

**NETAS** | 45 YEARS

# 45 years with success...

Netas provides innovative end-to-end value added systems integration and technology services in Information and Communications Technologies (ICT). Our customers range from telcos to public and private enterprises in local and international markets. Our constant focus in productivity is based on our next generation competencies around technology skillset and expertise. We hold a track-record of 45 years and continue our foray in the field of ICT, supported by experienced, best of breed Research and Development group. We also play an important role in the modernization of the Turkish Armed Forces defense communication networks.

Netas charts its vision to become the first company to consult through innovative ICT solutions and establish itself as the opportunity provider to its customers. We provide a wide array of services to enterprises functioning in various vertical segments, particularly telcos, finance and general industry. Netas nurtures strategic partnerships with global technology giants to provide its customers an insight whilst helping them keep pace with the latest ICT developments and adopt them more efficiently. We excelled against 500 other Turkish companies to win the title "Software Export Champion" three times in the last five years and continue to develop software solutions for more than 160 global operators. We provide our customers with networking, security, unified communications, virtualization, cloud computing, broadband access, defense and public security technologies, optical and carrier Ethernet, GSM-R, IT integration services, strategic outsourcing and tailored software development solutions. We provide extensive and goal oriented services, ranging from technology consultancy to post-sales assistance in the Asia-Pacific, CIS and African territories. Netas is a publicly traded company and is listed on the Istanbul Stock Exchange (ISE). Netas's majority shareholders are OEP (One Equity Partners) RHEA Turkey Tech B.V. and The Turkish Armed Forces Foundation.

NETAS

# Systems integration. Seamless, reliable and fast...

Customer expectations and demands are changing in parallel to technological advancements. Systems integration then was limited to one manufacturer installing and deploying products functioning for various purposes. Over time, this model has transformed into integration of products of multiple manufacturers with diverse competencies and specializations. Such an approach needs synchronization and compilation of the newest technologies, and creative custom solutions. Accordingly, we added a new vision to systems integration through our R&D expertise and excellence on evolving next generation technologies.

We are an “opportunity provider and consultancy company” that plans, creates, installs, supports, operates and manages ICT solutions. Besides, we provide cost-effectiveness and competitive advantages to customers who believe that ICT is key for business efficiency. As Turkey’s largest systems integrator, we increase our customers’ operational productivity levels and develop communications infrastructures for efficient and effective information sharing and management. In order to increase employee productivity and customer satisfaction, we secure companies’ networks, applications, data and maximize the value of information. In addition, we continue post-sales support through our services delivery group structured to provide seamless support for companies with nationwide infrastructures. Our constant principle is to turn every business transaction with our customers into a success story... Our reputation for being an innovative, reliable, creative and value added solutions partner, and the preferred Turkish business partner of international tech giants, is the result of such success stories...

Our team relies on the experience in multiple ICT disciplines to include software development, hardware and testing while designing solutions that bring together the best of breed products manufactured by our strategic partners. Moreover, our R&D department adds value to our customers by developing solutions that perfectly meet customer needs.



# **Turkey's growing power in technology**

We believe that a country's ability to manufacture its own technology is the key for the development of its economy and the growth of its national income. Our R&D group, inducted in 1973, significantly contributes to Turkey's economy via its technology production for the world. Today, we have 73 R&D laboratories with 40.000 items of inventories covering in 3,200 sqm area for the use of design verification, engineering, customer configuration and testing, and continue to support Turkey's goal of becoming the regional power in advanced ICT technologies with the help of our R&D and innovation capabilities.

## **Innovative R&D culture...**

Being an innovative trendsetter in Turkey's communications technologies, we continuously develop products compatible with next generation networks with our ingrained culture of R&D and innovation. We are proud of being part of the global competition leveraging our competencies. The R&D of two products with high global market shares in VoIP and IMS (IP multimedia subsystems) is championed by Turkish engineers working at Netas. Alongside wide array of ICT services, we have a successful partnership with Aselsan in defense industry. Within the scope of this partnership, we design and develop integrated communications systems for Public Security and Emergency Communications Platform, Land Forces (TASMUS), Air Forces (IFF), Navy (MILGEM) and Gendarmerie (JEMUS).



# ***Locally developed 4G-LTE***

Netas has kept a close watch on technological trends and developments since the very first day of its establishment. This visionary approach prompted us to develop 4G technologies while 3G was just being introduced in Turkey. As a result, the software and hardware of Turkey's first 4G-LTE (Long Term Evolution) "Mobile and Fixed Wireless Broadband Access Technology" was completely developed by Turkish engineers at Netas laboratories. Our engineers developed the OFDM (Orthogonal Frequency Division Multiplex) modulation that lies at the core of the technology for 4G-LTE, which focuses on real-time data transfer for mobile and fixed broadband networks. The locally developed and customizable "4G-LTE Mobile and Fixed Wireless Broadband Access Technology" is not only applicable to mobile operators planning to adopt 4G but also more for government institutions, Turkish Armed Forces and many other entities operating in varying fields ranging from transportation to security, that require fast, seamless and secure multimedia communications. We continue to improve our design in order to increase the capacity of this technology to 100 Mbit/s and beyond.

# **Leveraging with custom solutions**

Netas offers customized solutions with superior R&D experience and systems integration competencies. We analyze companies' needs accurately and produce tailored solutions compatible with existing systems. As an opportunity provider to our customers with innovative solutions, we work with many large companies to fulfill their particular business and technology needs. Our proficiency in systems integration allows our R&D team to develop robust and replicable custom solutions for telecoms and other major industries. Being one of the largest software and hardware design centers in Turkey, our R&D department provides consultancy services for the design of large scale product ranges, test automation, process improvements and consolidation, and application management as well as basic product design. Based on our 40 years of R&D experience, technology skillset, software competencies and expertise, we transfer the experience gained from international R&D projects to Turkey's ICT industry.

# **Strong focus and vision**

Our clear vision helps us accomplish all our objectives following a concrete strategic plan. We increased our turnover from \$79 million in 2006 to \$195 million in 2011. Our 5-year compound growth rate has reached 20% and we continue to provide a wide range of goal oriented services to government entities, companies and defense contractors in Turkey, the Asia-Pacific, the Commonwealth of Independent States and Africa.

# Solutions

## Networking Solutions

Broadband Infrastructure Solutions  
Mobile Broadband  
Mobile Backhaul  
GGSN/SGSN  
WiMAX  
GSM-R  
WiFi  
Fixed Broadband  
FTTx Solutions  
HFC (Hybrid Fibre Coaxial) Solutions  
IP-MPLS Core  
Optical Core  
Enterprise Network Infrastructure  
Data Center Infrastructure  
Structured Cabling Solutions

## IT Security Solutions

Data Security  
Secure XML Gateway  
End User Security  
Network Security  
Internet Security  
Professional Security Services  
DDoS Attack Prevention

## Cloud Solutions

Cloud Management  
Cloud Provisioning  
Desktop Virtualization  
Server Virtualization  
Server & Storage  
Storage Area Networking  
VXI (Virtualization Experience Infrastructure)  
(Voice & Video on cloud)  
Technology Consultancy and Custom Development

## Converged Multimedia Solutions

NGN Solutions  
IP Peering & Trunking Solutions  
IPTV  
OTT (Over The Top) Solutions  
Digital Signage  
Call Center  
IP Centrex  
Hosted Unified Communication  
IP Telephony  
Soft Client  
Fixed Mobile Convergence  
Technology Consultancy and Custom Development

## Collaboration and Unified Communication Solutions

Presence  
Messaging  
Voice / Video / Web Conference  
Enterprise Social Media  
TelePresence  
Digital Signage

## Computing Solutions

Server and Data Storage Systems  
Desktop Systems  
Virtualization and Consolidation  
Server Virtualization  
VDI (Virtual Desktop Infrastructure) Solutions  
Storage Area Networking  
Backup and Recovery Solutions  
VTL (Virtual Tape Library) and  
De-duplication Solutions (VTL)  
DR (Disaster Recovery) / BC (Business Continuity)  
Solutions  
Replication Solutions

## M2M

Telematics (Smart Industry)  
Building Automation Systems  
Security & Surveillance  
Technology Consultancy and Custom Development

## OSS and BSS

IT Services Management  
Help Desk  
Asset Management  
Incident Management  
Problem Management  
SLA (Service Level) Management  
Configuration Management  
Management and Monitoring Systems  
Server and Network Performance Management  
Application Performance Management  
Cloud Management  
Optimization Solutions  
Radio and Core Optimization  
Transmission Optimization  
Service and Quality Management  
VAS Performance Management (Loupe Monitoring)  
Signalling Quality Control and Management  
End User Experience and Quality Management  
Service Quality Management Solutions (BSM)  
Network Services Management  
DNS, DHCP, FTP, SMTP, POP3, IMAP, HTTP, HTTPS.  
IP (IPv4 ve IPv6) Management  
Identity Management  
Access Authorization  
SSO (Single Sign-on)  
Service Management and Monitoring Solutions  
PCRf Policy Control Ruling Management  
Subscriber, Policy and Service Management  
DPI Deep Packet Inspection  
(Traffic Management and Analysis)  
RADIUS-AAA (Accounting, Authorization, Access)  
Business Application Solutions  
Business Process Analysis  
Solution Design  
Application Development  
System Integration  
Application Operation and Management  
Business Intelligence Solutions  
Turn-Key Solutions  
Consultancy  
Outsourcing  
Test Automation Solutions  
Test Analysis and Design  
Test Automation  
Test Management

## Defense, Public Safety, e-government Solutions

Defense Solutions  
Tactical Field Networking Solutions  
IP/ISDN/ATM Switching Systems  
Integrated IP Access System (Switch/Router)  
Digital Field Switch  
ISDN and ADSL Terminals  
MOLTU Optical Transmission Device  
Shelter Power Sources  
Shipboard Communication Solutions  
Control and Connection Modules  
Radio Communication Solutions  
OFDM-LTE Based Base Station System  
Avionic Systems  
GNSS Receiver System  
PAMS (Platform Attitude Measurement  
Systems)  
Friend/Foe Identification System  
Transmission Solutions  
TN-1XE Optical Multiplexer  
Technology Consultancy and Custom Development  
Public Safety Solutions  
112 Emergency Communications Platform  
APC025 Switching System  
Through-Wall Radar  
Physical Security Solutions  
Access Control Systems  
Security and Video Surveillance System  
Sensor Networks  
Technology Consultancy and Custom Development  
E-government  
Integration Projects  
Technology Consultancy and Custom Development

## Microsoft Corporate Solutions

Corporate Licensing  
SPLA Licensing  
Unified Communication  
Messaging and Communication  
Enterprise Voice Integration  
Desktop and End-Point  
Archiving  
Virtualization  
Server and Application Virtualization  
Virtualized Desktop Infrastructure (VDI)  
Security  
Forefront Business Security  
Identity and Access Management  
Information Rights Management and Security  
System Management  
Management, Monitoring, Dashboard  
Deployment, Configuration, Back-Up,  
Asset Management  
Managed Services  
Data Platform  
Infrastructure  
Analysis/Assessment/Consolidation  
Appliance  
Reporting



# Services

## Maintenance and Support Services

Warehouse and Logistics

Inventory Management

IMACD Services

Mounting Services

Staging

Installation Services

Integration, Testing and Acceptance

Commissioning

IT Systems Transport Services

Repair and Update

Technical Support Services

Periodical Maintenance Services

Advanced Level Technical Support

Emergency Intervention

Software Update

Operation Support Services

Network Monitoring and Reporting

First Level Maintenance Services (FLM)

Operational Field Support Personnel Services (Baby-sitting)

Warranty Period Surveillance

Support Services

Network

System

Telecom Services

Defense Systems

Storage Systems

Security Systems

Desktop Systems

Microsoft Applications

PDS and Intelligent Payment Systems

Server Systems

## Professional Services

Consultancy Services

Network and Security Consultancy

Disaster Recovery Consultancy

Systems Consultancy

Installation Services

Network Structural Transformation

Network Optimization

Network Design and Engineering

Site Survey Report

Project Management

Software Update

Technology Transfer (Technology Introduction)

## Managed Services

Call Management and Help Desk Services

Level 0 Support

Level 1 Support

Operation Services

Proactive Monitoring

Proactive Reporting

Operational Support Services

Network Monitoring

First Level Maintenance Services (FLM)

Operational Field Support Personnel Services (Babysitting)

Inventory Management

Hosted Carrier Services

Server Hosting Services

## Outsourcing Services

Outsourcing Usage Model

ICT Outsource Personnel

Strategic Outsourcing

## Vendor Warranty Services

Faulty Part Reception and Delivery

Maintenance and Repair

Call Center

Post-Warranty Services

Customer Notification

Reception Services

On-site Repair

## Training Services

Customer Training

Delivering Telecommunication Technologies

Operation & Maintenance Level Courses

Delivering hands-on courses on fully equipped training labs