ODTÜ Ağ ve Ağ Güvenliği Yönetimi

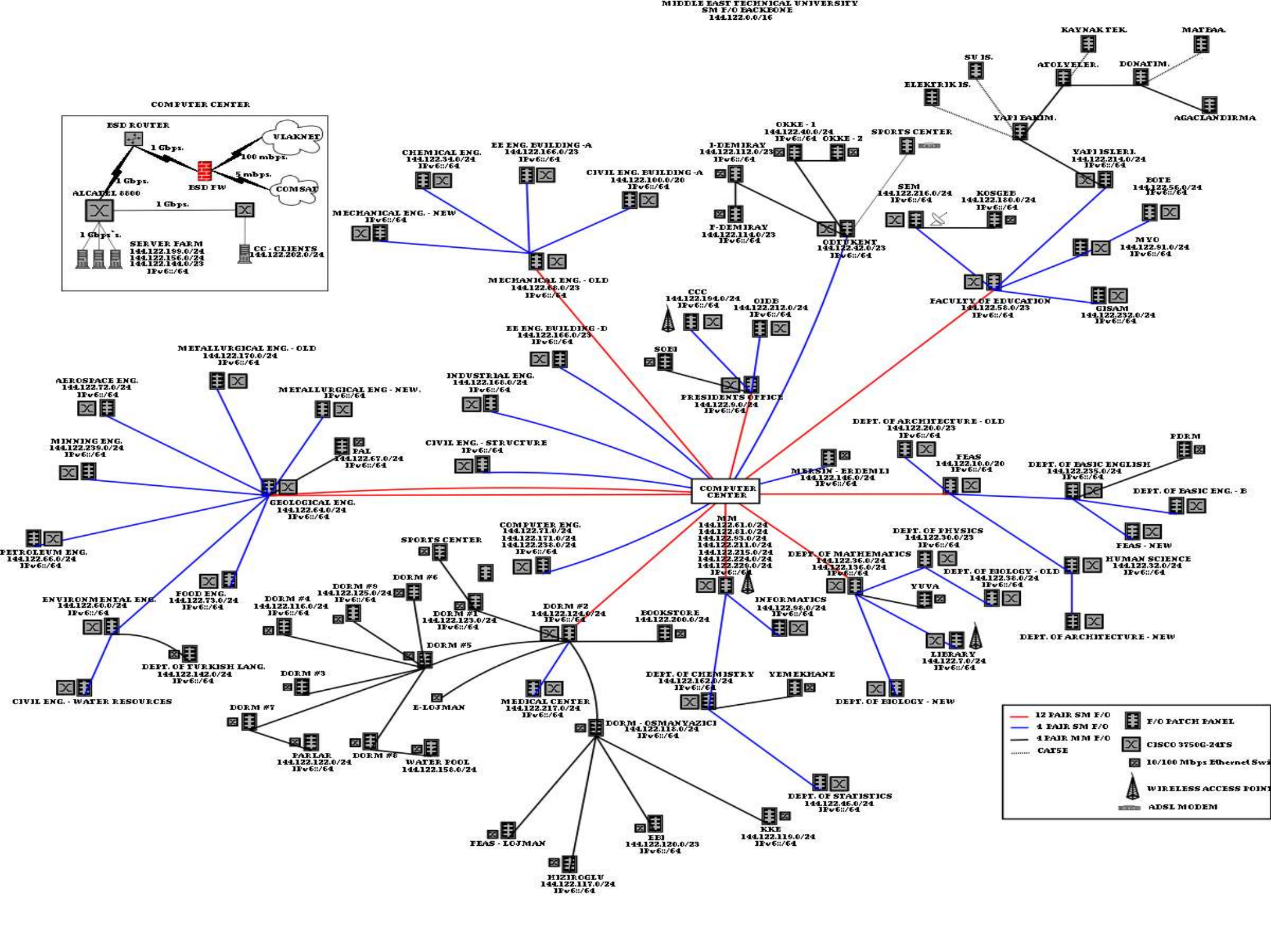
ODTÜ BİDB

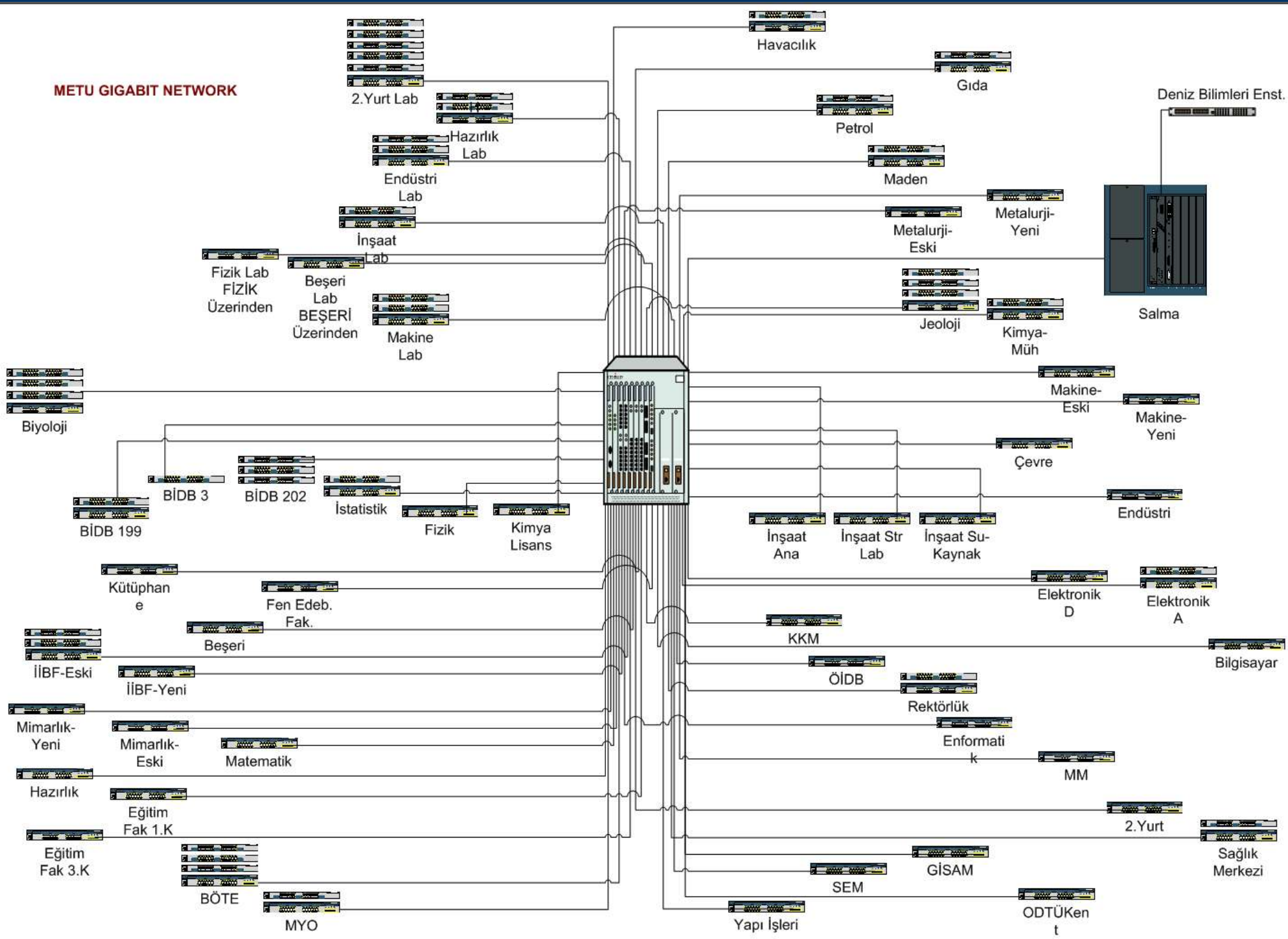
Gökhan ERYOL

AMAÇ

Çok sayıda ağ cihazı ve ağ servisi içeren yerleşke ağlarının yönetiminin, ücretsiz yazılımlarla ve veritabanı uygulamaları ile ne şekilde yapılabileceğinin örneklenmesi.

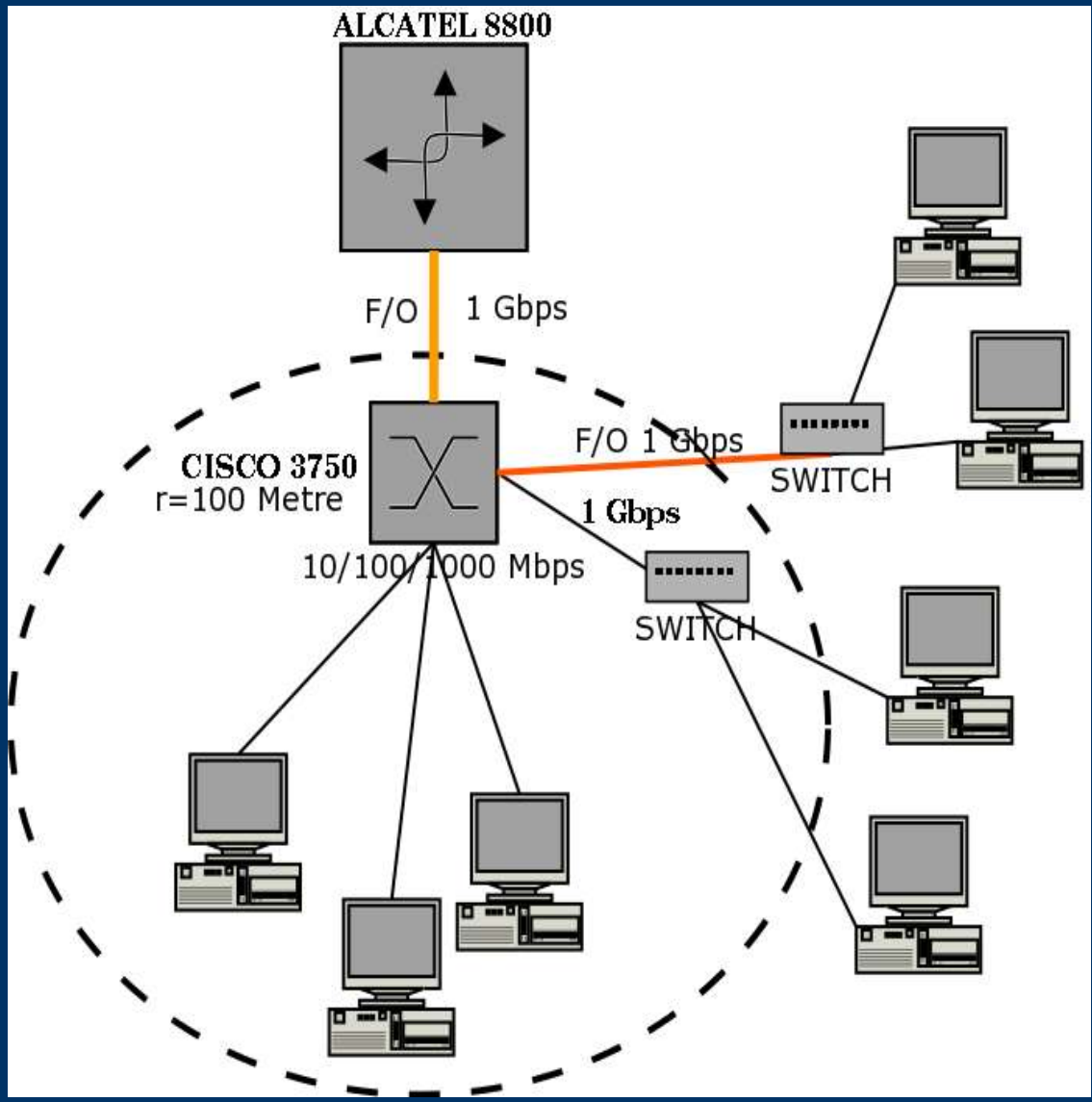
ODTÜKENT
ODTÜKENT
Kortu O.
Kolej
Yapı
İşleri
MYO
BÖTE
COMSAT
Tr-NET
SEM
KOSGEB
Yeni Spor
Merkezi
Eğitim
Fak.
GİSAM
İİBF
Yeni
Refika
Aksoy
Faika D.
İsa D.
Kortikent 1
Konukevi 2
BİLTEN
Havacılık
Petrol
Gıda
Maden
Makina
Yeni
BOR
Tek Ens
Jeoloji
Makina
Eski
EE
D-Blok
Türk D.
Kimya Müh
Metalurji
Eski
Çevre
Metalurji
Yeni
EE
A-Blok
İnşaat Su
Kaynak
İnşaat Su
İnşaat Ana
Bilgisayar
Biyoloji
Mimarlık
Yeni
Mimarlık
Eski
Yuva
Endüstri
Biyotek
Beşon
İstatistik
Fizik
Matematik
Hazırlık
Kimya
MM
Kafeterya
Fen Ed.
Fak.
Kütüphane
İİBF
Eski
Rektörlük
ÖİDB
Sosyal
Bina
KKM
Havuz
Spor Mer.
Kitaplık
Sağlık
Mer.
Mustafa
Parlar
Osman
Yazıcı
İİBF Loj
Kız
K.evi
Hızıroğlu
Jandarma
Eski Lojmanlar


MIDDLE EAST TECHNICAL UNIVERSITY
SM F/O BACKBONE
144.122.0.0/16
COMPUTER CENTER
ESD ROUTER
1 Gbps.
ULAKNET
100 mbps.
5 mbps.
COMSAT
1 Gbps.
ESD FW
ALCATEL 8800
1 Gbps.
1 Gbps`s.
SERVER FARM
144.122.199.0/24
144.122.156.0/24
144.122.144.0/23
IPv6::/64
CC - CLIENTS
144.122.202.0/24
KAYNAKTEK.
MATBAA.
SU IS.
ATOLYELER.
DONATIM.
ELEKTRIK IS.
AGACLANDIRMA
YAPI ISLERI.
CHEMICAL ENG.
144.122.34.0/24
IPv6::/64
EE ENG. BUILDING -A
144.122.166.0/23
IPv6::/64
CIVIL ENG. BUILDING -A
144.122.100.0/20
IPv6::/64
OKKE - 1
144.122.40.0/24
IPv6::/64
OKKE - 2
I-DEMIRAY
144.122.112.0/23
IPv6::/64
SPORTS CENTER
YAPI ISLERI.
144.122.214.0/24
IPv6::/64
MECHANICAL ENG. - NEW
IPv6::/64
F-DEMIRAY
144.122.114.0/23
IPv6::/64
ODTUKENT
144.122.42.0/23
IPv6::/64
SEM
144.122.216.0/24
IPv6::/64
KOSGEB
144.122.180.0/24
IPv6::/64
EOTE
144.122.56.0/24
IPv6::/64
MYO
144.122.91.0/24
IPv6::/64
MECHANICAL ENG. - OLD
144.122.68.0/23
IPv6::/64
FACULTY OF EDUCATION
144.122.58.0/23
IPv6::/64
GISAM
144.122.232.0/24
IPv6::/64
CCC
144.122.194.0/24
IPv6::/64
OIDB
144.122.212.0/24
IPv6::/64
EE ENG. BUILDING -D
144.122.166.0/23
IPv6::/64
SOBI
PRESIDENTS OFFICE
144.122.9.0/24
IPv6::/64
METALLURGICAL ENG. - OLD
144.122.170.0/24
IPv6::/64
AEROSPACE ENG.
144.122.72.0/24
IPv6::/64
INDUSTRIAL ENG.
144.122.168.0/24
IPv6::/64
METALLURGICAL ENG - NEW.
IPv6::/64
MINNING ENG.
144.122.239.0/24
IPv6::/64
PAL
144.122.67.0/24
IPv6::/64
CIVIL ENG. - STRUCTURE
IPv6::/64
GEOLOGICAL ENG.
144.122.64.0/24
IPv6::/64
COMPUTER CENTER
MEKSIN - ERDEMLI
144.122.146.0/24
IPv6::/64
DEPT. OF ARCHITECTURE - OLD
144.122.20.0/23
IPv6::/64
FEAS
144.122.10.0/20
IPv6::/64
PDRM
DEPT. OF BASIC ENGLISH
144.122.235.0/24
IPv6::/64
DEPT. OF BASIC ENG. - B
FEAS - NEW
PETROLEUM ENG.
144.122.66.0/24
IPv6::/64
COMPUTER ENG.
144.122.71.0/24
144.122.171.0/24
144.122.238.0/24
IPv6::/64
SPORTS CENTER
MIM
144.122.61.0/24
144.122.81.0/24
144.122.93.0/24
144.122.211.0/24
144.122.215.0/24
144.122.224.0/24
144.122.229.0/24
IPv6::/64
DEPT. OF PHYSICS
144.122.30.0/23
IPv6::/64
DEPT. OF MATHEMATICS
144.122.36.0/24
144.122.136.0/24
IPv6::/64
HUMAN SCIENCE
144.122.32.0/24
IPv6::/64
DEPT. OF BIOLOGY - OLD
144.122.38.0/24
IPv6::/64
YUVA
FOOD ENG.
144.122.73.0/24
IPv6::/64
DORM #9
144.122.125.0/24
IPv6::/64
DORM #6
DORM #4
144.122.116.0/24
IPv6::/64
DORM #1
144.122.123.0/24
IPv6::/64
DORM #2
144.122.124.0/24
IPv6::/64
BOOKSTORE
144.122.200.0/24
INFORMATICS
144.122.98.0/24
IPv6::/64
ENVIRONMENTAL ENG.
144.122.60.0/24
IPv6::/64
DORM #5
LIBRARY
144.122.7.0/24
IPv6::/64
DEPT. OF ARCHITECTURE - NEW
DEPT. OF TURKISH LANG.
144.122.142.0/24
IPv6::/64
DORM #3
CIVIL ENG. - WATER RESOURCES
DEPT. OF CHEMISTRY
144.122.162.0/24
IPv6::/64
YEMEKHANE
DEPT. OF BIOLOGY - NEW
DORM #7
E-LOJMAN
MEDICAL CENTER
144.122.217.0/24
IPv6::/64
DORM - OSMANYAZICI
144.122.118.0/24
IPv6::/64
PARLAR
144.122.122.0/24
IPv6::/64
DORM #8
WATER POOL
144.122.158.0/24
DEPT. OF STATISTICS
144.122.46.0/24
IPv6::/64
FEAS - LOJMAN
EBI
144.122.120.0/23
IPv6::/64
KKE
144.122.119.0/24
IPv6::/64
HIZIROGLU
144.122.117.0/24
IPv6::/64
12 PAIR SM F/O
4 PAIR SM F/O
4 PAIR MM F/O
CAT5E
F/O PATCH PANEL
CISCO 3750G-24TS
10/100 Mbps Ethernet Swi
WIRELESS ACCESS POINT
ADSL MODEM

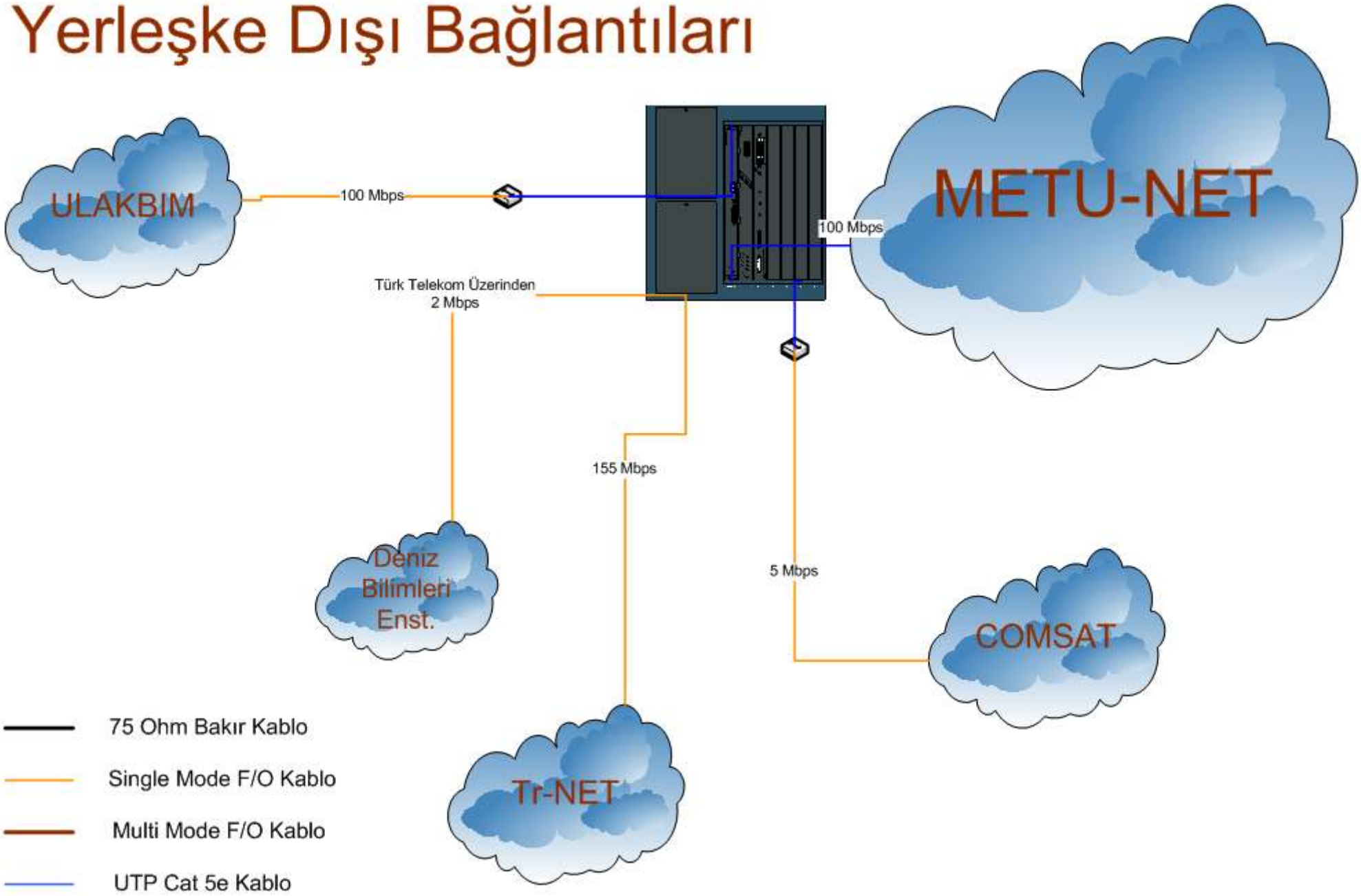

METU GIGABIT NETWORK
2.Yurt Lab
Hazırlık Lab
Endüstri Lab
İnşaat Lab
Fizik Lab FİZİK Üzerinden
Beşeri Lab BEŞERİ Üzerinden
Makine Lab
Havacılık
Gıda
Petrol
Maden
Metalurji-Eski
Metalurji-Yeni
Deniz Bilimleri Enst.
Salma
Jeoloji
Kimya-Müh
Biyoloji
BİDB 199
BİDB 3
BİDB 202
İstatistik
Fizik
Kimya Lisans
Makine-Eski
Makine-Yeni
Çevre
Endüstri
İnşaat Ana
İnşaat Str Lab
İnşaat Su-Kaynak
Kütüphane
Fen Edeb. Fak.
Beşeri
İİBF-Eski
İİBF-Yeni
Elektronik D
Elektronik A
KKM
Bilgisayar
ÖİDB
Rektörlük
Enformatik
MM
Mimarlık-Yeni
Mimarlık-Eski
Matematik
Hazırlık
Eğitim Fak 1.K
Eğitim Fak 3.K
BÖTE
MYO
2.Yurt
Sağlık Merkezi
GİSAM
SEM
ODTÜKent
Yapı İşleri

ODTÜ YERLEŞKE YEREL ALAN AĞLARI

- Bina içi konsantrasyon noktalarına konulan Cisco 3750 cihazlarına bağlanarak kampüs omurgasına doğrudan erişmek
- Uzak noktalar için 1 Gbps üstbağlantılı ethernet anahtarlar alarak, yerel darboğaz oluşumunu engellemek



Yerleşke Dışı Bağlantıları



ODTÜ OMURGA SERVİSLERİ

- 55 kenar anahtar
- 116 adet sanal alan ağı
- Kablosuz alan ağı
- IP-MAC Eşlemeleri
- PC Sunucular üzerinde
  - Sınır Yönlendirici (BGP, OSPF / F&G Ethernet, ATM)
  - Güvenlik :Stateful Firewall, IPS, Blackhole vb.
  - Yük Paylaşımı
  - Web önbellekleme
- Ipv6 bağlantısı
- Yerleşke Dışı Bağlantılarda QoS
- Multicast : Yerleşke, ULAKNET

Ağ ve Ağ Güvenliği Yönetimi

- Bilgi toplama
- Bilgi işleme
- Raporlama/Yönetim

Bilgi Toplama Yöntemleri

- SNMP
  snmpwalk
- Netflow
  flow-tools : flow-capture
- Loglar
  syslog
- Betikler
  shell, perl, C, php

Bilgi İşleme Yöntemleri

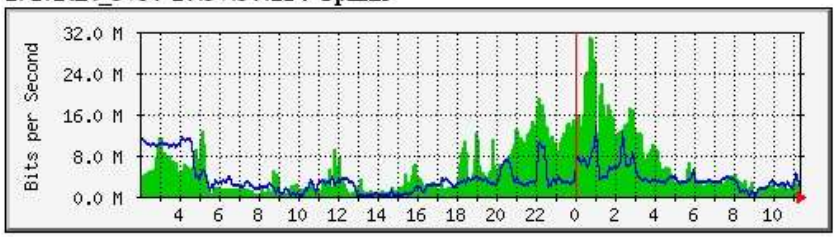
- Hazır Programlar
  - Mrtg
  - Flow-tools
  - Flowscan
- Betikler
  - Saldırı tespit ve korunma (intrusion detection and prevention)
  - Anormallik tespiti ve raporlanması (anomaly detection)
  - Shell, Perl, C, PHP

Raporlama / Yönetim

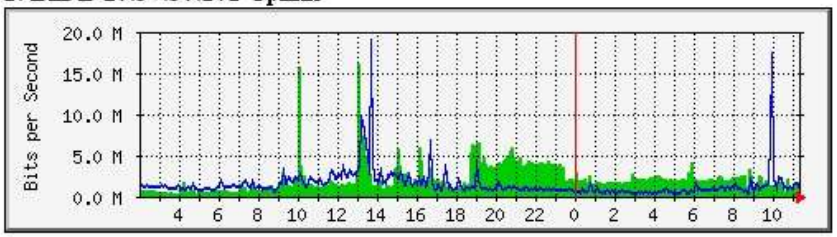
- Trafik istatistikleri, grafikler
- Monitor (sysmon, snips)
- Veritabanı Uygulamaları (postgresql, mysql, php)
- E-posta

http://zeugma.cc.metu.edu.tr/mrtg/3750/index2.html

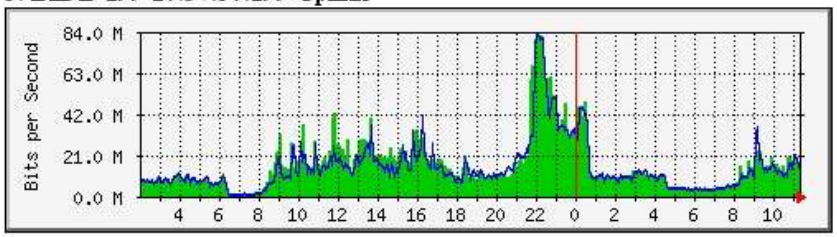
1. 2.Yurt_3750 10.37.50.124 Uplink



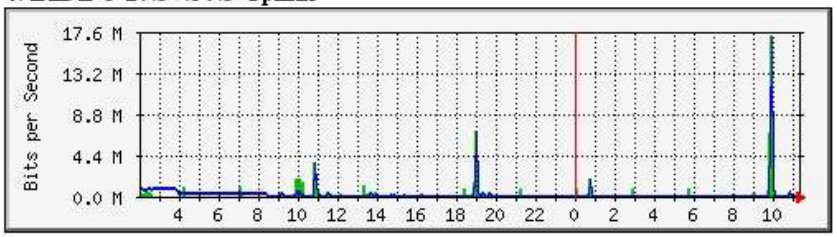
2. BIDB 10.37.50.202 Uplink



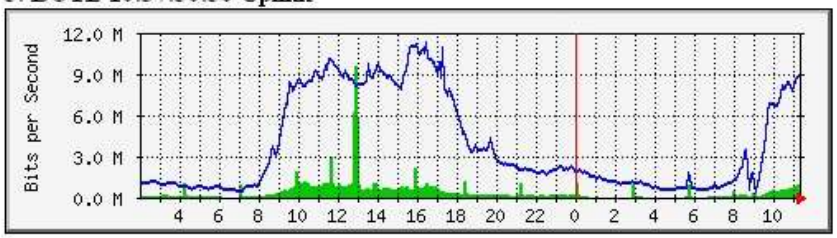
3. BIDB-199 10.37.50.199 Uplink



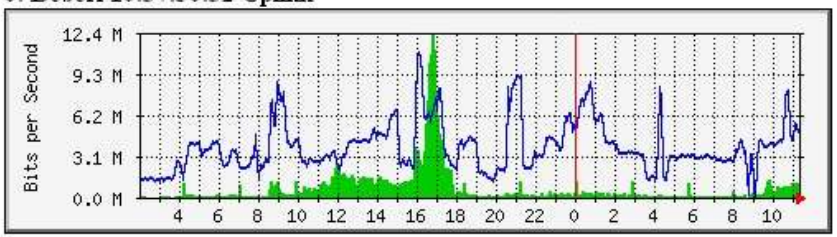
4. BIDB-3 10.37.50.3 Uplink



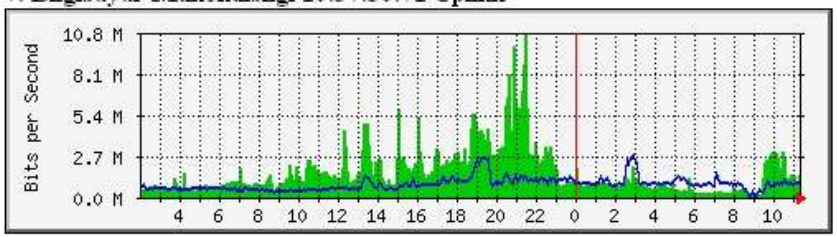
5. BOTE 10.37.50.56 Uplink



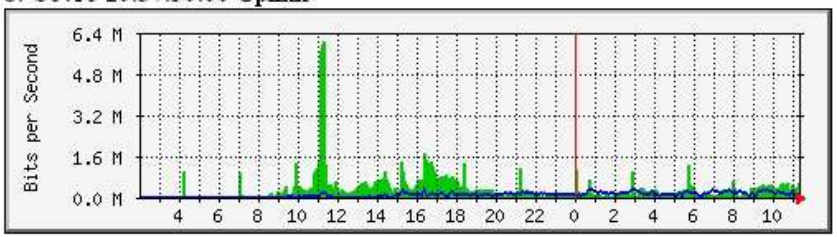
6. Beseri 10.37.50.32 Uplink



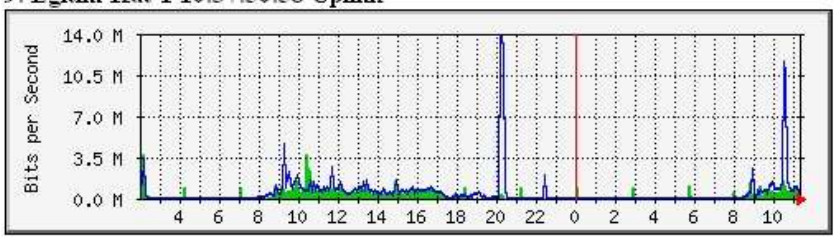
7. Bilgisayar-Muhendisligi 10.37.50.71 Uplink



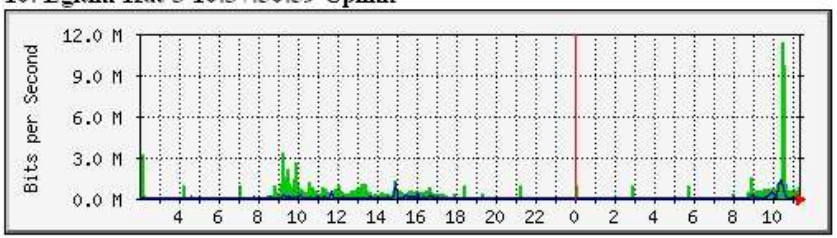
8. Cevre 10.37.50.60 Uplink



9. Egitim-Kat-1 10.37.50.58 Uplink

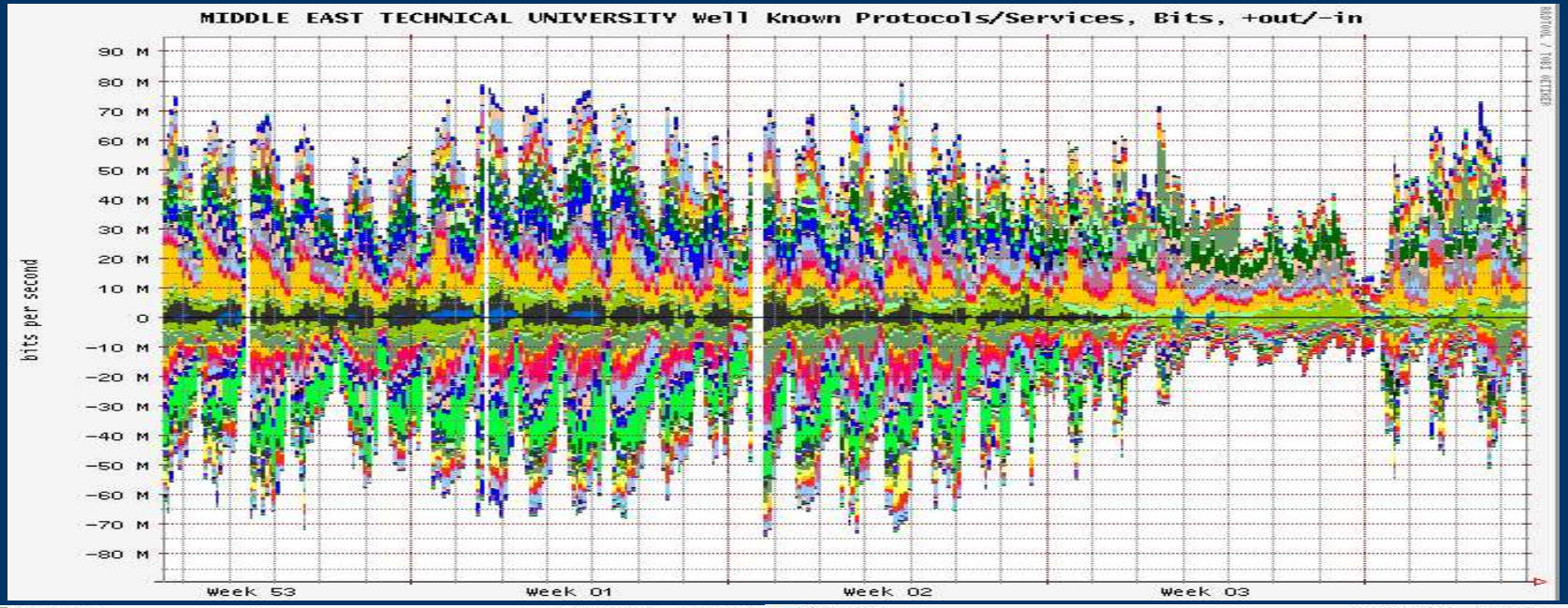


10. Egitim-Kat-3 10.37.50.59 Uplink



Flowscan

- 1.) Top 50 Users (according to last 5 minute)
- 2.) Top 50 Users (according to last 3 hour)
- 3.) Departments Overall
- 4.) Ports Overall
- 5.) Ports Overall (without http)
- 6.) Protocols Overall
- 7.) Dormitories
- 8.) General Selectable List (CUGrapher)



JEOLOJI	2.5% Out	1.1% In		1.YURT	0.0% Out	0.1% In	
KKM	0.0% Out	0.1% In		2.YURT	0.8% Out	1.1% In	
KIMYA	0.6% Out	0.6% In		3.YURT	0.2% Out	0.3% In	
KIMYA_LISANS	1.1% Out	0.8% In		4.YURT	3.4% Out	2.5% In	
KITAPLIK	0.0% Out	0.0% In		9.YURT	0.9% Out	2.5% In	
KIZKONUKEVI	0.2% Out	0.5% In		ARGE_BINASI	2.8% Out	2.8% In	
KOSGEB	0.1% Out	0.6% In		ARAS_FON_SAY	0.0% Out	0.0% In	
KUTUPHANE	0.1% Out	0.7% In		BIDB	1.1% Out	1.3% In	
MODSIM	0.0% Out	0.0% In		BIDB-156	0.0% Out	0.0% In	
MYO	0.0% Out	0.0% In		BIDB-199	2.4% Out	2.2% In	
MADEN	0.7% Out	0.5% In		BIDB_DNS	0.3% Out	0.5% In	
MAKINA	0.0% Out	0.0% In		BIDB_LABLAR	0.9% Out	6.5% In	
MATEMATIK	2.3% Out	0.8% In		BIDB_NETSEC	0.0% Out	0.3% In	
MERSIN_DENIZ_BIL	0.1% Out	0.3% In		BIDB_SYSSEC	0.0% Out	0.0% In	
METALURJI	4.6% Out	2.7% In		BOTE	5.5% Out	0.9% In	
MIMARLIK	2.0% Out	2.5% In		BESERI	5.9% Out	1.4% In	
MODERN_DILLER	0.0% Out	0.0% In		BILGISAYAR_171	0.1% Out	0.1% In	
MUHENDISLIK_BIL	3.1% Out	0.9% In		BILGISAYAR_238	0.0% Out	0.1% In	
MUHENDISLIK_FAK	0.0% Out	0.1% In		BILGISAYAR_71	1.4% Out	2.2% In	
NETWORK_GROUP	0.0% Out	0.0% In		BIYOLOJI	0.3% Out	0.9% In	
OIDB	0.0% Out	0.1% In		CEVRE	0.1% Out	0.3% In	
OIDB_REKTORLUK	0.0% Out	0.0% In		EBI_YURDU	2.9% Out	5.2% In	
ODTUKENT_1	2.5% Out	3.8% In		EGITIM	0.1% Out	0.7% In	
ODTUKENT_2	0.2% Out	0.4% In		EKONOMI_ISLETME	4.6% Out	2.2% In	
ODTUKENT_KONUKEVI	1.2% Out	1.6% In		ELEKTRIK_ELEKTR	4.7% Out	5.2% In	
OSMANYAZICI	0.9% Out	0.9% In		ENDUSTRI	0.1% Out	0.3% In	
PAL	0.0% Out	0.0% In		ENFORMATIK	5.4% Out	0.8% In	
PDB	0.0% Out	0.2% In		ESKI_SPOR_SALONU	0.0% Out	0.0% In	
PARLAR_V_YURDU	3.4% Out	2.0% In		ESKI_LOJMAN	1.1% Out	1.4% In	
PETROL	0.1% Out	0.4% In		F_DEMIRAY	0.2% Out	1.2% In	
REKTORLUK	0.2% Out	0.4% In		FEN_BIL_ENST	0.0% Out	0.0% In	
SAGE	0.3% Out	0.0% In		FEN_EDEBIYAT_FAK	0.0% Out	0.1% In	
SEM	0.1% Out	0.0% In		FIZIK	2.9% Out	2.8% In	
SRDC	0.4% Out	0.4% In		FIZIK_AKILLI_SINIF	0.0% Out	0.0% In	
SAGLIK_MER	0.1% Out	0.2% In		GIDA	0.0% Out	0.1% In	
SERVER_DATABASE	0.1% Out	0.0% In		GISAM	0.2% Out	0.1% In	
SERVER_GENERAL	3.2% Out	1.0% In		HARCLAR_FONU_SAY	0.0% Out	0.1% In	
SERVER_INTERNAL	0.0% Out	0.0% In		HARICI_SUNUCULAR	0.0% Out	0.0% In	
SERVER_REGISTRATION	0.0% Out	0.0% In		HAVACILIK	0.4% Out	0.4% In	
SERVER_USERS	0.0% Out	0.0% In		HAVUZ	0.0% Out	0.0% In	
SOSYAL_BILIMLER	0.0% Out	0.0% In		HAZIRLIK	0.1% Out	0.2% In	
TOPLULUKLAR	0.3% Out	0.1% In		HIZIROGLU	5.1% Out	2.4% In	
TURK_DILI	0.0% Out	0.0% In		IIBF_LABORATUARLAR	0.0% Out	0.3% In	
UCLU_ANFI	0.0% Out	0.0% In		IIBF_SUNUCULAR	0.1% Out	0.0% In	
ULUSLARARASI_IS_IDARESI	2.0% Out	0.9% In		ISDN_PRI	0.1% Out	0.6% In	
WIRELESS	0.0% Out	0.0% In		I_DEMIRAY	2.3% Out	12.7% In	
WIRELESS_WG	0.3% Out	1.6% In		INSAAT	8.7% Out	2.8% In	
YAPI_ISLERI	0.0% Out	0.2% In		ISA_FAIKA_LAB	0.1% Out	0.3% In	
YAZILIM_GELISTRM	0.1% Out	0.1% In		ISTATISTIK	0.1% Out	0.2% In	
YUVA	0.0% Out	0.0% In					
YUVA_AEGEE	0.0% Out	0.0% In					
Other networks	1.4% Out	7.1% In					

Top 50 by **bytes in**

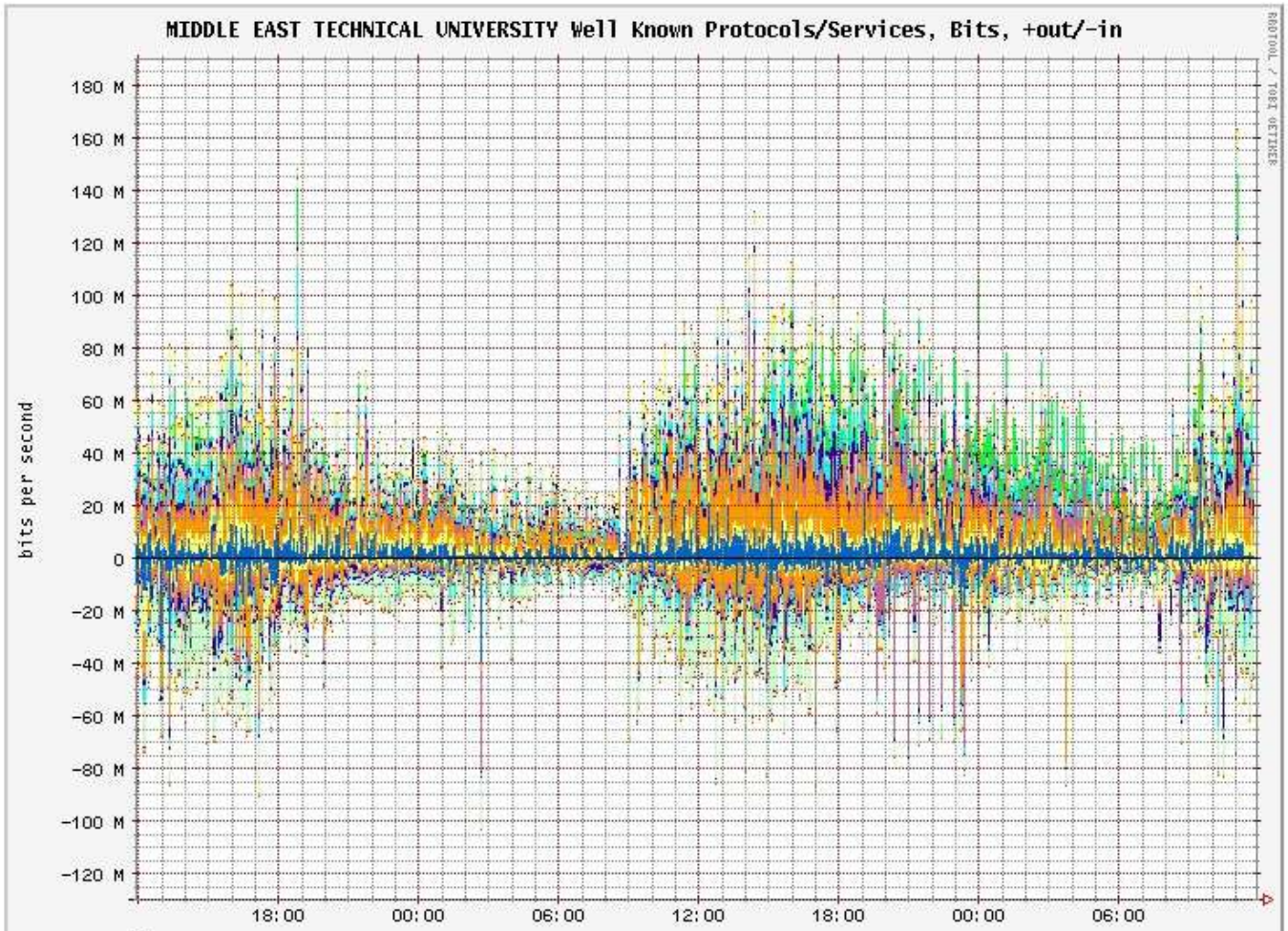
for five minute flow sample ending Thu Feb 3 11:40:00 2005

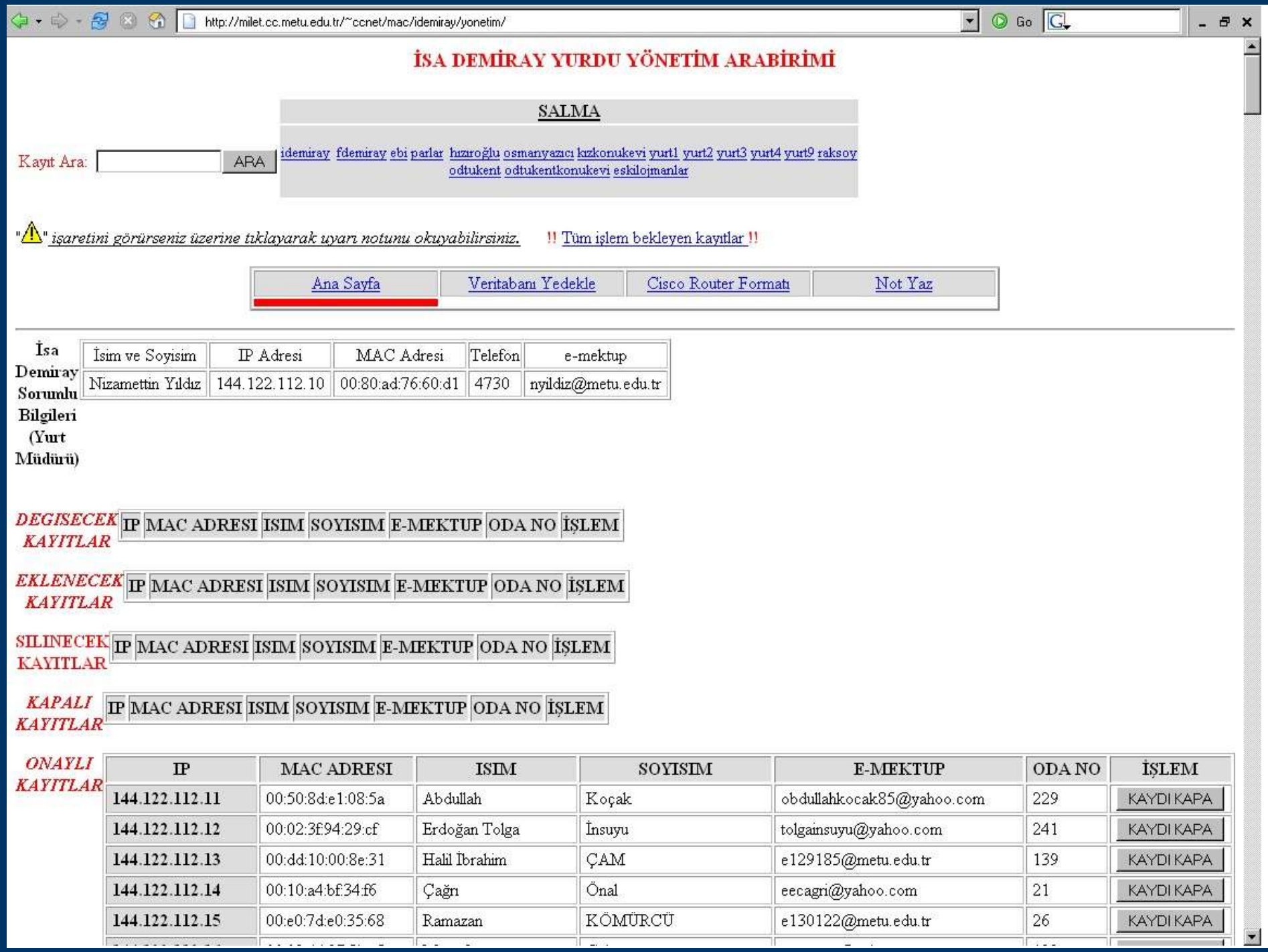
rank	in Address	bits/sec in	bits/sec out	pkts/sec in	pkts/sec out	flows/sec in	flows/sec out
#1	a10202.che.metu.edu.tr 144.122.162.98	4.4 M (9.0%)	354.9 k (0.4%)	374.7 (3.3%)	293.7 (2.2%)	113.3 m (0.0%)	130.0 m (0.0%)
#2	pc14.afs.metu.edu.tr 144.122.215.14	2.6 M (5.3%)	16.7 k (0.0%)	281.7 (2.5%)	43.2 (0.3%)	706.7 m (0.1%)	893.3 m (0.1%)
#3	likya.general.services.metu.edu.tr 144.122.144.146	2.2 M (4.6%)	0.0 (0.0%)	187.8 (1.6%)	0.0 (0.0%)	3.3 m (0.0%)	0.0 (0.0%)
#4	144.122.71.169	2.2 M (4.5%)	32.8 k (0.0%)	196.9 (1.7%)	100.9 (0.7%)	43.3 m (0.0%)	56.7 m (0.0%)
#5	eftelya.cc.metu.edu.tr 144.122.202.218	1.4 M (2.9%)	25.3 k (0.0%)	135.1 (1.2%)	70.8 (0.5%)	63.3 m (0.0%)	80.0 m (0.0%)
#6	144.122.180.72	1.4 M (2.9%)	2.3 M (2.7%)	181.2 (1.6%)	248.3 (1.8%)	783.3 m (0.1%)	803.3 m (0.1%)
#7	knidos.general.services.metu.edu.tr 144.122.144.148	1.4 M (2.8%)	79.4 k (0.1%)	354.9 (3.1%)	157.2 (1.2%)	10.7 (1.2%)	10.2 (1.2%)
#8	oper3.nic.tr 144.122.95.73	1.0 M (2.1%)	95.1 k (0.1%)	112.5 (1.0%)	72.6 (0.5%)	60.0 m (0.0%)	76.7 m (0.0%)
#9	biosc-176.bio.metu.edu.tr 144.122.38.176	974.6 k (2.0%)	51.1 k (0.1%)	142.2 (1.2%)	99.7 (0.7%)	1.6 (0.2%)	1.6 (0.2%)
#10	144.122.58.237	950.1 k (1.9%)	13.7 k (0.0%)	87.5 (0.8%)	42.3 (0.3%)	816.7 m (0.1%)	46.7 m (0.0%)
#11	odtutv.ceit.metu.edu.tr 144.122.56.15	863.2 k (1.8%)	14.7 M (17.1%)	982.0 (8.6%)	1.6 k (12.1%)	1.6 (0.2%)	1.6 (0.2%)
#12	pcgz.eee.metu.edu.tr 144.122.166.252	847.1 k (1.7%)	22.1 k (0.0%)	74.9 (0.7%)	50.4 (0.4%)	26.7 m (0.0%)	56.7 m (0.0%)
#13	ir114.ir.metu.edu.tr 144.122.13.114	844.3 k (1.7%)	17.4 k (0.0%)	72.0 (0.6%)	50.2 (0.4%)	213.3 m (0.0%)	213.3 m (0.0%)
#14	yusuf.ceng.metu.edu.tr 144.122.71.56	830.4 k (1.7%)	37.4 k (0.0%)	71.4 (0.6%)	85.8 (0.6%)	123.3 m (0.0%)	126.7 m (0.0%)
#15	pc9.pool.metu.edu.tr 144.122.55.78	810.2 k (1.7%)	57.0 k (0.1%)	95.4 (0.8%)	56.9 (0.4%)	23.3 m (0.0%)	56.7 m (0.0%)
#16	kutup-7.wireless-wg.metu.edu.tr 144.122.5.37	793.2 k (1.6%)	1.3 M (1.5%)	175.7 (1.5%)	167.7 (1.2%)	350.0 m (0.0%)	396.7 m (0.0%)
#17	1616.odtukent.metu.edu.tr 144.122.42.170	790.4 k (1.6%)	4.4 k (0.0%)	66.5 (0.6%)	10.1 (0.1%)	90.0 m (0.0%)	116.7 m (0.0%)

METU-CC Flow Statistics (144.122.0.0/16)

(Overall Ports Graph)

Main Page




http://milet.cc.metu.edu.tr/~ccnet/mac/idemiray/yonetim/
Go
İSA DEMİRAY YURDU YÖNETİM ARABİRİMİ
SALMA
Kayıt Ara:
ARA
idemiray fdemiray ebi parlar hızıroğlu osmanyazıcı kızkonukevi yurt1 yurt2 yurt3 yurt4 yurt9 raksoy odtukent odtukentkonukevi eskilojmanlar
"⚠" işaretini görürseniz üzerine tıklayarak uyarı notunu okuyabilirsiniz.
!! Tüm işlem bekleyen kayıtlar !!
Ana Sayfa
Veritabanı Yedekle
Cisco Router Formatı
Not Yaz
İsa Demiray Sorumlu Bilgileri (Yurt Müdürü)
İsim ve Soyisim
IP Adresi
MAC Adresi
Telefon
e-mektup
Nizamettin Yıldız
144.122.112.10
00:80:ad:76:60:d1
4730
nyildiz@metu.edu.tr
DEGISECEK KAYITLAR
IP MAC ADRESI ISIM SOYISIM E-MEKTUP ODA NO İŞLEM
EKLENECEK KAYITLAR
IP MAC ADRESI ISIM SOYISIM E-MEKTUP ODA NO İŞLEM
SILINECEK KAYITLAR
IP MAC ADRESI ISIM SOYISIM E-MEKTUP ODA NO İŞLEM
KAPALI KAYITLAR
IP MAC ADRESI ISIM SOYISIM E-MEKTUP ODA NO İŞLEM
ONAYLI KAYITLAR
IP
MAC ADRESI
ISIM
SOYISIM
E-MEKTUP
ODA NO
İŞLEM
144.122.112.11 00:50:8d:e1:08:5a Abdullah Koçak obdullahkocak85@yahoo.com 229 KAYDI KAPA
144.122.112.12 00:02:3f:94:29:cf Erdoğan Tolga İnsuyu tolgainsuyu@yahoo.com 241 KAYDI KAPA
144.122.112.13 00:dd:10:00:8e:31 Halil İbrahim ÇAM e129185@metu.edu.tr 139 KAYDI KAPA
144.122.112.14 00:10:a4:bf:34:f6 Çağrı Önal eecagri@yahoo.com 21 KAYDI KAPA
144.122.112.15 00:e0:7d:e0:35:68 Ramazan KÖMÜRCÜ e130122@metu.edu.tr 26 KAYDI KAPA


http://milet.cc.metu.edu.tr/~ccnet/arp/
ODTU ARP BILGILERI SAYFASI
IP - MAC Arama
IP 144 . 122 . 202 .
MAC
IP adresine karsilik MAC bul
GONDER
Sil
IP MAC Islemleri (Yapim Asamasinda -eryol)
BIDB-202
Islem Seciniz
Islem Yap
Sil
Islem Seciniz
IP adreslerini listele
MAC adreslerini listele
IP-MAC eslemelerini listele
Cift IP adreslerini listele
Cift MAC adreslerini listele

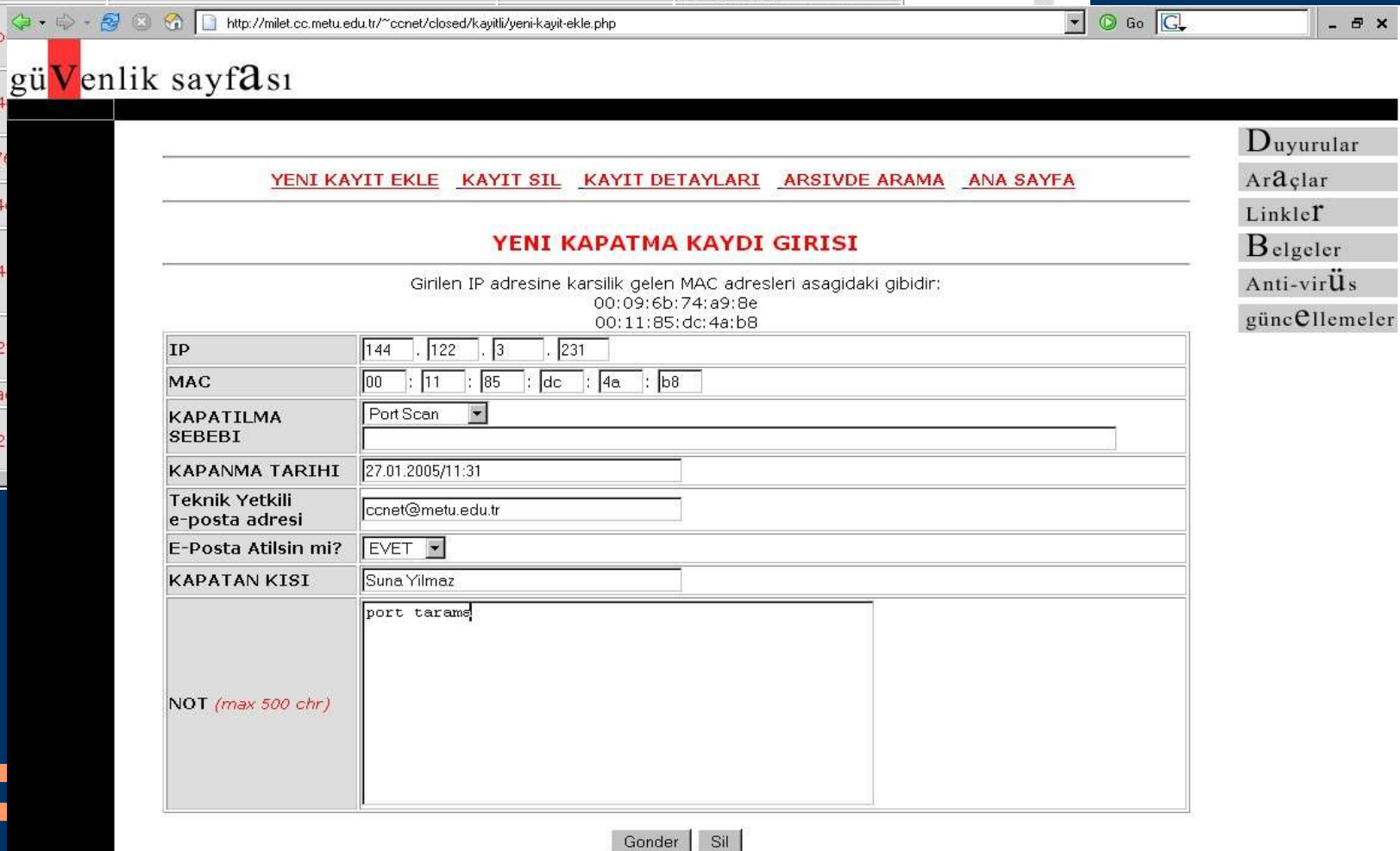

http://milet.cc.metu.edu.tr/~ccnet/arp/listele.php
ODTU ARP BILGILERI SAYFASI
IP - MAC Arama
IP 144 . 122 .
MAC
IP adresine karsilik MAC bul
GONDER
Sil
IP MAC Islemleri (Yapim Asamasinda -eryol)
Tum Bolumler
Islem Seciniz
Islem Yap
Sil
BIDB-202 Sanal Yerel Alan Agi,
Tum IP-MAC eslemeleri listesi
IP
MAC
Bolum
Ilk Tarih
Son Tarih
144.122.21.136 00:00:21:50:d7:ba BIDB-202 (Vlan No: 10) 2004-12-01 12:00:00 2004-12-01 12:00:00
144.122.202.1 00:00:00:00:00:00 BIDB-202 (Vlan No: 10) 2004-12-02 13:30:00 2005-01-27 11:00:00
144.122.202.2 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.3 00:0d:29:54:7a:c1 BIDB-202 (Vl
144.122.202.4 00:04:ac:16:04:d1 BIDB-202 (Vl
144.122.202.4 00:60:97:bc:bb:19 BIDB-202 (Vl
144.122.202.5 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.5 00:04:ac:16:04:d1 BIDB-202 (Vl
144.122.202.6 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.7 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.8 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.9 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.10 00:00:00:00:00:00 BIDB-202 (Vl
144.122.202.10 00:90:96:22:dff4 BIDB-202 (Vl
144.122.202.11 00:02:3f:94:d4:ba BIDB-202 (Vl
144.122.202.11 00:08:0d:3b:f5:07 BIDB-202 (Vl


http://milet.cc.metu.edu.tr/~ccnet/swlist/listele.php
ODTU VLAN BILGILERI SAYFASI
Switch Seciniz
VEYA
Vlan 240-METUCAM
VLANin tanimli oldugu Switchleri listele
Islem Seciniz
Switch te tanimli VLANlari listele
VLANin tanimli oldugu Switchleri listele
240 Nolu VLAN'in tanimli oldugu Ethernet Anahtarlar Listesi:
VLAN
Tanimli Switch IP
240 / METUCAM 144.122.2.3
240 / METUCAM 144.122.2.7
240 / METUCAM 144.122.2.59
240 / METUCAM 144.122.2.93

Saldırı/Anormallik Tespit ve Engelleme

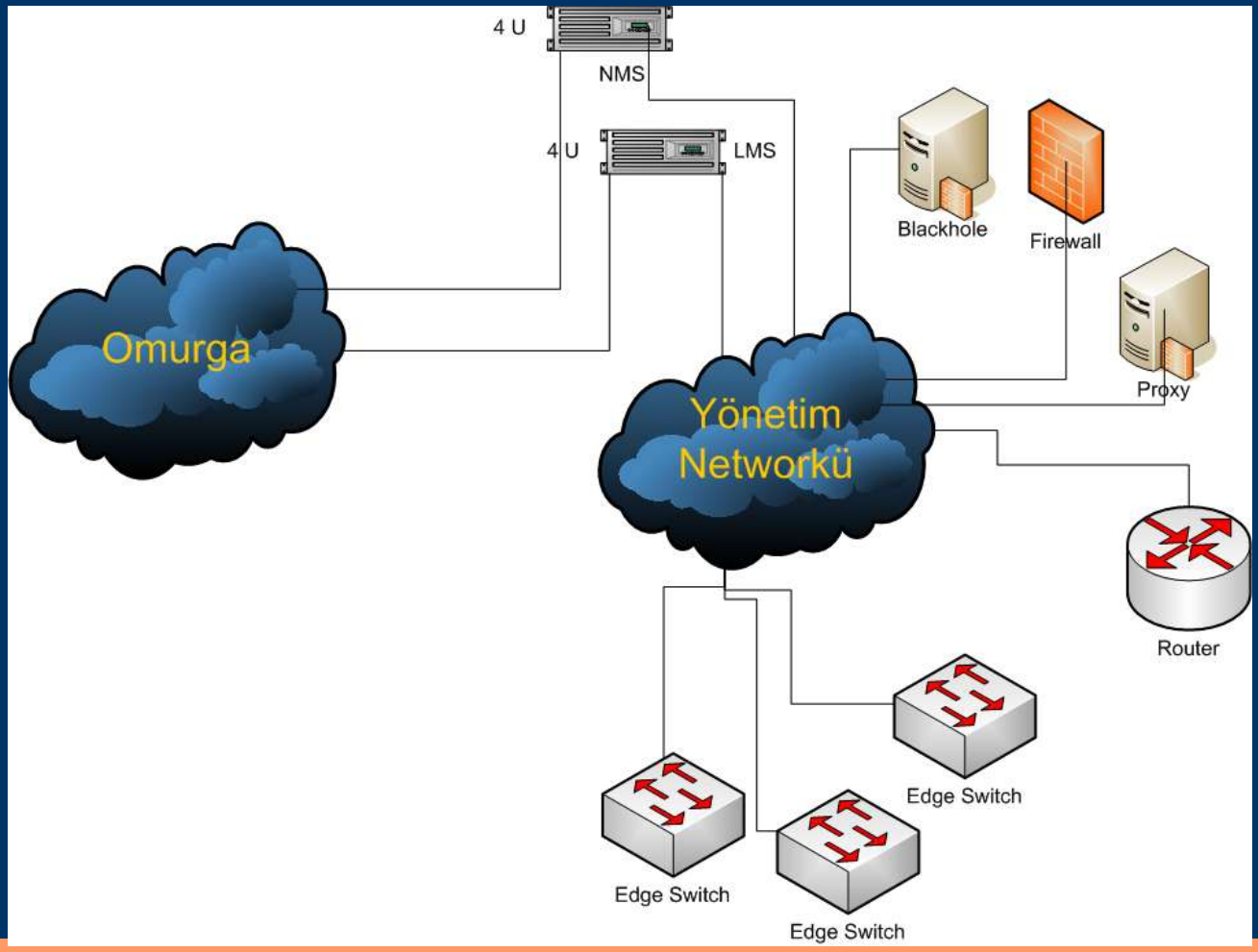
- Bilgi toplama -> VT, binary – asci data
- Betikler:
  - Log inceleme: Eşik değerlerin aşımı / Anormallikler
  - Raporlama: e-posta - Güvenlik Ekibi
- Manuel müdahale: IP-MAC erişim engellenmesi
  - VT üzerinde sorunlu ip adresinin yerinin tespiti
  - Bağlı bulunan cihaz üzerinde kapatma kaydı girişi
  - İlgili kişiye veya sorumlusuna e-posta


http://milet.cc.metu.edu.tr/~ccnet/closed/
güVenlik sayfası
remote addr: 144.122.3.231
Welcome Suna Yilmaz
YENI KAYIT EKLE KAYIT SIL KAYIT DETAYLARI ARSIVDE ARAMA ANA SAYFA
ODTU AG ERISIMI KISITLANAN IP'LER LISTESI
METU RESTRICTED IP's LIST FOR NETWORK ACCESS
IP Adresi
MAC Adresi
KISITLANMA SEBEBI
KAPATILMA TARIHI
GENEL BİLGİ NOTU
144.122.20.13
00.0e.a6.62.56.5c
Virus-W32/Korgo, W32/Sasser, W32/Sdbot
10.01.2005/15:53
W32/Korgo, W32/Sasser, W32/Sdbot
144.122.20.53
144.122.20.56
144.122.20.56
144.122.20.90
144.122.20.148
144.122.20.239
144.122.30.45
144.122.30.72
Duyuru
Araçla
Linkle
Belge
Anti-vi
günce


http://milet.cc.metu.edu.tr/~ccnet/closed/kayitli/yeni-kayit-ekle.php
güVenlik sayfası
YENI KAYIT EKLE KAYIT SIL KAYIT DETAYLARI ARSIVDE ARAMA ANA SAYFA
YENI KAPATMA KAYDI GIRISI
Girilen IP adresine karsilik gelen MAC adresleri asagidaki gibidir:
00:09:6b:74:a9:8e
00:11:85:dc:4a:b8
IP
144 . 122 . 3 . 231
MAC
00 : 11 : 85 : dc : 4a : b8
KAPATILMA SEBEBI
Port Scan
KAPANMA TARIHI
27.01.2005/11:31
Teknik Yetkili e-posta adresi
ccnet@metu.edu.tr
E-Posta Atilsin mi?
EVET
KAPATAN KISI
Suna Yilmaz
NOT (max 500 chr)
port tarama
Gonder
Sil
Duyurular
Araçlar
Linkler
Belgeler
Anti-virüs
güncellemeler

Topoloji ve Donanım

- Yüksek disk kapasiteli, yüksek işlemci gücü olan PC LMS, NMS, VT



Diğer Çalışmalar

- IPS : Snort-inline / clam-av

  alert_fast.log:02/03-09:41:30.121644 [**] [123:1:1] (spp_clamav) Virus Found: Trojan.Downloader.JS.IstBar.A [**] {TCP} 216.127.33.119:80 -> 144.122.180.127:2358
  alert_fast.log:02/03-09:41:51.276687 [**] [123:1:1] (spp_clamav) Virus Found: Trojan.Downloader.JS.IstBar.A [**] {TCP} 216.127.33.119:80 -> 144.122.180.127:2358
  alert_fast.log:02/03-09:41:51.285532 [**] [123:1:1] (spp_clamav) Virus Found: Trojan.Downloader.JS.IstBar.A [**] {TCP} 155.223.2.22:80 -> 195.155.162.75:59599
  alert_fast.log:02/03-09:41:51.298423 [**] [123:1:1] (spp_clamav) Virus Found: Trojan.Downloader.JS.IstBar.A [**] {TCP} 64.12.202.217:80 -> 144.122.170.111:1163
- Statefull Firewall : ipfw / iptables

  Servis çalıştırmaması gereken networkler; ataklar
- Trafik Şekillendirme (Traffic Shaping)

  Kritik zamanlarda uygulama bazlı yönetim: Kayıtlar, not girişleri
- Servis Kalitesi (QoS)

  Uygulama bazlı yönetim: http, multicast
- Web Önbellekleme : SQUID

Teşekkürler..

ODTÜ BİDB, Network Grubu
ccnet@metu.edu
0312 210 33 29 - 36