sa

☎ 8001160260