



We Are ...

Global

- Established as Nortel JV in 1967
- 48 year-strong presence in Turkey
- Built Turkey's fixed and wireless voice, data and optical infrastructure
- 1,500+ customers including Turkey's 500
- 'Turkey's fastest growing ICT company' as per 2013 Capital magazine Top 500 survey
- Turkey's #1 converged (carrier and enterprise) Systems Integrator also serving the Region

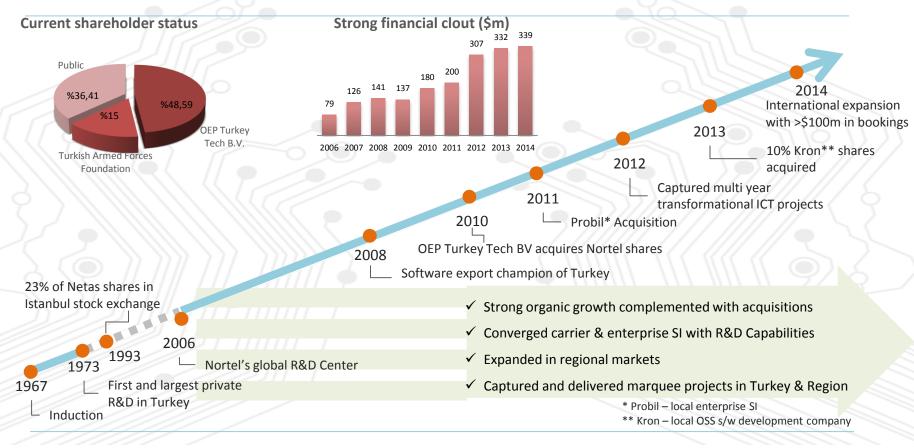
Innovative

- 42 years of carrier and enterprise; telecoms and IT R&D
- Field proven hardware , software & application development
- Nortel and Genband's R&D Center of Excellence in VoIP and Multimedia applications
- Certified as 'incentivized R&D Center' by Turkish Ministry of Science, Industry & Technology
- Locally developing 4G LTE & Cyber security solutions
- Awarded twice as 'Best R&D Center in Telecoms Business' by Turkish Ministry of Science, Industry & Technology

Financially Solid

- Overall strong top line growth from both organic and inorganic activities
- 20% CAGR in revenue from \$79m in 2006 to \$339m in Y2014
- Significant growth in total order booked from \$132m in 2009 to \$382m in Y2014
- Sustainable EBITDA growth from \$13m in Y2013 to \$18m in Y2014

History



Business Focus









End to end SI

- ✓ Full solution sales with services attached
- ✓ Technology Consultancy

Tailored for customer

Services

- ✓ Strategic IT Outsourcing
- ✓ Deployment and I&C
- ✓ Support & Maintenance
- ✓ Warranty, repair & return

Widespread & Reliable

Innovation

- ✓ Own Products & Solutions
- ✓ Custom Software & Application
- ✓ Homegrown 4G LTE solution

c.700 R&D engineers

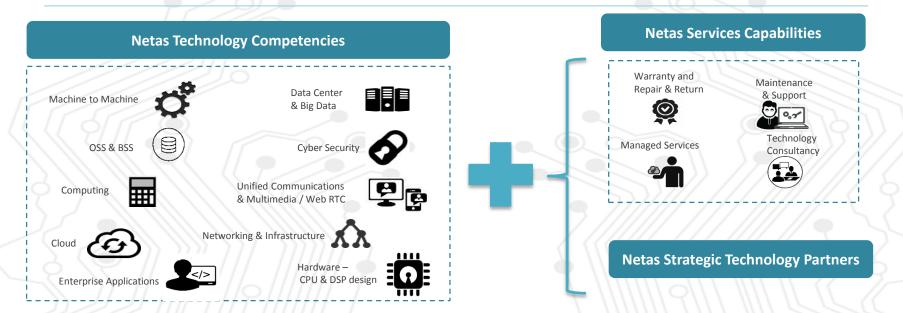
Productization

- ✓ Telco hardware firmware software production in niche verticals
- ✓ Repair center

As per global standards

- Complex multi-year multi-million dollar transformation projects delivery in carrier & enterprise domains
- Servicing customers nationwide as per SLA's and high quality standards
- Constant innovation & championship in patent applications applied for c.70 patents in the last 2 years
- Hardware & software development and custom productization in 10K sqm facility

Operational Competencies



Vertical sector and customer focus

Technology partner of blue chip customers in Turkey and the Region

Vertical Sector Focus



Finance

- o ICT presence within 95% of all banks operating in Turkey
- Serving 11K branches nationwide



Energy & Utilities

 ICT solutions top energy companies of Turkey, enabling them serve to 24 million subscribers



Sports & Entertainment

- o Undertaken the first smart stadium project of Turkey
- o **e-ticket infrastructure of 33 stadiums** in operations
- o More than 5,000 cameras installed for surveillance systems



Retail and FMCG

o 60% of the top Turkish retail companies provide premium service experience over Netas-delivered ICT infrastructure



Public

- o **Technology partner of the Ministry of Education** Delivering ICT infrastructure to 9K schools within FATIH project
- o Interconnecting c.3K courts and c.550 penitentiaries via unified communications for Ministry of Justice
- o Single platform development for **Disaster & Emergency Management, Ministry of Premiership**
- o IP Transformation project with Ministry of Defense in Algeria
- o Local 4G LTE development for Turkish Undersecretariat of Defense Industries



Telecom Service Providers

- o Providing services to all operators in Turkey that cover 72 million subscribers
- o IP migration & network services to TeliaSonera companies in the Region (eg KCell, NCell, UCell, etc)
- o Network optimization services to Mobilis Algeria

International Markets Expansion



Objective is to replicate successful vertical SI projects in Turkey in focus territories

Focus in North Africa, CIS and Asia-Pacific

- Substantial business in Algeria with government and mobile operator
- IP infrastructure solutions within operators in Kazakhstan & Uzbekistan
- Optical backbone in Bangladesh

Netas brand in the Region well known and reputable

c.\$30m annual multimedia VoIP software sales

110% growth in revenue, 260% growth in orders (Y2013 to Y2014) – in TL terms

Customers















Sekerbank 45

General industry/ **Conglomerates**









MUVEYTTÜRK



Allianz (II)



Providers















Focus on Top 500 of Turkey









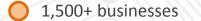








Marquee customers in the Region

























Utilities & Energy















Public Safety











Technology / R&D















International



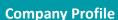






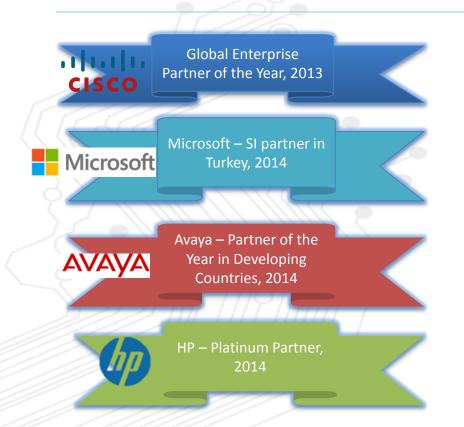


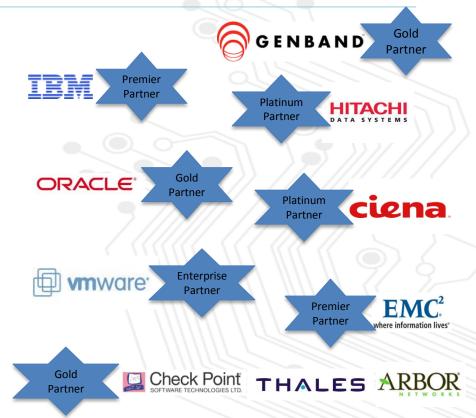






Strategic Technology Partners





Major Big Ticket Projects

Increasing momentum as 'The Technology Power Behind Verticals'



Disaster & Emergency Mgmt Center Decision Support

Enabling government to manage multiple decision support systems into a single easy-to-use interface for disaster & emergency operations

Education System Technology Transformation

Empowering Turkish Ministry of Education with latest ICT infrastructure &

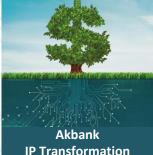
Unified Communications for Turkish Ministry of Justice

Transforming Turkish Judicial system with ICT for efficiency and operational effectiveness



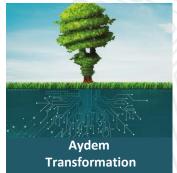
Turkish Football Federation Smart Stadiums

Alter the way Turkish football fans support their teams by transforming stadiums into smart entertainment centers



IP Transformation

Moving bank's comms into Cloud and upgrading IP Infrastructure to serve all branches nationwide



In recently privatized utilities market, delivering Aydem with Automated Meter Reading Systems & ICT infra



Algerian Ministry of Defense & Algerian mobile SP, Mobilis

Bringing next generation ICT technologies to North Africa

NETAS

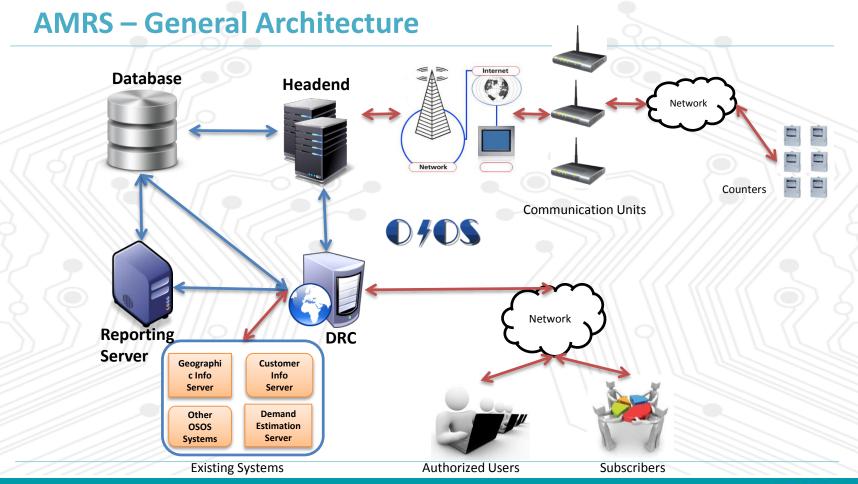
AYDEM Automated Meter Reading System Solution



Index

- Architecture
- Solution Components
- Functionality
- Netaş Effectiveness Model





AMRS Panel

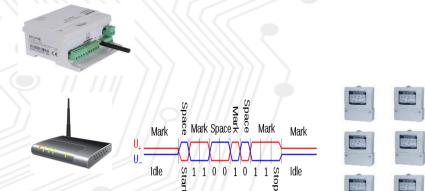
- Netas Unic Custom Design
- V0 unburnt, IK10 and IP55 protection, Glass&Fibre Strength Polyester
- 180 degree opening doors, internal lightening, user protection (IP2X)
- Central HW Management





AMRS Communication Unit

- M2M Sim cards used for communication between Modem and Center
- RS-485 used for communication with Meters
- 256 meters can be connected to each Unit







AMRS Integrated Meters

- MAKEL
- KOHLER
- LUNA
- ELEKTROMED
- VIKO
- ABB/ELSTER A1350-1500
- ACTARIS/SCHLUMBERGER/ITRON SL7000 Series
- LANDIS+GYR EMG/ZMG Series
- ISKRA
- ITRON
- ELSTER





















AMRS Reporting Module

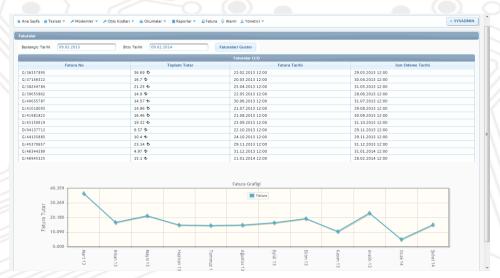
- OSF reports, Decision Support Reports, Metering and Reading Reports, Modem Reports, Daily Recording Reports and investigation
- Daily, instant and historical reports in different formats
- Historically or Time Range based Graphical and Table Reports
- Web Service and e-mail support
- Automated, periodic reporting option





AMRS Invoice Unit

- Subscriber and fitment based invoices
- Graphical display
- Filtering

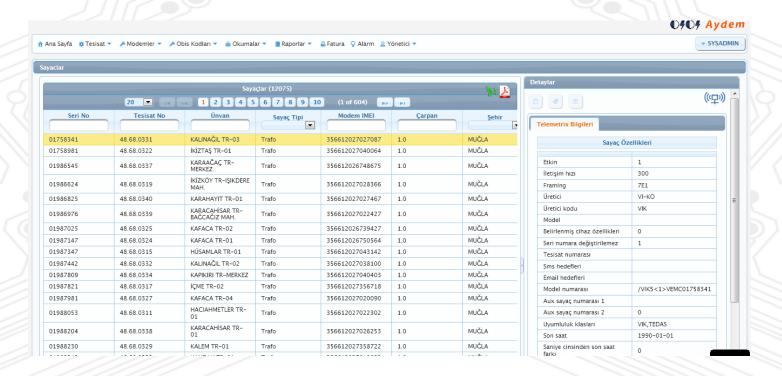


Netaş Efficiency Model

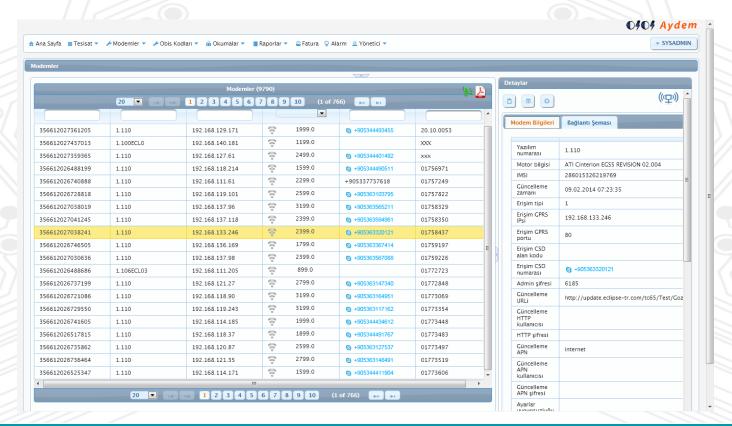
- AMRS System designed and applied to AYDEM by NETAS is a cost efficient, improvable, extendible, stable and flexible solution.
- Experienced R&D Engineers, providing fast and reliable problem solution and support according to international standards.
- HW and SW independency



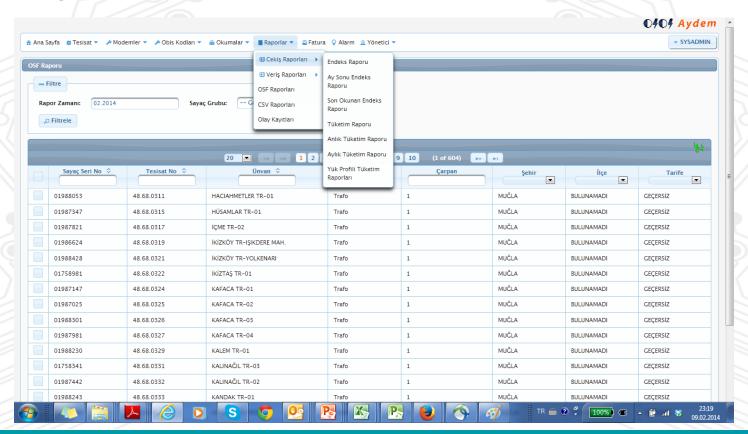
Meters



Modems



Reports





Aydem DRC Project

June 2015

Content

Infrastructure

Network & Security

System

Application

Datacenter - Denizli

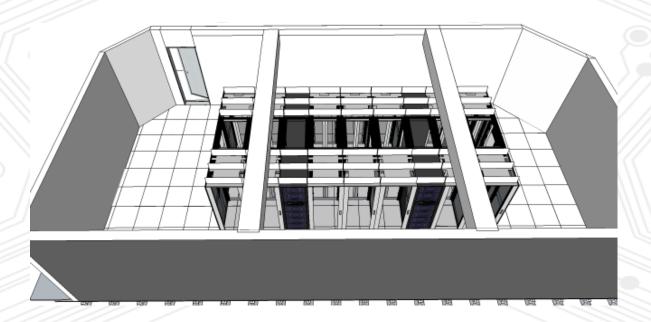












Datacenter - Aydın

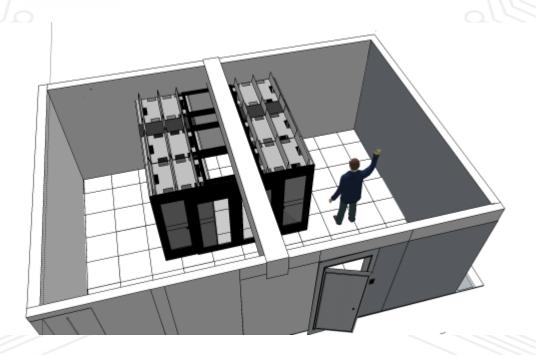












Datacenter - Muğla

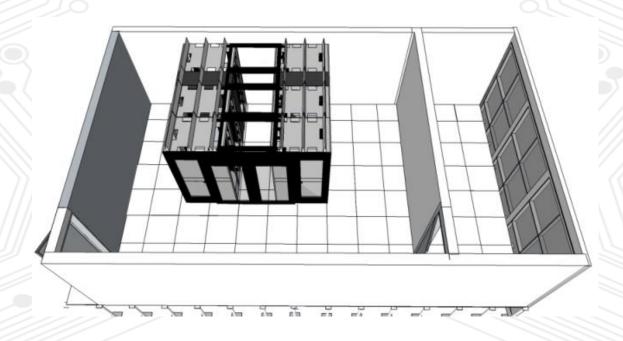




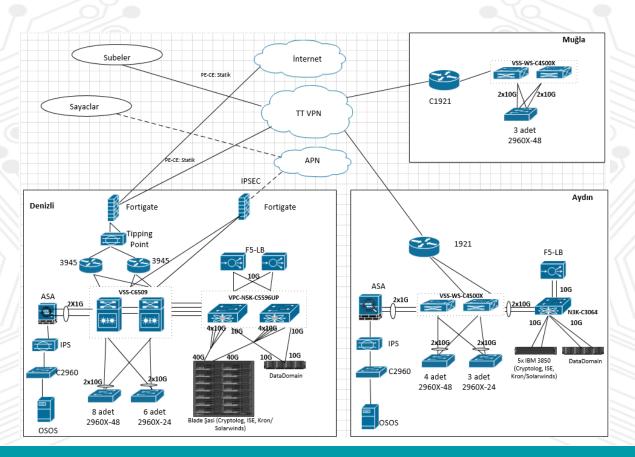








Topology



Network & Security

Solution	Vendor / Provider	Product	I&C&A
Local Area Network	Cisco	Catalyst	Netaş
Wide Area Network	Türk Telekom	TT VPN	TT & Netaş & Aydem
DC Network	Cisco	Nexus	Netaş
IP Adress Management	Blue Cat	3000 Series	Netaş
Event Management	Crypttech	Cryptolog	Netaş & Crypttech
IPS	HP Tipping Point	S2600	3rd Party
Network Connection	Cisco	ISE	Netaş
System Monitoring	Kron	SMON E	Kron
Load Balancing and Application Security	F5	BIG IP	Netaş

System Components

Solution	Vendor	Product	I&C&A
Server	IDA4	Demofler	Nata
Storage	IBM	Pureflex	Netaş
Deduplication	EMC	Data Domain	Netaş
Virtualization	VMWare	ESX	Netaş
Backup	Veeam		Netaş
System Management SW	Microsoft	System Center	Netaş

Migrated DRC Applications

Varolan Sunucular											
Sunucu	IP Adres	Donanım	os	Seviye	Tahammül Süresi	Uygulama	Görevi	Lokasyon			
DNZMRKNET1		Blade	W2K-8 STD 64	1	Anlık	Active Directory	Domain controller DNS, WINS, DHCP	Denizli, ODI			
RACK2	192.168.0.234	Blade	RedHat 5.0 Ent	1	2 Saat	Müşteri Bilgi Sistemi Oracle DB	Abone Yönetimi	Denizli, OD			
ENDEKSOR	192.168.0.102	Blade	RedHat 5.0 Ent	1	2 Saat	Oracle DB	Sahadan veri toplama	Denizli, OD			
BANKALAR	192.168.0.101	Blade	RedHat 5.0 Ent	1	2 Saat	Oracle DB	Bankalar ile iletişim	Denizli, OD			
CRM	192.168.0.213	Blade	W2K-3 STD 32	1	Anlık	CRM Uygulama	Çağrı Merkezi Veri Girişi	Denizli, OD			
CRMSQL	192.168.0.217	Blade	W2K-3 STD 32	1	Anlık	MSSQL 2008 STD 32 Bit	Veri Tabanı	Denizli, OD			
IVR	192.168.0.214	IBM x3850	W2K-3 STD 32	1	Anlık		Sesli Yanıt Sistemi	Denizli			
OUTBOUND	192.168.0.216	Blade	W2K-3 ENT 32	1	Anlık	MSSQL 2008 STD 32 Bit	Anket Bilgi Sistemi	Denizli, OD			
WEB	192.168.0.110	Blade	W2K-3 ENT 32	1	2 Saat	MSSQL 2008 Ent 32 Bit	aydem.com, webservice borç/tesisat	Denizli, OD			
DYS	192.168.0.205	Blade	W2K-8 STD 64	1	2 Saat	Fileserver, MSSQL 2008 Ent	Doküman Yönetim Sistemi	Denizli, OD			
CBS	192.168.0.235	Blade	W2K-8 STD 64	1	2 Saat	Oracle 11 G	Araç Takip Sistemi	Denizli, OD			
ΠS	-	Blade	W2K-8 STD 64	1	2 Saat	Windows	Talep Tahmin Sistemi	Denizli, O			
CRM	-	Blade	W2K-8 STD 64	1	Anlık	Windows	Netsis	Denizli, O			

Thank you

NETAS

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