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Economies in the Digital Age
Geneva, 19-20 June 2000

Internet Infrastructure Development in Transition Economies

A Survey

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Appendix I**Legislative Actions Concerning
Telecommunications Services in Transition Economies**

With the introduction of the Internet, transition economies have experienced rapid reform in the telecommunication sector. The table presented below summarizes major legislative actions taken by governments in central and eastern Europe and the CIS. These developments serve the purpose of emphasizing the new licensing procedures in the telecommunications industries, guaranteeing quality service and fair prices to customers, and reiterating the respective governments policies on telecommunication services.

Country	Year	Legislation
Albania	1995	<ul style="list-style-type: none"> · Policy Paper Act · Telecommunication Act, For Telecommunications in the Republic of Albania (Law n°8038)
	1996	<ul style="list-style-type: none"> · Licences procedures and licences for radio communications · Licences procedures and licences for rural telecommunications
	1998	<ul style="list-style-type: none"> · Amendments to the Telecommunications Act (Law n°8287) · Act on the Establishment of a Telecommunication Regulatory Authority (Law n°8288)
Armenia	1995	<ul style="list-style-type: none"> · Government Decree, Concerning the procedures of projecting, producing, installing, buying, using and importing of radioelectronic, high frequency and telecommunication equipment.
	1998	<ul style="list-style-type: none"> · Telecommunications Law, To establish the legal framework of the activity in the sphere of telecommunications on the territory of the Republic of Armenia, the powers and responsibilities of its participants, as well as the rules for the protection of the right of persons enjoying telecommunication services.
	1999	<ul style="list-style-type: none"> · Ministry Decree, Licensing procedure in the telecommunications sphere. · Ministry Decree, Rules on providing telephone services.
Azerbaijan	1994	<ul style="list-style-type: none"> · Government Decree, About creation of the Ministry of Telecommunication.
	1997	<ul style="list-style-type: none"> · Telecom law
Belarus	1994	<ul style="list-style-type: none"> · Telecommunications Law
Bosnia and Herzegovina		<ul style="list-style-type: none"> · Law on Public Enterprise for PTT · Law on Broadcast RTV · Law on Telecommunications
	1995	<ul style="list-style-type: none"> · Concessions Law Parliament
	1998	<ul style="list-style-type: none"> · Regulation regarding the Activity and Structure of STC and its Administration · Administrative Order No. RD-09-235, Determines the licensing regime. · Telecommunications Law, The Law provides for the creation of the State Telecommunications Commission, with the functions of a

Country	Year	Legislation
	1999	<ul style="list-style-type: none"> · National Regulatory Authority (NRA). · Law on Radio and Television, The Law shall govern the radio and television activities on the territory of the Republic of Bulgaria. · Sector Policy, Specifies the policy in the telecommunications sector. · National Frequency Allocation Table, the First version, to be updated soon. · Ordinance n°2 for cable distribution systems, Determines the licensing regime for cable systems distributing radio and TV signals. · Tariff for license fees and other fees due for collection by STC · Methodology for price regulation of the Voice Telephony Services and for the provision of leased lines, Provided through the fixed network of the Bulgarian Telecommunication Company.
Croatia	1994	<ul style="list-style-type: none"> · Law on Telecommunications
Czech Republic	1994	<ul style="list-style-type: none"> · Main Principals on the State Telecommunication Policy
	1996	<ul style="list-style-type: none"> · Decree of Ministry of Finance - List of goods with regulated prices.
	1999	<ul style="list-style-type: none"> · National Telecommunication Policy
Estonia	1994	<ul style="list-style-type: none"> · Surveillance Act · Act on Broadcasting
	1996	<ul style="list-style-type: none"> · Personal Data Protection Act
Georgia	1994	<ul style="list-style-type: none"> · Telecommunications Law
Hungary	1994	<ul style="list-style-type: none"> · Ministerial Decree 13/994 (III.17) KHVM, On the regulation of the tariffs of the employment on nation-wide public paging services.
	1996	<ul style="list-style-type: none"> · Act I of 1996 on Radio and Television (Media Act)
	1997	<ul style="list-style-type: none"> · Act XLIX of 1996 on Amendment of Act on Act LXV of 1997 on Amendment of Act on Telecommunications · Government Decree 48/1997 (III.14) Korm. On the licensing procedure of providing certain telecommunications services. · Governmental Decree 204/96 on Frequency Allocations in Hungary, 9 kHz-400 Ghz · Governmental Decree 232/97 on Integrated Communication Authority and on amendment of some Legal Rules concerning Communications
	1998	<ul style="list-style-type: none"> · Ministerial Decree 31/1998 on Fees for Public Telephone Services
	1999	<ul style="list-style-type: none"> · Ministerial Decree 7/1999 on numbering plan for PSTN · Ministerial Decree 6/1999 on revenue sharing of concessionary telecommunications services, fees for leased line services used for concessionary telecommunication services, and the settlement of fees.
Kazakhstan	1995	<ul style="list-style-type: none"> · Project of new law on communication is under consideration · Decree of President of the Republic of Kazakhstan (equal to law) "About licensing"
	1996	<ul style="list-style-type: none"> · Regulation on licensing
Kyrgyzstan	1994	<ul style="list-style-type: none"> · Telecommunications Law is prepared. Charter of the company.
	1996	<ul style="list-style-type: none"> · Government Decree N 146. 30.08.96, Concerning Ministry of Transport

Country	Year	Legislation
	1997	and Communications. <ul style="list-style-type: none"> The Law of the Kyrgyz Republic "on Telecommunications and Posts"
Latvia	1995	<ul style="list-style-type: none"> Radio and Television Law Determines the procedure of formation, registering, operation and monitoring of electronic mass media, establishes National Radio and Television Council, sets rules for companies that run delivery links, transmitters, shared systems, cable TV systems.
	1998	<ul style="list-style-type: none"> Telecommunications sector policy of the Republic of Latvia, Telecommunications sector policy of the period 1998 to 2003
Lithuania	1995	<ul style="list-style-type: none"> Law on Communications (articles related to telecommunications are recognized invalid after Law on Telecommunications enters into force in 1998) Law on Radio Communications, Radio monitoring, radio interference detection and inspection.
	1996	<ul style="list-style-type: none"> Law on legal protection of computer programs and databases, Recognition of copyright. Property and non property rights of authors. User rights.
	1998	<ul style="list-style-type: none"> Law on legal protection of personal data, Management of personnel data regulation of use. Rights of subjects. Law on state registers, List of main registers. Orders of setting up legislation and liquidation. Managers rights. Order of data use. Law on Mass Media
Moldova (Republic of)	1995	<ul style="list-style-type: none"> Broadcasting Law Telecommunications Law
	1997	<ul style="list-style-type: none"> Government Decision n°888 (19 Sept. 1997) Licensing activities.
	1998	<ul style="list-style-type: none"> Government Decision nr. 859 (13 August 1998j) Licensing activities.
Poland	1995	<ul style="list-style-type: none"> Amendments to the Posts and Telecommunications Act
Romania	1996	<ul style="list-style-type: none"> 1996 Telecommunications Law, establishes the regulatory authority and the main regulations of the sector.
	1997	<ul style="list-style-type: none"> Government Decision 129/1997/ Establishes the structure of the Ministry of Communications.
	1998	<ul style="list-style-type: none"> Ordinance 1/1998, Accepts the protocol of WTO on basic telecommunications.
Russian Federation	1995	<ul style="list-style-type: none"> Telecommunications Law
	1997	<ul style="list-style-type: none"> Rules on providing Telephony services Rules on providing telegraph
Slovakia	1995	<ul style="list-style-type: none"> Law on Administration fees
	1996	<ul style="list-style-type: none"> Law on prices, Regulation of prices.
	1997	<ul style="list-style-type: none"> Directive of MDPT SR No. 10/97 International telecommunication service charges.

Country	Year	Legislation
	1998	<ul style="list-style-type: none"> · Act. No. 52/1998, Protection of Personal Data in Information Systems · Decree of MF SR No.13/1997 Maximum prices and price regulation of selected domestic telecom. Services
Slovenia	1997	<ul style="list-style-type: none"> · Law on protection of competition, On-line legislation · Regulation on the approval of terminal equipment and radio stations · Regulation on radio licences · Regulation on EMC · Law on Telecommunications Specifies the telecommunication services of public interest assured by the Republic of Slovenia and regulates the modes and conditions for the provision of the telecommunications services, the rights and obligations of service providers and users.
	1998	<ul style="list-style-type: none"> · Rules on the provision of commercial TC services · Decree on the manner of providing PTS
Tajikistan	1997	<ul style="list-style-type: none"> · Amendments to Communications Law
Former Yugoslav Republic of Macedonia	1997	<ul style="list-style-type: none"> · Broadcasting Law
	1998	<ul style="list-style-type: none"> · Telecommunications Law, Review Procedure
Turkmenistan	1996	<ul style="list-style-type: none"> · Telecommunications Law
Ukraine	1995	<ul style="list-style-type: none"> · Telecommunications Law
Uzbekistan	1996	<ul style="list-style-type: none"> · Cabinet of Ministers Decisions N175 from 12.05.96, Concerning licences.
	1997	<ul style="list-style-type: none"> · Cabinet of Ministers Decision 8.972, Concerning UPTA
Yugoslavia	Present	<ul style="list-style-type: none"> · New regulations on posts and telecommunications under preparation.

Source: ITU Telecommunication Regulatory Database, 1999.

Appendix II**IP Address Allocation:
Local Internet Registries IP Address Allocation by Country***(source : RIPE- <http://www.ripe.net/ripenc/mem-services/general/allocs.html>)***Albania**

None

Armeniaam.armentel (Armenia Telephone Company -
<http://www.armentel.com>)

19990201 212.73.64/19 ALLOCATED PA

am.nic (Armenia Network Information Center (AMNIC))

19970310 195.250.64/19 ALLOCATED PA

am.yerphi (Yerevan Physics Institute)

19980821 212.42.192/19 ALLOCATED PA

Azerbaijan

az.azerin (AZERIN)

19980602 212.47.128/19 ALLOCATED PA

az.aznet (closed registry)

19951214 194.106.192/19 REVOKED PA

Belarus

by.belpak (Republican Association BELTELECOM)

19980728 194.158.192/19 ALLOCATED PA

by.belsonet (SOLO LTD.)

19970304 195.222.64/19 ALLOCATED PA

by.bn (Business Network JV)

19990917 212.98.160/19 ALLOCATED PA

by.unibel (UNIBEL)

19960806 195.50.0/19 ALLOCATED PA

Bulgaria

bg.basnet (Bulgarian Academy of Sciences)

19980211 195.96.224/19 ALLOCATED PA

bg.bia (Bulgarin Industrial Association Network)

19991220 213.174.0/19 ALLOCATED PA

bg.bit (Bulgarian Information Technologies Inc.)

19970819 195.34.96/19 ALLOCATED PA

bg.btc (Bulgarian Telecommunications Company Plc.)

19980727 212.39.64/19 ALLOCATED PA

bg.globalone (GlobalOne Communications and Information
Services)

19961128 195.138.128/19 ALLOCATED PA

19980219 212.56/19 ALLOCATED PA

bg.government (Council of Ministers)

19990722 212.122.160/19 ALLOCATED PA

bg.intech (INTECH PLC)

19980526 212.21.128/19 ALLOCATED PA

bg.internet (Internet Bulgaria Ltd.)

19990118 212.124.64/19 ALLOCATED PA

bg.itd (ITD Network SA)

19981130 212.116.128/19 ALLOCATED PA

bg.mobikom (Radio Telecommunications Company Ltd. /
Mobikom)

19980518 212.5.128/19 ALLOCATED PA

bg.mtelnet (M-Tel Net)

19990920 213.226/19 ALLOCATED PA

bg.nat (Naturella Agency Ltd.)

19961023 194.12.224/19 ALLOCATED PA

bg.netissat (NET IS SAT Ltd.)

19990421 212.72.192/19 ALLOCATED PA

bg.netplus (NetPlus Ltd)

19980825 212.7.192/19 ALLOCATED PA

bg.orbitel (Orbitel Ltd.)

19971223 195.24.32/19 ALLOCATED PA

19990730 212.95.160/19 ALLOCATED PA

bg.spnet (Spectrum NET)

19980310 212.50/19 ALLOCATED PA

19990730 212.91.160/19 ALLOCATED PA

bg.techno-link (Techno-Link (TM))

19980227 212.36/19 ALLOCATED PA

bg.ttm (TTM Ltd.)

19960917 195.230.0/19 ALLOCATED PA

bg.unicom-b (UNICOM-B - Bulgarian Academic and Research
Network)

19960201 194.141.0/19 ALLOCATED PA

19960718 194.141.32/19 ALLOCATED PA

19960718 194.141.64/18 ALLOCATED PA

19960718 194.141.128/17 ALLOCATED PA

bg.zz ((NK) Last Resort Internet Registry for Bulgaria)

Pre-1994 193.200/16 ALLOCATED PI

Croatia

hr.carnet (Croatian Academic and Research Network)

Pre-1994 193.198/16 ALLOCATED UNSPECIFIED

hr.hptnet (HT)

19960105 194.152.192/18 ALLOCATED PA

19961107 195.29.0/19 ALLOCATED PA

19970203 195.29.32/19 ALLOCATED PA

19970203 195.29.64/18 ALLOCATED PA

19970203 195.29.128/17 ALLOCATED PA

hr.vipnet (VIPnet GSM d.o.o)

19991124 212.91.96/19 ALLOCATED PA

Czech Republic

cz.aclnet (closed registry)

19971112 195.80.224/19 REVOKED PA

cz.bohemia (BOHEMIA-NET Czech Republic)

19960321 193.165/16 ALLOCATED PA

19951220 194.24.224/19 ALLOCATED PA

cz.cesnet (CESNET)
 19941103 194.108.0/19 ALLOCATED PA
 19950112 194.108.32/19 ALLOCATED PA
 19950101 194.108.64/18 ALLOCATED PA
 19950101 194.108.128/17 ALLOCATED PA
 19951214 194.212/16 ALLOCATED PA
 cz.contactel (Contactel)
 19990601 212.65.192/19 ALLOCATED PA
 20000125 212.65.224/19 ALLOCATED PA
 cz.czechnet (Czech Net)
 19970523 62.44/19 ALLOCATED PA
 19960130 194.213.224/19 ALLOCATED PA
 19970523 195.128.192/19 ALLOCATED PA
 cz.cznet (SPT TELECOM, a.s. - NEXTEL, o.z.)
 19960112 194.228.0/19 ALLOCATED PA
 19971003 194.228.32/19 ALLOCATED PA
 19971003 194.228.64/18 ALLOCATED PA
 19971003 194.228.128/17 ALLOCATED PA
 cz.directnet-eos (JSC DirectNet-EOS)
 19990112 212.80.64/19 ALLOCATED PA
 cz.eunet (EUnet Czech Republic)
 Pre-1994 193.85/16 ALLOCATED UNSPECIFIED
 19940620 193.86/16 ALLOCATED UNSPECIFIED
 19950808 193.179/16 ALLOCATED PA
 cz.gts (GTS INEC s.r.o.)
 19970507 62.168/17 ALLOCATED PA
 19960126 194.213.32/19 ALLOCATED PA
 19960111 194.213.192/19 ALLOCATED PA
 19961202 195.39/17 ALLOCATED PA
 19980402 212.47/19 ALLOCATED PA
 cz.inext (InterneXt 2000)
 19981112 212.111.0/19 ALLOCATED PA
 cz.inway (INWAY,a.s.)
 19980415 212.24.128/19 ALLOCATED PA
 cz.ipexnet (Ipex Ltd.)
 19981210 212.71.128/19 ALLOCATED PA
 19990622 212.71.160/19 ALLOCATED PA
 cz.ipnet (MOPOS-IPnet)
 19980731 212.20.64/19 ALLOCATED PA
 cz.mopos (CZCOM s.r.o.)
 19970908 195.146.96/19 ALLOCATED PA
 19990906 212.11.96/19 ALLOCATED PA
 cz.pragonet (Pragonet)
 19990126 212.67.64/19 ALLOCATED PA
 cz.pvtnet (PVT a.s.)
 19951213 194.149.96/19 ALLOCATED PA
 19961210 195.47/17 ALLOCATED PA
 cz.selfnet (MoraviaNet)
 19990707 212.96.160/19 ALLOCATED PA
 cz.telenor (Telenor CR)
 19970619 195.22.32/19 ALLOCATED PA
 cz.ten-34 (CESNET)
 19970317 195.113/16 ALLOCATED PA
 19970226 195.178.64/19 ALLOCATED PA
 cz.terminal (Telenor Internet)
 19961202 195.70.128/19 ALLOCATED PA
 19970318 195.144.96/19 ALLOCATED PA
 cz.vol (Czech On Line a.s.)
 19970107 195.250.128/19 ALLOCATED PA
 19990816 212.20.96/19 ALLOCATED PA
 19980831 212.27.192/19 ALLOCATED PA
 cz.zz ((open) Last Resort Internet Registry for Czechia)

Pre-1994 193.84/16 ALLOCATED PI
 19940322 194.50/16 ALLOCATED PI

Estonia

ee.aso (Department of Data Communications)
 19970317 195.80.96/19 ALLOCATED PA
 ee.data (Data Telecom)
 19960916 195.222.0/19 ALLOCATED PA
 19980914 212.47.192/19 ALLOCATED PA
 ee.eenet (EENet)
 19950315 193.40/16 ALLOCATED UNSPECIFIED
 ee.estnet (ESTNET)
 19970416 195.50.192/19 ALLOCATED PA
 ee.estpak (Estpak Data/Estonian Telephone Company Ltd)
 19951219 194.126.96/19 ALLOCATED PA
 19971111 195.250.160/19 ALLOCATED PA
 19991209 213.168.0/19 ALLOCATED PA
 ee.ewnnnet (Estonian Wireless Network)
 19991021 212.27.224/19 ALLOCATED PA
 ee.infonet (AS INFONET)
 19980316 212.7/19 ALLOCATED PA
 ee.levicom (Levicom Broadband OU)
 19990629 212.107.32/19 ALLOCATED PA
 ee.mainor (Mainor Anet)
 19980403 212.49/19 ALLOCATED PA
 ee.online (MICROLINK ONLINE)
 19951204 194.106.96/19 ALLOCATED PA
 19991210 213.180.0/19 ALLOCATED PA
 ee.uninet (Uninet Data Communications Ltd.)
 19951204 194.204.0/19 ALLOCATED PA
 19970506 194.204.32/19 ALLOCATED PA

Georgia

ge.iberiapac (Infocom Ltd.)
 19990831 212.58.96/19 ALLOCATED PA
 ge.sanet (Sanet Ltd. - SA*Net Network)
 19981123 212.72.128/19 ALLOCATED PA

Hungary

hu.alarmix (ALARMIX Hungary Public Internet Access Provider)
 19970604 195.8.32/19 ALLOCATED PA
 hu.banknet (BankNet Kft.)
 19960206 194.152.128/19 ALLOCATED PA
 hu.c3 (C3 (Center for Culture & Communication))
 19960612 194.38.96/19 ALLOCATED PA
 hu.datanet (DataNet)
 19951207 194.149.0/19 ALLOCATED PA
 19960426 195.56/16 ALLOCATED PA
 hu.datexcom (Datexcom Inc.)
 19991102 212.76.96/19 ALLOCATED PA
 hu.deltav (Deltav Co.)
 20000107 213.163.0/19 ALLOCATED PA
 hu.dravanet (DravaNET)
 19980608 212.40.64/19 ALLOCATED PA
 hu.elender (Elender Net)
 19951109 194.143.224/19 ALLOCATED PA
 19990528 212.108.192/18 ALLOCATED PA
 hu.externet (Externet Kft.)

19990816 212.40.96/19 ALLOCATED PA
 hu.globalone (Global One Hungary)
 19980709 212.3.64/19 ALLOCATED PA
 hu.gts (GTS Hungary)
 19960716 194.88.32/19 ALLOCATED PA
 hu.htc (Hungarian Telecom MATAV)
 19951213 194.149.32/19 ALLOCATED PA
 19960718 195.228/16 ALLOCATED PA
 hu.hungarnet (HUNGARNET - Hungarian Academic Network)
 19951129 193.6/16 ALLOCATED PI
 Pre-1994 193.224/16 ALLOCATED PI
 19941230 193.225/16 ALLOCATED PI
 19970312 195.111/16 ALLOCATED PA
 hu.internet (Euroweb Internet Szolgaltato Rt)
 19980123 193.68.32/19 ALLOCATED PA
 19980123 193.91.64/19 ALLOCATED PA
 19980123 193.226.192/18 ALLOCATED PA
 19960508 195.184.0/19 ALLOCATED PA
 hu.interware (InterWare Ltd.)
 19970704 195.70.32/19 ALLOCATED PA
 hu.irisz (Antenna Hungaria Rt.)
 19981002 212.92.0/19 ALLOCATED PA
 hu.isys (iSYS Hungary Kft.)
 19951213 194.24.160/19 ALLOCATED PA
 hu.netx (NetX)
 19971224 195.110.32/19 ALLOCATED PA
 hu.pantel (PanTel Telecommunications Co.)
 19990318 212.24.160/19 ALLOCATED PA
 hu.pronet (Pronet Professional Internet Services)
 19991220 213.134.0/19 ALLOCATED PA
 hu.qwertynet (QwertyNet)
 19990325 212.52.160/19 ALLOCATED PA
 hu.sednet (SedNet Ltd)
 19981106 212.97.0/19 ALLOCATED PA
 hu.szabinec (UPC Magyarorszag Kft.)
 19971001 195.184.160/19 ALLOCATED PA
 hu.telnet (Telnet Hungary Ltd.)
 19981211 212.75.128/19 ALLOCATED PA
 hu.titasz (SATRAX-NET Ltd.)
 19960112 194.140.192/19 ALLOCATED PA
 hu.tvnet (TVNET ltd.)
 19970819 195.38.96/19 ALLOCATED PA
 hu.westel900 (WESTEL 900 GSM Mobile Telecommunication
 Company Ltd.)
 19960126 194.176.224/19 ALLOCATED PA
 19980729 212.51.64/18 ALLOCATED PA

Kazakhstan

kz.banknet (Interbank Financial Telecommunications Center
 "Banknet")
 19970806 195.12.96/19 ALLOCATED PA
 kz.kazaktelecom (Kazakhtelecom Data Network
 Administration)
 19980525 212.19.128/19 ALLOCATED PA
 19990707 212.154.128/17 ALLOCATED PA
 kz.kazinform (closed registry)
 19960813 195.82/19 ALLOCATED PA
 19980519 212.13.128/18 ALLOCATED PA
 kz.nursat (JSC Nursat)
 19960813 195.82/19 ALLOCATED PA
 19980519 212.13.128/18 ALLOCATED PA

kz.sprint (ARNA -SPRINT DATA COMMUNICATIONS)
 19960619 193.193.224/19 ALLOCATED PA
 kz.tnsplus (TNS-Plus)
 19980928 212.76.0/19 ALLOCATED PA

Kyrgyzstan

kg.aknet (AKNET Ltd.)
 19991029 212.112.96/19 ALLOCATED PA
 kg.asiainfo (ASIAINFO TE)
 19971015 195.38.160/19 ALLOCATED PA
 kg.elcat (Join Venture firm "EiCat")
 19990827 212.42.96/19 ALLOCATED PA
 kg.kyrnet (KyrNet Telecommunication Center)
 19971112 195.254.160/19 ALLOCATED PA

Latvia

lv.bkc (Bank Communications Centre)
 19970619 62.84/19 ALLOCATED PA
 19961016 195.244.128/19 ALLOCATED PA
 lv.itar-tass (Baltija-ITAR-TASS Ltd.)
 19970507 195.182.192/19 ALLOCATED PA
 lv.junik (JUNIK Ltd.)
 19971003 195.216.160/19 ALLOCATED PA
 lv.lmt (Latvian Mobile Telephone Co.)
 19991124 212.93.96/19 ALLOCATED PA
 lv.lvnet (LvNet-Teleport)
 19970812 195.2.96/19 ALLOCATED PA
 19970715 195.114.32/19 ALLOCATED PA
 lv.neonet (NeoNet)
 19961107 195.62.128/19 ALLOCATED PA
 lv.telekom (Lattelekom)
 19980126 195.13.128/17 ALLOCATED PA
 19960822 195.122.0/19 ALLOCATED PA
 lv.telianet (Telia AB)
 19960206 194.19.224/19 ALLOCATED UNSPECIFIED
 lv.vita (State Information Network Agency)
 19990715 212.70.160/19 ALLOCATED PA

Lithuania

lt.5ci (Penki Kontinentai, Ltd.)
 19990122 212.122.64/19 ALLOCATED PA
 lt.baltnet (Baltmeta)
 19971008 195.14.160/19 ALLOCATED PA
 lt.lietuvos (Lietuvos Telekomas)
 19980407 212.59/19 ALLOCATED PA
 lt.litnet (LITNET)
 19940401 193.219.32/19 ALLOCATED PA
 19940401 193.219.64/19 ALLOCATED PA
 19961008 193.219.128/18 ALLOCATED PA
 lt.omnitel (OMNITEL Net)
 19951120 194.176.32/19 ALLOCATED PA
 19971010 195.22.160/19 ALLOCATED PA
 19990913 212.47.96/19 ALLOCATED PA
 lt.taide (Taide Network)
 19960115 193.219.192/19 ALLOCATED PA
 19960607 193.219.224/19 ALLOCATED PA
 19960607 193.220.0/19 ALLOCATED PA
 19970513 193.220.32/19 ALLOCATED PA
 19970513 193.220.64/18 ALLOCATED PA

19970513 193.220.128/17 ALLOCATED PA
 lt.telianet (Telia AB)
 19971007 195.12.160/19 ALLOCATED PA
 lt.vikt (Infostruktura)
 19970228 195.182.64/19 ALLOCATED PA

Former Yugoslav Republic of Macedonia

mk.marnet (MARNET MK)
 19960103 194.149.128/19 ALLOCATED PA
 mk.mol (Macedonia On-Line)
 19990121 212.110.64/19 ALLOCATED PA
 mk.mpt (Macedonian Telecommunications)
 19961024 195.26.128/19 ALLOCATED PA
 mk.osi (Open Society Institute - Macedonia)
 19980924 212.120.0/19 ALLOCATED PA
 mk.unet (UtarNet d.o.o.)
 19980713 212.13.64/19 ALLOCATED PA

Moldova (Republic of)

md.megadat (MEGA-DAT)
 19971124 195.22.224/19 ALLOCATED PA
 md.moldtelecom (Moldtelecom SE)
 19980804 212.0.192/19 ALLOCATED PA
 md.relsoft (RELSOFT Communications srl)
 19980810 212.56.192/19 ALLOCATED PA
 md.riscom (Riscom S.A.)
 19970905 195.138.96/19 ALLOCATED PA

Poland

pl.acc (ACC Net)
 19990602 212.76.32/19 ALLOCATED PA
 pl.amsk (Academic Metropolitan Area Network, Szczecin)
 19980223 212.14/19 ALLOCATED PA
 19981113 212.14.32/19 ALLOCATED PA
 pl.biaman (Centrum Komputerowych Sieci Rozleglych)
 19980724 212.33.64/19 ALLOCATED PA
 pl.bydman (University of Technology and Agriculture in Bydgoszcz)
 19990511 212.122.192/19 ALLOCATED PA
 pl.ckpolsl (CKPOLSL - Silesian Technical University, Computer Center)
 19971021 195.82.160/19 ALLOCATED PA
 19981207 212.106.128/18 ALLOCATED PA
 pl.cnt (Centrum Nowych Technologii sp. z o.o.)
 19991119 212.77.96/19 ALLOCATED PA
 pl.cyfronet (Academic Computer Centre CYFRONET AGH)
 19960523 193.193.64/19 ALLOCATED PA
 19960829 195.150/16 ALLOCATED PA
 pl.formus (Formus Polska)
 19991025 212.45.224/19 ALLOCATED PA
 pl.homenet (HomeNet)
 19991123 212.85.96/19 ALLOCATED PA
 pl.icm (ICM)
 19981103 212.87.0/19 ALLOCATED PA
 pl.it (Internet Technologies Polska)
 19970422 195.94.192/19 ALLOCATED PA
 pl.kott (Kott sp. z o.o.)
 19990726 212.65.160/19 ALLOCATED PA
 pl.lodman (Metropolitan Area Network LODMAN)

19980917 212.51.192/19 ALLOCATED PA
 19981028 212.191.0/16 ALLOCATED PA
 pl.nask (NASK Research and Academic Networks in Poland)
 Pre-1994 193.59/16 ALLOCATED UNSPECIFIED
 19940919 194.92/16 ALLOCATED UNSPECIFIED
 19950629 194.181/16 ALLOCATED UNSPECIFIED
 19960626 195.164/16 ALLOCATED PA
 19970805 195.187.0/16 ALLOCATED PA
 pl.netia (Netia Telekom SA)
 19971028 195.114.160/19 ALLOCATED PA
 pl.olman (Warmia and Mazuria University in Olsztyn Poland)
 19991210 213.184/19 ALLOCATED PA
 pl.onet (Optimus Pascal SA)
 20000125 213.180.128/19 ALLOCATED PA
 pl.open-net (Open-Net)
 19991230 213.149.0/19 ALLOCATED PA
 pl.pagi (PAGI - General Information Agency)
 19990129 212.69.64/19 ALLOCATED PA
 pl.plusgsm (PlusGSM Net)
 19990819 212.2.96/19 ALLOCATED PA
 pl.polbox (POLBOX Ltd)
 19991122 213.241/17 ALLOCATED PA
 pl.polska-online (Polska OnLine)
 19981026 212.106.0/19 ALLOCATED PA
 pl.pozman (Poznan Supercomputing And Networking Center, POZMAN)
 19990113 150.254/16 ALLOCATED PA
 19970805 195.216.96/19 ALLOCATED PA
 19981027 212.126.0/19 ALLOCATED PA
 pl.satnet (SATNET)
 19960520 193.192.160/19 ALLOCATED PA
 pl.supermedia (ZPR Express Supermedia)
 19991119 212.75.96/19 ALLOCATED PA
 pl.telbank (Banking Telecommunications TELBANK)
 19951120 194.183.32/19 ALLOCATED PA
 19960503 195.136/16 ALLOCATED PA
 pl.tpsa (Polish Telecom)
 19951215 194.204.128/19 ALLOCATED PA
 19960123 194.204.160/19 ALLOCATED PA
 19960613 195.116/16 ALLOCATED PA
 19970227 195.117/16 ALLOCATED PA
 19970917 195.205.0/16 ALLOCATED PA
 19981028 212.160.0/16 ALLOCATED PA
 19980318 212.244/16 ALLOCATED PA
 19991201 213.25/16 ALLOCATED PA
 pl.umcs (Maria Curie-Skłodowska University)
 19990303 212.182.0/17 ALLOCATED PA
 pl.wask (Wroclaw Centre of Networking and Supercomputing)
 19990111 212.127.64/19 ALLOCATED PA
 pl.zielman (Politechnika Zielonogorska)
 19981222 212.109.128/19 ALLOCATED PA

Romania

ro.logic (LOGICnet)
 19960624 193.254.32/19 ALLOCATED PA
 ro.rds (RDSNET)
 19981215 212.93.128/19 ALLOCATED PA
 ro.mc (RNC)
 Pre-1994 193.226.0/18 ALLOCATED PI
 19941124 193.226.64/18 ALLOCATED PI
 19960722 193.230/16 ALLOCATED PA

19941230 193.231.0/18 ALLOCATED PA
 19970804 193.231.64/18 ALLOCATED PA
 19970804 193.231.128/17 ALLOCATED PA
 19980708 194.102.32/19 ALLOCATED PI
 19980708 194.102.64/18 ALLOCATED PI
 19980708 194.102.128/17 ALLOCATED PI
 19980528 212.35.128/19 ALLOCATED PA
 ro.totalnet (TotalNet)
 19990830 212.54.96/19 ALLOCATED PA

Russian Federation

ru.01ru (01.ru Stock Company)
 19991105 212.108.96/19 ALLOCATED PA
 ru.2com (2COM Co Ltd.)
 19971022 195.98.160/19 ALLOCATED PA
 ru.agtel (AG Telecom)
 19990209 212.111.64/19 ALLOCATED PA
 ru.altai (Altaitelcom Co., Barnaul telegraph)
 19991112 212.94.96/19 ALLOCATED PA
 ru.astelit (ASTELIT Ltd.)
 19970312 195.96.64/19 ALLOCATED PA
 ru.bcl (Baltic Communications Ltd.)
 19971113 195.144.224/19 ALLOCATED PA
 ru.bst (BST)
 19991012 212.7.224/19 ALLOCATED PA
 ru.burnet (JSC Electrosvyaz of Buryatia Republic.)
 19980603 212.0.64/19 ALLOCATED PA
 ru.ccl (CCL Net)
 19961230 195.222.128/19 ALLOCATED PA
 ru.cea (TelecomBureau Net)
 19991103 212.92.96/19 ALLOCATED PA
 ru.cellular (Moscow Cellular Communications)
 19991202 212.119.96/19 ALLOCATED PA
 ru.cis (Cardinal Internet Services Net)
 19990521 212.109.192/19 ALLOCATED PA
 ru.cityline (Cityline)
 19971016 195.46.160/19 ALLOCATED PA
 19980821 212.46.192/18 ALLOCATED PA
 ru.cnt (Central telegraph)
 19990906 212.13.96/19 ALLOCATED PA
 19990906 212.15.96/19 ALLOCATED PA
 ru.combellga (JS Combella)
 19970530 195.16.32/19 ALLOCATED PA
 ru.comcor (Comcor)
 19980402 212.45/19 ALLOCATED PA
 ru.comintern (Communication Internet)
 19991210 213.148/19 ALLOCATED PA
 ru.comset (ComSet ISP)
 19991213 213.172/19 ALLOCATED PA
 ru.comstar (COMSTAR Telecommunications LTD)
 19961223 195.210.128/19 ALLOCATED PA
 19970905 195.210.160/19 ALLOCATED PA
 19980226 212.248/17 ALLOCATED PA
 ru.comtat (Comtat Inc.)
 19980622 212.22.64/19 ALLOCATED PA
 ru.convey (Internet Services, Ltd.)
 19961217 195.182.128/19 ALLOCATED PA
 ru.corbina (Corbina Telecommunications and More)
 19970610 195.14.32/19 ALLOCATED PA
 ru.csi (Communication System International JSC)
 19990913 212.57.96/19 ALLOCATED PA

ru.cst (Cyber Space Technologies)
 19980420 212.4.128/19 ALLOCATED PA
 ru.cwnet (Cable & Wireless CIS Svyaz LLC)
 20000124 213.152.128/19 ALLOCATED PA
 ru.dataforce (DataForce ISP)
 19971015 195.42.160/19 ALLOCATED PA
 ru.demos (Demos-Internet JSC)
 19940901 194.87/16 ALLOCATED PA
 19970415 195.133/16 ALLOCATED PA
 ru.dinet (Digital Networks JSC.)
 19990903 213.248/19 ALLOCATED PA
 ru.directnet (JSC DirectNet Telecommunications)
 19971106 195.222.160/19 ALLOCATED PA
 19990526 212.119.192/18 ALLOCATED PA
 ru.dsi (Irkutsk Business Net)
 19970728 195.206.32/19 ALLOCATED PA
 ru.east (East Group Ltd.)
 19970725 195.170.32/19 ALLOCATED PA
 ru.edunet (Educational Network Ltd.)
 20000120 213.184.128/19 ALLOCATED PA
 ru.elkatel (ELKATEL Ltd.)
 19970617 195.18.32/19 ALLOCATED PA
 ru.elvis (Elvis-Telecom)
 19970630 195.58.32/19 ALLOCATED PA
 19981026 212.114.0/19 ALLOCATED PA
 ru.etel (Ekaterinburg Telegraph)
 19971224 195.38.32/19 ALLOCATED PA
 19980311 212.220/16 ALLOCATED PA
 ru.express (Russian Express)
 19990216 212.24.32/19 ALLOCATED PA
 19990714 212.158.128/17 ALLOCATED PA
 ru.extrim (Extrim Pro)
 19990913 212.49.96/19 ALLOCATED PA
 ru.fastnet (InComA Ltd.)
 19960704 194.117.64/19 ALLOCATED PA
 ru.freenet (FREEnet)
 19950313 193.233.0/17 ALLOCATED UNSPECIFIED
 19960617 193.233.128/17 ALLOCATED PA
 ru.gazkomplekt (GazKomplekt)
 19980611 212.44.64/19 ALLOCATED PA
 ru.glasnet (GLASNET Computer Network Users Assoc.)
 19951201 194.154.64/19 ALLOCATED PA
 19961227 195.218.128/17 ALLOCATED PA
 ru.hqigu (Saint Petersburg State University)
 19970417 195.70.192/19 ALLOCATED PA
 ru.ias (Institute for Automated Systems)
 19981127 212.100.128/19 ALLOCATED PA
 ru.ic (IC-VORONEZH)
 19970220 195.98.64/19 ALLOCATED PA
 ru.iat (Institute of information & analytical technologies IIAT, Limited)
 19981102 212.83.0/19 ALLOCATED PA
 ru.iip (OSI Internet Project)
 19970506 195.178.192/19 ALLOCATED PA
 ru.inar (Internet-Arkhangelsk)
 19990326 212.14.160/19 ALLOCATED PA
 ru.ineco (Ryazan Power Connect Ltd.)
 19991007 212.26.224/19 ALLOCATED PA
 ru.infonet (JSC "INFONET")
 19980805 212.32.192/19 ALLOCATED PA
 ru.infotel (JVC INFOTEL)
 19970506 195.170.192/19 ALLOCATED PA

ru.intersatcom (ISSP.net)
 19980608 212.28.64/19 ALLOCATED PA
 ru.irtel (Irkutsk Central Telegraph)
 19970822 195.46.96/19 ALLOCATED PA
 ru.iskra (ZAO "RusSDO")
 19980307 212.46/19 ALLOCATED PA
 ru.kis (Commercial Information Networks)
 19970711 195.98.32/19 ALLOCATED PA
 19981127 212.92.128/18 ALLOCATED PA
 ru.krasnet (Krasnoyarsk ITTS KRASNET Regional
 Telecommunications Network)
 19980126 195.112.224/19 ALLOCATED PA
 ru.kts (KrasTelecomservice)
 19980331 212.41/19 ALLOCATED PA
 ru.lanit (LANIT Inc. / LANIT INTERNET GROUP)
 19971013 195.26.160/19 ALLOCATED PA
 ru.leivo (LEIVO Ltd.)
 19961126 194.105.192/19 ALLOCATED PA
 ru.lensviaz (OJC Lensviaz)
 19980821 212.58.192/19 ALLOCATED PA
 ru.lint (closed registry)
 19970514 195.246.192/19 REVOKED PA
 ru.lipetsk (Lipetsk regional NIC)
 19971125 195.34.224/19 ALLOCATED PA
 ru.lukoil-inform (LUKOIL Inform Company)
 19990826 212.38.96/19 ALLOCATED PA
 ru.lvs (Business Systems JSC)
 19970402 195.144.192/19 ALLOCATED PA
 ru.macomnet (Macomnet Telecommunications Co.)
 19970312 195.128.64/19 ALLOCATED PA
 19980710 212.5.64/18 ALLOCATED PA
 ru.magadan (T&TS, Magadan)
 19980817 212.14.192/19 ALLOCATED PA
 ru.magelan (JSC Magelan)
 19980825 212.11.192/19 ALLOCATED PA
 ru.magistral (Magistral Telecom JV Telecommunication
 services)
 19980320 212.17/19 ALLOCATED PA
 ru.matrix (Matrix Technologies)
 19970409 195.200.192/19 ALLOCATED PA
 ru.maxnet (MAXnet Systems Ltd.)
 19980123 195.112.96/19 ALLOCATED PA
 ru.mcntt (Moscow Center of New Telecommunication
 Technologies)
 19980119 195.28.32/19 ALLOCATED PA
 ru.metrocom (METROCOM)
 19970114 195.5.128/19 ALLOCATED PA
 19990810 212.119.160/19 ALLOCATED PA
 ru.mlifenet (Aliks-Telecom Company)
 19980326 212.27/19 ALLOCATED PA
 ru.mol (Canopus/MOL Internet services)
 19990922 212.8.224/19 ALLOCATED PA
 ru.mos (Moscow Mayor's Office)
 19980519 212.11.128/19 ALLOCATED PA
 ru.mplik (Ural Relcom Ltd.)
 19960806 195.58/19 ALLOCATED PA
 19980717 212.23.64/19 ALLOCATED PA
 ru.msu (RADIO-FSU/RADIO-MSU NETWORK)
 19940712 194.67.64/21 ALLOCATED UNSPECIFIED
 19941115 194.67.72/21 ALLOCATED UNSPECIFIED
 19950330 194.67.80/20 ALLOCATED UNSPECIFIED
 19951124 194.67.96/19 ALLOCATED UNSPECIFIED
 19970130 194.67.128/17 ALLOCATED UNSPECIFIED
 ru.msunet (Moscow State University Network)
 19980216 212.16/19 ALLOCATED PA
 ru.mtu (MTU-Intel ltd.)
 19970620 195.34.32/19 ALLOCATED PA
 19980511 212.30.128/18 ALLOCATED PA
 19990112 212.188.0/17 ALLOCATED PA
 ru.netstate (Netstate Communication Ltd.)
 19971113 195.24.224/19 ALLOCATED PA
 ru.nevalink (Nevalink LTD.)
 19980102 195.190.96/19 ALLOCATED PA
 ru.next (NEXT Internet Service(NEXT Net))
 19970911 195.178.96/19 ALLOCATED PA
 ru.nis (Nizhny Novgorod Information Systems)
 19981027 212.67.0/19 ALLOCATED PA
 ru.okbmei (OKB MEI)
 19960514 193.192.128/19 ALLOCATED PA
 ru.omsk (Omsk region Electric Communications Joint Stock
 Comp.)
 19970725 195.162.32/19 ALLOCATED PA
 ru.orc (Online Resource Center, ISP)
 19980414 212.48.128/19 ALLOCATED PA
 ru.oss (OSS corp)
 19990702 212.119.32/19 ALLOCATED PA
 ru.permonline (PermlInform Ltd)
 19990709 212.120.160/19 ALLOCATED PA
 ru.peterlink (Peterlink)
 19970922 195.201/16 ALLOCATED PA
 19960919 195.242.0/19 ALLOCATED PA
 ru.portal (Teleport-TP)
 19970429 62.64.0/19 ALLOCATED PA
 19970313 195.16.96/19 ALLOCATED PA
 ru.pttnet (PTT-Teleport Moscow)
 19960801 195.34.0/19 ALLOCATED PA
 ru.raid (Raid-Internet)
 19991022 212.33.224/19 ALLOCATED PA
 ru.redcom (Redcom)
 19980323 212.19/19 ALLOCATED PA
 ru.relcom (RELCOM Corp.)
 Pre-1994 193.124/16 ALLOCATED UNSPECIFIED
 Pre-1994 193.125/16 ALLOCATED UNSPECIFIED
 19940613 194.58/16 ALLOCATED UNSPECIFIED
 19950206 194.135/16 ALLOCATED PA
 19951221 194.220/16 ALLOCATED PA
 19961002 195.9/16 ALLOCATED PA
 ru.relline (Relline Co.)
 19970225 195.146.64/19 ALLOCATED PA
 19991231 213.181/19 ALLOCATED PA
 ru.rich (Network Information Centre of JS 'Svyazinform')
 19960806 195.54.0/19 ALLOCATED PA
 19980602 212.57.128/18 ALLOCATED PA
 ru.rinet (Cronyx Plus Ltd.)
 19970530 195.54.192/19 ALLOCATED PA
 19970801 195.91.128/17 ALLOCATED PA
 ru.ropnet (RopNet)
 19990301 212.42.32/19 ALLOCATED PA
 ru.rosnet (ROSNET network)
 19961119 195.90.128/19 ALLOCATED PA
 19970506 195.90.160/19 ALLOCATED PA
 19970926 195.96.160/19 ALLOCATED PA
 19990407 212.5.160/19 ALLOCATED PA
 ru.rosniiros (ROSNIIROS Russian Institute for Public Networks)

19970616 62.76/16 ALLOCATED PA
 19980316 193.232/16 ALLOCATED PI
 19940819 194.85/16 ALLOCATED PI
 19950807 194.190/16 ALLOCATED UNSPECIFIED
 19960103 194.226/16 ALLOCATED PA
 19961029 195.19.0/17 ALLOCATED PA
 19970409 195.19.128/17 ALLOCATED PA
 19960419 195.208/16 ALLOCATED PA
 19960719 195.209/16 ALLOCATED PA
 19980115 212.192/16 ALLOCATED PA
 19990512 212.193/16 ALLOCATED PA
 ru.rospac (ROSPAC, Joint-Stock Company
 ROSPAC,Distributed Public Swiched Data Network)
 19971103 195.166.160/19 ALLOCATED PA
 ru.rosprint (Global One Russia/RoSprint Company)
 19940817 194.84.0/19 ALLOCATED PA
 19960227 194.84.32/19 ALLOCATED PA
 19960227 194.84.64/18 ALLOCATED PA
 19960227 194.84.128/17 ALLOCATED PA
 19970626 195.151/16 ALLOCATED PA
 19981102 212.176.0/16 ALLOCATED PA
 ru.rostelecom (Long Distance Int. Telecommunications Joint
 Stock Comp. Rostelecom)
 19970605 195.161/19 ALLOCATED PA
 19980603 195.161.32/19 ALLOCATED PA
 19980923 195.161.64/18 ALLOCATED PA
 19990224 195.161.128/17 ALLOCATED PA
 19990712 213.24/16 ALLOCATED PA
 ru.rts (RTS NET)
 19960311 194.247.128/19 ALLOCATED PA
 19991012 212.5.224/19 ALLOCATED PA
 ru.sakhalin (Telegraph-Telephone Station)
 19980206 195.72.224/19 ALLOCATED PA
 ru.samara (Samara-Internet Ltd.)
 19970110 195.128.128/19 ALLOCATED PA
 19990923 213.242/18 ALLOCATED PA
 ru.sandy (Sandy Info Ltd)
 19971212 195.122.224/19 ALLOCATED PA
 ru.sibitex (Sibitex Joint Stock Company)
 19990709 212.76.160/19 ALLOCATED PA
 ru.sinpmsu (SINP MSU)
 20000106 213.131/19 ALLOCATED PA
 ru.sitek (NPF Mastak)
 19990225 212.34.32/19 ALLOCATED PA
 ru.snc (Sakhalin Network Communications Co. (SNC))
 19980226 212.6/19 ALLOCATED PA
 ru.sovam (Sovam Teleport)
 19940418 194.67.0/19 ALLOCATED UNSPECIFIED
 19950808 194.67.32/19 ALLOCATED UNSPECIFIED
 19951205 194.186.0/16 ALLOCATED PA
 19971210 195.239/16 ALLOCATED PA
 ru.sovintel (EDN Sovintel)
 19990310 195.68.128/18 ALLOCATED PA
 19980423 212.44.128/19 ALLOCATED PA
 19991230 213.221/18 ALLOCATED PA
 ru.space (Space Research Institute of Russian Academy of
 Sciences)
 19971219 195.170.224/19 ALLOCATED PA
 ru.spbnit (St.-Petersburgs National and International
 Telephone)
 19980806 212.48.192/19 ALLOCATED PA
 ru.spbrelcom (Relcom-SPb)

19991130 212.113.96/19 ALLOCATED PA
 ru.sptel (Saint-Petersburg Telegraph)
 19991220 213.158/19 ALLOCATED PA
 ru.stavnet (OAO "Electrosviaz" Stavropol region)
 19990927 212.96.96/19 ALLOCATED PA
 ru.svyaztransneft (Joint Stock Company Svyaztransneft)
 19991119 212.73.96/19 ALLOCATED PA
 ru.tario (TARIO)
 19990315 212.53.32/19 ALLOCATED PA
 ru.tasstelecom (ARCON TML)
 19980114 195.7.160/19 ALLOCATED PA
 19991103 195.42.64/19 ALLOCATED PA
 19961030 195.42.128/19 ALLOCATED PA
 ru.tatincom (Joint Stock Company Tatincom-T)
 19970613 195.12.32/19 ALLOCATED PA
 ru.tccbr (Technical Center Central Bank Russian Federation)
 19980807 212.40.192/19 ALLOCATED PA
 ru.tcnet (Telecom Centre Ltd.)
 19970306 195.230.64/19 ALLOCATED PA
 19991118 212.69.96/19 ALLOCATED PA
 ru.tco (Telecommunication Center Ostankino)
 19980608 212.12.64/19 ALLOCATED PA
 ru.ti (TOR_Info Ltd.)
 19990929 212.1.224/19 ALLOCATED PA
 ru.tulatelecom (Tulatelecom)
 19980220 212.12/19 ALLOCATED PA
 ru.turbo (RINET-TURBO)
 19980220 212.20/19 ALLOCATED PA
 19981130 212.20.32/19 ALLOCATED PA
 19981215 212.164/16 ALLOCATED PA
 ru.uralwes (Ural Net)
 19970324 195.64.192/19 ALLOCATED PA
 ru.utnet (QUORUS ACS Ltd.)
 19970128 195.12.64/19 ALLOCATED PA
 ru.vmts (VMTS)
 19981026 212.122.0/19 ALLOCATED PA
 ru.vstn (Vladivostok Short-range Telephone Network (VSTN))
 19990521 212.107.192/19 ALLOCATED PA
 ru.vtc (CJSC Vostoktelecom)
 19980806 212.16.192/19 ALLOCATED PA
 ru.vtel (Vladivostok Telegraph, branch Joint-stock Company
 Electrosvyaz of the Primorsky region)
 19990518 212.91.192/19 ALLOCATED PA
 ru.webplus (WEBplus Ltd.)
 19960715 194.8.160/19 ALLOCATED PA
 19970414 195.131/16 ALLOCATED PA
 ru.west-call (WestCall Ltd.)
 19971204 195.94.224/19 ALLOCATED PA
 ru.wsnet (Alpha_Telecom)
 19990420 212.96.192/19 ALLOCATED PA
 ru.zenon (Zenon N.S.P.)
 19970131 195.2.64/19 ALLOCATED PA
 ru.znetwork (Zond Holding JSC)
 20000120 213.168.128/19 ALLOCATED PA

Slovakia

sk.computel (Computel)
 19980119 195.28.96/19 ALLOCATED PA
 sk.eurotel (EuroTel Bratislava a.s.)
 19960126 194.154.224/19 ALLOCATED PA
 19970226 195.91/17 ALLOCATED PA

sk.gratex (GraTex International s r.o.)
19961120 195.98.128/19 ALLOCATED PA
sk.isnet (Internet Systems, Inc.)
19960820 195.114.0/19 ALLOCATED PA
sk.isternet (Isternet SR)
19960429 195.72.0/19 ALLOCATED PA
sk.kiss (KISS Ltd.)
19970109 195.28.128/19 ALLOCATED PA
sk.napri (NAPRI s.r.o.)
19960827 195.146.0/19 ALLOCATED PA
sk.net (GNS Inc.)
19961016 195.12.128/19 ALLOCATED PA
19990329 212.26.160/19 ALLOCATED PA
sk.netax (Netax, s. r. o.)
19991027 212.55.224/19 ALLOCATED PA
sk.netlab (Telenor Internet, Slovakia)
19960508 195.168.0/19 ALLOCATED PA
19960927 195.168.32/19 ALLOCATED PA
19960927 195.168.64/18 ALLOCATED PA
19960927 195.168.128/17 ALLOCATED PA
sk.profinet (Prof-i-NeT)
19970502 62.176.0/19 ALLOCATED PA
19970207 195.46.64/19 ALLOCATED PA
sk.psg (Power Systems Group s.r.o.)
19970925 195.80.160/19 ALLOCATED PA
sk.pubnet (PUBNET)
19960819 195.98.0/19 ALLOCATED PA
19981102 212.81.0/19 ALLOCATED PA
sk.pvt (PVT Bratislava a.s.)
19970310 195.28.64/19 ALLOCATED PA
sk.sanet (Slovak Academic Network)
Pre-1994 193.87/16 ALLOCATED UNSPECIFIED
19950503 194.160/16 ALLOCATED PA
sk.telecom (Slovak Telecom)
19961128 195.146.128/19 ALLOCATED PA
19980825 212.5.192/19 ALLOCATED PA
sk.telenor (Telenor Slovakia s.r.o.)
19971007 195.20.160/19 ALLOCATED PA
19980702 212.197/17 ALLOCATED PA
sk.zz ((NK) Last Resort Internet Registry for Slovakia)
19950405 194.1.128/17 ALLOCATED PI

Slovenia

si.amadej (AMADEJ)
19960129 194.165.96/19 ALLOCATED PA
si.arnes (ARNES)
Pre-1994 193.2/16 ALLOCATED UNSPECIFIED
19960301 194.249/16 ALLOCATED PA
si.bone (KKS Internetworks)
19991223 213.161/19 ALLOCATED PA
si.k2 (K2-net)
19990331 193.138.32/19 ALLOCATED PA
si.medinet (Medinet)
19990225 212.18.32/19 ALLOCATED PA
si.netsi (NETSI.NET)
19991029 212.72.96/19 ALLOCATED PA
si.perfttech (Perfttech Bled)
19990118 195.246/19 ALLOCATED PA
19990122 212.118.64/19 ALLOCATED PA
si.quantum (Quantum d.o.o.)
19960517 194.152.0/19 ALLOCATED PA

si.s-net (S-NET d.o.o, Slovenija, Internet Service Provider)
19971218 195.210.192/18 ALLOCATED PA
19970514 195.250.192/19 ALLOCATED PA
si.softnet (SOFTNET)
19991014 212.13.224/19 ALLOCATED PA
19981218 212.103.128/19 ALLOCATED PA
si.telekom (Telekom Slovenije p.o.)
19960419 193.189.160/19 ALLOCATED PA
19980622 212.30.64/19 ALLOCATED PA
19991028 213.250/18 ALLOCATED PA

Tajikistan

None

Turkmenistan

None

Ukraine

ua.adam (Adamant Co.)
19980511 212.26.128/19 ALLOCATED PA
ua.aic (Azov Information Company Ltd.)
19980217 195.206.224/19 ALLOCATED PA
ua.alkar (Alkar Teleport Ltd.)
19971007 195.248.160/19 ALLOCATED PA
ua.apex (Apex NCC Net)
19961009 195.24.128/19 ALLOCATED PA
19990902 212.3.96/19 ALLOCATED PA
ua.belabmukr (BelABM Ukraine)
19990630 212.113.32/19 ALLOCATED PA
ua.bonk (Joint-stock company Zaporozhsviazservis)
19990216 212.8.32/19 ALLOCATED PA
ua.ccinet (CCI Ukraine Ltd)
19991111 212.90.96/19 ALLOCATED PA
ua.cinet (Jsc Cinet)
19991110 212.86.96/19 ALLOCATED PA
ua.cris (CRimean Internet Service)
19981208 212.110.128/19 ALLOCATED PA
ua.donbass (STC FTICOM)
19970407 195.184.192/19 ALLOCATED PA
ua.doris (Joint-Stock company DORIS)
19971127 195.58.224/19 ALLOCATED PA
ua.eurocom (DCS-EuroCom)
19980519 212.15.128/19 ALLOCATED PA
ua.gtinet (Golden Telecom Internet)
19990505 212.82.192/19 ALLOCATED PA
ua.gu (JV Global-Ukraine.)
19960722 194.93.160/19 ALLOCATED PA
19970404 195.123.0/16 ALLOCATED PA
ua.infocom (INFOCOM JV)
19961231 195.230.128/19 ALLOCATED PA
19980709 212.1.64/18 ALLOCATED PA
ua.ints (PC Data, INTS)
19990601 212.66.32/19 ALLOCATED PA
ua.ipcom (IP Telecom Ltd.)
19991012 212.9.224/19 ALLOCATED PA
ua.iskra (IAC "911")
19970307 195.238.64/19 ALLOCATED PA
ua.ks-net (International Telecommunications Center KS-NET)
19961213 195.178.128/19 ALLOCATED PA

ua.ldc (Lila Digital Communications (LDC))
 20000119 213.160.128/19 ALLOCATED PA
 ua.luckynet (Lucky Net Ltd.)
 19980414 62.244.0/18 ALLOCATED PA
 19960618 193.193.192/19 ALLOCATED PA
 ua.monolit (venture "Monolit Internet")
 19961016 195.20.128/19 ALLOCATED PA
 ua.netsy (Netsy Ltd.)
 19970905 195.114.96/19 ALLOCATED PA
 ua.od (Farlep-Internet)
 19991213 213.130/19 ALLOCATED PA
 ua.pacolinks (PACO Links Int.)
 19961122 195.114.128/19 ALLOCATED PA
 ua.stcenergy (STC "Energy")
 19990720 212.90.160/19 ALLOCATED PA
 ua.svitonline (Sovam Teleport Kyiv)
 19990629 212.109.32/19 ALLOCATED PA
 ua.telnet (Telnet Ltd. Networking Center)
 19971029 195.138.160/19 ALLOCATED PA
 ua.tenet (TeNeT Networking Centre)
 19970225 195.138.64/19 ALLOCATED PA
 ua.tm (S&PE Telematika)
 19970501 62.16/19 ALLOCATED PA
 19970417 195.66.192/19 ALLOCATED PA
 ua.ts (WAN Ltd.)
 19950808 194.183.160/19 ALLOCATED PA
 ua.tsystems (TSystems Net)
 19990217 212.40.32/19 ALLOCATED PA
 ua.ukrnet (UkrNet Ltd.)
 19980624 212.42.64/19 ALLOCATED PA
 ua.ukrsat (UKRSAT (Ukrainian Satellite Systems))
 19990413 212.35.160/19 ALLOCATED PA
 ua.ukrtelecom (UKRTELECOM, UKRAINIAN STATE
 TELECOMMUNICATION CORPORATION)
 19960927 195.5.0/19 ALLOCATED PA
 19970717 195.5.32/19 ALLOCATED PA
 ua.uran (Center of European Integration)
 19990525 212.111.192/19 ALLOCATED PA
 ua.viaduk (Viaduk-Telecom, Inc.)
 19990709 212.68.160/19 ALLOCATED PA
 ua.visti (Elektronni Visti Ltd (EIVisti Ltd))
 19970813 195.64.224/19 ALLOCATED PA
 ua.zz (UARNet Last Resort Internet Registry for Ukraine)
 19940217 194.44/16 ALLOCATED UNSPECIFIED

Uzbekistan

uz.uzpak (Uzpak Net (Country Net of Independence Republic
 of Uzbekistan))
 19960829 195.158/19 ALLOCATED PA

Yugoslavia

yu.crna (Internet Crna Gora)
 19971020 195.66.160/19 ALLOCATED PA
 yu.eunet (YUnet International)
 19960314 194.247.192/19 ALLOCATED PA
 19990719 213.240/18 ALLOCATED PA
 yu.infosky (Informatika a.d.)
 19970922 195.250.96/19 ALLOCATED PA
 yu.opennet (Radio B92, OpenNet)
 19981204 212.102.128/19 ALLOCATED PA
 yu.pttsrbija (JP PTT saobracaja Srbija)
 19990301 212.62.32/19 ALLOCATED PA
 yu.telekom (TELEKOM SRBIJA)
 19970728 195.178.32/19 ALLOCATED PA
 19980224 212.200/16 ALLOCATED PA
 yu.yubc (YUBC System)
 19990714 212.124.160/19 ALLOCATED PA
 yu.yunet (YU Net)
 19951108 194.106.160/19 ALLOCATED PA
 19971112 195.252.64/18 ALLOCATED PA

Appendix III**Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement and the Paris Convention for the Protection of Industrial Property Rights (WIPO)**

The following table identifies membership in the two International Conventions regarding Intellectual Property Rights: the WTO Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement; and the WIPO Paris Convention for the Protection of Industrial Property Rights.

Country	States Party to the TRIPS Agreement(WTO)	Paris Convention for the Protection of Industrial Property (WIPO)
Albania	No	Yes
Armenia	No	Yes
Azerbaijan	No	Yes
Belarus	No	Yes
Bulgaria	Yes	Yes
Croatia	No	Yes
Czech Republic	Yes	Yes
Estonia	No	Yes
Georgia	No	Yes
Hungary	Yes	Yes
Kazakhstan	No	Yes
Kyrgyzstan	Yes	Yes
Latvia	Yes	Yes
Lithuania	No	Yes
FYR of Macedonia	No	Yes
Republic of Moldova	No	No
Poland	Yes	Yes
Romania	Yes	Yes
Russian Federation	No	Yes
Slovakia	Yes	Yes
Slovenia	Yes	Yes
Tajikistan	No	Yes
Turkmenistan	No	Yes
Ukraine	No	Yes
Uzbekistan	No	Yes
Yugoslavia	No	Yes

Column 1: from 'List of States Party to the World Trade Organization (WTO) and Bound by the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS) Agreement', in the Final Report of the WIPO Internet Domain Name Process, April 30, 1999; Annex XI, <http://ecommerce.wipo.int/domains/process/eng/final/annex11.html>.

Column 2: from 'States Party to the Paris Convention for the Protection of Industrial Property', in the Final Report of the WIPO Internet Domain Name Process, April 30, 1999; Annex X, <http://ecommerce.wipo.int/domains/process/eng/final/annex10.html>

Appendix IV

Summary of International Cooperation on Internet Development

The ubiquitous nature of the Internet means that it interacts with nearly every sector of the regulatory environment. The implications for changes in administrative practices, because of the development of the internet, exist in the fields of health, education, industry and even governments' own administrative practices.

The relatively recent birth of the public Internet, as well as its constant state of evolution, have contributed to the overall lack of concrete laws or regulations. The legislative agendas of most transition economies are in the nascent stage, with basic constitutional frameworks that are less than ten years old.

The process of development, in particular in the area of the Internet infrastructure technologies, has largely been carried out under the rubric of international associations from the private sector. However, there is a growing body of public sector initiatives from international and national government administrations that deal specifically with subsectors of the Internet industry.

Non-governmental Organizations

Non-governmental organizations have emerged to deal with many of the technical issues requiring immediate standardization, in order for the Internet to be a truly international, cross-platform compatible framework for the exchange of data. In addition to the groups that focus on technological issues, there are a number of high-profile non-profit associations, made up of leading executives from the Internet industry, which issue policy papers and work towards co-operative models of self-regulation. In particular, there are groups focusing on the issues of taxation, privacy and electronic commerce standards.

The following list is a sample of some of the leading organizations in this sector:

GIIC – The Global Information Infrastructure Commission
<http://www.giic.org>

Principal activities : co-ordination and administering the four areas mentioned above which all require some centralized oversight.

An independent, non-governmental initiative involving communications related industry leaders from developing as well as industrialized countries. The focus of their activities is on Global Information Infrastructure Development, Electronic Commerce and Education in the Information Age.
 Principal activities : formulating policy recommendations.

ICANN - The Internet Corporation for Assigned Names and Numbers
<http://www.icann.org/>

A non-profit, private sector corporation formed by a broad coalition of the Internet's business, technical, and academic communities that assumed responsibility for the IP address space allocation, protocol parameter assignment, domain name system management, and root server system management functions which had previously been performed, under U.S. Government contract, by IANA and other entities.

ICC/IBCC - The International Bureau of Chambers of Commerce

<http://www.icc-ibcc.org/>

IBCC is the World Forum of Chambers of Commerce. It is an international meeting place for the exchange of experience and expertise on policy and technical issues. Participants in the IBCC's work are executives of chambers from developed and developing countries as well as economies in transition. The IBCC also represents chambers of commerce from all over the world in contacts with intergovernmental organisations and other international bodies, including the UNDP, WTO and UNCTAD.

Principal activities : education, networking.

IEEE - The Institute of Electrical and Electronics Engineers, Inc.

<http://www.ieee.org/>

The IEEE is a non-profit, technical professional association of more than 350,000 individual members in 150 countries. Through its members, the IEEE is a leading authority in technical areas ranging from computer engineering, biomedical technology and telecommunications, to electric power, aerospace and consumer electronics, among others. Of particular interest is the work of its Standards Association which includes recent developments in the field of wireless personal area networks (WPAN).

Principal activities : education, standardization.

ILPF - The Internet Law and Policy Forum

<http://www.ilpf.org>

The ILPF is a US-based organization made up of internet-centric corporations with a common interest in fostering the growth of Internet electronic commerce and communications. In addition to their yearly conferences, the main work of the ILPF takes place in expert working groups, in such areas as digital signatures, certification authorities, self-regulation and content protection. They are also able to provide consultative legal and research services for short term assignments through the assembly of Rapid Assessment Teams (RATS).

Principal activities : policy formulation, lobbying, consulting.

ISOC - The Internet Society

<http://www.isoc.org/>

The Internet Society is a non-profit, non-governmental, international, professional membership organization. It focuses on: standards, education, and policy issues. In addition to the activities of the many local chapters of the Internet Society, the organization also acts as an umbrella organization for several key leaders in developing internet standards, including the Internet Engineering Task Force (IETF) and the Internet Architecture Board (IAB).

IETF - The Internet Engineering Task Force

<http://www.ietf.cnri.reston.va.us/home.html>

The IETF is a large open international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the

smooth operation of the Internet. It is open to any interested individual. The mission of the IETF is to study operational and technical problems with the internet, specify protocols and architectural solutions for these problems, and make recommendations to the Internet Engineering Steering Group (IESG). The recommendations of the IETF are formalized in the documents called 'Requests For Comments' (RFC), many of which have become standards that now define how the internet works. (Source:

http://livinginternet.com/iw_mgmt_ietf.htm)

Principal activities: standardization.

IAB - The Internet Architecture Board

<http://www.iab.org>

The IAB is a technical advisory group of the Internet Society. Its responsibilities include: overseeing the appointment of the administrative and senior personnel of the IETF and IESG ; it also oversees the process used to create Internet Standards such that the IAB serves as an appeal board for complaints of improper execution of the standards process.

Principal activities : standardization review.

W3C - The World Wide Web Consortium

<http://www.w3.org>

W3C is an international industry consortium, jointly hosted by the Massachusetts Institute of Technology Laboratory for Computer Science [MIT/LCS] in the United States; the Institut National de Recherche en Informatique et en Automatique [INRIA] in Europe; and the Keio University Shonan Fujisawa Campus in Japan. Services provided by the Consortium include: a repository of information about the World Wide Web for developers and users; reference code implementations to embody and promote standards; and various prototype and sample applications to demonstrate use of new technology.

W3C's Team of experts works with its Members to advance the state of the art in each of the four Domains: User Interface, Technology & Society, Architecture, and the Web Accessibility Initiative. A large part of their work is to produce W3C Recommendations which become industry standards, in particular they have become the authority responsible for producing standardized versions of new languages such as XML, XHTML, and HTML 4.0.

Principle activities: standardization.

WITSA - World Information Technology and Services Alliance

<http://www.witsa.org>

WITSA is an umbrella organization of national and regional trade associations in the IT sector. Its role is to develop public policy positions on issues of concern to the information industry and present these positions to governments and international organizations.

Principle activities : policy formulation and lobbying.

International and Regional Organizations

At the regional level, the EU has been very active participant in the articulation of regulatory strategies for the internet, particularly in the field of electronic commerce. In addition to the work of the UN/ECE, a number of United Nations organizations and OECD have also taken on a leadership role in key areas.

European Union

The European Commission recently launched the 'eEurope – An Information Society For All' initiative

(<http://europa.eu.int/comm/dg13/eeurope/home.htm>). The main focus of work relating to the internet regulatory environment takes place in Directorate-General XIII – Information Society (<http://europa.eu.int/comm/dg13>), which

houses the Information Society Promotion Office (ISPO - <http://www.ispo.cec.be>).

ISPO produces the European Survey of Information Society (ESIS), which has recently been expanded (ESIS2) to include Central and Eastern European countries (See Chapter on Internet Services section). Also of interest to Commonwealth of Independent States member countries, the External Relations Directorate-General will administer the TACIS Program (<http://europa.eu.int/comm/dg1a/tacis/index.htm> n.b. this url will change with the restructuring) which provides assistance for economic reform and recovery in the region.

OECD – The Organisation for Economic Co-operation and Development

<http://www.oecd.org/>

The OECD has taken an active role in attempting to develop an international consensus on the issues falling under the umbrella of electronic commerce. Their efforts began with the Ministerial Conference, 'Realising the Potential of Global Electronic Commerce', which was held in Ottawa in October 1998. They recently published the OECD 'Guidelines for Consumer Protection in the Context of Electronic Commerce'. (<http://www.oecd.org/dsti/sti/it/consumer/prod/guidelines.htm>)

Important publications include : 'Information Technology Outlook 2000' and 'Communications Outlook 1999'.

ISO – International Organization for Standardization

<http://www.iso.ch/>

ISO is non-profit organization which has the structure of a worldwide federation of national standards bodies from 130 countries. Its mission is to promote the development of standardization in the world in order to facilitate the international exchange of goods and services, and to developing cooperation in the spheres of intellectual, scientific, technological and economic activity. ISO's work results in international agreements which are published as International Standards, e.g. ISO international codes for country names, currencies and languages.

ITU – International Telecommunications Union

<http://www.itu.int/>

In addition to its extensive standardization work in the general field of telecommunications, the ITU is active in the development of widely used standards for electronic commerce (e.g., X.509 Digital Certificate). Its experience in the design, development and implementation of electronic commerce applications and services will be shared under the framework of its special development initiative, 'Electronic Commerce for Developing Countries (EC-DC)'.

UN/CEFACT- United Nations Economic Commission for Europe Centre for the Facilitation of Procedures and Practices for Administration, Commerce and Transport <http://www.unece.org/trafix>

UN/CEFACT develops solutions to support the efficient exchange of products and services across global markets by identifying and defining simple and transparent

procedures for international trade. These processes are based on best practices in electronic business and trade facilitation as well as on internationally agreed information and communication technologies and standards.

UNCITRAL - United Nations Commission on International Trade Law

<http://www.uncitral.org/>

The mandate of the Commission is to 'further the progressive harmonization and unification of the law of international trade.' In 1996, the Commission presented its Model Law on Electronic Commerce (<http://www.uncitral.org/english/texts/electcom/ml-ec.htm>). Legislation based on this Model Law has been adopted in Columbia, the Republic of Korea, Singapore and, within the United States of America, Illinois.

UNCTAD – United Nations Conference on Trade and Development

<http://www.unctad.org/>

In addition to its working party on electronic commerce, UNCTAD operates the Global Trade Point Networks (GTPN) which fosters greater participation in international trade by SMEs in developing countries by promoting better trade practices through the use of information technologies.

UNDP – The United Nations Development Programme

<http://www.undp.org>

The UNDP's Bureau for Development Policy (BDP) seeks to capture the potential of Information and Communication Technologies (ICTs) for sustainable human development and the fight against poverty. UNDP – Africa launched the 'Internet Initiative for Africa' in 1997 which seeks to enhance civil society participation and transparency in governance; support for SMEs; Trade Promotion; and the advancement and empowerment of women.

UNECE – United Nations Economic Commission for Europe

See UNCEFACT.

WIPO – The World Intellectual Property Organization

<http://www.wipo.int>

WIPO is an intergovernmental organization, one of the 16 specialized agencies of the United Nations system of organizations. It is responsible for the promotion of the protection of intellectual property throughout the world through cooperation among States, and for the administration of various multilateral treaties dealing with the legal and administrative

aspects of intellectual property. In September 1999, WIPO announced its 'Digital Agenda' at the WIPO International Conference on Electronic Commerce and Intellectual Property. Relevant activities include WIPO's Report on the Domain Name Process

<http://ecommerce.wipo.int/domains/process/eng/processhome.html>) and two treaties, the WIPO Copyright Treaty (WCT - <http://www.wipo.int/eng/diplconf/distrib/94dc.htm>) and the WIPO Performances and Phonograms Treaty (WPPT - <http://www.wipo.int/eng/diplconf/distrib/95dc.htm>).

WTO – World Trade Organization

<http://www.wto.org/>

The WTO is an international organization dealing with the multilateral trading system. The 1998 WTO Ministerial Conference issued a 'Declaration' (http://www.wto.org/wto/ecom/e_mindec1.htm) that established a comprehensive work programme to examine all trade-related issues relating to global electronic commerce.