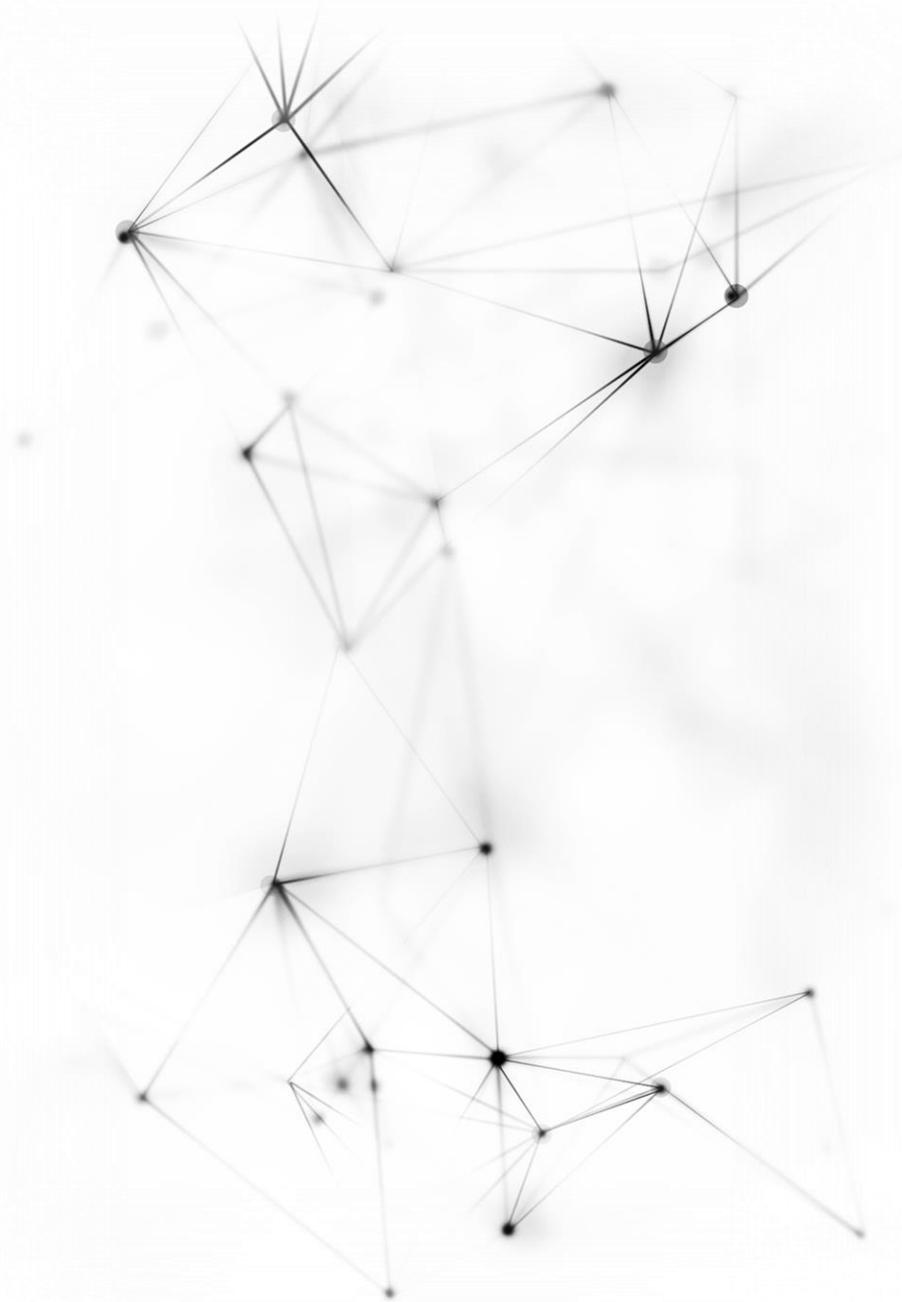




Corporate Presentation 2022



Agenda

- **About Us**
- Solutions
- Services
- Products
- References



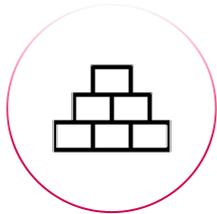
About Fotech



Fotech offers end-to-end solutions in **information and communication technologies, telecommunication, and ULV systems.**

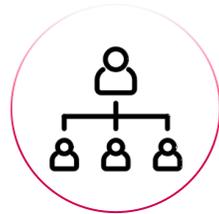
Its employees possess product/system **competency certificates** of its global vendors and internationally-accepted corporations such as **BICSI, PMI, and Uptime Institute.**

Its processes are certified by **ISO 9001** quality standards, and **Health & Safety** audits are done periodically.



1989

FOUNDATION YEAR



1-50

EMPLOYEES



300+

REFERENCES



30+

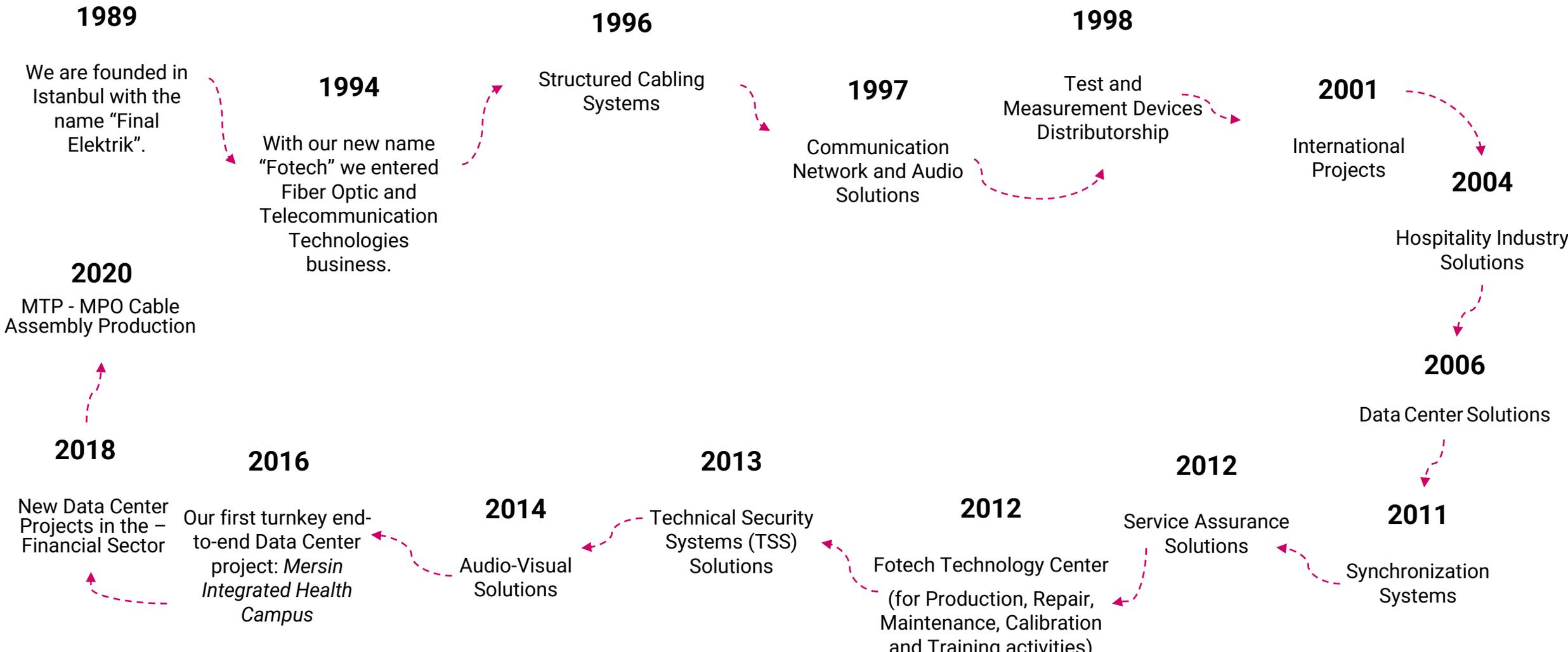
ACTIVE BUSINESS
PARTNERS



1 Million TL

CAPITAL

Our History



Core Industries We Offer Services



TELECOM



CONSTRUCTION



FINANCE



TRANSPORTATION



HOSPITALITY



EDUCATION



HEALTH



DEFENCE

Our Competencies

SOME OF COMPANY CERTIFICATES

	EXFO Platinum Level Certified Service Center (We are 1 of the 20 centers around the world!)
	EXFO Certified Training Partner
	SUMITOMO Distributor & Service Center
	MICROSEMI Business Partner
	FLUKE NETWORKS Distributor
	COMMSCOPE Platin Partner
	RUCKUS Business Partner
	CORNING NPI (Network of Preferred Installers)
	CISCO Premier Certified Partner
	HUAWEI Registered Partner
	DELL Registered Partner
	HPE Business Partner
	EKAHAU Turkey Reseller
	IDEAL NETWORKS Business Partner

SOME OF EMPLOYEE CERTIFICATES

	Project Management Professional (PMP, by Project Management Institute)
	Accredited Tier Designer for Data Centres (ATD)
	TesiraFORTÉ Certification Training, Audia Training for Technicians For Sound Masking Integrators
	CTS (Certified Technology Specialist) CTS-I (Certified Technology Specialist – Installer)
	Certified Data Centre Designer (CDCD)
	SYSTIMAX Design and Engineering SYSTIMAX Data Center Design and Engineering SYSTIMAX Installation and Maintenance COMMSCOPE Enterprise Fiber Solutions, NETCONNECT ACT I, ACT II
	Certificate of Implementing CISCO IP Routing (ROUTE) Certificate of Implementing CISCO Data Centre Unified Fabric (DCUFI) CISCO Certified Network Associate Routing and Switching (CCNA)
	Aruba Products and Solution – Selling the HPE Portfolio Enterprise Networking - Network Infrastructure Master Accredited Systems Engineer - Network Infrastructure
	RUCKUS Sales – Pre Sales – Wireless – ICX Wired Portfolio Certificate
	Digital Media Certified Engineer, Designer 4K Systems Technician, Foundations of Crestron ProgrammingSmart Graphics
	AV Associate Certificate, Control Specialist Certificate
	Microwave Certificate, INTREPID Certificate

Agenda

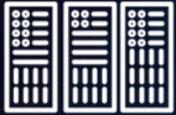
- About Us
- **Solutions**
- Services
- Products
- References



Fotech Offers



NETWORK SYSTEMS AND INTEGRATION



DATA CENTER



ULV SYSTEMS



SYNCHRONIZATION



SERVICE ASSURANCE



TEST AND MEASUREMENT

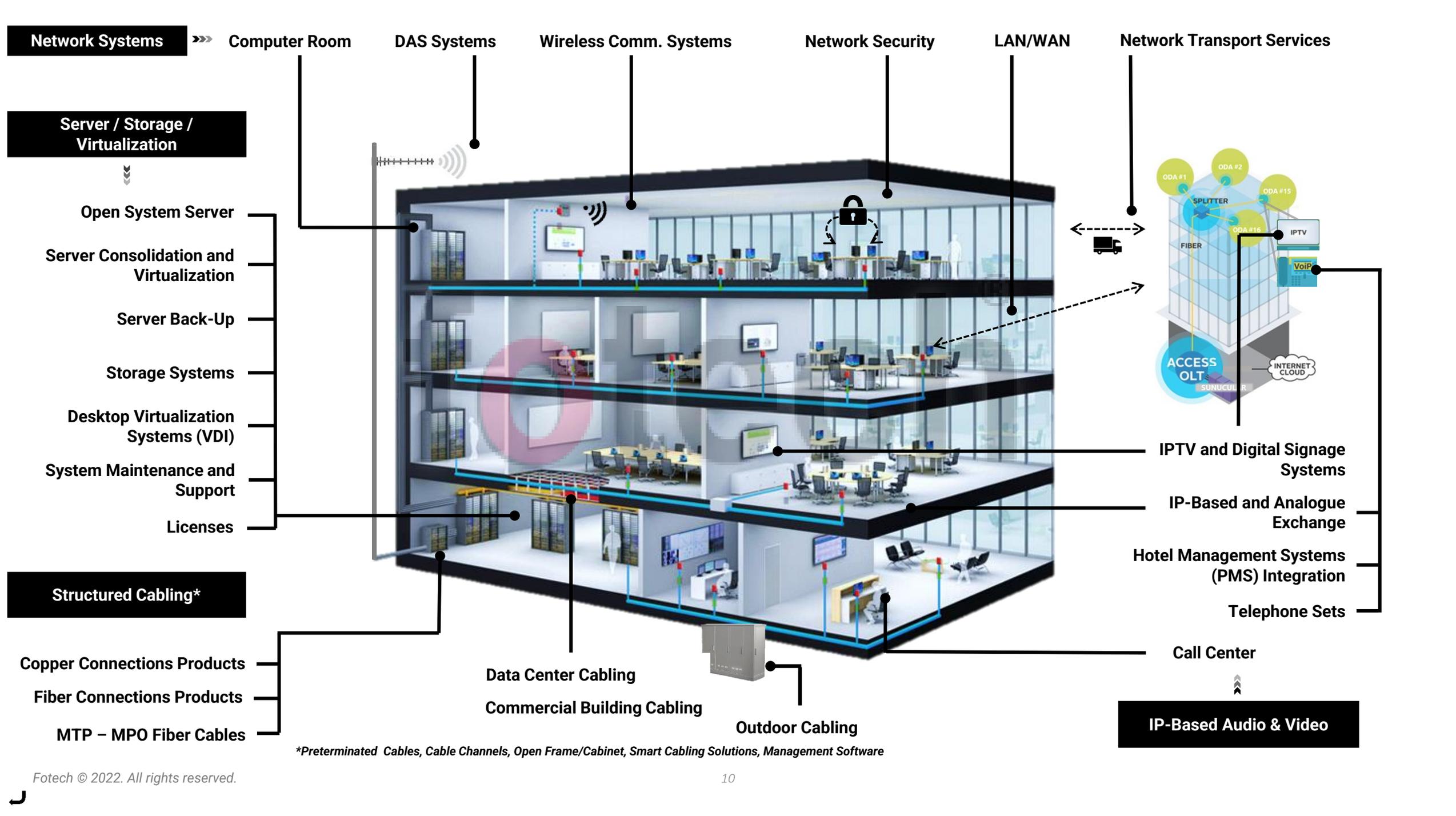
Network Systems and Integration

- ▶ **Structured Cabling Systems**
- ▶ **Network Systems**
- ▶ **Server / Storage / Virtualization**
- ▶ **IP-Based Audio and Video Solutions**
- ▶ **PC & Notebook Printer Products**



Related Products





Data Center



Efficiency Solutions

Power Systems

Network Systems

Climatization Systems

Security Systems

Infrastructure Systems

Uptime TIER Certification



Related Products



TURNKEY!
(Construction works incl.: Fire-resistant wall / door / ceiling, etc.)

Efficiency Solutions

»» DC Mgmt. and Monitoring (DCIM) Software

Smart Cabling

Climatization Systems

Climatization Systems

Security Systems

Access Control Solutions

CCTV Solutions

Environmental Monitoring
(Temperature, Humidity, Flood,
Earthquake)

Fire Detection and Extinction

Liquid Leakage Detection and
Alarm

Video Wall Solutions

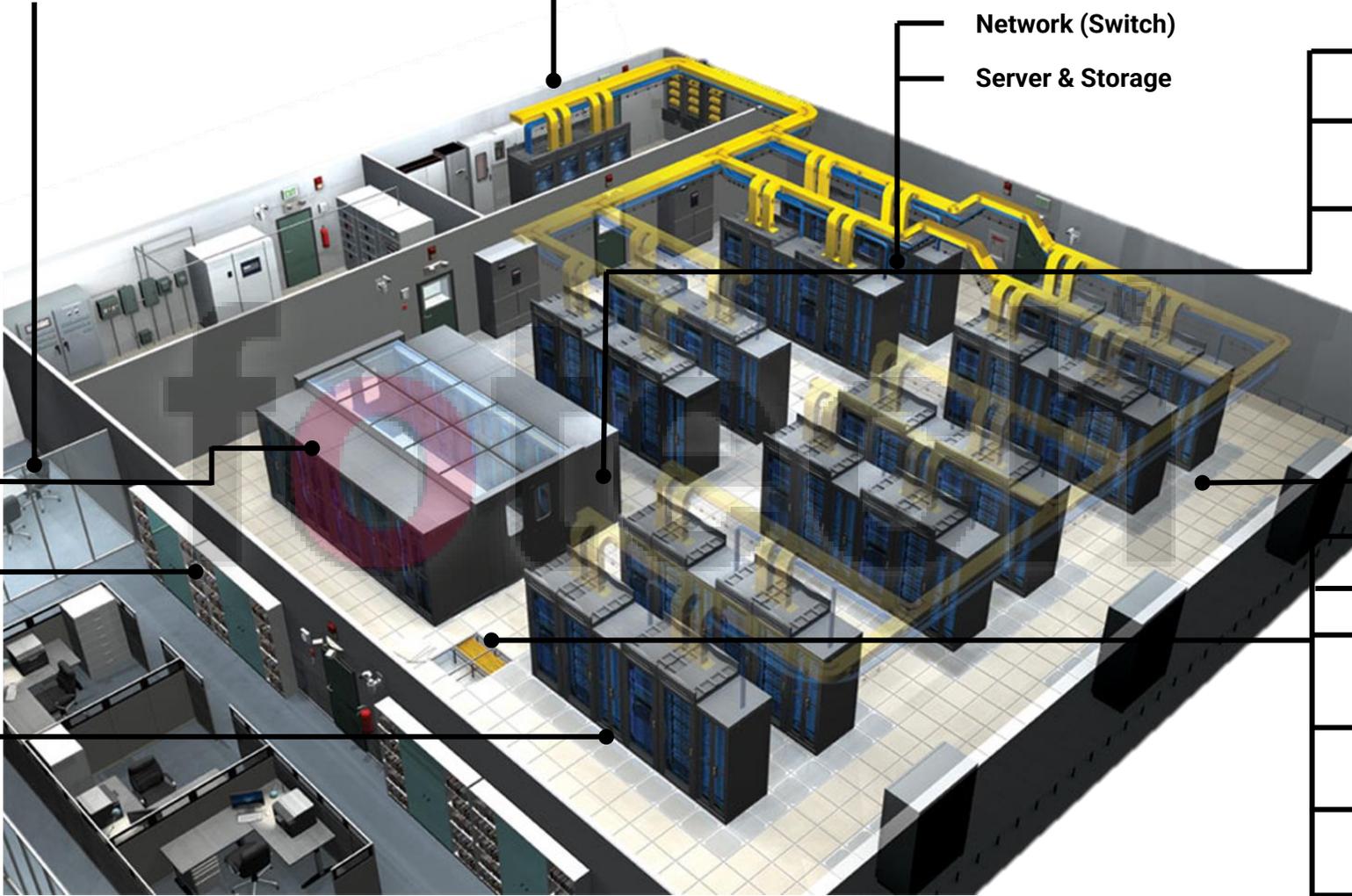
Power Systems

Redundant / Non-Redundant
Power Infrastrucutre

UPS (Uninterruptible Power
Source)

Power Distribution Systems

Smart PDU Systems



Network (Switch)
Server & Storage

In-Row Cooling Systems
Precision Air Conditioner
Systems
Cabinet and Containment
Systems

Infrastructure Systems

Lighting Systems
Cabinet
Structured Cabling Systems
MTP - MPO Cable Assembly
Production
Backbone and Mirroring
Cablings
Copper and Fiber Optic
Cable Channels
Raised Floor and Seismic
Protection
Cable and Pipe Isolation
Earthing

Uptime TIER Certification*

**Topology Desing and Application Check, Operational Sustainability, Documentation, Certification, Periodical Inspection*

ULV Systems

- ▷ **Fire Detection & Announcement**
- ▷ **Public Announcement System**
- ▷ **CCTV Systems**
- ▷ **Access Control Systems**
- ▷ **Audio-Video Systems**
- ▷ **KVM (Keyboard, Video, Mouse)**
- ▷ **Control Rooms (Video Wall)**
- ▷ **SMATV Systems**

 **Related Products**



CCTV

- IP and Analog CCTV Systems
- Video Mgmt, Control and Analysis Systems
- Video Storage Systems

Fire Alarm and Announcement Systems

SMA / IP TV Systems

Audio-Video Systems

- Meeting Rooms Multimedia Systems
- Tele/Video Conference Systems
- Professional Audio and Video Systems

KVM (Keyboard, Video, Mouse)

- KVM Switch (Secure / Enterprise / IP-Enabled)
- KVM Extender, Tray, Accessories

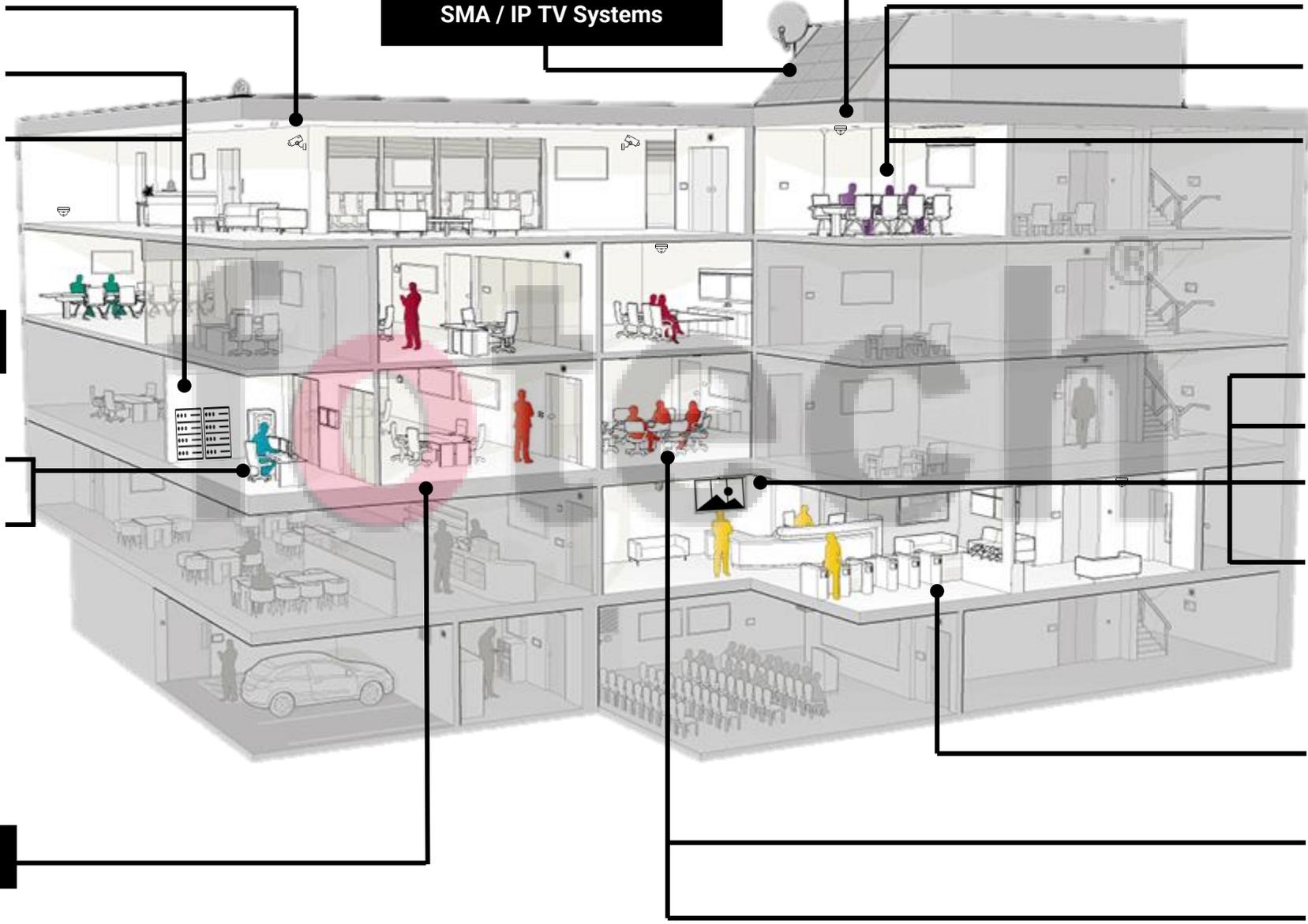
Control Rooms

- Video Wall Systems
- Record Monitoring Centers
- Remote Control and Respond Systems
- KVM Systems

Access Control

- Card / Biometric Access Control Systems
- Mgmt., Control, Reporting and Recording Systems Software
- Intercom Systems

Public Announcement System



Synchronization



Primary Reference Sources

GNSS Solutions

PTP / SyncE / NTP Solutions

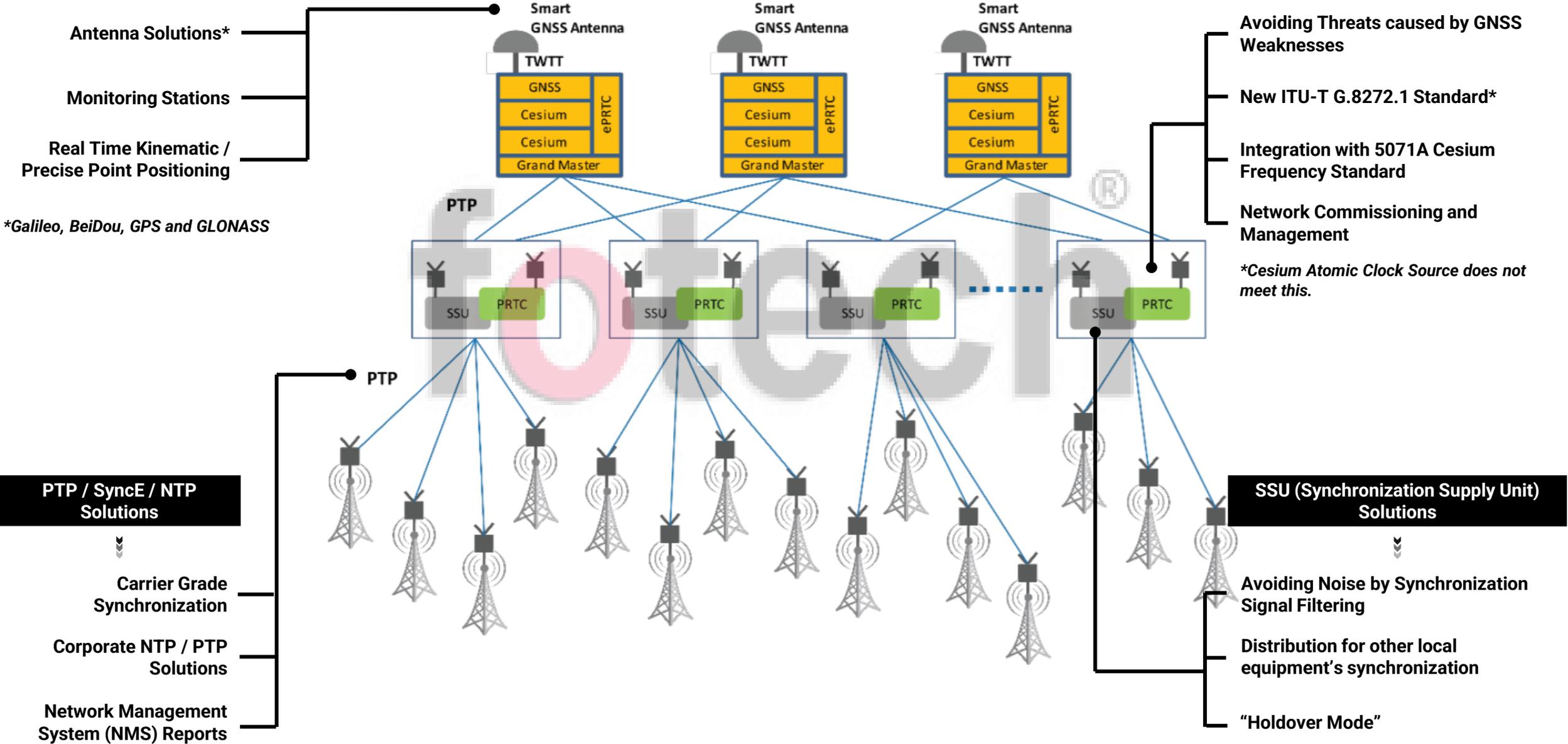
SSU / SDU Solutions

 **Related Products**



GNSS Solutions

ePRTC / Cesium Atomic Clock Source



- Antenna Solutions*
- Monitoring Stations
- Real Time Kinematic / Precise Point Positioning

*Galileo, BeiDou, GPS and GLONASS

- Avoiding Threats caused by GNSS Weaknesses
- New ITU-T G.8272.1 Standard*
- Integration with 5071A Cesium Frequency Standard
- Network Commissioning and Management
- *Cesium Atomic Clock Source does not meet this.

PTP / SyncE / NTP Solutions

SSU (Synchronization Supply Unit) Solutions

- Carrier Grade Synchronization
- Corporate NTP / PTP Solutions
- Network Management System (NMS) Reports

- Avoiding Noise by Synchronization Signal Filtering
- Distribution for other local equipment's synchronization
- "Holdover Mode"

Service Assurance



Fiber Network Monitoring and Mgmt

Carrier Wi-Fi Monitoring and Mgmt

VoLTE QoE Solutions

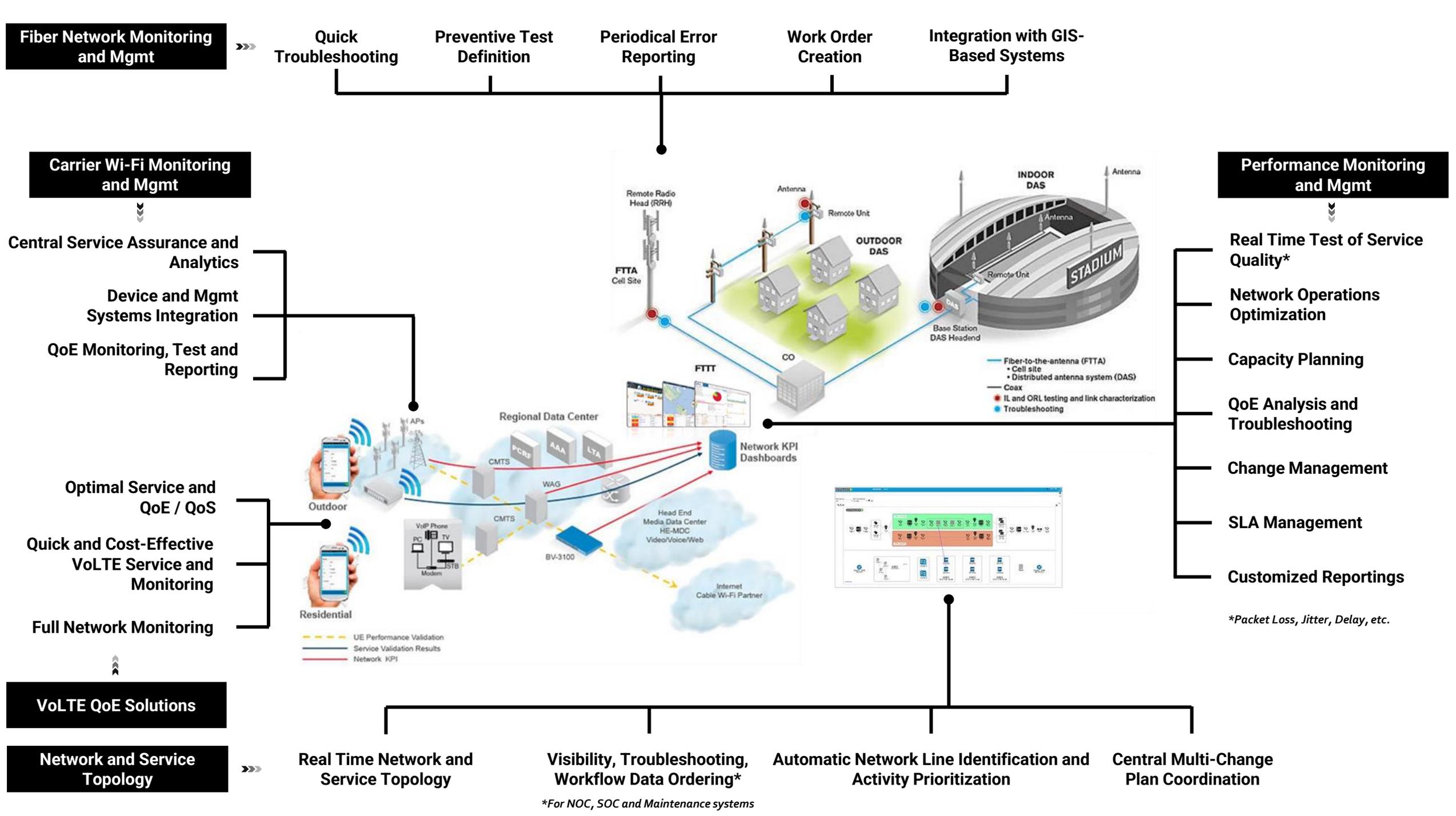
Performance Monitoring and Mgmt

Network and Service Topology



Related Products



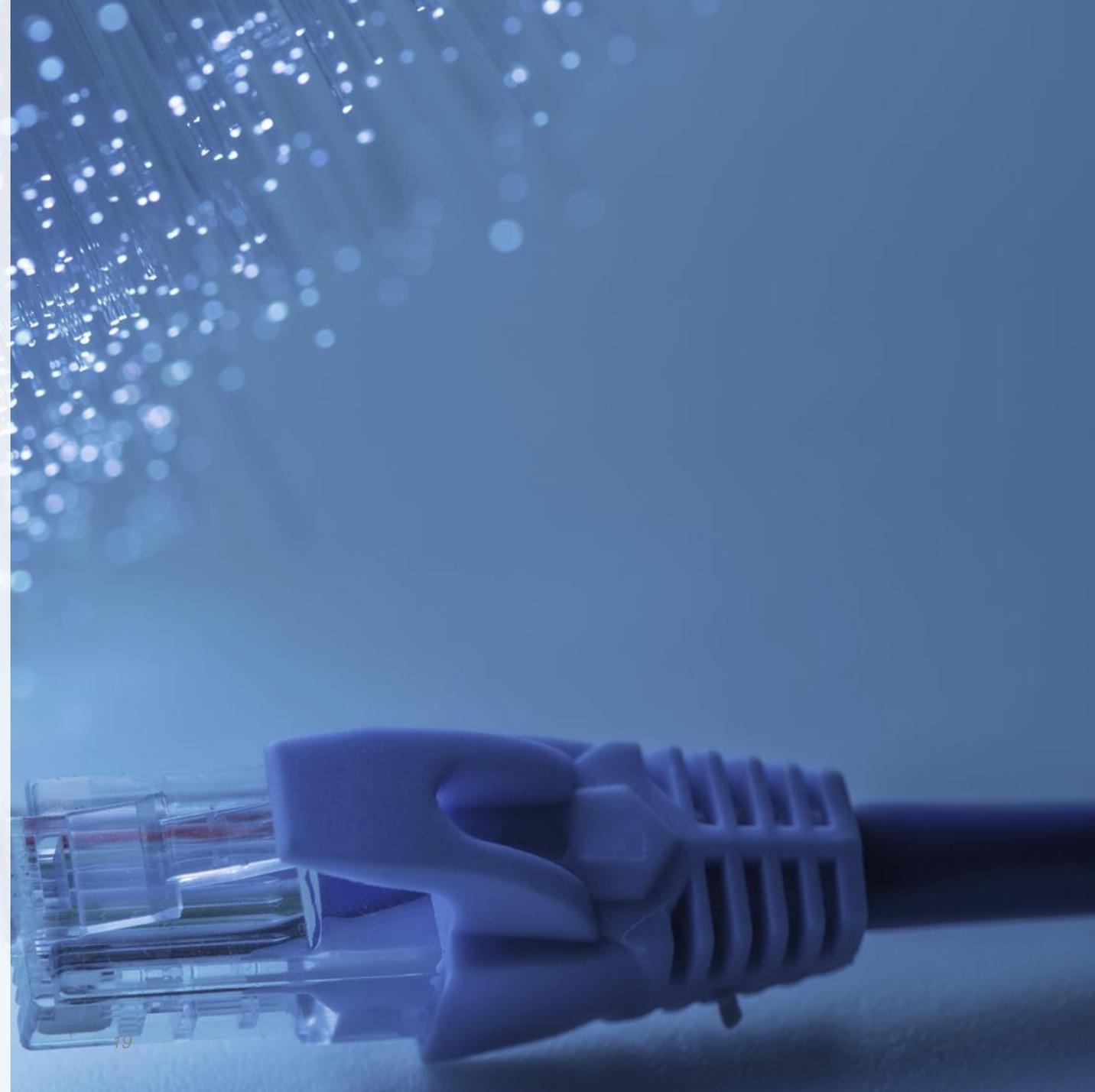


Test and Measurement

- ▶ **Fiber Optic and Copper Cable Test / Certification Devices**
- ▶ **Wireless & Network Test Devices**
- ▶ **RF Test Devices**
- ▶ **Transport and Datacom Test Devices**
- ▶ **Virtual Network Test Solutions**
- ▶ **Fusion Splicers**
- ▶ **Device Renting and Measurement Services**



Related Products

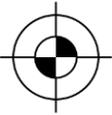


Test and Measurement Specific Services



Repair / Maintenance

- All types of **functional tests and latest software updates** on industry's test and measurement devices by our trained and certified trainers
- All kinds of **improvement and service updates** on the devices distributed by Fotech, and specifically for Exfo, Sumitomo and Ideal Networks devices, the following services: **Maintenance, Fault Diagnosis, Repair, Part Replacement, SW Update, Test Patch Cord Change**



Real Calibration

- In our Technology Center, we do **Real Calibration** -resetting to factory settings- and **Verification** operations, using the same equipment and procedures with vendors, by our specialists trained and certified by them, on the following devices: **OTDR, OPM, PPM, FVA, Datacom, Transport, DSL, Copper.**

*The essential modules of the equipment are being calibrated by the vendors once a year at their sites, and the monitoring of our calibration activities is done by them.



Training (BICSI Credits)

- By our Exfo-trained and certified trainers: **Fiber Optic Fundamentals, OTDR, OSA, CD / PMD, CPRI, Copper Certification, SONET / SDH, OTN and G.709, Ethernet and Fiber Channel, VoIP, IMS, 2G, 3G and LTE, Data Center Technologies and Tests**

- ★ Fotech is 1 of the 20 "Exfo Certified Service Centers" around the world! With the "Platinum" –highest- level! Our technical team is being trained by Exfo periodically and provides the highest level standards of Exfo.



Since
2012!

- ★ We are the distributor and authorized service / calibration center in Turkey for:
 - Exfo test and measurement devices,
 - Sumitomo Electric fusion splicers and accessories,
 - Ideal Networks F/O and Copper Certifiers,
 - Microsemi synchronization devices



- ★ Fotech is 1 of the only 3 "Exfo Certified Training Partners" around the world!
We provide free BICSI "CEC" credits along with our training certificates!



All these services are provided in 630 sqm technology center of ours, called **fotech**[®]
Technology Center

Agenda

- About Us
- Solutions
- **Services**
- Products
- References



Services

PROFESSIONAL



Consultancy,
Project Management and
Supervision



Design and Engineering



Installation and Integration



Test and Commissioning

SUPPORT



Service Level Agreements
(SLA)



Repair / Maintenance



Real Calibration

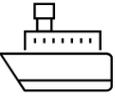


Training with Certificate

PRODUCT DESIGN AND DEVELOPMENT



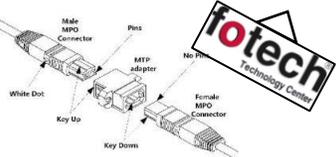
Custom-Made
Cable Groupings



Custom-Made
Production for Defence
Industry



Special-Purpose Boutique
Production



MTP - MPO Cable
Assembly Production

OUTSOURCE



Providing
Outsource

fotech[®]

Technology Center

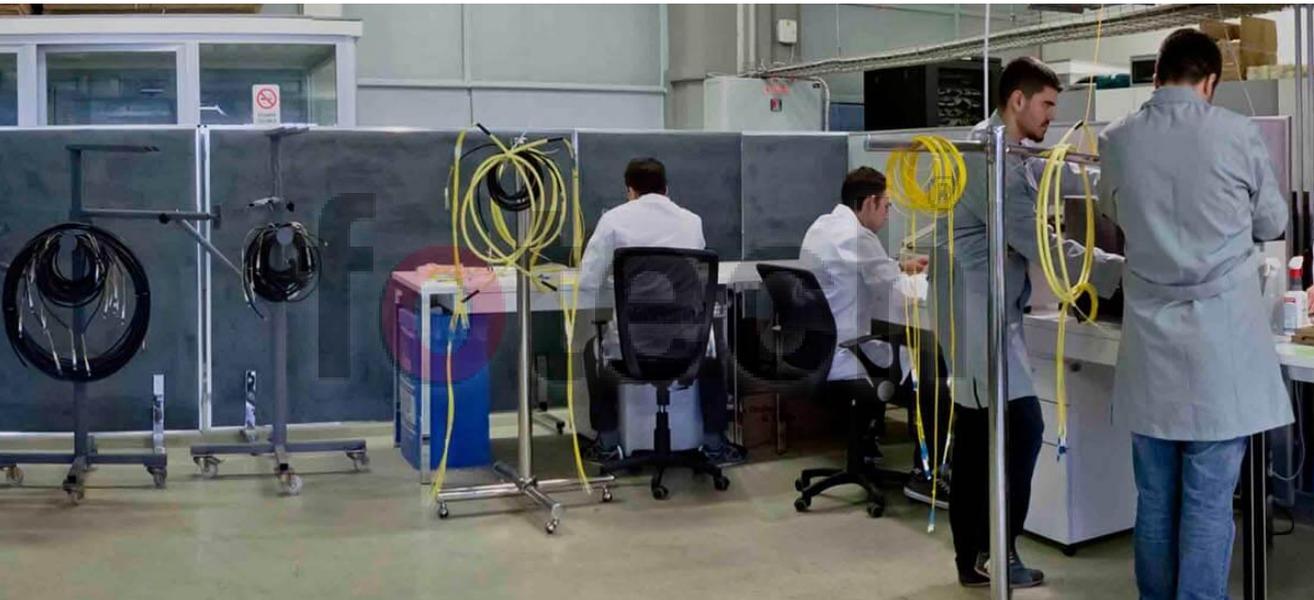


**REAL,
CERTIFIED
FIBER OPTIC
DEVICE
CALIBRATION**

in fotech[®]
Technology Center



Fotech Technology Center



fotech[®]
Technology Center



**CERTIFIED,
TRAININGS!**

WITH *Bicsi*[®] CREDITS

in *fotech*[®]
Technology Center

**Fiber Optic Fundamentals, OTDR, OSA, CD /
PMD, CPRI, Copper Certification, SONET / SDH,
OTN and G.709, Ethernet and Fiber
Channel, VoIP, IMS, 2G, 3G and LTE,
Data Center Technologies and Tests**

Agenda

- About Us
- Solutions
- Services
- **Products**
- References



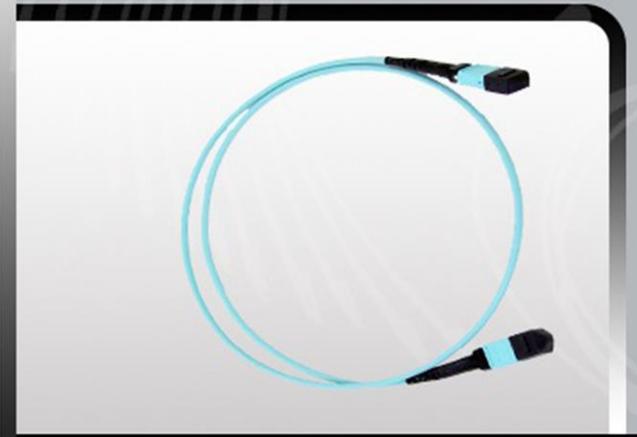
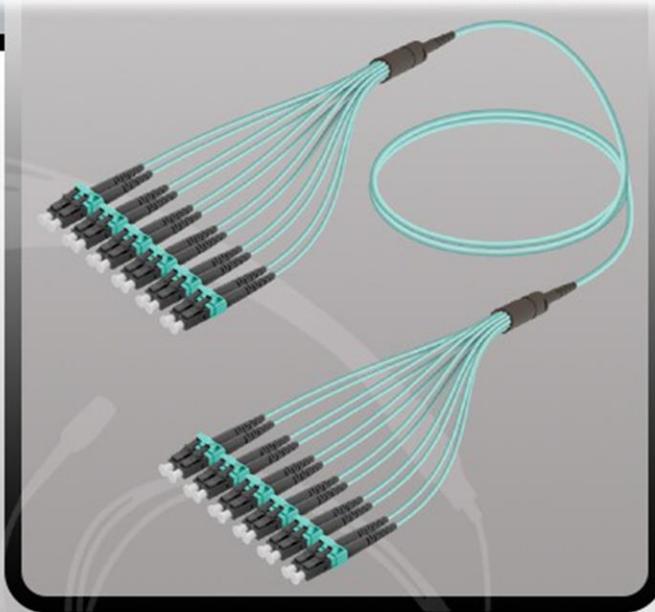
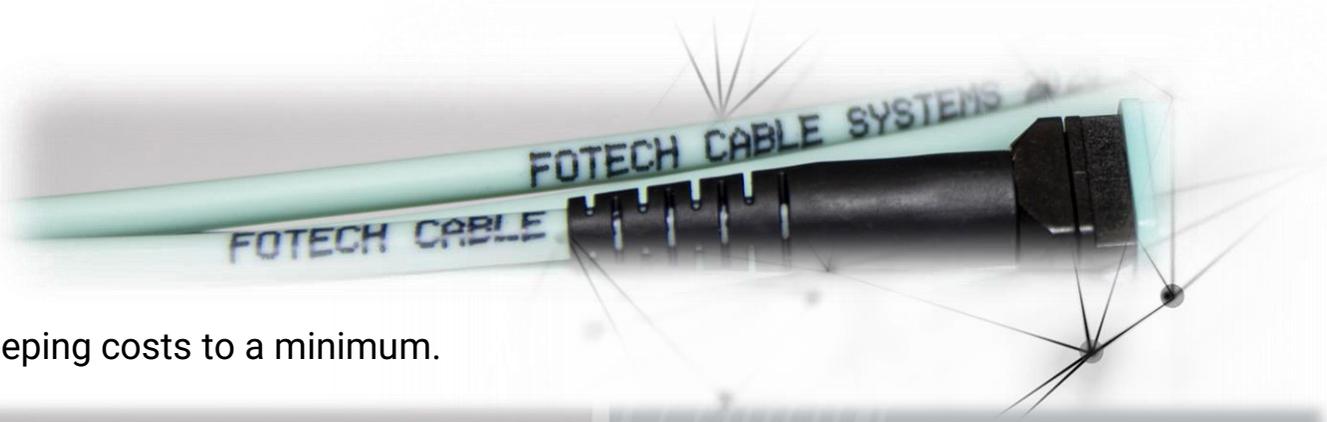
Our Partners

Fotech's main objective with having these partners is to support the solutions it offers to its customers with value-added, customizable products, and help their customers to have simpler processes by being the only contact after sales.



Fotech Structured Cabling

Fotech - produced MTP/MPO fanout cables and cassettes ensure that spine cabling can be installed both quickly and in a small space in Data Center and Telecommunication structures, keeping costs to a minimum.



Network Systems and Integration, Data Center and ULV Products



- Control Room Solutions
- KVM Switch & Extender
- Video Wall
- Digital Signage
- Networking
- Audio-Visual
- Media Converter
- Industrial Switch

- Pro Software
- Connection Pack
- Analyzer
- Capture
- Site Survey
- Ekahau Cloud

- CWDM
- Transceiver
- SFP/Gbic

- Metro Ethernet
- FTTX
- IP Triple Play
- Media Converter
- Industrial Switch
- PoE Products
- IoT Products

- Multifunctional Network Analysis Equipment
- Copper & Fibre Network Analysis Equipment
- Network Analyzer

- Data Center Cabinets
- In-row Cooling
- Containment
- Transportation Industry Solutions

- xWDM Products
- Fiber Optic Multiplexer
- Switch
- Modem



NSvE VM ZA



Synchronization Products



- Primary Reference Sources
- GNSS Antennas
- PTP / SyncE / NTP Products
- SSU Products



- Industrial and Utilities industries specific NTP products



- RF and Global Navigation Satellite Systems (GNSS) components



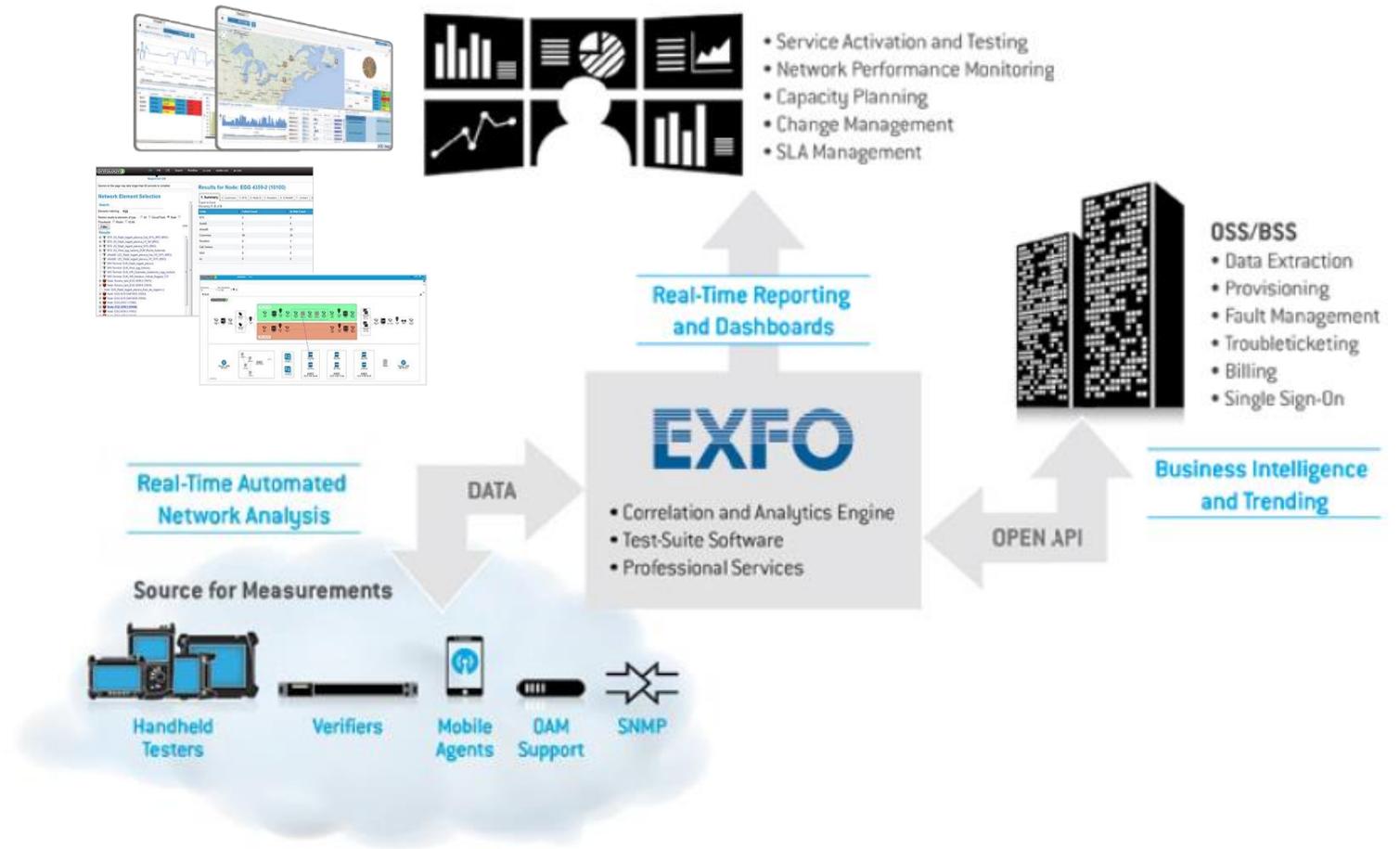
- Synchronization Test Equipment



Service Assurance Products



- Fiber Network Monitoring and Management
- Carrier Wi-Fi Monitoring and Management
- VoLTE QoE Solutions
- Performance Monitoring and Management
- Network and Service Topology



Test and Measurement Products (1/3)



- Power Meter
- OTDR
- OLTS
- CD/PMD Testers
- OSA
- Fiber Verifiers and Certifiers
- Fiber Inspection Probes
- Ethernet Testers
- DSn/PDH and Legacy SONET/SDH Testers
- Fiber Channel Testers
- Virtual Network Testers
- IPTV Testers
- VoLTE Devices
- Optical RF Devices



- Fusion Splicers and accessories
- Passive Optical Products (e.g. Optic Splitters)



- Versiv™ Cable Certification Test Family
- TS® 54 TDR Test Set
- LinkWare™ Live
- CertiFiber Pro Encircled Flux Test
- FI-7000 FiberInspector™ Pro
- OptiFiber™ Pro with SmartLoop™



* Fotech is 1 of the only 20 “EXFO Certified Service Centers” around the world and has the **Platinum (highest) level**, and Fotech is 1 of the only 3 “EXFO Certified Training Partners” around the world. By this means, we can offer repair, maintenance and real calibration services by our trainers trained by Exfo.

** Fotech can offer repair/maintenance/calibration services for **Sumitomo Electric, Ideal Networks and Microsemi** products.

Test and Measurement Products (2/3)



- LTE/5G Testers
- Simulator Analyzers
- eNB Load Testers



- Renting of various Test and Measurement Devices



- "Polarization Dependent Loss Meter", "Tunable Laser Source" for testing CWDM and PON components
- Modular platforms supporting Cable Assembly Test System
- Optic Attenuators, Benchtop and Rack-Mount Switches
- Inspection Devices



Test and Measurement Products (3/3)



- Products measuring and managing light parameters containing phase, polarization, PDL and PMD effects



- Broadband/ Cable TV Solutions
- Fibre Optic Solutions
- Wireless Solutions
- ✓ 5G Portable Spectrum Analyzer
- ✓ RF Analyzer(Cable & Spectrum Analyzer)
- ✓ Signal Profiler



Other Brand We Cooperate With

Networking and Audio Systems



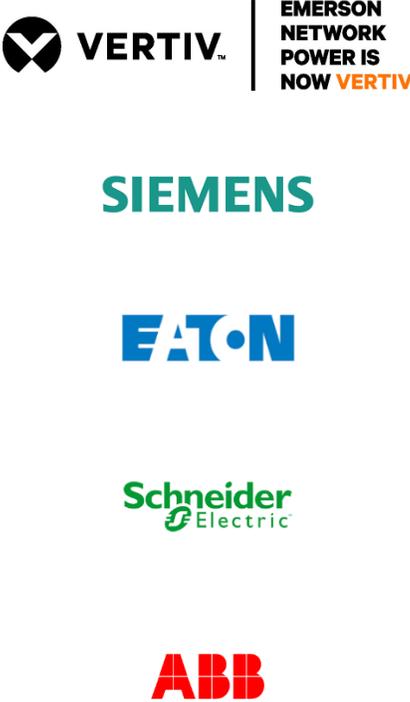
ULV Systems



Structured Cabling Systems



Power Systems



Agenda

- About Us
- Solutions
- Services
- Products

- **References**

Data Center Solutions

Network Systems and Integration – ULV Solutions

Synchronization Solutions

Service Assurance Solutions

Test and Measurement Solutions

Production Solutions



References

Data Center Solutions

Finance



Main Customer: NGN Bilgi Teknolojileri Veri Merkezi Hizmetleri ve Danışmanlık A.Ş

Project Description:

DEUTSCHE BANK DATA CENTER Project

Customer: Deutsche Bank

Project Date: 2022-Ongoing

Project Scope: 50m² Data Center White Space Infrastructure

- Cabinets
- PDU s
- Fiber Runner
- Cable trays
- CCTV
- Access Control

References

Data Center Solutions

Finance



Main Customer: VISA Turkey

Project Description:

VISA Veri Merkezi

Customer: VISA Turkey

Project Date: 2020-Ongoing

Project Scope: 100m² Data Center White Space Infrastructure
Cabling

- Data Cabling
- Labelling

References

Data Center Solutions

Finance

The logo for Akbank, featuring the word "AKBANK" in a bold, red, sans-serif font.

Main Customer: Akbank

Project Description:

Akbank New Data Center

Customer: Akbank

Project Date: 2017.-2020

Project Scope: 2350m² Data Center White Space Infrastructure cabling

- Structured Cabling System
- Cabinets , cabinet locking system , cold aisle containment ,PDUs
- KVM Switch
- Video Wall

References

Data Center Solutions

Finance



Main Customer: Denizbank

Project Description:

Denizbank Data Center

Customer: Denizbank

Project Date: 2019-2020

Project Scope: 780m² Data Center White Space Renovation

- Structured Cabling System

References

Data Center Solutions

Health

Main Customer:



Project Description: Bilkent Integrated Health Campus (BESK), Ankara, Turkey

Customer: innova

Project Date: October 2017 - 2018

Project Scope: Turnkey data center project of 800m²



- Raised floor, suspended ceiling, fire-resistant door and paint, wall and other construction works
- Power-related works, electrical switch boards, UPS and lighting
- Data cabling, tagging
- Cabinets, lockings, cold aisle application and PDUs
- KVM Switch
- Biometric access control, CCTV systems, 2 videowalls
- Environmental monitoring system
- Precision fire detection and extinction system
- Climatization
- Uptime certification

References

Data Center Solutions



Main Customer:



Project Description:

Mersin Integrated Health Campus DC (MESK), Turkey

Customer: 

Project Date: April 2016 – May 2016

Project Scope: Turnkey DC works of 400m²

- Raised floor, suspended ceiling, fire-resistant door and paint, wall and other construction works
- Power-related works, electrical switch boards, UPS and lighting
- Data cabling, tagging
- Cabinets, lockings, cold aisle application and PDUs
- Biometric access control, CCTV systems, 2 videowalls
- Environmental monitoring system
- Precision fire detection and extinction system
- Climatization
- Uptime certification

References

Data Center Solutions



Main Customer: Türk Telekom 

Project Description:

Türk Telekom, Esenyurt DC (IDC-6), Istanbul, Turkey

Customer:  HUAWEI

Project Date: December 2017 - Ongoing

Project Scope: In an area of 2000m² of 4 rooms

- Structured cabling system

References

Data Center Solutions



Main Customer:  **TURKCELL**

Project Description:

Turkcell Data Center, Ankara (Söğütözü), Turkey (2017)

Turkcell Frame Agreement, (2006 – Present)

- Istanbul (Kartal-Maltepe-Davutpaşa)
- Diyarbakır
- Erzurum

Customer:  **TURKCELL**

Project Scope: Infrastructure regarding Data Networks, SAN and Transmission Networks in all above mentioned DCs of 924/500/600/500 sqm, and IP infrastructure of Turkcell Operation Center office building

- Structured Cabling System
- Cabinets (network, SAN, server)
- Aisle and Containment
- Fiber and copper cable channels
- Earthing

References

Data Center Solutions

Telecom



Main Customer: Türk Telekom Mobil A.Ş

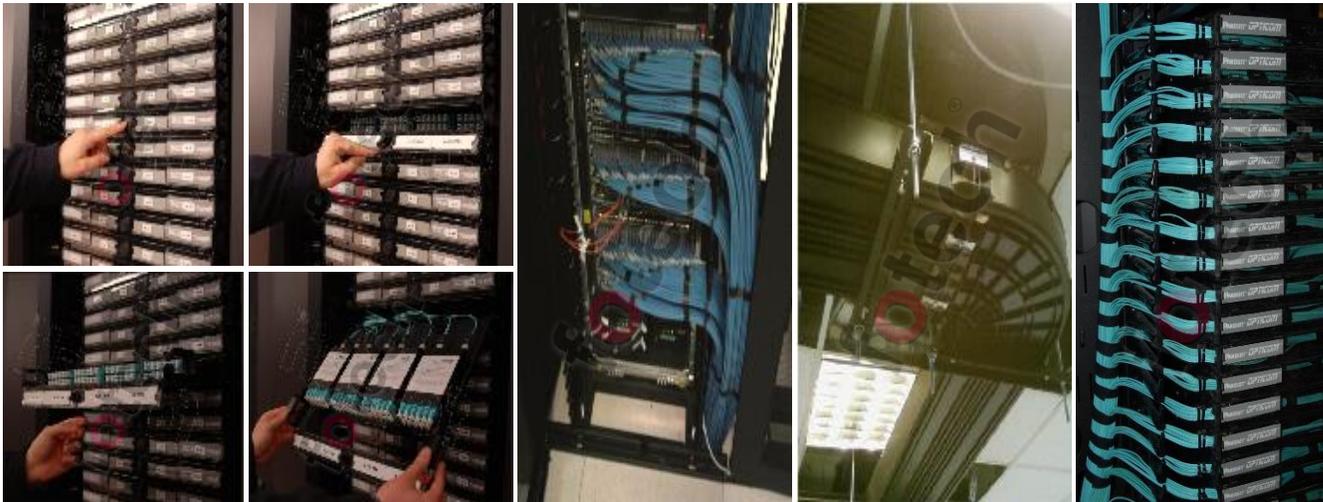
Project Description:

- Avea Frame Agreement, Turkey (2013 – Present)
- Avea Data Center, Adana-Izmir, Turkey (2013-2014)
- Avea Data Center, Ümraniye Tech. Center, Turkey (2009) 800m²

Customer: Türk Telekom Mobil A.Ş

Project Scope: Infrastructure regarding Data Networks, SAN ve Transmission Networks for all above mentioned DCs and office area within Avea Tech. Center with more than 1.000 users (>3.000m² in total)

- Structured Cabling Systems
- Network/SAN/Server cabinets (>100 cabinets)
- Fiber and copper cable channels
- Fiber and copper cabling and mirroring
- Earthing infrastructure



References

Data Center Solutions



Main Customer:  KoçSistem

Project Description:

Koç Sistem Data Center, Istanbul, Turkey

Customer:  KoçSistem

Project Date: October 2013 – October 2013 (3 Weeks)

Project Scope: Structured cabling infrastructure

- Structured Cabling System
- Fiber Cable Channels

References

Data Center Solutions



Main Customer:  anadolu bilişim hizmetleri a.ş.

Project Description:

Anadolu Bilişim Hizmetleri Data Center, Istanbul, Turkey

Customer:  anadolu bilişim hizmetleri a.ş.

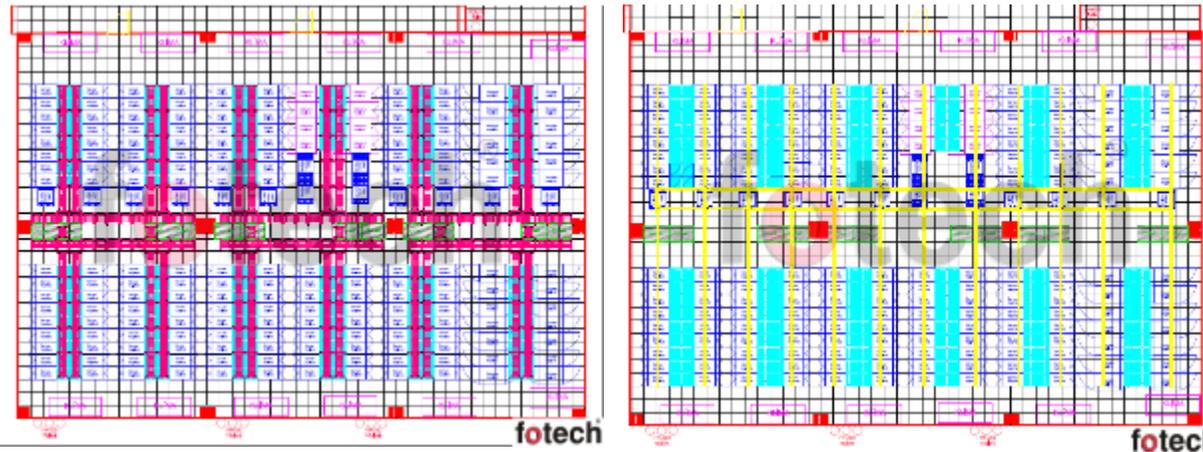
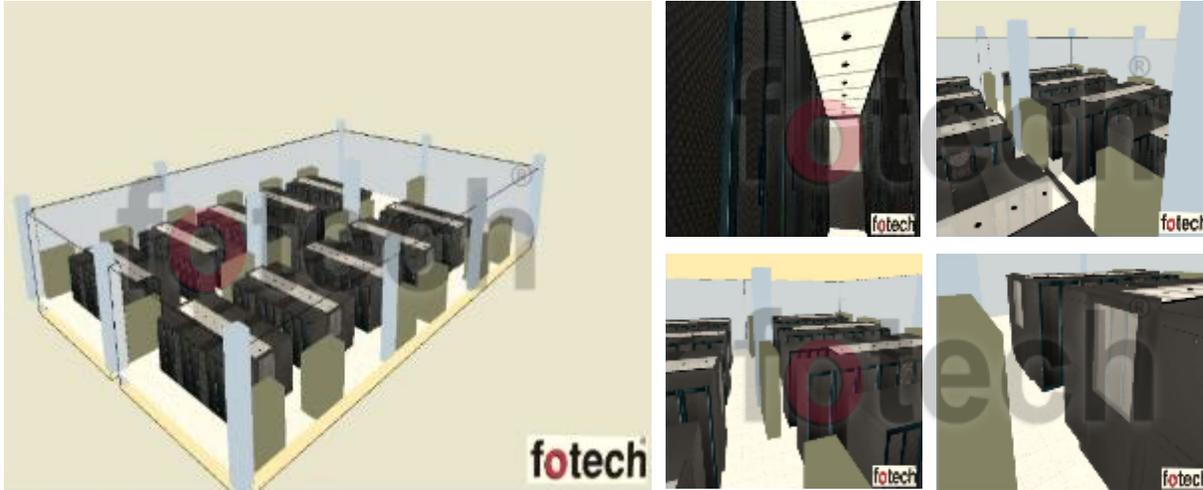
Project Date: 2011

Project Scope: Below works in 1.000m² DC:

- Structured Cabling System
- Rack and Cabinets (open frame, network, server), qty: >20
- Fiber and copper cable channels
- Fiber and copper cabling infrastructure, >2.000 10G Copper Termination, >2.000 10G Fiber Termination
- Earthing

References

Data Center Solutions



Main Customer: Türk Telekom 

Project Description:

Türk Telekom Ümitköy Data Center, Ankara, Turkey

Customer: Türk Telekom 

Project Date: 2010

Project Scope: SAN infrastructure of 500m² and 60m² DCs

- Fiber and Copper Cable Channels
- Open Frame and Cabinets
- >4.000 10G Copper Termination
- >1.500 10G Fiber Termination
- Mirroring

References

Data Center Solutions

Finance



Main Customer: *FINANSBANK

Project Description:

Finansbank Data Center, Istanbul, Turkey

Customer: *FINANSBANK

Project Date: 2009

Project Scope: Fiber and Copper infrastructure of 369m² data center and office building

- Smart structured cabling and patch panel system
- Rack and cabinets (network, SAN, server), qty: >50
- Fiber and copper cable channels
- >10.000 port 10G Copper Termination, >5.000 port 10G Fiber Termination
- Earthing

References

Network Systems and Integration Solutions

Hospitality

Main Customer: Özkök Şişli Proje

Project Description:

Şişli Wishmore Otel

Customer: Özkök Şişli Proje İnş. San. ve Tic. A.Ş

Project Date: 2021-2022

Project Scope:

- Data Passive Network (cabling and termination)



References

Network Systems and Integration Solutions

Hospitality



Main Customer: Özyer Grup

Project Description:

Sundia By Liberty Fethiye Hotel

Customer: Orge Elektrik

Project Date: 2020

Project Scope:

- Network (Switch and Access Point)

References

Network Systems and Integration Solutions

Hospitality



Main Customer: Ege Ticari Yatırım ve Turizm İnş.

Project Description:

Sakarya Radisson Blu Hotel

Customer: Sakarya Radisson Blu Hotel

Project Date: 2019

Project Scope:

- Data Passive Network (cabling and termination)
- Network (switch and access point)

References

Network Systems and Integration Solutions

Hospitality



Main Customer: Emin Grup

Project Description:

Kurtköy Mövenpick Hotel

Customer: NOVATEK

Project Date: 2019 – Ongoing

Project Scope:

- Data Network Structural Cabling
- IP CCTV System

References

Network Systems and Integration Solutions

Hospitality

Main Customer: 

Project Description:

TACA Fındıklı Hotel Project

Customer:  **ATEKSIS**

Project Date: December 2017 – 2018

Project Scope:

- Data Passive Network (cabling and termination)
- Network (switch and access point)



References

Network Systems and Integration Solutions

Hospitality

Main Customer:  **TURION INVESTMENT GROUP**

Project Description:

St. Regis Hotel and Residence, Astana, Kazakhstan

Customer: **NOVATEK**

Project Date: 2016 - Present

Project Scope: In a 40.000m² area:

- Structured cabling system of Data Network, WLAN, IP Telephony, IPTV, Audio-Visual Systems



References

Network Systems and Integration Solutions

Government



Project Description:

Ministry of Taxation Tower

Customer: Anel Elektrik - Bakü

Proje Tarihi: 2020 – Ongoing

Project Scope:

- Data Passive Network (Copper & F/O cabling and termination)
- Data Network (Switch and Access Point)
- PBX

References

Network Systems and Integration Solutions

Logistics and Transportation

Project Description:

International Türkmenbaşy Port

Customer: GAP İnşaat

Project Date: 2017-2018

Project Description:

- F/O Network Infrastructure : 20.500 core
- Copper Network Infrastructure : 9.000 point



References

Network Systems and Integration – ULV Solutions

Main Customer:  Absheron
hotel group

Project Description:

Allium Villas Resort, Bodrum, Turkey

Customer:  ELEKTROMEKANİK
KON ELEKTROMEKANİK SAN. VE TIC. A.Ş.

Project Date: 2016 - 2017

Project Scope: In an area of 15.000 m²:

- Data, Network, Telephony
- CCTV
- Card Access Control
- Fire Detection and Alarm Systems
- Active Devices (Switch, Access Point, Firewall)
- IPTV
- Fiber and copper cabling (600 copper ports, 200 fiber ports)



References

Network Systems and Integration Solutions

Hospitality



Main Customer:



Project Description:

Çiftçi Towers Residence/Office/Shopping Mall Project, Istanbul, Turkey

Customer: SEGATECH

Project Date: 2015 - 2017

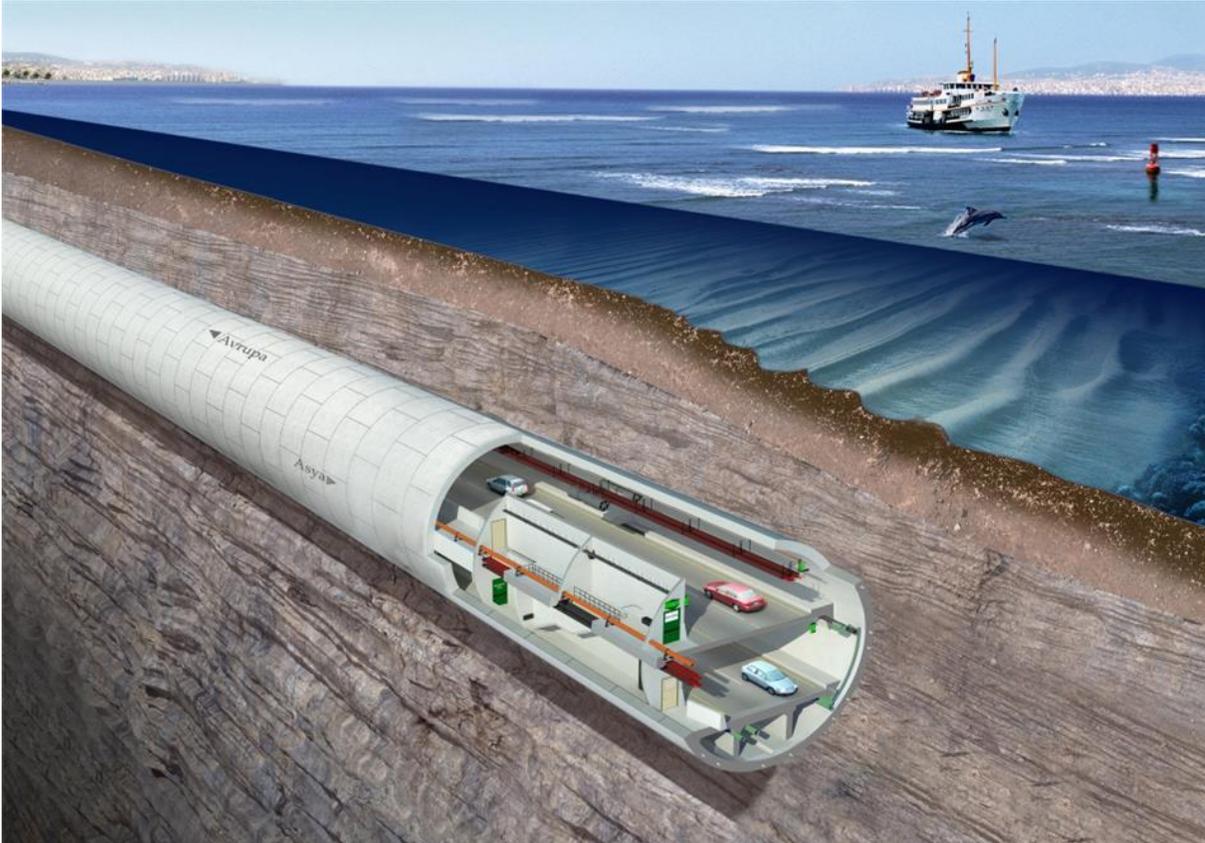
Project Scope: In a building of 300.000m²

- Structured cabling system
- LAN infrastructure
- PABX infrastructure
- WiFi infrastructure
- PON infrastructure

References

Network Systems and Integration Solutions

Transportation



Main Customer: **Avrasya**
TÜNELİ

Project Description:

Euroasia Tunnel Project, Istanbul, Turkey

Customer:  **yapı
merkezi**

Project Date: August 2016 – December 2016

Project Scope: We have completed the fiber optic and copper cabling infrastructure's design, equipment supply, application and commissioning works of all the passive data transmission and network equipment in 5 months!

These services have been completed in the following systems:

- Main network
- HGS, OGS (Toll Collection System)
- SCADA
- ULV Systems
- Radio Frequency Systems
- Medium Voltage Cells' Communication
- Linear Fire Detection System

References

Network Systems and Integration Solutions



Main Customer: Ethiopian Railway Corporation

Project Description:

Awash-Kombolcha-Hara Gebaya Railway Project

Main Customer:  idis

Project Date: August 2018 – Ongoing

Project Scope: Fiber Optik Communication Infrastructure

References

Network Systems and Integration – ULV Solutions



Main Customer: cloud 

Project Description:

Cloud 7 Hotel, Istanbul, Turkey

Customer:  ELEKTRİK VE YAPI MERKEZİ
SAN. ve TİC. LTD. ŞTİ.

Project Date: 2015 - 2016

Project Scope:

- CCTV
- Fire Alarm
- Public Announcement
- Structured Cabling System
- LAN infrastructure
- PABX an its infrastructure

References

Network Systems and Integration Solutions



Hospitality

Main Customer:



Project Description:

Renaissance Polat Hotel, Yeşilyurt, Turkey – *Renovation (2015-2016)*

Renaissance Polat Bosphorus Hotel, Balmumcu, Turkey (2011-2012 & 2019)

Customer:

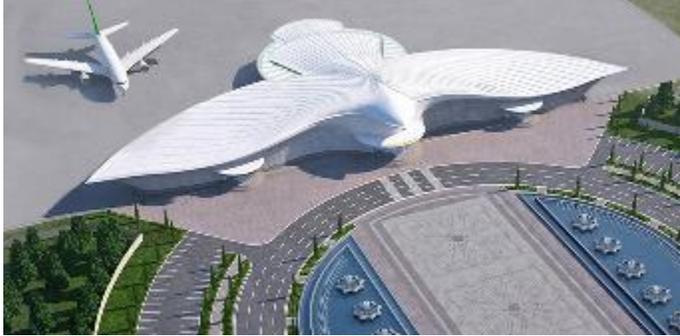


Project Scope: International hotel chain's IP communication infrastructure

- Data, IP Telephony, Wireless, IPTV, IP-CCTV Network Systems
- Computer Room installation
- Structured Cabling Systems
- Fiber and copper cabling
- Fiber optic backbone (OM3, 10G), >3.000 ports copper infrastructure (10G)
- Wireless Renovation (2018)

References

Network Systems and Integration Solutions



Transportation

Main Customer:



Project Description:

Ashkhabad International Airport, Turkmenistan

Customer:



Project Date: 2013 - 2015

Project Scope: Complete IP network and ULV systems infrastructure in VIP terminal, temporary terminal and landside buildings of 100.000m²

- IP network, ULV- and special-systems' structured cabling systems
- Fiber Optic and Cat 6A cabling systems

References

Network Systems and Integration Solutions



Main Customer:  CEVAHİR HOLDİNG

Project Description:

Biz Cevahir Hotel Gayrettepe, Istanbul, Turkey (2014)

Cevahir Hotel Asia, Maltepe, Istanbul, Turkey (2012 & 2018)

Customer:  CEVAHİR HOLDİNG

Project Scope:

- LAN Network, Wireless infrastructure
- Active and passive equipment
- Fiber and copper cabling
- Server and system cabinets installation
- Wireless Renovation (2018)

References

Network Systems and Integration Solutions

Hospitality



Project Description:

Azerbaijan Zayed Presidential Palace, Baku, Azerbaijan

Customer:  MEYAP
MƏKNƏ ELEKTRİK YAPILAR SANAYİ A.Ş.

Project Date: 2013 - 2014

Project Scope: In an area of 15.000m²

- Structured Cabling Systems
- Data Network: LAN, Wireless, IP CCTV
- Server and server cabinets installation
- Fiber and copper cabling system (300 ports fiber, 1500 ports copper)

References

Network Systems and Integration Solutions

Transportation



Main Customer:



Project Description:

Adnan Menderes International Airport, Izmir, Turkey

Customer: **TAV**

Project Date: 2013 - 2014

Project Scope: ULV Systems Fiber Optical Infrastructure of 130.000m²

- SCADA, BMS, PAS, GOS, FAS, CCTV, ACS systems
- 70 km fiber optic cabling in ULV systems
- More than 100 distribution points
- 4.000 fiber optic termination

References

Network Systems and Integration Solutions

Hospitality



Main Customer:



Project Description:

Qalaalti Spa Hotel, Baku, Azerbaijan

Customer:  RÖNESANS HOLDING

Project Date: 2013 - 2014

Project Scope: In an area of 38.000m²

- Data, IP Telephony, IP – CCTV, Wireless infrastructure
- Fiber and copper cabling (400 ports fiber, 2000 ports copper)
- LAN devices installation
- PABX system
- Server and server cabinets installation

References

Network Systems and Integration Solutions



Main Customer:  **KUVEYTTÜRK**

Project Description:

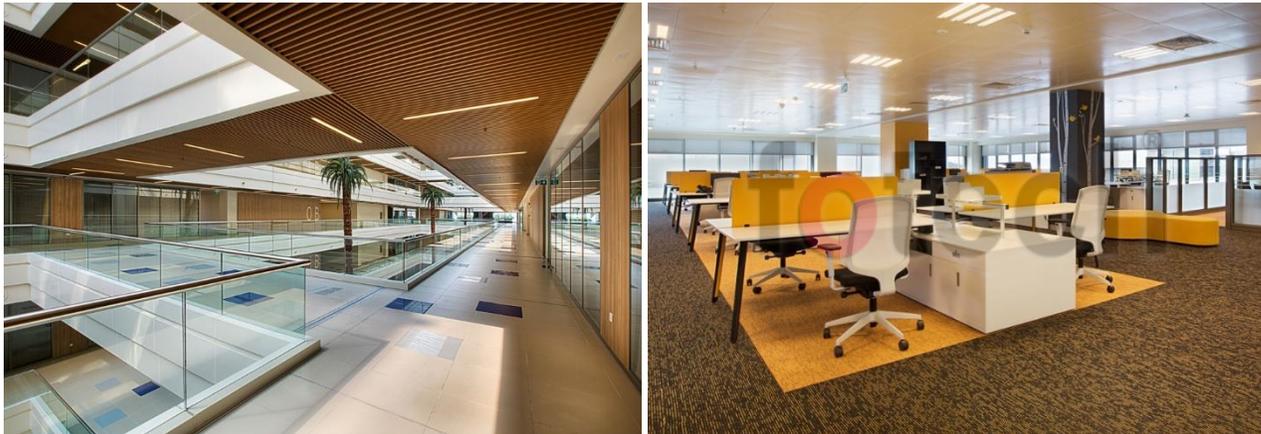
Kuveyt Türk Bank Şekerpinar, Istanbul, Turkey

Customer:  **KUVEYTTÜRK**

Project Date: 2013 - 2014

Project Scope: Structured Cabling System in an area of 80.000 m²

- 6.000 copper ports
- 800 fiber ports



References

Network Systems and Integration – ULV Solutions

Main Customer: **ExxonMobil**

Project Description:

Exxon Mobil Office and Residence, Baghdad, Iraq

Customer: **SEGATECH**

Project Date: 2013 - 2014

Project Scope: Security Access Control System

- Structured cabling infrastructure
- Security Access Control System software installation



References

Network Systems and Integration Solutions



Main Customer:



Project Description:

Medine Prince Mohammad Bin Abdulaziz Airport, Saudi Arabia

Customer:  **berksan** NOVATEK

Project Date: 2013 - 2014

Project Scope: For the 2 DCs of 130.000m² airport

- IP network and ULV system infrastructure
- Structured cabling systems
- Fiber optic backbone
- Cat 6A cabling

References

Network Systems and Integration Solutions

Transportation



Main Customer:



Project Description:

Marmaray Bosphorus Railway Project, Istanbul, Turkey

Customer:  MITSUBISHI
ELECTRIC

Project Date: 2012 - 2014

Project Scope: Tunnel ventilation SCADA system fiber optic infrastructure (40km)

- We have completed Fusion Splicing works 78m below the sea – 2st time in Turkey.
- 7 km tunnel cabling
- Structured cabling system
- Fiber backbone / infrastructure for SCADA systems (SM-OS2 and MM-OM4)
- End-to-end termination along the whole SCADA system
- Field-type connector usage for the areas where fusion splicing was found risky

References

Network Systems and Integration Solutions

Hospitality

Main Customer: 

Project Description:

Hilton Garden Inn Istanbul Atatürk Airport, Istanbul, Turkey

Customer: NOVATEK

Project Date: 2013 – 2014

Project Scope:

- Data Passive (Copper/Fiber Optic) Cabling System
- Cabinets
- Switch – Access Point
- Switchboard
- Switchboard (Yearly SLA)



References

Network Systems and Integration Solutions

Hospitality



Main Customer:



Project Description:

Rixos Bademlik Hotel, Eskişehir, Turkey

Customer:



Project Date: 2013 – 2014

Project Scope: In an area of 38.000 m²

- Structured cabling
- CISCO Network and Wireless Devices

References

Network Systems and Integration Solutions

Hospitality



Main Customer: 

Project Description:

Ramada Encore Hotel Bayrampaşa, Istanbul, Turkey

Customer: 

Project Date: 2013

Project Scope: In an area of 13.000m²

- LAN Network, Wireless infrastructure (Backbone and Edge Switch, Access Point and Controller)
- Fiber and copper cabling
- Server cabinet installation

References

Network Systems and Integration Solutions



Project Description:

Yacht Club, Awaza, Turkmenistan

Customer:  POLIMEKS

Project Date: 2013

Project Scope:

- LAN Network, IP Telephony, IP – CCTV, Wireless infrastructure
- Fiber and copper cabling
- LAN devices installation
- PABX system
- Server and server cabinets installation

References

Network Systems and Integration Solutions



Main customer:  RÖNESANS HOLDING

Project Description:

MVD Police Academy, Turkmenistan

Customer:  RÖNESANS HOLDING

Project Date: 2013

Project Scope: Network systems in an area of 110.000m²

- Fiber optic and copper cabling
- LAN Network, Wireless, IP Telephony, IP CCTV systems
- PABX systems
- Server and Server Cabinets

References

Network Systems and Integration Solutions

Hospitality



Main Customer: 

Project Description:

Radisson Blu Asia Hotel Atasehir, Istanbul, Turkey

Customer:  ANT YAPI®

Project Date: 2012

Project Scope: International hotel chain's communication infrastructure

- Data, Wireless infrastructure
- IPTV, IP CCTV Network systems infrastructure
- Fiber and copper cabling
- Fiber backbone OM3 (10G)
- CAT6 (1G), >2000 user ports

References

Network Systems and Integration Solutions



Main Customer:  RÖNESANS HOLDING

Project Description:

Ashgabat Politechnical Institute, Turkmenistan

Customer:  RÖNESANS HOLDING

Project Date: 2011 - 2012

Project Scope: IP communication infrastructure in 70.000m² university campus

- Data, Wireless, IP Telephony, IP CCTV system
- Fiber optic and copper cabling
- Fiber Backbone (OM3, 10G), >2.000 Users CAT6 (1G) Port
- LAN devices
- PABX system
- Server and server cabinets

References

Network Systems and Integration Solutions

Government



Project Description:

Seherce Military Academy, Ashgabat, Turkmenistan

Customer: 
POLIMEKS

Project Date: 2011 – 2012

Project Scope: IP network infrastructure of 100.000m²

- Data, Telephony, Wireless, IP-CCTV, IPTV Systems
- Structured Cabling Systems, Fiber Backbone (OM3, 10G), >6.000 Users CAT6 (1G)
- Network and Wireless devices
- PABX Systems
- LAN Devices
- Fiber Optic Backbone

References

Network Systems and Integration Solutions

Hospitality



Main Customer:



Project Description:

Double Tree by Hilton Hotel, Istanbul, Turkey

Customer:



Project Date: 2011

Project Scope: IP network infrastructure

- Data, Wireless Network, PABX, IPTV, IPCCTV Systems
- Structured Cabling Systems
- S/O & Environmental Monitoring
- F/O Backbone OM3 (10G)
- CAT6 (1G) for > 2400 users
- Service Level Agreement (SLA)

References

Others Hospitality

Network Systems and Integration – ULV Solutions

Other hotel projects Fotech has completed with the following scopes: ICT infrastructure (structured cabling), network solutions, wireless solutions, telephony systems, IPTV and CCTV solutions, server / storage / computer room solutions

	Caresse Hotel, Bodrum, Turkey	2013 - 2015		Double Tree by Hilton, Moda, Istanbul, Turkey	2011
	Alavya Otel, Izmir, Turkey	2014		Holiday Inn Moscow, Russia	2008
	Soyak Crystal Tower Business Center, Levent, Istanbul, Turkey	2014		Hilton Istanbul (Harbiye)–Izmir–Adana–Mersin–Konya–Kayseri, Turkey	2008
	Rixos Eskişehir, Turkey	2013 - 2014		Marriott Hotel Asia, Atasehir, Istanbul, Turkey	2008
	Rixos President Hotel, Astana, Kazakhstan	2008		Kempinski Bodrum, Turkey	2004
	Rixos Belek, Antalya, Turkey	2006		Les Ottomans, Istanbul, Turkey	2004
	Hilton Garden Inn, Beylikdüzü, Istanbul, Turkey	2013		Mövenpick Hotel Istanbul, Turkey	2003
	Crowne Plaza Bursa – Istanbul (Harbiye), Turkey	2011			

References

Network Systems and Integration Solutions

Fotech has completed the following works in below hospitals: Structured cabling, LAN active device

 TREE TOP INVESTMENTS PRIVATE LIMITED	Tree Top Hospital, Maldives	2016 – 2017
	Medical Park Hospital Gaziosmanpasa, Istanbul, Turkey	2013 – 2015
	Aile Konak Hospital, Izmit, Turkey	2012 – 2014
	Medicana Hospital Beylikdüzü, Istanbul, Turkey	2011
	Antalya BSK Medline Hospital, Antalya, Turkey	2011
	Fatsa Çınar Hospital, Ordu, Turkey	2011
	Özel Ordu Sevgi Hospital, Ordu, Turkey	2010
	Acibadem Fulya, Istanbul, Turkey	2010
	Memorial Hospital Atasehir, Istanbul, Turkey	2009 – 2010
	Merkezi Klinika, Azerbaijan	2009 – 2010

References

Test and Measurement Solutions



Main Customer: **unam** bilim ve teknolojide mükemmeliyet

Ulusal Nanoteknoloji Araştırma Merkezi

Customer: **unam** bilim ve teknolojide mükemmeliyet

Project Date: December 2020-2021

Project Scope:

- EXFO FTBx-5235 OSA Optical Spectrum Analyzer

References

Synchronization Solutions



Main Customer:



BOTAŞ

Customer: **EMERSON.**



Project Date: 2020-2021

Project Scope:

- Microchip S650 NTP Server

References

Test and Measurement Solutions



Main Customer:



NETAŞ

Customer:



Project Date: 2020-2021

Project Scope:

- EXFO FTBx-5245 Optical Spectrum Analyzer
- EXFO FTB-2 PRO- 88260-100GE Ethernet Tester

References

Network Systems and Integration – ULV Solutions



Main Customer: DHMI

Customer: Leonardo Turkey

Project Date: 2020

Project Scope: Videowall Control Project

- KVM Switch
- Connection Accessories

References

Network Systems and Integration – ULV Solutions



Main Customer: **aselsan**

Customer: **aselsan**NET

Project Date: 2020

Project Scope: REHIS Project

- 10G SFP module

References

Network Systems and Integration – ULV Solutions



Main Customer: ZİRAAT TEKNOLOJİ

Customer: ZİRAAT TEKNOLOJİ

Project Date: 2020

Project Scope: Data Center Synchronization

- MICROCHIP Synchronization Device

References

Network Systems and Integration – ULV Solutions



Main Customer: CREDIT REGISTRATION OFFICE

Customer: CREDIT REGISTRATION OFFICE

Project Date: 2019

Project Scope: Data Center Synchronization

- MICROCHIP Synchronization Device

References

Test and Measurement Solutions

Transportation



Main Customer: IGA HAVALIMANI İŞLETMESİ A.Ş

Customer: IGA HAVALIMANI İŞLETMESİ A.Ş

Project Date: 2019

Project Scope: Fiber and Copper Measuring Device

- EXFO OLTS Device
- Lantek Copper Test Device

References

Network Systems and Integration – ULV Solutions



Main Customer: **aselsan**NET

Customer: **aselsan**NET

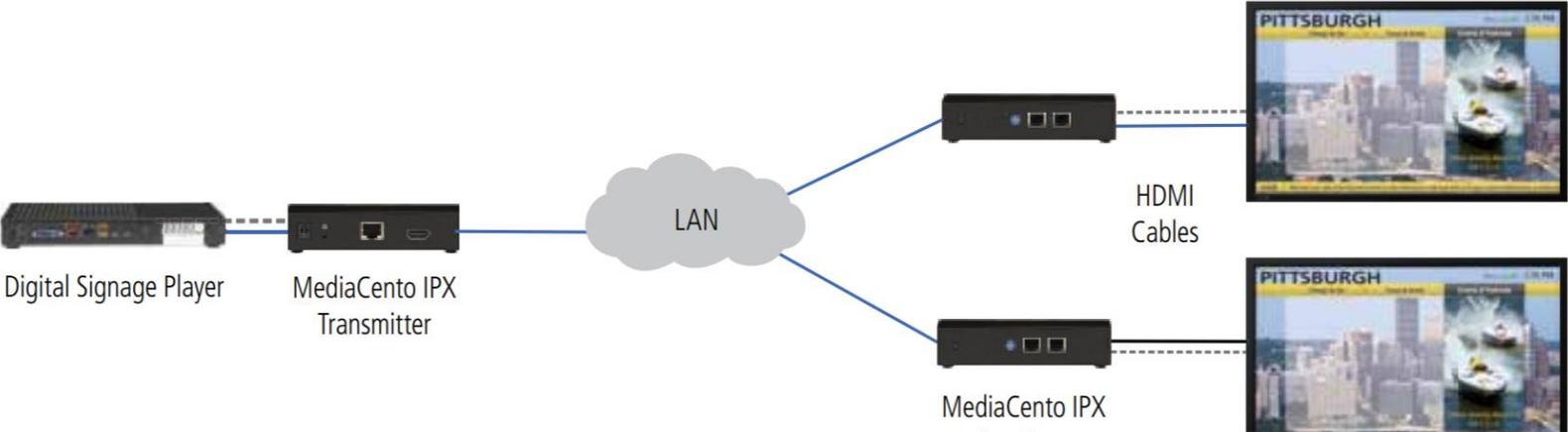
Project Date: 2017

Project Scope: Security Camera System

- LP J001A-T PoE Gigabit Injector

References

Network Systems and Integration – ULV Solutions



Customer: Various Customers

Project Date: 2015 - 2017

Project Scope: Below BLACK BOX products in various projects:

- KVM Tray with 8-Port KVM Switch, VGA, USB, PS/2
- Media Converter, 10/100 MBPS TX/SX MM 1300NM 2KM SC
- CatX Octet Server Access Module for VGA and PS/2 Targets
- MediaCentro™ IPX AV-over-IP Extension - 4K HDMI video and audio over LAN

References

Synchronization Solutions



TP5000



Main Customer: Türk Telekom Mobil A.Ş

Project Description:

Avea Mobile Cell Synchronization Systems, Istanbul, Turkey

Customer: Türk Telekom Mobil A.Ş

Project Date: 2012 - Present

Project Scope: Enabling synchronization between cell tower - that are the end units of mobile cells, preparation for synchronization during 4.5G transition

- Microsemi time servers: Installation and Commissioning of TP1000 Legacy 2Mbit/s, TP5000 PTP (IEEE 1588-2008 PTP Grandmaster Clock), TS3X00 Legacy 2Mbit/s, SSU2000 and relates software
- Enabling 24/7 uptime with SLAs

References

Synchronization Solutions



Main Customer: TURKCELL

Project Description:

Turkcell Mobile Cell Synchronization Systems, Istanbul, Turkey

Customer: TURKCELL

Project Date: 2011 - Present

Project Scope: 2G, 3G, 4.5G whole mobile network synchronization infrastructure (between cell towers that are mobile cells' end units), Synchronization preparation during 4.5G transition

- Microsemi time servers: Installation and commissioning of SSU2000, TP1000, TP2700 (Edge Grandmaster Clock) and TP5000 (IEEE 1588-2008 PTP Grandmaster Clock) and related software
- Enabling 24/7 uptime with SLAs

References

Synchronization Solutions



Main Customer:  is|telkom

Customer:  is|telkom

Project Date: 2017

Project Scope: Istanbul Metro Infrastructure within LTE access services

- MICROSEMI TP5000 PTP Grandmaster Device



References

Synchronization Solutions

Tallysman



Defence

Main Customer:



Customer: roketan



Project Date: 2017

Project Scope: GPS Antenna System Amplifier

Tallysman product:

- TW 127

References

Synchronization Solutions



TP5000



Main Customer:



Project Description:

Istanbul Stock Exchange Synchronization System, Istanbul, Turkey

Customer:



Project Date: 2016

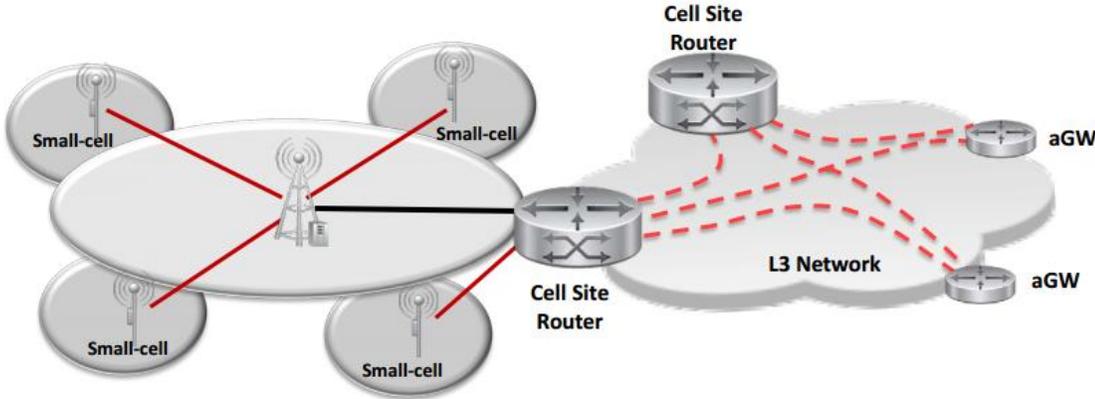
Project Scope: Fully redundant time server system has been designed and installed successfully for Istanbul Stock Exchange's internal use and corporations working with Istanbul Stock Exchange.

The installed system can both support NTP and PTP.

Industry-leading Microsemi's TP5000 (IEEE 1588-2008 PTP Grandmaster Clock) devices have been used.

References

Synchronization Solutions



S200

S600



Main Customer: Trakya Electricity Distribution A.Ş. (TREDAŞ)



Project Description:

General Electric (GE), Trakya Electricity Distribution A.Ş. (TREDAŞ) Project

Customer:

Project Date: 2016

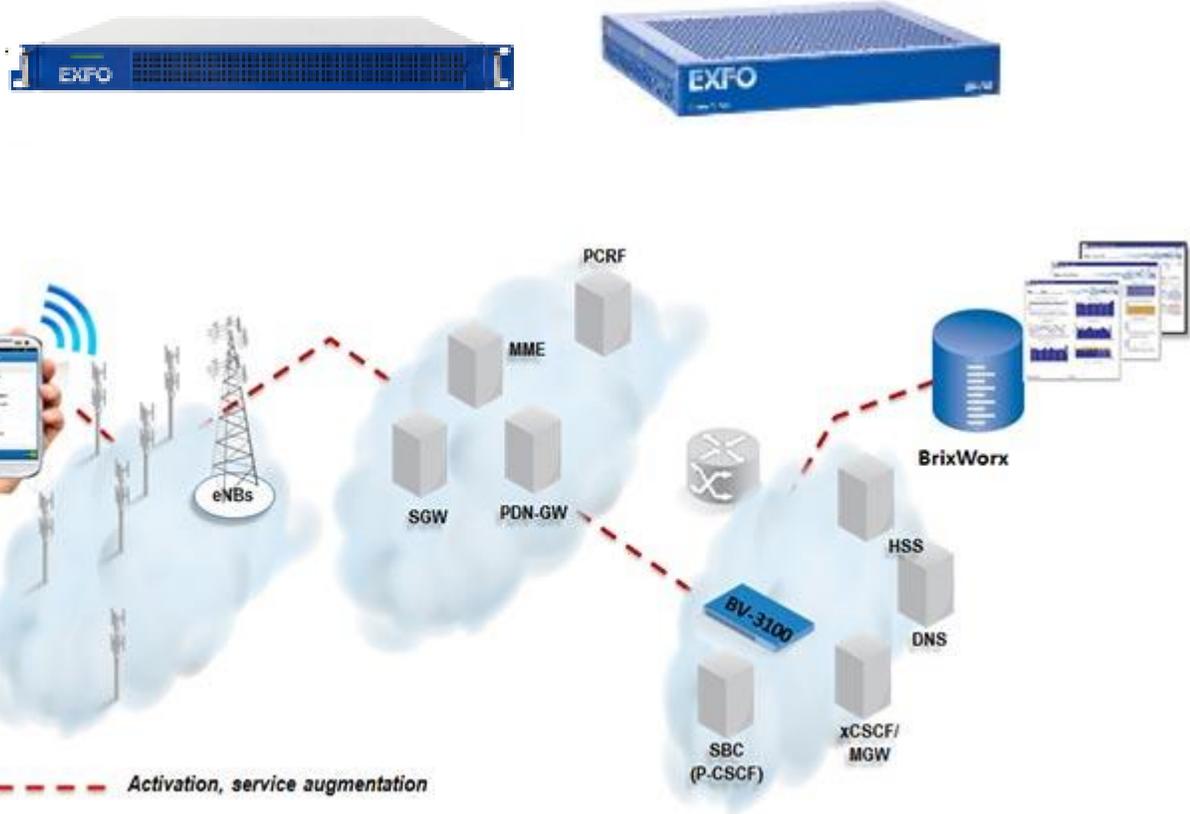
Project Scope: General Electric preferred to have Microsemi S200 (Enterprise Class GPS Network Time Server) as the central synchronization equipment in TREDAŞ.

TREDAŞ distributes electricity to 1M people in Trakya region.

**Note: S200, S250, S300 and S350 products are discontinued. S600 and S650 (High Performance Enhanced Security Network Time Server) products are suggested instead.*

References

Service Assurance Solutions



Main Customer: TURKCELL

Project Description:

Turkcell Superonline Performance Monitoring

Customer: TURKCELL

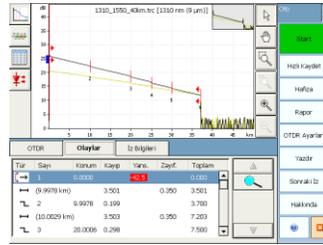
Project Date: 2012 - Present

Project Scope:

Carrier Class Performance Management System is enabled by Exfo's BrixWorx solution for Turkcell Superonline's infrastructure, to monitor Active Probes and Oracle-based database, and it is enabled to monitor IP/MPLS backbone and Midi/Mini PoPs in Corporations, Enterprises and Consumer networks.

References

Test and Measurement Solutions



Main Customer: Türk Telekom

Customer: Türk Telekom

Project Date: 2012 - Ongoing

Project Scope:

Exfo products:

- OTDR
- PMD, Distributed-PMD Analyzer
- Fiber Inspection Probe, VFL
- Optical Light Source, Power Meter
- Optical Variable Attenuator
- Optical Spectrum Analyzer (OSA)



References

Test and Measurement Solutions



Main Customer:  **TURKCELL**

Customer:  **TURKCELL**

Project Date: 2012 - Ongoing

Project Scope:

Exfo Products:

- Visual Fault Locator
- Optical Light Source
- Power Meter

References

Test and Measurement Solutions



Main Customer:  **TURKCELL**

Customer:  **TURKCELL**

Project Date: 2012 - Present

Project Scope:



Exfo products:

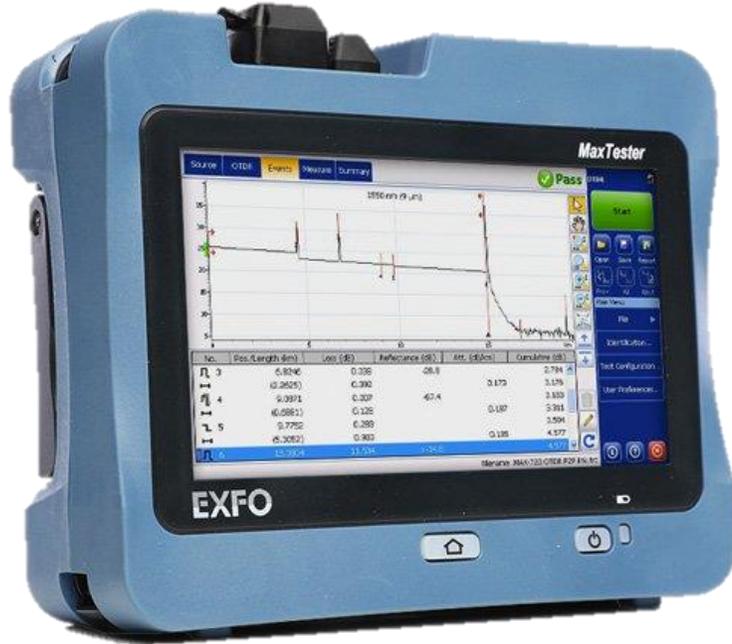
- PON-OTDR
- PON Power Meter
- Fiber Inspection Probe
- Fast Reporter Software

Sumitomo products:

- T-71C

References

Test and Measurement Solutions



Main Customer:



Customer:



Project Date: 2017

Project Scope: Fiber Optic Cable Suitability Measurement and Inspection Project

Exfo product:

- OTDR MAX 720C

References

Test and Measurement Solutions



Transportation

Main Customer:



Customer:



Savronik

Project Date: 2017

Project Scope: T.C.D.D. İZBAN Line Measurement and Termination Project

EXFO OTDR and SUMITOMO Fiber Optic Cable Fusion Splicer

References

Test and Measurement Solutions



Defence

Main Customer:



Customer:



Project Date: 2017

Project Scope:

Exfo products:

- FBK-51 Lan Kits
- FiberBasix Power Meter
- FiberBasix Light Source

References

Test and Measurement Solutions



Main Customer: **aselsan**

Customer: **aselsan**

Project Date: 2017

Project Scope: Exfo products

- FBK-52 Outside Plant
- FiberBasix Power Meter
- FiberBasix Light Source

References

Test and Measurement Solutions



Main Customer:



Customer:  **STM**

Project Date: 2017

Project Scope:

Exfo products:

- EXFO MAX 720C OTDR

Sumitomo products:

- SUMITOMO T-55 Fusion Splicer

Various Accessories

References

Test and Measurement Solutions



Main Customer:



Customer:



Project Date: 2017

Project Scope: SUMITOMO products

- SUMITOMO T71C+ Fusion Splicer

References

Test and Measurement Solutions



Main Customer: 

Customer: 

Project Date: 2016

Project Scope: Fiber Optic Infrastructure Measurements

Exfo products:

- EXFO FTB-1v2 PRO-730Gv2
- EXFO FPM-602X Powermeter

Sumitomo products:

- SUMITOMO T-55 Fusion Splicer

References

Test and Measurement Solutions



Main Customer: **aselsan**

Project Description: 4th Generation (4G/LTE) Communication Technologies (ULAK) Project, Ankara, Turkey

Customer: **aselsan**

Project Date: 2015

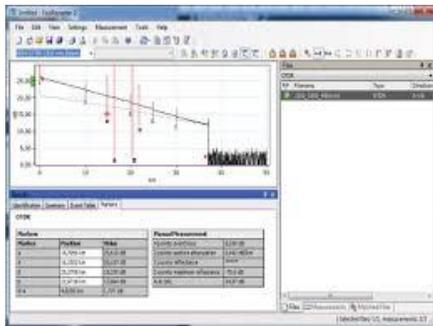
Project Scope: 4th Generation (4G/LTE) Communication Technologies (ULAK) Project eNB Test Systems

Test systems for testing the functional and load of LTE eNB devices were provided, within the scope of ULAK project in cooperation of Aselsan, Netaş and Argela.

The installed system's trainings were given by Fotech, to train on the usage of Artiza Networks - the leader in mobile test systems.

References

Test and Measurement Solutions



Main Customer: **vodafone**

Project Description: Vodafone, İstanbul, Türkiye

Customer: **vodafone**

Project Date: 2010-2015

Project Scope: Installation, training, service, and consultancy for the below Exfo products:

- STM-64 SDH / 10G Ethernet Analyzer
- Optical Spectrum Analyzer
- Live Fiber Detector
- OTDR
- Fast Reporter Software

References

Test and Measurement Solutions



Main Customer:  TURKSAT

Customer:  TURKSAT

Project Date: 2014

Project Scope: Installation, training, service, and consultancy for the below Exfo products:

- OTDR
- Optical Power Meter

References

Test and Measurement Solutions

Customers – Products:

aselsan

OTDR, Fiber Optic Fusion Splicer, Optic Cleaning Kit

CORNING

OTDR



CD / PMD Device



CD / PMD Device, OTDR



PMD Device, OTDR



PMD Device, OTDR



OTDR

Others

Brands:



References

Production Solutions



Various Customers:



Project Date: 2014 - Ongoing

Project Scope: Special Type Fiber Optic Cable Termination Projects



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