

company profile

mht, your technology partner,

is an IT (Information Technologies) Systems Integrator company.

mht, since founded in 1993, provides world class IT solutions to its customers. Our customers range from airports to hotels to state-owned and private-owned enterprises. With its premium class quality approach and full customer and employee satisfaction policy, **mht** has become a respected and well known technology contractor both in the national and international IT market.

mht, with its qualified engineering force, some awarded with RCDD® PMP® designations, specializes in designing, building, integrating and maintaining in IT infrastructure market.

4 7



company profile

TO BE A BRAND NAME OR
TO REMAIN A BRAND NAME?

for us both...

Remaining a brand name is as important as creating a brand name. **mht** has a continuous renovation and stable brand management to keep the brand name value.

mht is identified with specific solutions, contemporary technology, and continuity of services.

mht' brand management attaches to its basic principle of being focused.





team spirit

AMATEUR SPIRIT OR PROFESSIONAL APPROACH?

we have both...

The feature distinguishes mht is, on one hand **“the first excitement”** For each work , **“thinking strategically”** on the other. mht achieves to remain **amateur spirit** by **excitement and desire for work**, achieves to be **professional** by the **power of experience**.

mht assures workers' health and security, sustains authorized **team spirit** and share of responsibility by **transparent** management principle



SOLUTIONS

- Information Technology and Communication Systems
- Automation and Ultra Low Voltage Systems
- Airport Special Systems
- Security Systems
- Hotel in-room Entertainment and Communication Systems
- Data Centers
- Railway Signalization and Communication Systems



CAPABILITIES IN A TYPICAL PROJECT

- Requirement and Need Analyses
- Consultancy
- Proposal & Contract
- Planning
- Design
- Coordination
- Deployment
 - Mobilisation & Logistics
 - Team set-up
 - Procurement
 - Installation
 - Test and Commissioning
- Hand Over
 - As-built drawings
 - O&M Manuals
 - Trainings
 - Warranties





references



AIRPORT REFERENCES



ATATURK INTERNATIONAL AIRPORT



Date:	1999-2000
Location:	Istanbul / TURKEY
Client:	TAV
Controller:	DHMI
Total Area:	500.000 (264.000 TB) mt ²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- LAN (one of the first VLAN systems)
- WAN
- Airport Wide
- Integration
- 7 years Operation and Maintenance Outsourcing Contract (7/24)



ASTANA INTERNATIONAL AIRPORT



Date: 2003-2004
Location: Astana / KAZAKHSTAN
Client: ALARKO

SCOPE

- Consultancy
- Design Scope
- Structured Cabling (TDS)
- LAN
- WAN
- Special Systems
- Integration



ESENBOGA INTERNATIONAL AIRPORT



Date: 2004-2006
Location: Ankara / TURKEY
Client: TAV
Controller: DHMI
Total Area: 556.879 (183.135 TB) mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- LAN
- WAN
- Airport Wide
- SMATV
- Integration

CAIRO INTERNATIONAL AIRPORT



Date: 2004-2008
Location: Cairo / EGYPT
Client: TAV
Controller: DAR / NACO
Total Area: 700.000 (200.000 TB) mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- Fire Stopping
- Integration



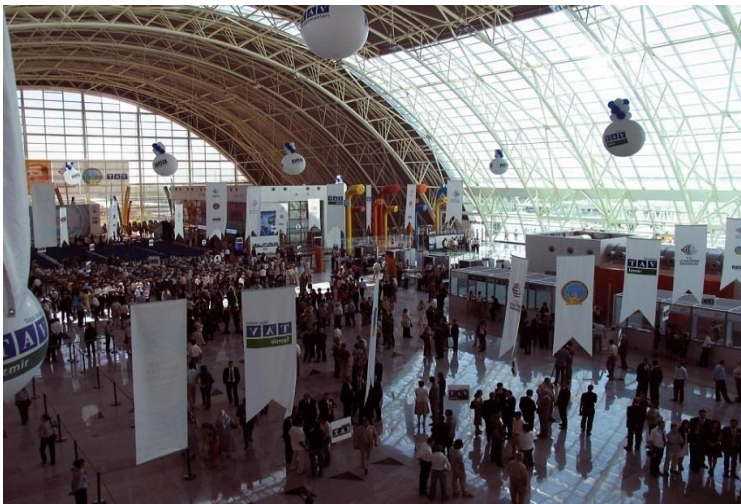
IZMIR ADM. INTERNATIONAL AIRPORT



Date: 2005-2006
Location: Izmir / TURKEY
Client: TAV
Controller: DHMI
Total Area: 418.000 (110.000 TB)mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- LAN
- WAN
- Airport Wide
- SMATV
- Integration



IZMIR ADM. DOMESTIC AIRPORT



Date: 2006-2007
Location: Izmir / TURKEY
Client: TAV
Controller: DHMI

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- LAN
- WAN
- Airport Wide
- SMATV
- Integration



TBLISI INTERNATIONAL AIRPORT



Date: 2006-2007
Location: Tblisi / GEORGIA
Client: TAV
Total Area: 77.470 (24.500 TB)mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- LAN
- WAN
- Airport Wide
- SMATV
- Integration



BATUMI INTERNATIONAL AIRPORT



Date: 2006-2007
Location: Batumi / GEORGIA
Client: TAV
Total Area: 31.705 (4.080 TB)mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- LAN
- WAN
- Airport Wide
- SMATV
- Integration



ENFIDHA - HAMMAMET INTERNATIONAL AIRPORT



Date: 2007-2009
Location: Enfidha / TUNISIA
Client: TAV
Total Area: 315.000 (134.000 TB)mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- Airport Wide
- ULV Systems Infrastructure and Installation (FA, PA, MC, BMS, RCT, Automation)
- Security Systems Infrastructure and Installation (CCTV, AC)
- Integration

MILAS BODRUM INTERNATIONAL AIRPORT



Date: 2011-2012
Location: Bodrum / TURKEY
Client: ASTALDI
Controller : DHMI
Total Area: mt²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- LAN / WAN / WLAN
- PABX (Intercom, IP, Hybrid, DECT)
- Immigration System (complete)
- IPTV
- FIDS
- ULV Systems (FA, PA, MC, BMS, Ramp Control Tower, Car Park)
- Security Systems Infrastructure (CCTV, AC)
- Integration



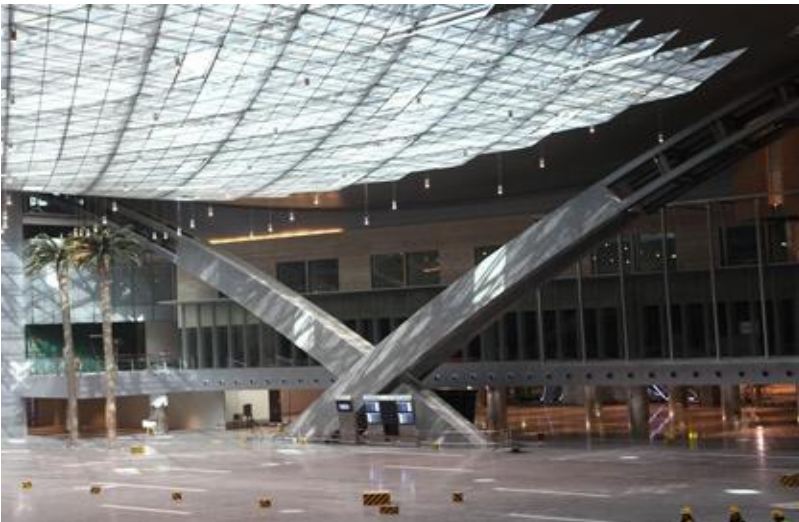
NEW DOHA INTERNATIONAL AIRPORT



Date:	2006-2012
Location:	Doha / QATAR
Client:	TAV
Controller :	OBI
Total Area:	TB 505.000 mt ²

SCOPE

- Design and Build
- Structured Cabling (TDS)
- Containment System
- Fire Stopping
- WLAN
- LAN and PA UPS
- Turnstile and Intelligate
- Integration



NEW ASHGABAT INTERNATIONAL AIRPORT



Date	:	2015-2016
Location	:	Ashgabat / TURKMENISTAN
Client	:	POLIMEKS
Controller	:	ILF
Total Area	:	425.000 mt ²
TB Area	:	146.500 mt ²

SCOPE

- Build
- Structured Cabling (TDS)
- Containment System
- Airport Wide Area
- LAN and WLAN
- Data Center
- IPTV
- IP PBX

ISTANBUL NEW INTERNATIONAL AIRPORT



Date: 2015-2016
Location: Istanbul / **TURKIYE**
Client: IGA

SCOPE

- Designer and Consultancy
 - Design Scope
 - Structured Cabling (TDS)
 - Airport Wide Area
 - LAN / WAN / WLAN
 - IP PBX
 - Intercom
 - Security Systems Infrastructure (CCTV, AC)
 - Perimeter Security
 - Data Center
 - Network Security (NGFW, IPS, Web Gateway, E-Mail Security, End Point Protection, NAC, DDoS, ATP, MDM, WAF)
 - SIEM
 - Integration

DATA CENTER REFERENCES



FINANSBANK DISASTER RECOVERY CENTER

Client Name and Adress :

FINANSBANK Co.
Büyükdere Cad. No:129 34394 Gayrettepe / ISTANBUL



Project Description and Location:

Finans Bank Disaster Recovery Center (DRC) Design and Build Project Beytepe Köyü Yolu 5.Cd. No:2 Cyberplaza F-Blk Bilkent / ANKARA

Duration :

May 2007 - September 2008

Scope of Work:

Design & Implementation of 5000 m2 indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, 2x4000 KVA redundant total 8000 KVA, Diesel Jenarator, CCTV, Access Control, Fire Alarm and Security System, Total Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper and all network equipment.

TERRAMARK NAP ISTANBUL DATA CENTER

Client Name and Adress :

TERREMARK WORLDWIDE, INC.
Çobançeşme Mah. Kırmızı Sok. No:30 Yenibosna / ISTANBUL



Project Description and Location:

Terremark NAP Istanbul Data Center Construction ISTANBUL

Duration:

MAY 2009 - OCTOBER 2009

Scope of Work:

Design & Implementation of 2000 m2 indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, 2x400 KVA redundant total 800 KVA, Access Control and Security System, Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper.

SYDGM DATA CENTER

Client Name and Adress :

**Social Assistance and Solidarity General Directorate
Karanfil St. No: 67 Kızılay - ANKARA**



Project Description and Location:

**Social Assistance and Solidarity General Directorate Design
and Build Project
Karanfil St. No: 67 Kızılay - ANKARA**

Duration :

July 2010 - November 2010

Scope of Work:

Design & Implementation of 150 m2 indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, 2x100 KVA redundant total 200 KVA, Diesel Jenarator, CCTV, Access Control, Fire Alarm and Security System, Total Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper and all network equipment.

TURKISH PETROLEUM CORP. DATA CENTER

Client Name and Adress :

**Turkish Petroleum Corporation
Sogutozu, 2180nd Avenue No: 86
06100 Çankaya – Ankara / TURKIYE**



Project Description and Location:

**Turkish Petroleum Corporation Data Center Design and Build Project
Sogutozu, 2180nd Avenue No: 86
06100 Çankaya – Ankara / TURKIYE**

Duration :

March 2012 – May 2012

Scope of Work:

Design & Implementation of 4 No's of 400sqm indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, Diesel Jenarator, CCTV, Access Control, Fire Alarm and Security System, Total Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper and all network equipment.

ANADOLU NEWS AGENCY DATA CENTER

Client Name and Adress :

Anadolu News Agency
GMK Road 128/C 06430
Maltepe ANKARA



Project Description and Location:

Anadolu News Agency Data Center Design and Build Project
GMK Road 128/C 06430
Maltepe ANKARA

Duration :

June 2012 – August 2012

Scope of Work:

Design & Implementation of 300sqm indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, Diesel Jenarator, CCTV, Access Control, Fire Alarm and Security System, Total Passive Infrastructure; Data Cabinets and Data cabling/Patching System both Fiber and Copper and all network equipment.

MINISTRY OF FAMILY AND SOCIAL AFFAIRS DATA CENTER

Client Name and Adress :

**Ministry of Family and Social Affairs
Sogutozu, Bayraktar Twin Towers
06100 Çankaya – Ankara / TURKIYE**



Project Description and Location:

**Ministry of Family and Social Affairs Data Center Design and Build Project
Sogutozu, Bayraktar Twin Towers
06100 Çankaya – Ankara / TURKIYE**

Duration :

May 2012 – August 2012

Scope of Work:

Design & Implementation of 200sqm indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, Diesel Jenarator, CCTV, Access Control, Fire Alarm and Security system, Total Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper and all network equipment.

ISTANBUL NEW INTERNATIONAL AIRPORT DATA CENTER

Client Name and Adress :

**İGA Airport Operating Incorporated Company
Kemberburgaz / Istanbul / TURKIYE**



İGA Havalimanı İşletmesi A.Ş.

Project Description and Location:

**İGA Data Center Design and Build Project
Istanbul New Airport / TURKIYE**

Duration :

April 2015 – October 2015

Scope of Work:

**Consultancy:
Design & Implementation of 2000 sqm indoor area, Redundant HVAC System, Redundant Electrical System, UPS system, Diesel Jenarator, CCTV, Access Control and Security System, Total Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper and all network active equipment.**

AFAD MAIN DATA CENTER

Client Name and Adress : **AFAD (Disaster and Emergency Management Presidency)
Main Data Center**

Project Description and Location: **AFAD MAIN Data Center Design and Build Project
ANKARA / TURKIYE**

Duration : **November 2015 – November 2016**

Scope of Work: **Design and Build :**
Design & Implementation of 430 sqm indoor area civil work, InRack & InRow 600 kW Redundant Cooling System, Redundant Electrical System, 500 kW UPS system, Diesel Jenarator, CCTV, Access Control and Security System, Total Passive Infrastructure; Data Cabinets and Data Cabling/Patching System both Fiber and Copper and all network active equipment. NOC Room and Administration Room



TKGM MAIN DATA CENTER & DISASTER RECOVERY CENTER

Client Name and Adress :

**TKGM (General Directorate of Land Registry and Cadastre)
Ankara/TURKIYE**

Project Description and Location:

**TKGM (General Directorate of Land Registry and Cadastre) Main
Data Center In Ankara & Disaster Recovery Center In Yozgat
Design and Build Project
Ankara & Yozgat / TURKIYE**

Duration :

Marc 2015 – Decembre 2015

Scope of Work:

Design and Build :

**Design & Implementation of 125 sqm indoor area civil work,
InRack and InRow 450 kW Redundant Cooling System,
Redundant Electrical System, 500 kW UPS system, Diesel
Jenarator, CCTV, Access Control and Security System, Total
Passive Infrastructure; Data Cabinets and Data Cabling/Patching
System both Fiber and Copper and all network active equipment.
NOC Room and Administration Room**



Tapu ve Kadastro
Genel Müdürlüğü

TSE DATA CENTER

Client Name and Adress :

**TSE (Turkish Standards Institution) Data Center
Ankara/TURKIYE**

Project Description and Location:

**TSE (Turkish Standards Institution) Data Center Data Center
Desing & Build Project
Ankara / TURKIYE**

Duration :

Decembre 2015 – Agust 2016

Scope of Work:

**Design and Build :
Design & Implementation of 100 sqm indoor area civil work,
Inrow 240 kW Redundant Cooling System, 250 kW UPS system,
CCTV, Access Control and Security System, Total Passive
Infrastructure; Data Cabinets and Data Cabling/Patching System
both Fiber and Copper and all network active equipment.**



MINISTRY OF FAMILY AND SOCIAL AFFAIRS DATA CENTER



MINISTRY OF FAMILY AND SOCIAL AFFAIRS DATA CENTER



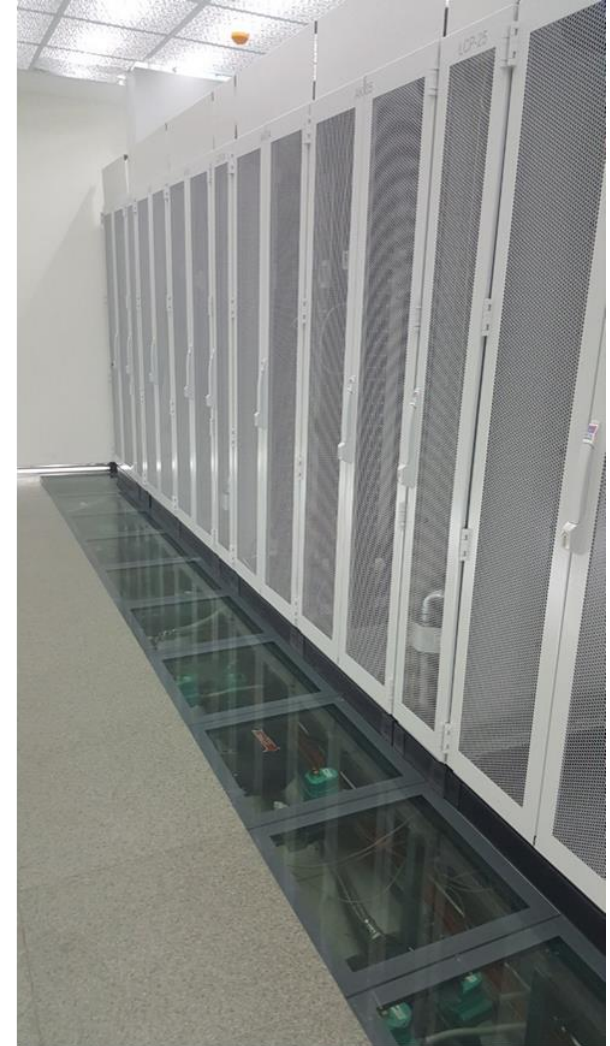
AFAD MAIN DATA CENTER



AFAD MAIN DATA CENTER



AFAD MAIN DATA CENTER



AFAD MAIN DATA CENTER



AFAD MAIN DATA CENTER



AFAD MAIN DATA CENTER



AFAD MAIN DATA CENTER

AFAD Data Center
Ankara

Overview of the data center floor plan showing various server racks and equipment. The interface includes a navigation tree on the left, a main monitoring area with a floor plan, and a message log at the bottom.

BK-04

Smoke	OK		
Rack Temperature	22.00 °C		
Rack Humidity	53.50 %		
Front door status	Closed		
Rear door status	Closed		
PDU-A	L1	L2	L3
Voltage	231.1 V	231.8 V	231.3 V
Current	0.00 A	0.00 A	0.26 A
Power	0 W	0 W	44 W
PDU-B			
Voltage	221.9 V	221.5 V	221.1 V
Current	0.00 A	0.00 A	0.88 A
Power	0 W	0 W	208 W

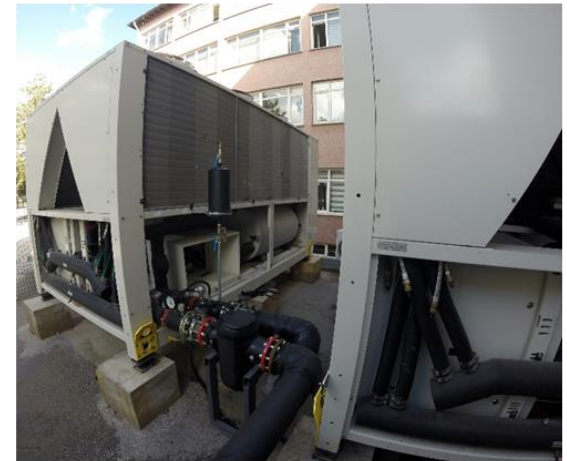
AFAD VERI FABRİKASI
HABERLEŞME HABERLEŞME MCC1 MASTER

Detailed electrical schematic showing power distribution, MCC (Motor Control Center) units, and various electrical components. The interface includes a navigation tree, a main monitoring area with a schematic, and a message log at the bottom.

AFAD VERI FABRİKASI
HABERLEŞME HABERLEŞME MCC2 MASTER

Detailed electrical schematic showing power distribution, MCC (Motor Control Center) units, and various electrical components. The interface includes a navigation tree, a main monitoring area with a schematic, and a message log at the bottom.

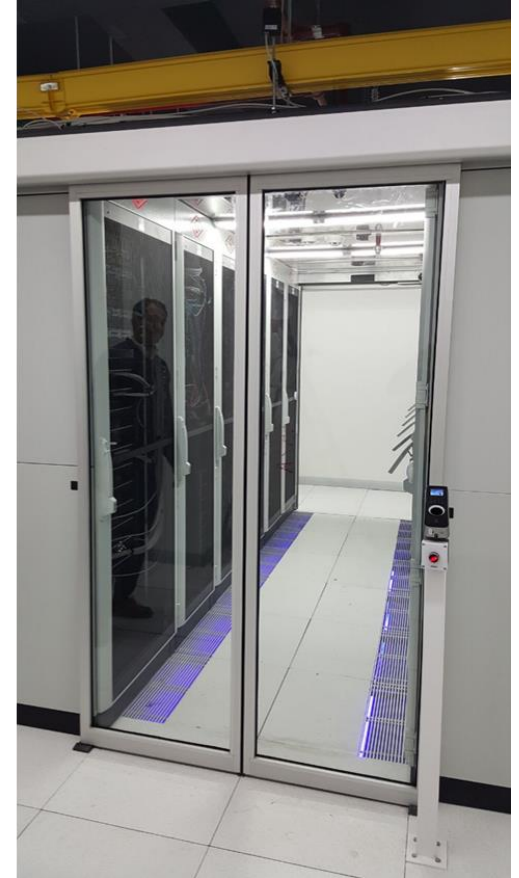
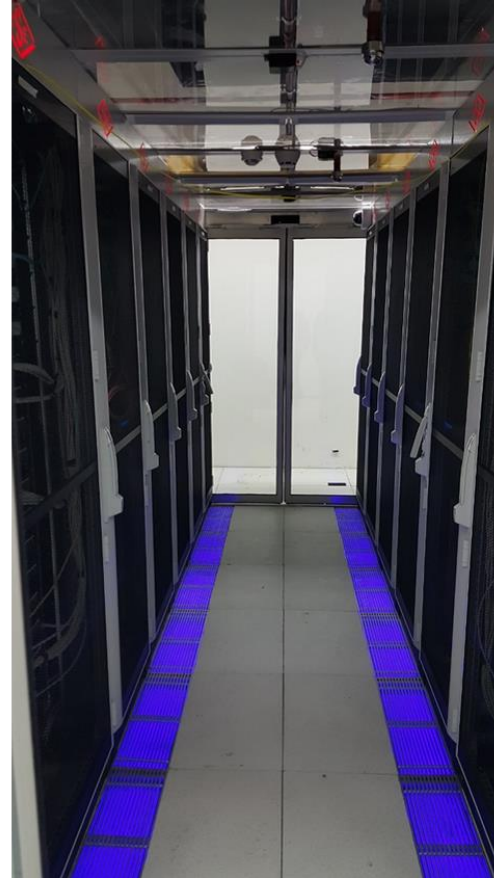
TKGM MAIN DATA CENTER & DISASTER RECOVERY CENTER



TKGM MAIN DATA CENTER & DISASTER RECOVERY CENTER



TSE DATA CENTER



SECURITY SYSTEM REFERENCES



ENFIDHA - HAMMAMET INTERNATIONAL AIRPORT



Date: 2007-2009
Location: Enfidha / TUNISIA
Client: TAV
Total Area: 315.000 (134.000 TB)mt²

SCOPE

- Design and Build
- CCTV System (438 Each IP Base Camera)
- Access Control System
- Gate Control and Plate Recognition System
- Integration



MILAS BODRUM INTERNATIONAL AIRPORT



Date: 2011-2012
Location: Bodrum / TURKEY
Client: ASTALDI
Controller : DHMI
Total Area: mt²

SCOPE

- Design and Build
- CCTV System (716 Each IP Base Camera)
- Access Control System
- Gate Control and Plate Recognition System
- Integration



ISTANBUL NEW INTERNATIONAL AIRPORT



Date: 2015-2016
Location: Istanbul / **TURKIYE**
Client: IGA

SCOPE

- Designer and Consultancy
 - Design Scope
 - CCTV System (5147 Each IP Base Camera)
 - Perimeter Security
 - Access Control
 - Gate Control & Plate Recognition System
 - Integration



QATAR RAIL PROJECT



Date: 2017-
Location: Doha / QATAR
Client: THALES
Controller : QATAR RAIL AUTHORITY
Peak Manpower: 1450

SCOPE

1. CCTV System (587 Each IP Base Camera)
2. Access Control System



MERSİN/TURKEY CITY SECURITY PROJECT



Date: 2011
Location: MERSİN / TURKEY
Client: MERSİN GOVERNORSHIP
Controller : MERSİN GOVERNORSHIP

SCOPE

1. CCTV Controller Rack's
2. CCTV Camera
3. Operation Center



PARTNERS



BOSCH

Yaşam için teknoloji



milestone

SHOPPING MALL REFERENCES



FORUM ANKARA MALL



Date: 2008
Location: Ankara / TURKEY
Design: T+T Design (Holland)
Client: Multi Turkmall



SCOPE

- Design and Build Scope
- Project Management
- Cisco indoor & outdoor Access Points Installation
- 7 units of Cisco 6500 series installation with Ring Topology
- Sales and Integration
- 86.300m2 rentable area
- 1387 units of data termination

FORUM AYDIN MALL



Date: 2008
Location: Aydın / TURKEY
Design: T+T Design (Holland)
Client: Multi Turkmall

SCOPE

- Design and Build Scope
- Project Management
- Cisco indoor & outdoor Access Points Installation
- 7 units of Cisco 6500 series installation with Ring Topology
- Sales and Integration
- 76.000m2 total area, 30.000m2 rentable area
- 766 units of data termination



FORUM TRABZON MALL



Date: 2008
Location: Trabzon / TURKEY
Designer: Arup
Client: Segatech

SCOPE

- Design and Build Scope
- Structured Cabling (TDS)
- ULV Cabling
- 50.000m2 rentable area
- 3300 units of data (Trunk cable with finish), 400 units of CAT6, 750 units of F/O, 2700 pair CAT3 terminations



GORDION MALL



Date: 2009
Location: Ankara / Turkey
Client: Segatech
Controller : Segatech

SCOPE

- Design and Build Scope
- Structured Cabling (TDS)
- ULV Cabling
- 50.000m² rentable area
- 2800 units of data, 700 units of F/O,
2500 pair CAT3 terminations

CITY HOSPITAL REFERENCES



ANKARA BİLKENT CITY HOSPITAL CAMPUS



Date: 2018
Location: Ankara / TURKEY
Owner: CCN Holding
Client: Siemens Turkiye

SCOPE

- 173,650 CAT6A Termination
- 51,800 Fiber Optic Termination
- 50,633 Fire Detection Equipment
- 378 Central Clock
- 7,685 Speaker
- 596 Smart Card Reader
- 1,528 CCTV Camera



RAILWAY REFERENCES



METRO ANKARA WAYSIDE



Date : 2013-2014
Location : Ankara / TURKEY
Client : ANSALDO STS
Controller : Yüksel Proje and Ministry of Transportation

SCOPE

- Excavation and Piping
- Installation and laying of all signaling cables
- Outdoor Access Points Installation
- Installation of all signaling equipment
- Installation of all interlocking equipment
- Installation of Track Circuits and Switch Point Machines
- Installation of all the controller and comms cabinets
- Installation of all the monitoring and operating equipment
- Tests and handover
- Project Management and Coordination

QATAR RAIL PROJECT



Date : 2017- 2019
Location : Doha / QATAR
Client : THALES
Controller : QATAR RAIL AUTHORITY
Peak Manpower : 1450

SCOPE

1. Installation of Primary and Secondary Containment.
2. Installation of Telecom/Network and Signaling Equipment.
3. Termination and testing of cable and equipment.
4. Functional testing of the installed systems

SYSTEMS IN SCOPE ARE AS FOLLOWS

- A. Access Control System
- B. Public Address System
- C. CCTV System
- D. PBX System
- E. Signalling System
- F. WLAN System
- G. DAS / TETRA System
- H. Signage
- I. Information Display Systems
- J. SCADA System
- K. MOI / OOREDOO System



İZMİR RAILWAY PROJECT



Date	: 2015-2016
Location	: İzmir / TURKEY
Client	: THALES-SAVRONİK
Controller	: Ministry of Transportation

SCOPE

- Excavation and Piping
- Installation and laying of all signaling cables
- Installation of all signaling equipment
- Tests

İZMİR İZBAN SUBURBAN LINE PROJECT



Date : 2015-2016
Location : İzmir / TURKEY
Client : SAVRONİK
Controller : İzmir Municipality

SCOPE

- Between Aliaga To Alsancak Line Wi-Fi and Passenger Information Systems
- Total Stations : 20



GEBZE-KÖSEKÖY HIGH SPEED TRAIN PROJECT



Date : 2015-2016
Location : Gebze / TURKEY
Client : ANSALDO STS
Controller : Ministry of Transportation

SCOPE

- Excavation and Piping
- Installation and laying of all signaling cables
- Installation of all signaling equipment
- Tests



METRO ANKARA ONBOARD



Date : 2013-2014
Location : Ankara / TURKEY
Client : ANSALDO STS
Controller : Ministry of Transportation

SCOPE

- Installation and laying of all signaling cables on to the metro vehicles
- Installation & connection of CBTC equipments
- Supply and Installation of car body equipments and mechanical parts
- Continuity and Power up Tests
- Project Management & Coordination

INFRASTRUCTURE REFERENCES



Manisa Organized Industrial Zone Fiber Optic Infrastructure



Date : 2013-2014
Location : Manisa / TURKEY
Client : Superonline/TURKCELL
Controller : Superonline/TURKCELL

SCOPE

- 38,750 mt Tranching
- 59,800 mt Fiber Cable
- 14,376 Core Fiber Splice
- 2,148 m³ Concrete
- 2,325 Tons Asphalts



Hotel InRoom Entertainment and Communication Systems REFERENCES



IPTV REFERENCES

Hotels

- **10000+ Hotel Rooms under operation**
- **Prestigious Hotels with Interactive TV and SMATV solutions:**
 - ÇIRAGAN PALACE KEMPINSKI İSTANBUL
 - SWISSÔTEL THE BOSPHORUS İSTANBUL
 - SHERATON ATAKÖY İSTANBUL
 - SHERATON MASLAK İSTANBUL
 - BTA AIRPORT HOTEL İSTANBUL
 - ELITE WORLD HOTEL İSTANBUL
 - HOLIDAY INN ŞİŞLİ İSTANBUL
 - MARRIOTT ASIA İSTANBUL
 - MARRIOTT COURTYARD İSTANBUL
 - MARRIOTT EDITION İSTANBUL
 - PERA PALACE İSTANBUL
 - POLAT RENAISSANCE İSTANBUL
 - RAMADA PLAZA HOTEL İSTANBUL
 - TITANIC BUSINESS HOTEL KARTAL
 - TITANIC CITY HOTEL TAKSİM
 - BİLKENT HOTEL CONFERENCE CENTER
 - SHERATON HOTEL & CONVENTION CENTER ANKARA
 - DOUBLE TREE by HILTON ANKARA
 - HOLIDAY INN ANKARA
 - CLUB SALIMA ANTALYA
 - GLORIA GOLF ANTALYA
 - GLORIA SERENITY ANTALYA
 - MARDAN PALACE ANTALYA
 - RENAISSANCE ANTALYA BEACH RESORT & SPA
 - SHERATON VOYAGER ANTALYA HOTEL-RESORT&SPA
 - SUNGATE PORT ROYAL ANTALYA
 - KEMPINSKI HOTEL BARBAROS BAY BODRUM
 - POLAT RENAISSANCE ERZURUM
 - SHERATON METECHI PALACE HOTEL TBILSI
 - TBILISI MARRIOTT and COURTYARD
 - DEDEMAN KONYA HOTEL & CONVENTION CENTER
- **New Signed IPTV & ITV / DTV Hotels:**
 - MEYRA PALACE ANKARA
 - HOLIDAY INN ANKARA
 - WYHNDAM PETEK İSTANBUL
 - SHERATON BURSA
 - ALOFT BURSA

Corporate

- **Airports:**
 - Bodrum International Airport

GENERAL REFERENCES

No	Name of the Project	Contractor
1	Atatürk Airport, New International Flight Terminal, Data and Communication Infrastructure and VLAN based Local Area Network Project (Lucent Systemax SCS application- Certified System)	TAV
2	Union of Turkish Agriculture Credit Cooperatives, Communication Systems Project (16 Regional Headquarters, and 2404 Cooperative Buildings, Implementation of LAN, WAN and Low Power Applications)	Meteksan
3	TAV Communication System Management Contract (3 years)	TAV
4	Atatürk Airport New International Flight Terminal 30% enlargement Project, Communication and Control Systems Project (Lucent Systemax SCS application- Certified System) and Local Area Network Data Active Equipments	TAV
5	Halk Bank, Central Building, Structured Cabling System, Gigabit Local Area Network Project and Application and Medium to Low Power Project and Application (34 Storey Building on Eskişehir Street– 7000 Users), (Lucent Systemax SCS application-Sertified System)	MNG
6	MEB Schools Computer Laboratories Project (Computer Laboratories Communication Systems Project, Installation and Internet Connections for 500 Schools)	Meteksan
7	Vinsan A.Ş. New Service Building Communication and Control Systems, Low to Medium Power Project and Application	VİNSAN
8	EGM (Emniyet Genel Müdürlüğü) Internet System and Infrastructure Project and Installation	EGM
9	“Çocuk Esirgeme Kurumu” Automation Project, Including LAN and WAN communication systems, (13 provinces, and Central Office, More than 400 Users) {Active equipment, HP Swithces, Cisco Routers and RASes, Tellabs and NewBridge modems}	SHÇEK
10	Vakıflar Genel Müdürlüğü, LAN-WAN & Voice Application (6 Provinces and Central Office, More than 500 Users in the Central Office) {Active Equipment: 3COM Switches and HUBs, Cisco Routers and Remote Access Equipment, Tellabs and CXR Modems, 3Com Transcend management platform}	VGM
11	GATA HaydarPaşa Hospital, Data Network Project, (8 Buildings in a campus, More than 400 Users) {Active equipment; HP Routing switches and segment switches, Cisco Routers and Tellabs modems}	Meteksan
12	DHİMİ Server and Passport Communication Systems Project	Meteksan
13	EGM (Emniyet Genel Mudurlugu) Police Profession High Schools Communication Systems Project	Sekom
14	Vakıflar Bank New Service Building, Structured Cabling System for voice and data applications and call center including the MDF of the PABX system, (more than 900 Users) (Lucent SCS Gigabit application, Sertified system) {Active equipment; Cisco Routing swiches and segment switches}	Akfen A.Ş.
15	Elele Vakfı Rehabilitation Hospital Automation Project, (11 Buildings in a campus, More than 600 Users, Back Office Data and Hospital Automation Applications) {Active Equipment, HP & Nortel Backbone and segment swithces, Nortel Routers, Tellabs Modems}	Sispa A.Ş.
16	EGM (Emniyet Genel Mudurlugu) Maintenance Contract	Lucent
17	EGM (Emniyet Genel Mudurlugu) District Communication Equipments And Substructure Cabling Project	Meteksan
18	Hospital of Akdeniz University, Transplantation Centre, Data Network and Automation System	Sispa A.Ş.
19	T.C. Foreign Affairs Ministry Coast Security Commandership Communication Systems Project (LAN and WAN application with total 120 users in İstanbul, İzmir, Ankara), (Lucent Systemax SCS Uygulaması- Certified System)	Dz.K.K.

GENERAL REFERENCES

20	Türkiye Coal Administration Communication Systems and Energy Distribution Systems Project	Meteksan
21	ÇAYKUR, Automation Project (Phase 1)	Meteksan
22	MTA Communication Systems Project	Meteksan
23	Filpark A.Ş. Communication and Server Systems Project	FilPark
24	Tekel General Administration Communication Systems Project (130 nodes)	Meteksan
25	Ministry of Public Health, Country-wide Healthcare Project, (72 provinces). {Active Equipment: DEC Terminal Servers, Repeaters, 3COM Switchesı, 3COM HUBs, Allied Telesyn Fiber/UTP and Fiber/AUI converters}	Sağlık Bakanlığı
26	Sarar Giyim A.S. Communication Systems Design And Application Project	Sarar
27	Fatih University Data Communication Systems {Active equipment; HP Routing Switces and segment switches}	Fatih Üni.
28	Vakıflar Bank New Service Building, Structured Cabling System for voice and data applications and call center including the MDF of the PABX system, (more than 900 Users) (Lucent SCS Gigabit application, Sertified system) {Active equipment; Cisco Routing swiches and segment switches}	Vakıflar BİM
29	Sivas Cumhuriyet University Campus Data Network - Phase I (7 Buildings, more tha 220 Users, fiber and UTP infrastructure) {Active Equipment: HP AdvanceStack Switches and HUBs, FDDI-Ethernet network}	Sivas Cumhuriyet Üniversitesi
30	Ministry of Education, “İl Eğitim Müdürlükleri Otomasyon Projesi (İLSİS)” Data Networks (16 Provinces, more than 640 users)	Meteksan
31	Sarar Inc. Communication Systems Design and Application Project	Sarar
32	Prime Ministry Social Aid and Solidarity Fund, Phase 1 Project	SYD
33	Halk Bank, Training and Intelligence Offices Data Networks (45 Provinces – More than 800 Users), (Lucent Systimax SCS application-Sertified System), {Aktive Equipment: BayNetworks BayStack HUBs and switches}	Halk Bankası
34	Ministry of Education, Open Lycee, Structured Cabling and Energy Distribution project (More than 400 Users)	Meteksan
35	“DSİ” Adana Automation Project, (5 Buildings, more than 150 Users) {Active equipment; Cisco switches and routers}	DSİ
36	İstanbul Atatürk Airport Passport Network and WAN connection (Lucent Systimax SCS application-Certified System)	EGM
37	Bursa Municipality Court Structured Cabling System {6 Buildings, more than 400 Users} (Lucent Systimax SCS Data Application-Sertified System)	Peker İnşaat
38	Tarım Bakanlığı ve Koy Hizmetleri Central Building Communication Systems Project	Tarım Bakanlığı
39	Sivas Cumhuriyet University Campus Data Network - Phase I (6 Buildings, more tha 220 Users, fiber and UTP infrastructure) {Active Equipment: HP AdvanceStack Switches and HUBs, FDDI-Ethernet network}	Meteksan
40	Ministry of Health, “Hemşirelik Yüksek Okulu” Automation and Communication Project	Meteksan
41	“DSİ” Erzurum Automation Project, (5 Buildings, more than 150 Users) {Active equipment; Cisco switches and routers}	MNG İnşaat

GENERAL REFERENCES

42	ÇAYKUR, Automation Project (Phase 2) (11 Provinces, More than 200 Users){Active Equipment; HP Switches, cisco routers, Tellabs and CXR Modems}	Meteksan
43	Kazakistan Atrau, Residences Communication Systems and structured cabling systems	SİMKO
44	Akdeniz University Campus Data Network (6 Buildings) (Lucent Systimax SCS Data application-Sertified System), {Active Equipment: BayNetworks BayStack HUBs and Switches,}	AÜ Döner Sermaye
45	Provision of consultancy services related with the SCADA Systems of the İzmir Aydın Motorway Selatin tunnel during the preparation of the bid documents.	Kutlutaş
46	Ministry of Finance Communication Systems Application Project (A total of 150 users İstanbul, Ankara and İzmir)	Meteksan
47	Coca Cola Central Office Energy Distribution and Structured Cabling systems	Aysu Elektrik
48	ÇimSa Communication Systems Project	ÇimSa
49	Ministry of Finance Data Network and WAN application (X.25 TURPAK) , {Active Equipment: BayNetworks BayStack HUBs and Switches, BayStack AN Routers and CXR modems}	Meteksan
50	HB Maintenance Contract (1 Year)	Halk Bankası
51	Ministry of Labor Local Area Network HP Network Active Equipment Project	Meteksan
52	BOTAŞ Pipe Line, G703 Switching Router SCADA Communication Project	OPKON A.Ş.
53	Presidency of Republic Campus Communication Systems Project	Cumhurbaşkanlığı
54	Kızılay Communication Systems Project	Meteksan
55	Gendarme General Commandership Information School Communication Systems Application Project (3 Buildings, 88 Users) (Active Equipment: BayNetworks, BayStacks, 350 F-HD 10/100 Switching equipment)	Meteksan
56	English Embassy, Ankara, İstanbul and İzmir Offices Communication Systems Project (Lucent Systimax SCS application – Certified System)	İngiltere Büyükelçliği
57	ODTÜ Management Department Communication Systems Application Project (350 Users, Structured Cabling)	SEKOM
58	Air Force Commandership Eskişehir Office modernization Distributed Digital Control System Design and Application Project (Active Equipment: Decitek RAS equipment and DNC software)	1.H.İ.B.M. Komutanlığı
59	Supervision of the Kınalı Sakarya Motorway İzmit Tunnels, SCADA systems, during the Final Acceptance Period.	ENET A.Ş.
60	Provision of consultancy services related with the SCADA Systems of the İstanbul Ankara Motorway Bolu tunnel during the preparation of the bid documents.	Yüksel Proje A.Ş.
61	Deciding KGM (Karayolları Genel Mudurluğu) Tunel Control System Criteria with KGM supervisors	KGM
62	Ministry of Finance Data Network and WAN application (X.25 TURPAK) , {Active Equipment: BayNetworks BayStack HUBs and Switches, BayStack AN Routers and CXR modems}	Maliye Bakanlığı
63	Kocaeli University Campus Data Network (4 Buildings, More than 200 Users) {Active Equipment, HP and 3Com switches}	Sispa A.Ş.

GENERAL REFERENCES

64	Spanish Embassy Office Automation Project, Data network, UPS Distribution System, Computers, Servers and MS SW, {Active Equipment: HP HUBs and Patton RAS}	İspanya B. Elçiliği
65	Anadolu University, Faculty of Remote Learning & Education, Data and Video Network (Lucent Systimax SCS Data and video application-Sertified System), {Active Equipment: BayNetworks BayStack HUBs and Switches, Lucent Technologies Video Distributor and Receivers}	AÜ AÖF
66	METEKSAN Inc. LAN Project (100 Users){Active Equipment: HP Procurve 4000 switches}	Meteksan
67	Met-Koop Inc.Structured Cabling and Energy Distribution System	Meteksan
68	Elele Vakfi, Rehabilitation Hospital, video conference system	TAN A.Ş.
69	Ministry of Labor Computer Center Administration Application Project (5 Precincts, 100 Users) (Active Equipment: BayNetworks, BayStack HUB and switches)	Meteksan
70	General Commandership of Cartography, Ethernet Communication Systems Application Project (24 Users) (Active Equipment: BayNetworks, BayStack HUB and switches)	KKK
71	Yargıtay, Central Office Data Network	Yargıtay
72	İSTAŞ Cement Inc. Structured Cabling system, data network and wireless access project {Active Equipment: Lucent WaveLAN RF Ethernet Appl. Systimax SCS Data application-Sertified System}	İSTAŞ
73	Abant İzzet Baysal University, Structured Cabling System	AİBÜ
74	Ministry of Finance Data Network and WAN application (X.25 TURPAK) , {Active Equipment: BayNetworks BayStack HUBs and Switches, BayStack AN Routers and CXR modems}	Maliye Bakanlığı
75	Telerate Central Office Structured cabling system, (Lucent Systimax SCS application),	Telerate
76	Nokia Central Office Data Network, {Active Equipment: HP Switches and HP AdvanceStack HUBs}	Nokia
77	DİE Communication Systems Project	DİE
78	Dz.K. Commandership Elmadağ War Systems Maintenance Contract (Active Equipments: Fiber Optic Multiplexer Equipment, War/Crypto Equipment and Modems)	Dz.K.K.
79	DOW Türkiye, Central Office Data Network, (Lucent Systimax SCS application), {Active Equipment: DECHUB 900 Switch & Repeaters}	DOW
80	Buchart-Horn Central Office Data Network, {Active Equipment: Allied Telesyn HUB and CXR Modems}	Buchart-Horn
81	United Nations, International Organization of Refugees, Central Bureau Automation Project {Active Equipment: C-Net HUBs, Nokia Modems and Cisco Routers }	BM IOM
82	Turkish Air Force, Eskişehir Production Facilities, Distributed Numerical Control Application, {Equipment & SW: Decitek RAS, Tape Reader and DNC SW}	1.H.İ.B.M. Komutanlığı
83	R.J.Reynolds Tütün San A.Ş. Communication Systems Application Project	R.J.Reynolds



New Doha International Airport (NDIA)

MHT Contribution

mht, your technology partner,

MHT SCOPE

INITIAL

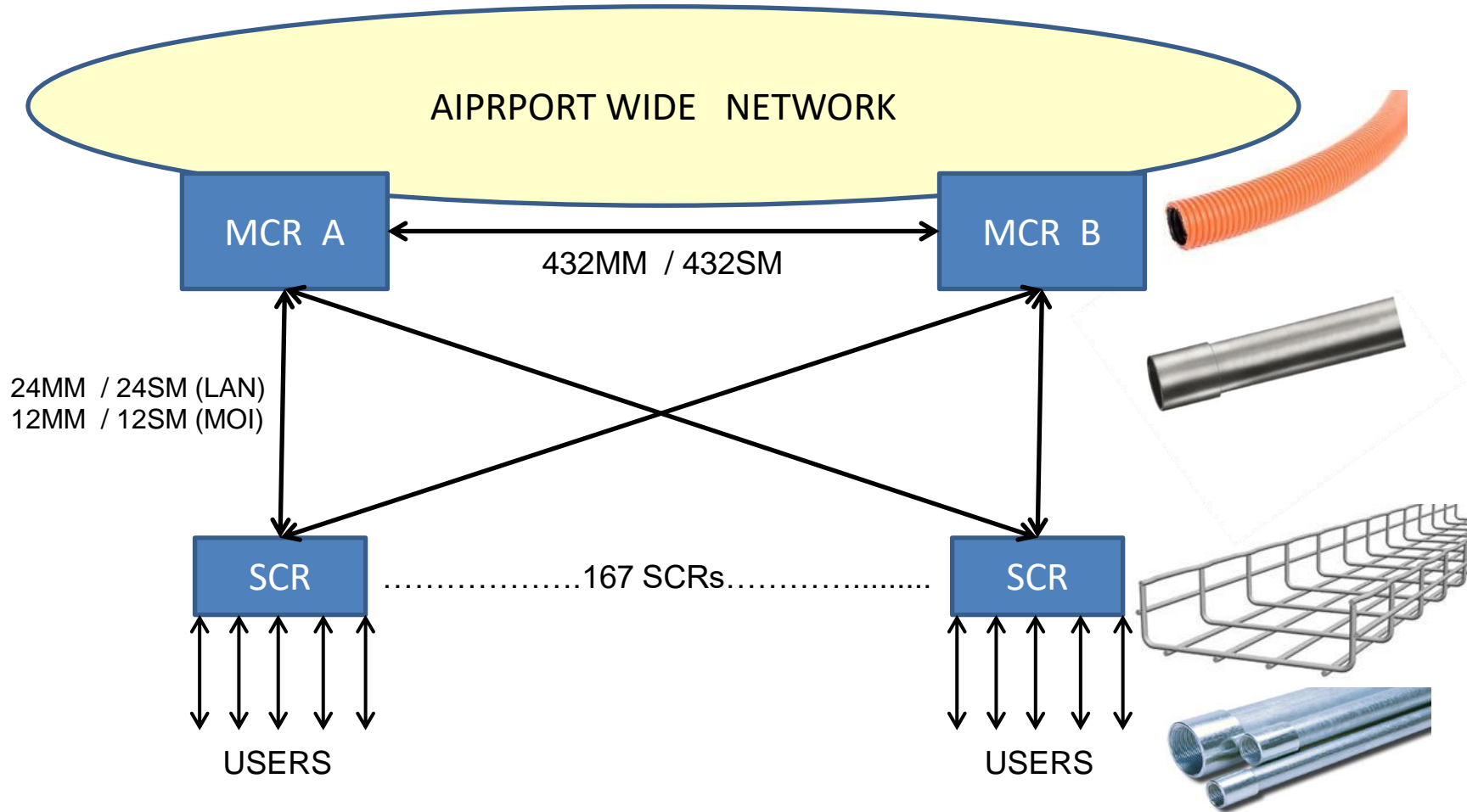
- Structured cabling (TDS)
- Pathways
- System cabinets
- Wireless Local Area Network

ADDITIONAL

- Fire stopping
- Media Converters
- LAN UPS
- PA UPS
- Turnstile, Intelligate

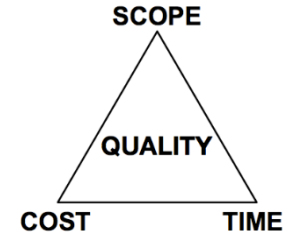


NDIA TDS TOPOLOGY



MANAGEMENT

- Balancing Triple Constraint
- Managing Contract & Risks
- Quality Manpower
- Employee Satisfaction
- Proactive Management



Certification Experience Eligibility

**Minimal turnover
Increased production
Stronger ownership**

ENVORINMENTAL SAFETY AND HEALTH (ES&H)

- Focus and Support by Management
- Adherence to Main Contractors ES&H Plan
- Performance Tracking
- Internal Awards and Events
- Flyers, Memorandums, Newsletters

PAGE 2



MHT BOT members engaged in at-risk behavior identifica-

At-risk Behaviour Mini-workshop a success!

Members of MHT Elektronik’s Behaviour Observation Team attended a series of mini-workshops last April 14 and 19 to boost their skills on at-risk behaviour identification. During the activity, they were shown a series of slides as they tried to identify the behaviours and evaluate if they are at-risk or not.



Outstanding PBS Observers Awarded

May 24 was the day when the outstanding observers for May, 2012 were awarded. The awardees for this month were: Allan Tranca (HSE Officer), Jose Melberto Frange (HSE Officer) and Enrico Cerda (First Aider). Congratulations!!!



MHT and PBS a tandem for Safety.



PLANNING

Baselines

- Overall
- Design
- Coordination
- Manpower
- Procurement
- Installation
- Inspection

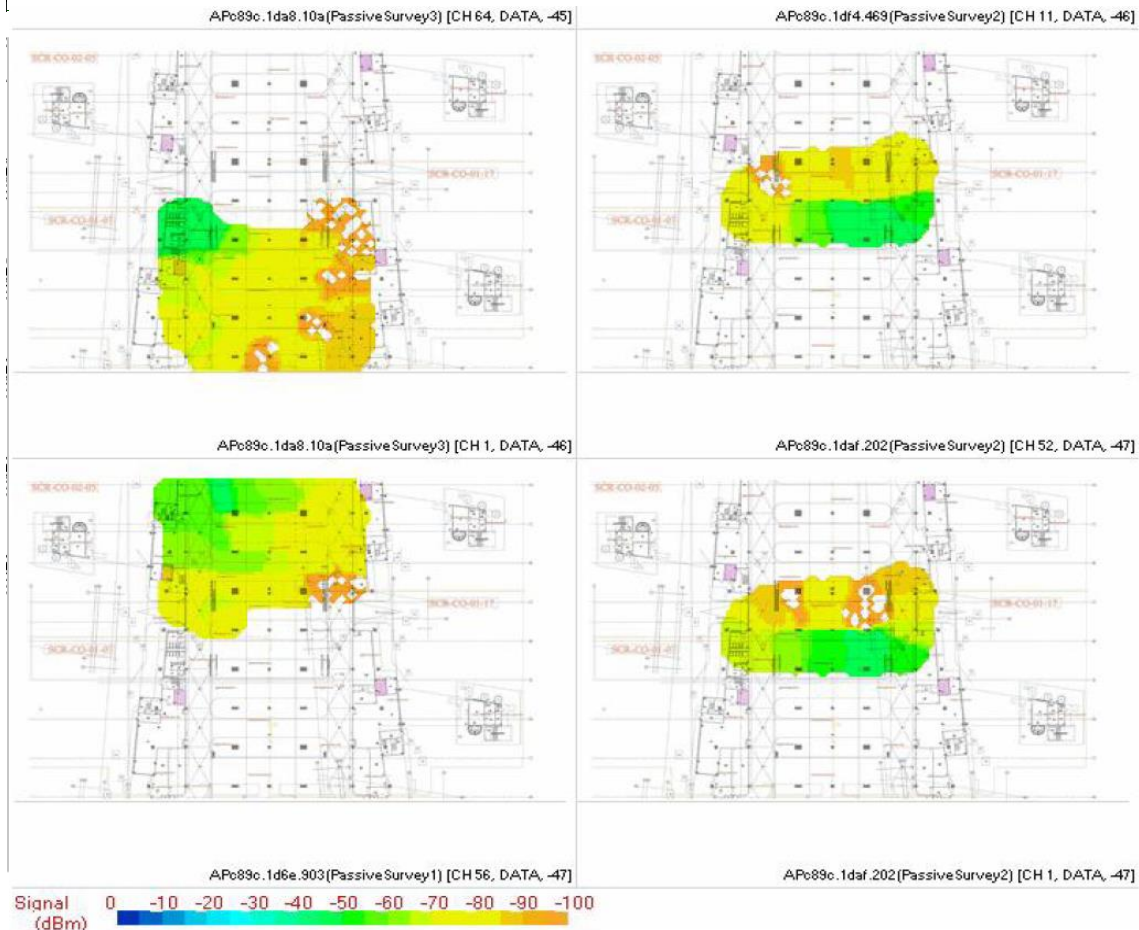
Main Contractor Integration

- 3 week rolling schedule
- 90 days rolling schedule
- Baseline updates

Activity ID	Activity Name	Original Duration	Actual Start	Actual Finish	Remaining Duration	Schedule % Complete	IT update	ULV Update	W387 ULV/SS Update	W390 CESCO Update	W390 MHT Update	W392 MHT Update	W394 MHT Update	W396 MHT Update	W399 MHT Update	W401 MHT Update
2	CHANGE ORDER															
3	Change Order 81															
4	COB1 AHU															
5	COB1 MEP Work															
6	CRCO814365 COB1-CA-Chi Tirr MEP/ULV Works Complete	0			0	0%			0%							
7	COB1 GF SCR Room (AG-01-03)															
8	CRCO811055 COB1-CA SCR Rm Elec/ULV/SS Eopt Inst /Term	15	28-May-11	5-Nov-11	15	100%		60%	30%					40%	45%	55%
9	CRCO811040 COB1-CA SCR Rm LAN Patch panel Term in Rack	7	15-Jun-11	5-Nov-11	7	100%	30%		30%					35%	37%	45%
10	CRCO811010 COB1-CA SCR Rm LAN Backbone Containment	15	3-Apr-11	5-Nov-11	15	0%	80%		80%							95%
11	CRCO811025 COB1-CA SCR Rm LAN Backbone Cabling	12	2-Jun-11	5-Sep-11	12	0%	90%		90%							100%
12	CRCO811060 COB1-CA SCR Rm ULV / SS 1st & 2nd Fix	14	3-Apr-11	5-Nov-11	14	0%	13%		10%					40%	42%	65%
13	CRCO811065 COB1-CA SCR Rm LAN Backbone Testing	2	28-Oct-11	5-Nov-11	2	0%			0%							
14	CRCO811070 COB1-CA SCR Rm ULV / SS Final Fix	15	1-Jun-11	5-Nov-11	15	0%		40%	8%							26%
15	COB1 1F SCR Room (A1-01-09)															
16	CRCO81260 COB1-CA SCR Rm Elec/ULV/SS Eopt Inst /Term	15	4-Jun-11	5-Nov-11	15	100%		40%	20%					45%	49%	62%
17	CRCO81205 COB1-CA SCR Rm LAN Backbone Containment	15	20-Apr-11	5-Nov-11	15	0%	90%		90%							
18	CRCO81220 COB1-CA SCR Rm ULV / SS 1st & 2nd Fix	15			15	0%			0%							
19	CRCO81225 COB1-CA SCR Rm LAN Backbone Cabling	15	3-Jun-11	5-Nov-11	15	0%	90%		90%							
20	CRCO81245 COB1-CA SCR Rm LAN Patch panel Term in Rack	7	28-Oct-11	5-Nov-11	7	0%			0%							
21	CRCO81250 COB1-CA SCR Rm LAN Backbone Testing	2	28-Oct-11	5-Nov-11	2	0%			0%							
22	CRCO81265 COB1-CA SCR Rm ULV / SS Final Fix	15			15	0%			0%							
23	COB1 2F SCR Room (A2-01-08)															
24	CRCO81360 COB1-CA SCR Rm Elec/ULV/SS Eopt Inst /Term	15	10-May-11	23-Dec-11	15	100%		20%	10%					35%	38%	46%
25	CRCO81305 COB1-CA SCR Rm LAN Backbone Containment	15	5-Jun-11	5-Nov-11	15	0%	90%		90%					95%		
26	CRCO81320 COB1-CA SCR Rm ULV / SS 1st & 2nd Fix	15	2-Jun-11	24-Dec-11	15	0%		100%	20%					35%	42%	59%
27	CRCO81325 COB1-CA SCR Rm LAN Backbone Cabling	15	5-Jun-11	5-Nov-11	15	0%	85%		85%							
28	CRCO81345 COB1-CA SCR Rm LAN Patch panel Term in Rack	7	28-Oct-11	5-Nov-11	7	0%			0%							
29	CRCO81350 COB1-CA SCR Rm LAN Backbone Testing	2	28-Oct-11	5-Nov-11	2	0%			0%							
30	CRCO81365 COB1-CA SCR Rm ULV / SS Final Fix	15			15	0%			0%							
31	COB1 Electrical Room (AG-01-32)															
32	CRCO81E115 COB1-CA ER Rm MEP/ULV/SS Final Fix	24	15-Jun-11	7-Nov-11	24	100%	15%	15%	15%					25%	32%	45%
33	CRCO81E105 COB1-CA ER Rm MEP/ULV/SS 1st & 2nd Fix	30	30-May-11	7-Nov-11	30	0%	50%	50%	50%					60%	68%	73%
34	COB1-Concourse B															
35	COB1 AHU															
36	COB1 MEP Work															
37	COB1 GF SCR Room (BG-20-01)															
38	CRCO81435 COB1-CB SCR Rm LAN Patch panel Term in Rack	7	20-Jun-11	5-Nov-11	7	100%	15%		15%							25%
39	CRCO81420 COB1-CB SCR Rm LAN Backbone Cabling	12	20-Apr-11	5-Sep-11	12	0%	85%		85%							100%
40	CRCO81440 COB1-CB SCR Rm LAN Backbone Containment	15	9-Apr-11	5-Sep-11	15	0%	90%		90%							100%
41	CRCO81445 COB1-CB SCR Rm ULV / SS 1st & 2nd Fix	15	2-Apr-11		15	0%	45%	45%	45%							52%
42	CRCO81455 COB1-CB SCR Rm LAN Backbone Testing	2	28-Oct-11	5-Nov-11	2	0%			0%							
43	CRCO81460 COB1-CB SCR Rm Elec/ULV/SS Eopt Inst /Term	15			15	0%			0%							

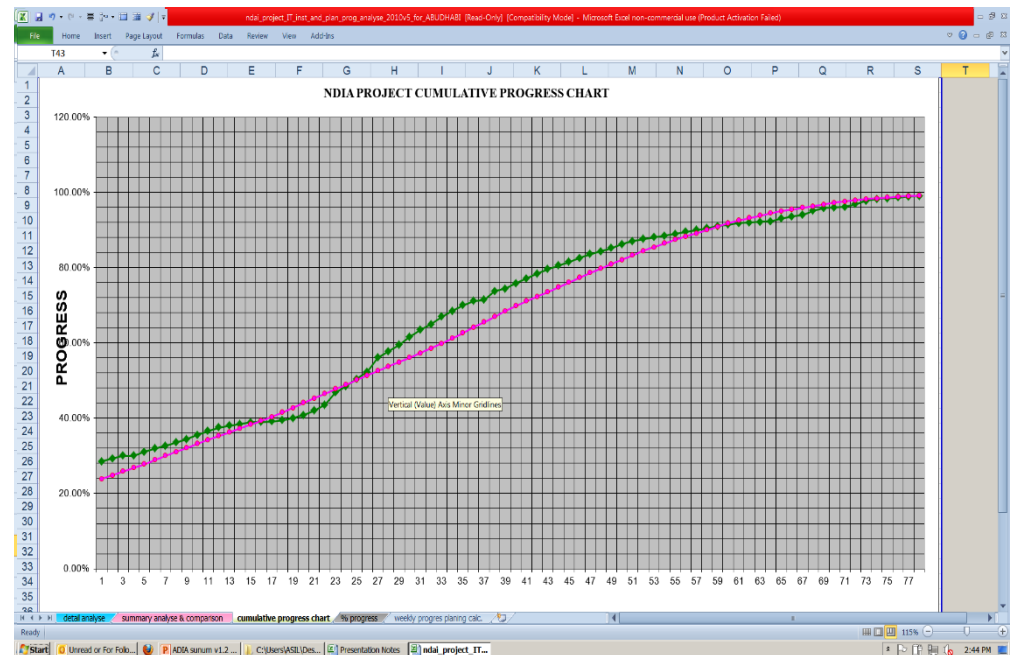
DESIGN & COORDINATION

- 30% IFR, 60% IFR, 90% IFA and 100% IFC design (1/100)
- 2 independent checks at 60% & 90% (ATKINS)
- 2D and 3D coordination
- Shop and As-built drawings (1/50)
- TDS rooms coordination
- WLAN Design

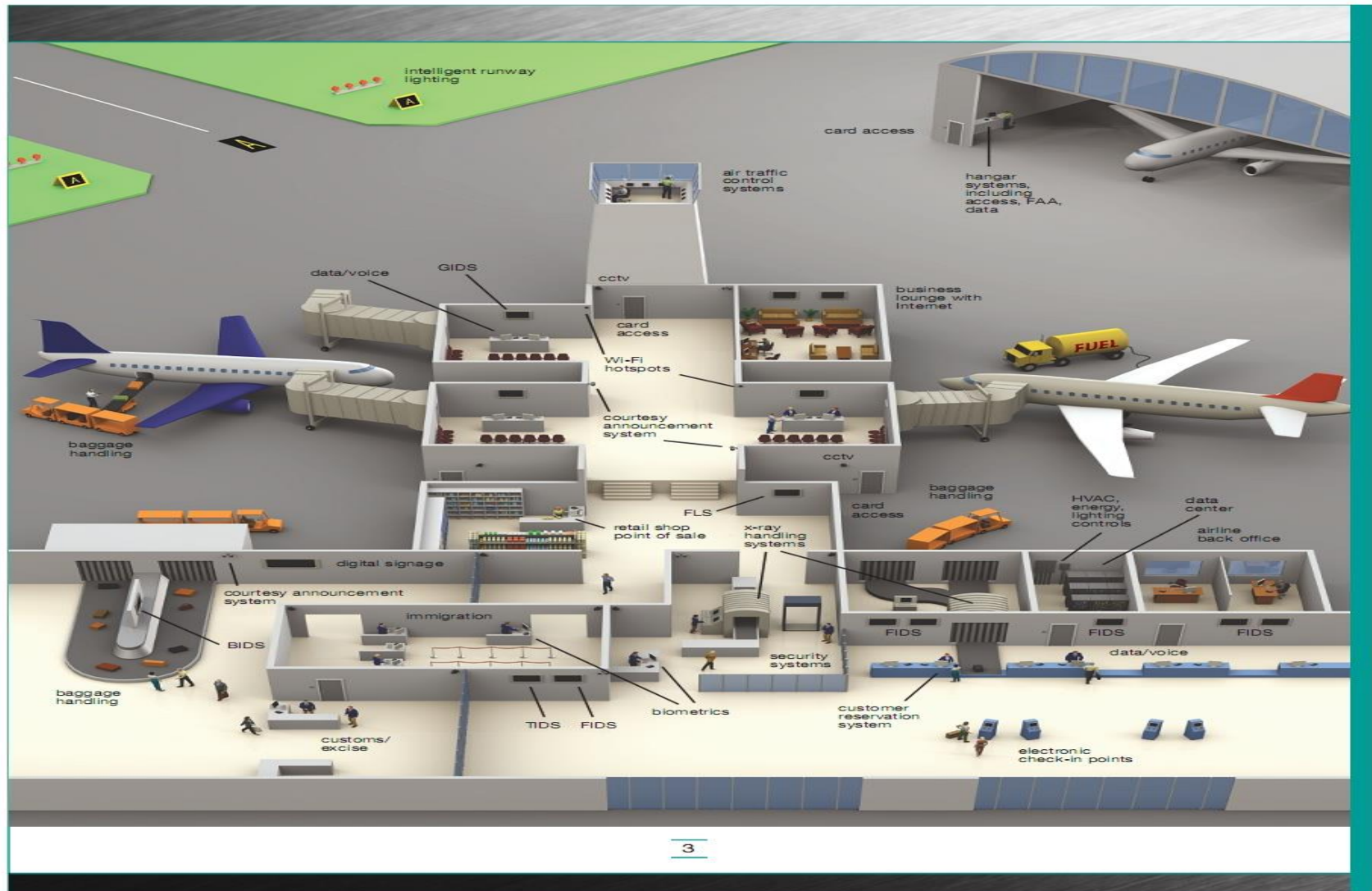


EXECUTION AT SITE

- Proper and sufficient management / supervision
- Appropriate workforce
- Manufacturer / supplier support
- Audits, Tours and reports (daily, weekly, monthly)
- Special focus on material delivery to work location
- QA/QC activities to get approvals before moving on
- Close coordination with other subs and main contractor



ELEMENTS OF AN INTERNATIONAL AIRPORT NETWORK

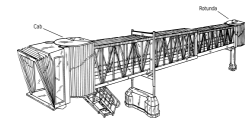
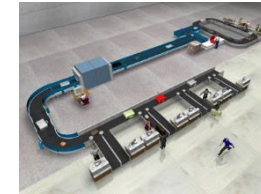


INTEGRATION

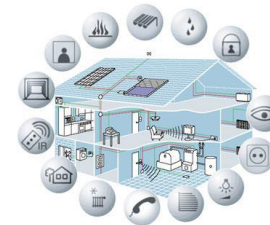
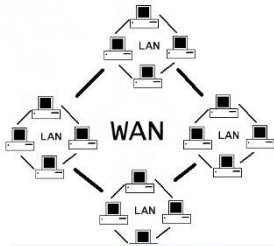
Life Safety Systems



Airport Operation System



Telecommunication Systems



WMS



TOC



STRUCTURED CABLING SYSTEM (TDS)

Inspection / Test / Commission / Handover

INSPECTION

- Material
- Installation
- Functional

TEST

- UTP / FO
- Grounding
- Coverage (WLAN)
- UPS
- Turnstile
- Intelligate

COMMISSION

- SCR
- MCR
- Backbone
- WLAN System
- UPS System
- Turnstile System
- Intelligate System

+ Final Handover (As-builts, O&M, Spare Parts, Warranties, etc)