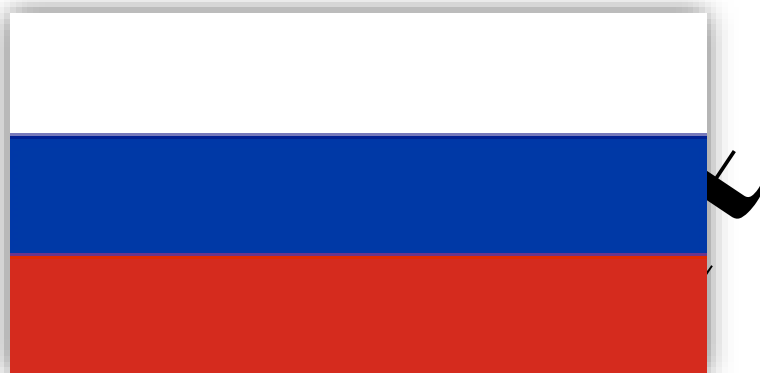


مرکز تخصصی
ایکس
دانشگاه صنعتی اصفهان



(آگاهی‌رسانی، پشتیبانی و امداد در حوزه شبکه)

« وضعیت سایبری روسیه »



روسیه		نام کشور
موسکو		پایتخت
73.3%	مسیحیت	مذهب
16.4%	بی دین	
10%	اسلام	
0.1%	بودا	
0.2%	یهودیت	
روسی (русский язык)		زبان و خط رسمی
جمهوری فدرال		نوع حکومت
17.1 میلیون کیلومتر مربع		مساحت
146.7 میلیون نفر		جمعیت
روبل		واحد پول
موسکو، سن پترزبورگ، نووسیبیرسک، یکاترینبورگ، کازان و چلیابینسک		شهرهای مهم
۱۹۹۰		تاریخ استفاده شهروندان از اینترنت
79.7		درصد افراد استفاده کننده از اینترنت در سال ۲۰۲۰
.ru		دامنه اینترنت
نوع ارتباط	نام ISP	ISPها
DSL	CenturyLink	
Cable	Spectrum	
Satellite	Viasat	



Satellite	HughesNet	
Fixed Wireless	NKTelco	
Fixed Wireless	Reliable Wireless Solutions	
Fixed Wireless	Watch Communications	
۱۲ آوریل ۱۹۹۵		تاریخ تشکیل CERT
۴ تریلیون روپل (معادل ۶۰ میلیارد دلار)		سهام مالی بخش ICT و امنیت سایبری در اقتصاد (سال ۲۰۱۸)

APRA-IUTIC



۱. مقدمه

فدراسیون روسیه، کشوری میان‌قاره‌ای است که از نظر جغرافیایی در اروپای شرقی و آسیای شمالی واقع شده است. این کشور با مساحت ۱۷۱۲۵۲۰۰ کیلومتر مربع، بزرگ‌ترین کشور جهان به لحاظ مساحت (یک هشتم مساحت قابل سکونت کره زمین) بوده و یازده منطقه زمانی را دربردارد. براساس سرشماری جمعیتی بالغ بر ۱۴۶ میلیون نفر، روسیه پرجمعیت‌ترین کشور اروپایی و نهمین کشور جهان به لحاظ جمعیت است.

روسیه از نقطه نظر اقتصادی با توجه به معیار تولید ناخالص داخلی اسمی (Nominal GDP): 1.64 تریلیون دلار، یازدهمین کشور و با معیار تولید ناخالص داخلی PPP (PPP GDP): 4.21 تریلیون دلار، ششمین کشور در دنیا است. سهم فناوری اطلاعات در اقتصاد روسیه از ۱۲۰ میلیون دلار در سال ۲۰۰۰ به ۶۰ میلیارد دلار در سال ۲۰۱۸ رسیده است. در کنار رشد چشم‌گیر سرمایه‌گذاری در این حوزه، نرخ جرایم سایبری نیز در روسیه بسیار بالا است. چنانچه شمار عمومی این دست جرایم از ۱۳۰۰ در سال ۲۰۰۱ به ۱۷۴۶۷۴ در سال ۲۰۱۸ افزایش یافته است. طبق نظرسنجی که از ۵۰۰ شرکت مطرح روسی از ۸ ناحیه فدرال، توسط آژانس ملی تحقیقات اقتصادی^۱ روسیه صورت پذیرفت؛ نیمی از شرکت‌ها در معرض تهدیدات و حملات سایبری بوده‌اند و ۲۲٪ از آن‌ها از این حملات زیان مالی دیده‌اند. در سال ۲۰۱۷ ضرر مالی شرکت‌های روس از حملات سایبری، حداقل ۱۱۶ میلیارد روبل، معادل ۲ میلیون دلار بوده است.

سرعت روزافزون بانک‌داری الکترونیک در این کشور نیز به موارد سرقت مالی و جابجایی پول با دسترسی غیرمجاز به شدت افزوده است. به گونه‌ای که تنها در سال ۲۰۱۸، ۱۳ میلیارد روبل معادل ۱ میلیون دلار از این طریق به سرقت رفته است. شایان ذکر است که این مقدار ۴۴ درصد بیشتر از معادل آن در سال ۲۰۱۷ بوده و این روند همچنان صعودی است. به طور کلی با تحلیل آمار حملات سایبری روسیه می‌توان گفت مجرمان سایبری برای دسترسی به حساب‌ها و سرقت اموال قربانیان در ۹۷٪ موارد از فریب، سوءاستفاده از اعتماد آنان و انواع روش‌های مهندسی اجتماعی بهره می‌برند.

در سیاست‌های کلان فدراسیون روسیه، حوزه فناوری اطلاعات و امنیت اطلاعات بسیار حائز اهمیت است. تصمیمات نظام قانون‌گذاری روسیه در این حوزه، موارد زیر را شامل می‌شود:

- توسعه زیرساخت‌های اطلاعاتی امن و پایدار
- توسعه مکانیزم‌های شناسایی و جلوگیری از تهدیدات سایبری و برطرف کردن آن‌ها
- حفاظت از شهروندان روسیه در مقابل حملات سایبری به زیرساخت‌های حیاتی^۲ اطلاعات روسیه

به این منظور در سپتامبر ۲۰۱۸، مرکز هماهنگی ملی^۳ یا NCC به سرپرستی سرویس امنیت فدرال^۴ یا FSB (که پیشتر با عناوین FSK و قبل از آن KGB شناخته می‌شد) برای مقابله با حوادث رایانه‌ای و حفاظت از منابع اطلاعات ملی روسیه، ایجاد شد. با نظارت NCC، تمامی شرکت‌های روس بایستی به سیستم‌های تشخیص تهدید و نفوذ موسوم به GosSOPKA متصل باشند. سال ۲۰۱۸، GosSOPKA موفق شد تعداد قابل ملاحظه‌ای از حملات سایبری به زیرساخت‌های حیاتی اطلاعاتی CII روسیه را شناسایی کند که از میان آن‌ها ۱۷۰۰۰ حمله، سطح خطر «بسیار بالا» داشتند. حوزه فعالیت NCC موارد زیر را شامل می‌شود:

- نظارت امنیت اطلاعات
- پیش‌بینی حملات سایبری
- تضمین همکاری امن عاملان ارتباط و صاحبان منابع اطلاعاتی
- تعیین علل حوادث سایبری

^۱ National Agency for Financial Research (NAFR)

^۲ Critical Information Infrastructures

^۳ National Coordination Center

^۴ Federal Security Service



جدیدترین قوانینی که در روسیه به عنوان چارچوب سازمانی و حقوقی امنیت CII ایجاد شده‌اند، عبارتند از:

قانون فدرال شماره ۱۸۷: این قانون از ۱ ژانویه ۲۰۱۸ اجرایی شد. با توجه به این قانون، مجازات دسترسی غیرمجاز به اطلاعات CII، ۲ تا ۶ سال زندان و ۵۰۰ هزار تا ۱ میلیون روبل جریمه نقدی است. موجودیت‌های CII، سیستم‌های اطلاعاتی و شبکه‌های ارتباطی دولتی و آژانس‌های مرتبط با دولت هستند. به همین دلیل امنیت این زیرساخت‌ها بسیار مهم است و دسترسی غیرمجاز به آن‌ها چنان چه گفته شد، مجازات سنگینی خواهد داشت. بالغ بر ۱۰۰۰۰۰ فیلد دفاعی، سلامت، علمی، ارتباطی، حمل‌ونقل، انرژی، فضایی، موشکی و ... موجودیت‌های CII روسیه هستند. طبق قانون فدرال ۱۸۷، این موجودیت‌ها در صورت وقوع حوادث و یا حملات الکترونیک موظف به گزارش به NCC هستند. هر موضوع سریعاً پیگیری و برطرف شود.

قانون فدرال شماره ۱۹۴: ماه مه ۲۰۱۶، رئیس‌جمهور روسیه ولادیمیر پوتین، لایحه ایزوله‌سازی اینترنت را امضا کرد. این قانون برای عملکرد پایدار و ایمن شبکه روسیه یا RuNet در شرایطی که از شبکه جهانی اینترنت جدا شود، به تصویب رسید. بخش بعدی این گزارش به RuNet و ایزوله‌سازی آن اختصاص یافته است.

روسیه تنها کشوری است که در شورای اروپا شرکت نموده ولی کنوانسیون بوداپست در مورد جرایم سایبری را امضا نکرده است. علت این امر «پاراگراف ۳۲» این کنوانسیون بود که به موجب آن حین بررسی‌های جرایم سایبری در اروپا، امکان دسترسی فرا-مرزی^۵ به منابع اطلاعاتی سایر کشورهای شورا، فراهم می‌شود.

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^۵ Trans-border

۲. RuNet

اصطلاح RuNet (ترکیب دو کلمه Russian و Net) برای اولین بار در اسرائیل (۱۹۹۷) توسط گوینده روسی‌زبان ساکن رژیم اشغالگر قدس، رافی اسلان‌بکوف^۶ استفاده شد. اسلان‌بکوف-نویسنده ستون آنلاین افکار عمومی بزرگ- در روسیه با عنوان «عمومی بزرگ» شناخته می‌شود. به مرور زمان اصطلاح RuNet حتی به فرهنگ لغات نیز وارد شد.

«نوع جدیدی از جنگ ظاهر شده است که در آن جنگ مسلحانه جایگاه خود را در دستیابی به اهداف

نظامی و سیاسی به جنگ اطلاعات داده است.»

رویکرد روسیه در جنگ اطلاعات، آفندی و آینده‌ی RuNet ایده‌ی ایزوله‌سازی RuNet نمونه‌ی بارز رویکرد پدافندی روسیه است. ایزوله‌سازی RuNet، پاسخی به «استراتژی سایبری ایالات متحده آمریکا» بود که در سپتامبر ۲۰۱۸ به امضای دونالد ترامپ، رئیس‌جمهور آمریکا رسید.

اواخر سال ۲۰۱۸، برای اولین بار ایزوله‌سازی شبکه‌ی روسیه توسط سه قانون‌گذار روسی مطرح شد. این موضوع، ۱۶ آوریل ۲۰۱۹ توسط پارلمان دوما (Duma) تصویب شد. ۲۲ آوریل همان سال، تغییر مجلس فدراسیون روسیه را اخذ نمود و ۱ می ۲۰۱۹ به امضای رئیس‌جمهور ولادیمیر پوتین رسید. بر اساس این قانون، اجرای ایزوله‌سازی RuNet تا نوامبر ۲۰۲۰ بایستی صورت پذیرد و نهایتاً تا ۱ ژانویه ۲۰۲۱ بایستی با موفقیت اجرای آن کامل شود. اجرای موفق این قانون مورد زیر را شامل می‌شود:

- دولت روسیه به دنبال ایجاد جایگزینی برای سیستم نام دامنه‌ی DNS است تا در صورت قطع اینترنت از روسیه و شهروندان‌ش حفاظت کند.
- محدود کردن گره‌های مرزی (نقاطی که شبکه‌ی داخلی روسیه را به اینترنت متصل کرده است) به گونه‌ای که ارائه‌ی سرویس به کاربران داخلی دچار آفت کیفیت نشود.
- محدود کردن اتصال به گونه‌ای که حتی شبکه‌های خصوصی مجازی^۸ یا VPN نیز قادر به دور زدن آن‌ها نباشند.
- بیشتر آن که روسیه تصمیم دارد قانونی را به تصویب برساند که تولیدکنندگان تجهیزات الکترونیک را ملزم سازد پیش از فروش محصولات خود شامل تلفن‌های هوشمند، رایانه‌ها، تلویزیون‌های هوشمند و ... به شهروندان روس، نرم‌افزارهای خاصی را روی آن‌ها نصب کنند. این قانون تا جولای ۲۰۲۰ تصویب خواهد شد.
- بعلاوه برخی وبسایت‌های پرکاربرد و محبوب مانند ویکی‌پدیا^۹ با سایت‌های بومی روسیه جایگزین خواهند شد.

گزارش آژانس‌های خبری محلی، مثل پرادا (Prada) حاکی از آن است که تست ایزوله‌سازی، طبق برنامه پیشرفت یافته است.

^۶ Raffi Aslanbekov

^۷ Domain Name System

^۸ Virtual Private Network

^۹ Wikipedia



وزیر ارتباطات روسیه: «نتایج آزمایشات نشان داد که به صورت کلی هم مقامات و هم اپراتورهای ارتباطات آماده‌اند تا به طور موثر به خطرات و تهدیدات نوظهور پاسخ دهند. به گونه‌ای که عملکرد پایدار شبکه ارتباطات یکپارچه فدراسیون روسیه را تضمین کند».

بدین ترتیب لایحه ایزوله‌سازی RuNet با موفقیت تست و نتایج آن به پوتین گزارش شد. اطلاعاتی در مورد چگونگی تست در دست تحلیل‌گران نیست ولی ادعای وزارت‌خانه ارتباطات روسیه آن است که کاربران RuNet هیچ گونه تغییری را حس نکرده‌اند. آژانس خبری دیگری به نام تاس (Tass) نیز گزارش کرد: تست به مقامات امنیت سایبری، ایده خوبی پیرامون آسیب‌پذیری‌های دستگاه‌های اینترنت اشیا داده است. بیشتر آن‌ها این تست، بررسی قابلیت‌های RuNet برای برطرف‌سازی اثرات منفی خارجی را شامل می‌شد.

اما منتقدان اجتماعی نگران هستند که اجرای این قانون شبیه شدن به چین در کنترل جامعه و ایجاد شبکه ایزوله باشد. به عبارت دیگر آن‌ها نگران سانسور بیشتر اطلاعات در روسیه و کنترل حکمیتی ارتباطات شهروندان روسی هستند. آن‌ها معتقدند با توجه به پیشینه دولت روسیه (اقداماتی مانند مسدود کردن پیام‌رسان تلگرام) این نگرانی‌ها بی‌مورد نیست. به طور خلاصه نگاه طرفداران نظام حاکم بر روسیه و منتقدان متفاوت است. دسته اول بر این باورند که هدف اصلی لایحه اینترنت ملی روسیه، امن کردن عملکرد RuNet در زمان قطع شدن زیرساخت ملی از شبکه سراسری اینترنت (به دلیل دفاع یا حمله در جنگ‌های سایبری) است.

در مقابل منتقدان معتقدند که هدف، کنترل مرکزی دولت روی شبکه RuNet و در صورت نیاز، قطع اینترنت است. طبق گزارش سال ۲۰۱۸ خانه آزادی با عنوان «آزادی در شبکه ۱۰» روسیه ۵۳ مین کشور از ۱۰۰ کشور است که شبکه ارتباطات آن آزاد نیست. معیار این گزارش برای مقایسه کشورها به طور خاص تمرکز بازار ارتباطات و سهم مالکیت دولت-ملت است (دولت روسیه مالک ۳۷ درصد از پهنای باند روسیه است). به علاوه در این گزارش به موارد دیگری مثل محدودیت‌های اساسی محتوا (مثل مناقشات اوکراین، روابط هم‌جنس‌گرایان و ...)، نقض حریم خصوصی کاربران (مثل ناشناسی، دسترسی دولت به اطلاعات شخصی و ...) و ... نیز اشاره شده است. طبق این گزارش آزادی شبکه روسیه برای ششمین سال متوالی کاهش یافته است.

به هر حال قانون ایزوله‌سازی RuNet رویکرد پدافندی روسیه به تهدیدات خارجی (و حتی داخلی) است. طبق این قانون، در صورت وجود تهدید داخلی/ خارجی RuNet، حالت کنترل متمرکز توسط Roskomnadzor اعمال می‌شود. این یعنی Roskomnadzor اختیار خواهد داشت تا قوانین مسیریابی را برای ترافیک ارائه‌دهندگان سرویس روسی تعیین کند. می‌توان گفت کنترل توزیع و جهت جریان داده‌ها درون شبکه‌ها و محدود کردن انتقال داده به خارج از کشور از قابلیت‌های Roskomnadzor است. اما چنانچه گفته شد راهبرد روسیه در جنگ اطلاعات، آفندی نیز هست. از زمان آغاز بحران اوکراین در سال ۲۰۱۴، روسیه در این جنگ تهاجمی‌تر شده است.



ولادیمیر پوتین: « ما بایستی نقشه‌ها و جهت‌گیری نیروهای نظامی سایر کشورها را در نظر داشته باشیم ... پاسخ ما باید مبتنی بر برتری اطلاعاتی ما باشد؛ در اینصورت نامتقارن و کم‌هزینه‌تر خواهد بود».

توجه شود که جنگ اطلاعات به زمان جنگ و نزاع فیزیکی محدود نیست و در زمان صلح نیز اتفاق می‌افتد. علت این امر آن است که اطلاعات تنها در حوزه نظامی نیست. برخلاف شکل‌ها و انواع دیگر جنگ، جنگ اطلاعات در زمان صلح و در تمام حوزه‌ها جریان دارد.

«جنگ اطلاعات دامنه وسیعی از فعالیت‌ها از شنود، سرقت، مداخله، دستکاری، تحریف و تخریب اطلاعات را شامل می‌شود. روسیه برتری در این زمینه‌ها را کلیدی برای پیروزی در مناقشات آینده می‌داند».

در تعریف عناصر سازنده قدرت راهبردی در حوزه اطلاعات، اجماع وجود ندارد. در اصطلاحاتی مثل جنگ اطلاعات^{۱۱} (IW)، عملیات روانی^{۱۲} (PsyOps)، عملیات اثرگذاری^{۱۳} (IO)، ارتباطات راهبردی^{۱۴} (STRATCOM)، عملیات شبکه کامپیوتری^{۱۵} (CNO) و فریب نظامی (MILDEC)، تفاوت بسیاری در تعاریف وجود دارد. استفاده از این اصطلاحات در متون مختلف، هدف و فعالیت متفاوتی را ممکن است تعریف کند.

جدای از این تعاریف، بسته به هدف حمله، اقدام اطلاعاتی روسیه دو نوع است:

- جنگ اطلاعاتی-روانی برای اثر روی نیروهای نظامی و عوام کشور رقابت طبیعی و به صورت مادام‌انجام می‌شود.
- جنگ فناوری اطلاعات برای اثر روی سیستم‌های فنی که اطلاعات را دریافت، ذخیره، پردازش و منتقل می‌کنند. به هر حال کلمه کلیدی، «اطلاعات» است.

مارک لیتی^{۱۶}، رئیس ارتباطات راهبردی^{۱۷}: «تقابل اطلاعات در تمامی فازها اجرا می‌شود که به صورت پنهانی در صلح و در جنگ صورت می‌پذیرد».

^{۱۱} Information Warfare

^{۱۲} Psychological Operations

^{۱۳} Influence Operations

^{۱۴} Strategic Communication

^{۱۵} Computer Network Operations

^{۱۶} Mark Laity

^{۱۷} Supreme Headquarters Allied Powers Europe (SHAPE)



ماهیت عملکرد تقابل اطلاعاتی در جنگ و صلح متفاوت است. در صلح بیشتر کارهای پنهانی از شناسایی، جاسوسی، افزایش توانمندی‌های اطلاعاتی و مانورهای اطلاعاتی صورت می‌پذیرد. اما در زمان جنگ، همه چیز متخاصمانه انجام می‌شود. از اعتبارزدایی از رهبران دشمن، تحریف اتفاقات، دروغ‌پراکنی، حملات هک و ... مقامات دولتی روسیه بر این باورند که روسیه دیگر نمی‌تواند با روش‌های سنتی از رقبای خود پیشی گیرد. در نتیجه به دنبال جنگ نامتقارن هستند. در جنگ نامتقارن، جنگ اطلاعات مهم‌ترین رکن است.

« جنگ اطلاعاتی و روانی مهم‌ترین شکل و روش عملیات در جنگ‌های آینده برای کسب برتری خواهد بود ... در واقع، جنگ اطلاعاتی و عملیات روانی مهم‌ترین زمین مبارزه برای پیروزی خواهد بود. »

به همین دلیل سرویس امنیتی FSB، اخیراً سلاح جدیدی سفارش داده است که افشای خبر آن شوک بزرگی در دنیای ارتباطات بود. هدف این سلاح، حمله به اینترنت اشیا (IoT) است. این سلاح، برنامه‌ای موسوم به Fronton Program است که از آسیب‌پذیری‌های اینترنت اشیا سوءاستفاده می‌کند. هدف از این برنامه جاسوسی و دسترسی به صاحبان دستگاه‌های متصل به شبکه اینترنت اشیا نیست بلکه درگیر کردن آن‌ها در شبکه باتی (Bot) است که می‌تواند برای حمله به اهداف بسیار بزرگ‌تر مثل بسترهای شبکه آمریکا، کشورهای اروپایی و یا زیرساخت‌های تمام کشورها از جمله کشورهای همسایه روسیه است.

۱۸ مارس ۲۰۲۰ گروه هکری Digital Revolution^{۱۸}، ۱۲ سند فنی از سفارش این برنامه که تاریخ آن‌ها به سال‌های ۲۰۱۷ و ۲۰۱۸ برمی‌گشت، منتشر کردند. جولای ۲۰۱۹ نیز گروه هکری Oviru\$ در همین زمینه قراردادهای syTech و FSB را منتشر کرده بود.

در ادامه این گزارش مهم‌ترین حملات روسیه در جنگ اطلاعات به سایر کشورها آمده است.

^{۱۸} این گروه مهم‌ترین گروه تهدیدکننده FSB است.



۳. مهم‌ترین حملات سایبری روسیه

استونی ۲۰۰۷

آوریل سال ۲۰۰۷ به دنبال نزاع دیپلماتیک بین استونی و روسیه در مورد یادبود جنگ اتحاد جماهیر شوروی، استونی هدف حملات سایبری روسیه قرار گرفت. هدف این حملات وبسایت‌های مالی، رسانه‌ای و دولتی استونی و ابزار آن، حجم گسترده‌ای از هرزنامه‌ها بودند. پس از این حمله، بانک‌داری آنلاین استونی از دسترسی خارج شد؛ کارمندان دولت دیگر نمی‌توانستند از ایمیل دولتی خود استفاده کنند و رسانه‌ها قادر به پخش اخبار نبودند.

طبق گزارش‌ها، این حملات از آدرس‌های IP روسیه و برخی توابع و دستورات آن‌ها به زبان روسی نوشته شده بود. به دلیل پیچیدگی حملات، گمان کارشناسان این بود که این حملات می‌تواند توسط خود دولت روسیه عملیاتی شده باشد. یک سال پس از این حملات، ناتو مرکز تعاونی دفاع سایبری را در تالین تأسیس کرد.

گرجستان ۲۰۰۸

۲۰ جولای ۲۰۰۸، وبسایت رئیس‌جمهور گرجستان میخائیل ساکاشویلی^{۱۹}، وبسایت بانک ملی گرجستان و وبسایت پارلمان این کشور مورد حملات گسترده نقض سرویس قرار گرفتند. بیشتر آن که سرورهای دولتی بسیاری نیز مورد حمله قرار گرفته و از دسترس خارج شده بودند. موسسه تحقیقاتی در ایالات متحده، گزارش کرد که حملات فیلدنگ از سامانه‌های دولتی و یا نظامی روسیه نبوده بلکه به صورت توزیع شده از ترافیک کاربران معمولی روسیه، اوکراین و لتونی است. طبق این گزارش مشخص نیست که این کاربران به دلخواه در این حملات شرکت داشته‌اند یا تنها ناآگاهانه عضوی از شبکه بات روسیه هستند.

قرقیزستان ۲۰۰۹

اواسط ژانویه ۲۰۰۹ دو ISP قرقیزستان مورد حمله قرار گرفتند و سرور وبسایت‌ها و وبسایت‌های داخلی این کشور از دسترس مردم خارج شد. زمان این حمله متناظر با زمانی است که رئیس‌جمهور قرقیزستان توسط فعالان داخلی روسیه تحت فشار بود تا پایگاه هوایی ایالات متحده در این کشور را ببندد. طبق گزارش وال‌استریت ژورنال این حمله مستقیماً توسط ارتش سایبری روسیه صورت پذیرفت.

اوکراین ۲۰۱۴

مارس ۲۰۱۴، سلاح سایبری روسی به نام «مار» یا Ouroboros به سیستم‌های دولتی اوکراین حمله کرد. گزارشات حاکی از آن است که تولکیت این بدافزار در سال ۲۰۱۰ در سیستم‌های کامپیوتری اوکراین پخش شده است. این سلاح از سوءاستفاده از آسیب‌پذیری‌های کامپیوتری و حملات شبکه برای تسخیر قربانیان خود استفاده می‌کرد.

به علاوه در همین سال طبق گزارش CrowdStrike، گروه تهدید روسی به نام Fancy Bear بدافزار اندرویدی را با هدف نیروهای موشکی اوکراین ایجاد کردند. آن‌ها نسخه‌ای از یک برنامه اندرویدی را که آلوده به این بدافزار بود، توزیع کردند. برخی مقامات اوکراینی از این برنامه استفاده کرده و در نتیجه اطلاعات زیادی از آنان جمع‌آوری و برای سرورهای روسی ارسال شد. طبق گزارش CrowdStrike

^{۱۹} Mikheil Saakashvili



علاوه بر جاسوسی از این بدافزار برای نابودی بیش از ۸۰٪ تجهیزات D-30 Howitzers استفاده شد و این حمله کاملاً موفق بود. هر چند ارتش اوکراین مدعی است که خسارات از آنچه گزارش شده است، بسیار کمتر است ولی مایل به اعلام تعداد تجهیزات خسارت‌دیده نیست.

هدف دیگر حملات نقض سیستم‌های توزیع‌شده‌ای بود که در جریان انتخابات ریاست‌جمهوری اوکراین صورت گرفت.

آلمان ۲۰۱۵

سال ۲۰۱۵، یکی از مقامات ارشد امنیتی آلمان اظهار داشت که بسیار محتمل است که فایل‌های سرقتی از پارلمان آلمان پیرامون جاسوسی NSA از این کشور توسط همکاری روسی به دست WikiLeaks رسیده باشد و از این رو مقامات آلمان در کنار آمریکا بایستی نگران جاسوسی روسیه نیز باشند.

ایالات متحده آمریکا ۲۰۱۵

آوریل ۲۰۱۵، آژانس خبری CNN گزارشی از هکرهای روسی منتشر کرد که به بخش‌های حساس اطلاعاتی کاخ سفید نفوذ کرده‌اند. به گزارش CNN، آژانس‌های اطلاعاتی ایالات متحده، FBI و ... این حمله را «شاخص‌ترین حمله سایبری علیه سیستم‌های دولتی آمریکا بوده است».

ایالات متحده آمریکا ۲۰۱۶

فوریه ۲۰۱۶، مشاور ارشد و مقام سایبری روسیه آندره کروسکیک^{۲۰} در کنفرانس امنیت ملی روسیه در موسکو گفت که روسیه روی استراتژی جدیدی در «حوزه اطلاعات» کار می‌کند که معادل آزمایش بمب هسته‌ای است. و به ما اجازه می‌دهد با آمریکا در این حوزه برابری کنیم.

در همین سال انتشار ایمیل‌های هک‌شده کمیته ملی دموکرات آمریکا توسط WikiLeaks، DCLeaks خبرساز شد. تحلیل‌گران بخش خصوصی و آژانس‌های اطلاعاتی بر سر این که منشا افشای اطلاعات روسیه بوده است، اتفاق نظر داشتند. همچنین دسامبر ۲۰۱۶، جمهوری خواهان و دموکرات‌ها از سنا درخواست کردن تا کمیته ویژه‌ای برای بررسی احتمال نفوذ روسیه در انتخابات ریاست‌جمهوری تشکیل دهد.

انگلستان ۲۰۱۶

در جریان فراندوم انگلستان برای خروج از اتحادیه اروپا (برگزیت^{۲۱})، نخست‌وزیر وقت دیوید کمرون گفته بود که روسیه شاید از رأی مثبت برگزیت «خوش‌حال» شود. دسامبر ۲۰۱۶، بن بردشا^{۲۲} در پارلمان مدعی شد که روسیه در فراندوم برگزیت دخالت داشته است. وی در فوریه از سرویس اطلاعاتی بریتانیایی خواست تا اطلاعات لازم برای امکان این دخالت را بدست آورند. در آوریل ۲۰۱۷ گزارشی در این زمینه منتشر شد که در آن گفته شد که وب‌سایت ثبت رأی زمانی که کمتر از دو ساعت به پایان فراندوم وقت باقی مانده از

^{۲۰} Andrey Krutskikh

^{۲۱} Brexit

^{۲۲} Ben Bradshaw

دسترس خارج و دچار مشکل بوده است. طبق گزارش حمله از نوع نقض سرویس توزیع شده بوده ولی هیچ سند محکمی از دخالت روسیه در این حمله وجود نداشت.

ایالات متحده آمریکا ۲۰۱۸

تیم واکنش اضطراری کامپیوتر آپا CERT آمریکا هشدارهایی را در زمینه نفوذ چندمرحله‌ای سایبری دولت روسیه منتشر کرد. نفوذی که در آن شرکت‌ها و موسسات تجاری کوچک هدف حمله به عنوان حلقه ضعیف امنیت بودند. هدف غایی این حملات دسترسی از راه دور به شبکه‌های انرژی، تجهیزات تصفیه آب، حمل و نقل هوایی و تأسیسات دولتی ایالات متحده بود.

ایران ۲۰۱۹

اکتبر ۲۰۱۹، هکرها روسی برای حمله به سازمان‌های دولتی و صنایع دهها کشور از ماسک یک گروه تهدید ایرانی استفاده کردند. طبق گزارشی که مقامات امنیتی بریتانیا و ایالات متحده آمریکا منتشر کردند؛ گروه تهدید روسی Turla با پشتیبانی سرویس امنیتی FSB، در طول ۱۸ ماه برای حمله به سازمان‌های دست‌کم ۱۰ کشور از ابزارهای گروه هکری ایرانی موسوم به APT34 و زیرساخت‌های اطلاعاتی ایرانی استفاده می‌کردند. یکی از مقامات ارشد اژانس اطلاعات GCHQ در این زمینه گفت: «با ارائه این گزارش می‌خواهیم پیام شفاف‌تری به تمام فعالان سایبری بدهیم: حتی اگر از ماسک مخفی کردن هویتشان استفاده کنند؛ ما آن‌ها را شناسایی خواهیم کرد».

گرجستان ۲۰۱۹

۲۸ اکتبر ۲۰۱۹ حملات سایبری سنگینی به وبسایت‌ها، سرورها و سایر زیرساخت‌های فناوری اطلاعات گرجستان صورت گرفت. به گفته سخنگوی وزارت امور خارجه این کشور، نتیجه این حملات، آسیب قابل ملاحظه‌ای به سرورها و سیستم‌های عامل سازمان‌های دولتی گرجستان بود. برای مثال بیش از ۱۵ هزار وبسایت دولتی، خصوصی و رسانه‌ای با تصویر رئیس‌جمهور سابق این کشور به همراه جمله «باز خواهیم گشت»، دیفیس شده بودند.



در ادامه این گزارش مهم‌ترین گروه‌های تهدید و هکری روسیه که بعضاً توسط دولت این کشور پشتیبانی می‌شوند، معرفی شده‌اند.



۴. مهم‌ترین گروه‌های تهدید و هکری روسی

ابزارهای مورد استفاده	بازه زمانی فعالیت	نام(های) گروه
ATI-Agent CloudDuke Cobalt Strike CosmicDuke CozyDuke CozyCar GeminiDuke HammerDuke HAMMERTOSS meek Mimikatz MiniDuke OnionDuke PinchDuke POSHSPY PowerDuke SeaDaddy SeaDuke tDiscoverer	۲۰۱۳-۲۰۱۷	APT 29 Cozy Bear The Dukes Group 100 Yttrium Iron Hemlock Minidionis CloudLook Grizzly Steppe [together with Sofacy, APT 28, Fancy Bear, Sednit]
Bitsadmin Goodor Impacket Karagany Phisherly	۲۰۱۵-۲۰۱۷	Berserk Bear Dragonfly 2.0 Dymalloy
AmmyyRAT Buhtrap Niteris EK NSIS Patopak	۲۰۱۴-۲۰۱۷	Buhtrap
AmmyyRAT ATMSpitter ATMRipper Cobalt Strike CobInt Cyst Downloader Mimikatz Metasploit Stager More_eggs SDelete, SoftPerfect Network Scanner SpicyOmelette	۲۰۱۶-۲۰۱۸	Cobalt Group Cobalt Gang Cobalt Spider Gold Kingswood
Commix CrashOverride	۲۰۱۳-۲۰۱۷	Energetic Bear Dragonfly



Dirsearch Dorshel Havex RAT Hello Heriplor Impacket Industroyer Inveigh Karagany Lightsout Listrix Nmap Oldrea PHPMailer PSExec SMBTrap Sqlmap Subbrute Sublist3r Sysmain Wpscan WSO		Crouching Yeti Group 24 Koala Team Iron Liberty Electrum
Astra Bateleur Carbanak Cobalt Strike Griffon HALFBAKED POWERSQUIDS SQLRAT TEXTMATE	۲۰۱۷-اکنون	FIN7
FRAUDROP Gamaredon Pteranodon Resetter	۲۰۱۹-اکنون	Gamaredon Group
Inception Lastacloud many 0-day exploits	۲۰۱۲-۲۰۱۴	Inception Framework
Citadel Kronos Metasploit MoneyTaker Screenshotter	نامعلوم	MoneyTaker
BBSRAT Gh0st RAT	۲۰۱۵	Roaming Tiger



PlugX		
BlackEnergy Gcat PassKillDisk	۲۰۱۴-۲۰۱۵	Sandworm Team Iron Viking Voodoo Bear Quedagh EMP.Noble
ADVSTORESHELL Cannon Certutil CHOPSTICK Computrace CORESHELL DealersChoice Downdelph DownRange Dropper EVILTOSS Foozer Forfiles HIDEDRV JHUHUGIT Koadic Komplex LoJax Mimikatz OLDBAIT PocoDown Responder Sedkit Sednit Sedrelo Seduploader Sofacy SOURCEFACE SBStealer Winexe WinIDS X-Agent X-Agent for Android X-Agent OSX XTunnel Zebrocy	۲۰۱۱-اکنون	Sofacy APT 28 Fancy Bear Sednit Group 74 TG-4127 Pawn Storm Tsar Team Strontium Swallowtail SIG40 Snakemackerel Iron Twilight Grizzly Steppe [together with APT 29, Cozy Bear, The Dukes]
Malicious versions of TeamViewer and JAVA RATs	نامعلوم	TeamSpy Crew SIG39
Felixroot	۲۰۱۶-۲۰۱۷	TeleBots



GreyEnergy NotPetya TeleDoor		
Cryptcat HatMan Mimikatz NetExec PSEXec SecHack TRISIS TRITON Wii	۲۰۱۴-اکنون	TEMP.Veles Xenotime
RDP exposed AD	۲۰۱۹-اکنون	Fxmsp
BokBot Vawtrak	نامعلوم	Lunar Spider
GandCrab	۲۰۱۹-اکنون	Pinchy Spider
AdobeARM Agent.BTZ Agent.DNE ATI-Agent Cobra Carbon System ComRAT Empire Epic Gazer Gpresult HTML5 Encoding IcedCoffee Kazuar KopiLuvak LYPTON KSL0T NightNeuron Maintools.js Metasploit Mimikatz MiniDionis Mosquito Nautilus Nbtstat Neuron Outlook Backdoor Penguin Turla Pfinet	۱۹۹۶-اکنون	Turla Waterbug Venomous Bear Group 88 SIG23 Iron Hunter Pacifier APT



Popeye Pwddump Skipper Snake Systeminfo Tasklist Tavdig Turla Uroburoswe WhiteAtlas WhiteBear Wipbot WITCHCOVEN WRAITH		
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APA-IUTICERT



۵. گستره آدرس های IP روسیه

تحت مالکیت	تاریخ تخصیص	مجموع	آدرس پایان	آدرس شروع
PJSC Rostelecom	08/10/2010	262144	2.63.75.255	2.60.0.0
PJSC "Vimpelcom"	21/05/2010	262144	2.95.255.255	2.92.0.0
UGMK-Telecom LLC	27/04/2012	8192	5.2.63.255	5.2.32.0
JSC "ER-Telecom Holding"	27/04/2012	65536	5.3.255.255	5.3.0.0
Petersburg Internet Network Ltd.	25/04/2012	4096	5.8.15.255	5.8.0.0
Petersburg Internet Network Ltd.	25/04/2012	4096	5.8.63.255	5.8.48.0
Petersburg Internet Network Ltd.	25/04/2012	4096	5.8.95.255	5.8.80.0
CJSC "Matrix Mobile"	26/04/2012	4096	5.8.175.255	5.8.160.0
Closed Joint Stock Company TransTeleCom	26/04/2012	8192	5.8.223.255	5.8.192.0
MTS PJSC	26/04/2012	4096	5.8.239.255	5.8.224.0
TIS Dialog LLC	02/05/2012	4096	5.11.79.255	5.11.64.0
JSC "ER-Telecom Holding"	27/04/2012	262144	5.19.255.255	5.16.0.0
JSC AIST	08/05/2012	4096	5.28.31.255	5.28.16.0
OOO Trivon Networks	11/05/2012	32768	5.35.127.255	5.35.0.0
Limited Liability Company Irtelcom	14/05/2012	8192	5.35.159.255	5.35.128.0
CJSC Kolomna-Sviaz TV	16/05/2012	32768	5.42.127.255	5.42.0.0
Joint stock company "For"	21/05/2012	8192	5.43.159.255	5.43.128.0
Closed Joint Stock Company Radiotelephone	21/05/2012	4096	5.44.15.255	5.44.0.0
JSC "ER-Telecom Holding"	23/05/2012	4096	5.44.63.255	5.44.48.0
	24/05/2012	8192	5.45.95.255	5.45.64.0
YANDEX LLC	25/05/2012	16384	5.45.255.255	5.45.192.0
Metroset Ltd.	29/05/2012	4096	5.53.31.255	5.53.16.0
JSC "ER-Telecom Holding"	12/06/2012	8192	5.77.31.255	5.77.0.0
Intersvyaz-2 JSC	13/06/2012	32768	5.79.255.255	5.79.128.0
Vladivostokskaya Set LTD	25/06/2012	16384	5.100.127.255	5.100.64.0
Petersburg Internet Network Ltd.	26/06/2012	4096	5.101.47.255	5.101.32.0
Petersburg Internet Network Ltd.	26/06/2012	4096	5.101.95.255	5.101.80.0
Petersburg Internet Network Ltd.	26/06/2012	4096	5.101.223.255	5.101.208.0
LLC "Realnet"	26/06/2012	8192	5.101.255.255	5.101.224.0
Kompeatelecom Ltd.	28/06/2012	8192	5.104.63.255	5.104.32.0
Novotelecom Ltd	29/06/2012	262144	5.131.255.255	5.128.0.0
PJSC Rostelecom	03/07/2012	524288	5.143.255.255	5.136.0.0
MTS PJSC	11/07/2012	4096	5.144.79.255	5.144.64.0
MTS PJSC	11/07/2012	8192	5.144.127.255	5.144.96.0
Rostelecom Ltd	13/07/2012	16384	5.145.255.255	5.145.192.0
Lincom Ltd.	17/07/2012	4096	5.149.223.255	5.149.208.0
Pride Limited company	26/07/2012	8192	5.158.127.255	5.158.96.0
"Krasnoyarsk network" Ltd.	27/07/2012	4096	5.159.111.255	5.159.96.0
JSC "ER-Telecom Holding"	25/07/2012	262144	5.167.255.255	5.164.0.0
INSYS LLC	30/07/2012	8192	5.172.31.255	5.172.0.0
TVINGO Telecom Ltd.	02/08/2012	8192	5.175.127.255	5.175.96.0
KVANT-ELEKOM Closed Joint Stock Company	10/08/2012	8192	5.187.95.255	5.187.64.0
Petersburg Internet Network ltd.	09/08/2012	4096	5.188.63.255	5.188.48.0
Petersburg Internet Network ltd.	09/08/2012	4096	5.188.223.255	5.188.208.0
LLC "KomTehCentr"	09/08/2012	32768	5.189.127.255	5.189.0.0
OOO "Network of data-centers "Selectel"	09/08/2012	4096	5.189.239.255	5.189.224.0
Joint stock company "For"	28/08/2012	8192	5.199.223.255	5.199.192.0
Enterprise Cloud Ltd.	30/08/2012	8192	5.200.63.255	5.200.32.0



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Intersvyaz-2 JSC	03/09/2012	32768	5.206.127.255	5.206.0.0
MTS PJSC	07/09/2012	65536	5.227.255.255	5.227.0.0
PJSC Rostelecom	07/09/2012	65536	5.228.255.255	5.228.0.0
Limited liability company Kursktelecom	13/09/2012	8192	5.249.192.255	5.249.192.0
Closed Joint Stock Company TransTeleCom	14/09/2012	8192	5.254.224.255	5.254.224.0
YANDEX LLC	14/09/2012	16384	5.255.255.255	5.255.192.0
United Network LLC	24/07/2013	8192	23.105.255.255	23.105.224.0
United Network LLC	24/07/2013	8192	23.111.63.255	23.111.32.0
United Network LLC	24/07/2013	8192	23.111.127.255	23.111.96.0
United Network LLC	24/07/2013	8192	23.111.223.255	23.111.192.0
Kompeatelecom Ltd.	11/04/2011	8192	31.6.127.255	31.6.96.0
OOO "MediaSeti"	14/04/2011	4096	31.7.239.255	31.7.224.0
PJSC "Bashinformsvyaz"	12/04/2011	65536	31.8.255.255	31.8.0.0
JSC "AVIEL"	14/04/2011	16384	31.10.127.255	31.10.64.0
OJSC Comcor	18/04/2011	8192	31.13.63.255	31.13.32.0
MTS PJSC	20/04/2011	4096	31.15.95.255	31.15.80.0
PJSC Rostelecom	28/02/2011	65536	31.23.255.255	31.23.0.0
Filanco LLC	10/02/2011	8192	31.28.31.255	31.28.0.0
JSC AIST	21/02/2011	8192	31.28.63.255	31.28.32.0
INTERRA telecommunications group, Ltd.	25/02/2011	8192	31.28.127.255	31.28.96.0
PJSC Rostelecom	25/02/2011	8192	31.28.223.255	31.28.192.0
Lancom Ltd.	01/03/2011	8192	31.28.255.255	31.28.224.0
MTS PJSC	09/03/2011	32768	31.29.255.255	31.29.128.0
"Domain names registrar REG.RU", Ltd	21/03/2011	4096	31.31.207.255	31.31.192.0
	29/04/2011	8192	31.40.63.255	31.40.32.0
	29/04/2011	8192	31.40.95.255	31.40.64.0
MTS PJSC	05/05/2011	4096	31.40.127.255	31.40.112.0
	06/04/2011	16384	31.40.191.255	31.40.128.0
	11/03/2011	4096	31.42.47.255	31.42.32.0
	25/03/2011	4096	31.42.111.255	31.42.96.0
	23/02/2011	8192	31.42.223.255	31.42.192.0
	23/02/2011	8192	31.42.255.255	31.42.224.0
	01/03/2011	8192	31.43.223.255	31.43.192.0
Joint Stock Company "Tagnet"	22/02/2011	4096	31.44.15.255	31.44.0.0
JSC "ER-Telecom Holding"	24/02/2011	4096	31.44.63.255	31.44.48.0
JSC "Fasttel"	24/02/2011	4096	31.44.95.255	31.44.80.0
Petersburg Internet Network Ltd.	04/03/2011	4096	31.44.191.255	31.44.176.0
Joint-stock company Orient-Telecom	09/03/2011	4096	31.44.255.255	31.44.240.0
TXIP-IP Telecom Ltd.	22/03/2011	8192	31.47.159.255	31.47.128.0
Closed Joint Stock Company TransTeleCom	22/03/2011	8192	31.47.191.255	31.47.160.0
	02/03/2011	8192	31.128.63.255	31.128.32.0
	03/03/2011	8192	31.128.159.255	31.128.128.0
	11/03/2011	8192	31.128.223.255	31.128.192.0
Quasar LLC	15/03/2011	8192	31.129.31.255	31.129.0.0
Quasar LLC	16/03/2011	8192	31.129.63.255	31.129.32.0
	22/03/2011	4096	31.129.111.255	31.129.96.0
	23/03/2011	8192	31.129.159.255	31.129.128.0
	31/03/2011	8192	31.129.223.255	31.129.192.0
	01/04/2011	8192	31.130.31.255	31.130.0.0
	04/04/2011	8192	31.130.63.255	31.130.32.0
	05/04/2011	8192	31.130.95.255	31.130.64.0
	02/05/2011	8192	31.130.159.255	31.130.128.0



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	07/06/2011	4096	31.131.159.255	31.131.144.0
	09/06/2011	8192	31.131.223.255	31.131.192.0
	16/06/2011	8192	31.132.127.255	31.132.96.0
	17/06/2011	16384	31.132.191.255	31.132.128.0
	20/06/2011	4096	31.132.239.255	31.132.208.0
JSC "ER-Telecom Holding"	21/06/2011	4096	31.132.239.255	31.132.224.0
	11/09/2012	4096	31.132.255.255	31.132.240.0
Level-MSK Ltd.	15/04/2011	4096	31.133.63.255	31.133.48.0
	12/05/2011	8192	31.133.255.255	31.133.224.0
	31/03/2011	4096	31.134.15.255	31.134.0.0
	05/04/2011	4096	31.134.31.255	31.134.16.0
	12/04/2011	4096	31.134.47.255	31.134.32.0
	12/05/2011	16384	31.134.191.255	31.134.128.0
	18/05/2011	8192	31.134.255.255	31.134.224.0
	22/06/2011	8192	31.135.63.255	31.135.32.0
	24/06/2011	8192	31.135.95.255	31.135.64.0
	27/06/2011	8192	31.135.127.255	31.135.96.0
	07/08/2011	4096	31.135.239.255	31.135.224.0
PJSC Rostelecom	17/02/2011	131072	31.163.255.255	31.162.0.0
PJSC Rostelecom	05/04/2011	8192	31.172.223.255	31.172.192.0
PJSC MegaFon	05/04/2011	65536	31.173.255.255	31.173.0.0
JSC "RU-CENTER"	11/03/2011	8192	31.177.95.255	31.177.64.0
PJSC Rostelecom	24/03/2011	131072	31.181.255.255	31.180.0.0
Petersburg Internet Network Ltd.	04/03/2011	4096	31.184.207.255	31.184.192.0
OOO "Network of data-centers "Selectel"	04/03/2011	4096	31.184.223.255	31.184.208.0
LLC "VISTlink"	23/03/2011	4096	31.186.79.255	31.186.64.0
MTS PJSC	24/03/2011	8192	31.186.159.255	31.186.128.0
TIS Dialog LLC	21/04/2011	8192	31.192.159.255	31.192.128.0
PJSC Rostelecom	21/04/2011	8192	31.192.191.255	31.192.160.0
Quantum CJSC	29/04/2011	4096	31.200.207.255	31.200.192.0
Natalia Sergeevna Filicheva	29/04/2011	4096	31.200.239.255	31.200.224.0
Netcity O.O.O.	29/04/2011	16384	31.204.63.255	31.204.0.0
PJSC Rostelecom	29/04/2011	4096	31.204.111.255	31.204.96.0
Ltd "Maxima"	02/05/2011	8192	31.204.191.255	31.204.160.0
Intersvyaz-2 JSC	02/05/2011	32768	31.207.255.255	31.207.128.0
KVANT-TELEKOM Closed Joint Stock Company	05/05/2011	8192	31.210.223.255	31.210.192.0
New Tel systems, Ltd.	05/05/2011	32768	31.211.127.255	31.211.0.0
Closed Joint Stock Company SibTransTelecom	10/05/2011	4096	31.216.175.255	31.216.160.0
Regional Digital Communication Company	12/05/2011	8192	31.220.191.255	31.220.160.0
Rjal Com JSC	09/12/2011	16384	37.1.63.255	37.1.0.0
PJSC Rostelecom	09/12/2011	4096	37.1.79.255	37.1.64.0
INTERREGional Telecommunications group, Ltd.	12/12/2011	4096	37.1.143.255	37.1.128.0
Vladivostokskaya Set LTD	13/12/2011	4096	37.8.159.255	37.8.144.0
OOO "Network of data-centers "Selectel"	14/12/2011	4096	37.9.15.255	37.9.0.0
YANDEX LLC	14/12/2011	16384	37.9.127.255	37.9.64.0
JSC AIST	14/12/2011	4096	37.9.159.255	37.9.144.0
PJSC Rostelecom	21/12/2011	8192	37.19.63.255	37.19.32.0
PJSC Rostelecom	21/12/2011	262144	37.23.255.255	37.20.0.0
PJSC MegaFon	30/12/2011	8192	37.28.191.255	37.28.160.0
PJSC MegaFon	30/12/2011	32768	37.29.127.255	37.29.0.0
Closed Joint Stock Company TransTeleCom	25/01/2012	8192	37.49.191.255	37.49.160.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	26/01/2012	8192	37.49.223.255	37.49.192.0



تحت مالکیت	تاریخ تخصیص	مجموع	آدرس پایان	آدرس شروع
TIS Dialog LLC	19/01/2012	4096	37.60.223.255	37.60.208.0
MTS PJSC	26/01/2012	8192	37.72.95.255	37.72.64.0
PJSC Rostelecom	31/01/2012	16384	37.76.191.255	37.76.128.0
PJSC Rostelecom	31/01/2012	131072	37.79.155.255	37.78.0.0
Closed Joint Stock Company TransTeleCom	06/02/2012	8192	37.98.155.255	37.98.160.0
LLC "KomTehCentr"	08/02/2012	4096	37.98.255.255	37.98.240.0
PJSC Rostelecom	08/02/2012	32768	37.110.127.255	37.110.0.0
PJSC Rostelecom	08/02/2012	8192	37.110.159.255	37.110.128.0
Closed Joint Stock Company Oskolnet	09/02/2012	4096	37.110.239.255	37.110.224.0
JSC "ER-Telecom Holding"	09/02/2012	131072	37.113.255.255	37.112.0.0
Closed Joint Stock Company TransTeleCom	10/02/2012	4096	37.114.31.255	37.114.16.0
PJSC "Bashinformsvyaz"	14/02/2012	32768	37.122.127.255	37.122.0.0
INTERRA telecommunications group, Ltd.	23/02/2012	8192	37.131.223.255	37.131.192.0
Petersburg Internet Network ltd.	24/02/2012	4096	37.139.47.255	37.139.32.0
Lancom Ltd.	27/02/2012	4096	37.139.111.255	37.139.96.0
OJSC RITC	29/02/2012	16384	37.139.255.255	37.139.192.0
Intersvyaz-2 JSC	29/02/2012	32768	37.140.127.255	37.140.0.0
YANDEX LLC	29/02/2012	16384	37.140.191.255	37.140.128.0
JSC "Severen-Telecom"	01/03/2012	4096	37.143.31.255	37.143.16.0
Metroset Ltd.	02/03/2012	4096	37.143.111.255	37.143.96.0
PJSC "Vimpelcom"	03/03/2012	262144	37.147.255.255	37.144.0.0
SETI WEBA LTD	13/03/2012	16384	37.153.63.255	37.153.0.0
Limited liability company Kursktelecom	20/03/2012	16384	37.188.63.255	37.188.0.0
OJS Moscow city telephone network	20/03/2012	32768	37.190.127.255	37.190.0.0
Novotelecom Ltd	21/03/2012	262144	37.195.255.255	37.192.0.0
PJSC Rostelecom	27/03/2012	65536	37.204.255.255	37.204.0.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	28/03/2012	8192	37.205.95.255	37.205.64.0
OJSC Svyazinform	29/03/2012	4096	37.208.79.255	37.208.64.0
Closed Joint Stock Company TransTeleCom	02/04/2012	4096	37.209.239.255	37.209.224.0
South Ural State University	05/04/2012	4096	37.220.191.255	37.220.176.0
Net By Net Holding LLC	12/04/2012	32768	37.232.255.255	37.232.128.0
LANTA Ltd.	16/04/2012	32768	37.235.255.255	37.235.128.0
JSC "ER-Telecom Holding"	10/08/2010	65536	46.0.255.255	46.0.0.0
Dom Tehnik Ltd	13/08/2010	65536	46.3.255.255	46.3.0.0
	07/09/2010	65536	46.8.255.255	46.8.0.0
Closed Joint Stock Company TransTeleCom	23/09/2010	4096	46.20.79.255	46.20.64.0
MTS PJSC	05/10/2010	4096	46.20.191.255	46.20.176.0
FN Telecom Ltd.	02/11/2010	4096	46.21.79.255	46.21.64.0
RECON Operator Svyazi, LLC	23/11/2010	4096	46.22.63.255	46.22.48.0
Signal Service LLC	01/12/2010	4096	46.22.255.255	46.22.240.0
DIANET Ltd.	08/12/2010	4096	46.23.159.255	46.23.144.0
MTS PJSC	09/12/2010	4096	46.23.191.255	46.23.176.0
Information Network, LLC	13/08/2010	8192	46.32.95.255	46.32.64.0
Lancom Ltd.	22/10/2010	8192	46.35.255.255	46.35.224.0
Joint stock company "For"	22/10/2010	8192	46.36.31.255	46.36.0.0
Vladivostokskaya Set LTD	17/11/2010	8192	46.37.159.255	46.37.128.0
Closed Joint Stock Company TransTeleCom	22/11/2010	8192	46.38.31.255	46.38.0.0
LLC "TC TEL CENTER"	24/11/2010	8192	46.38.63.255	46.38.32.0
OAO "ASVT"	24/11/2010	8192	46.38.127.255	46.38.96.0
Dancer LLC	10/12/2010	8192	46.39.31.255	46.39.0.0
OJSC Comcor	13/12/2010	8192	46.39.63.255	46.39.32.0
Iskratelecom CJSC	28/12/2010	8192	46.39.255.255	46.39.224.0



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PJSC Rostelecom	26/07/2010	16384	46.41.127.255	46.41.64.0
OJSC Kostroma Municipal Telephone Network	04/08/2010	16384	46.42.63.255	46.42.0.0
PJSC "Vimpelcom"	05/08/2010	16384	46.42.191.255	46.42.128.0
Limited Company "SiNT"	18/08/2010	16384	46.43.195.255	46.43.192.0
LLC "TRC FIORD"	18/08/2010	16384	46.44.63.255	46.44.0.0
Vega-Service, LLC	02/09/2010	16384	46.45.63.255	46.45.0.0
PJSC Rostelecom	16/09/2010	16384	46.45.255.255	46.45.192.0
Ussuri-Teleservice Ltd.	20/09/2010	16384	46.46.63.255	46.46.0.0
JSC "RetnNet"	24/09/2010	16384	46.46.191.255	46.46.128.0
Multifunctional Telecommunications Systems LTD	07/10/2010	16384	46.47.63.255	46.47.0.0
PJSC MegaFon	26/10/2010	16384	46.47.255.255	46.47.192.0
LLC "KomTehCentr"	22/06/2010	32768	46.48.127.255	46.48.0.0
PJSC Rostelecom	25/06/2010	32768	46.48.255.255	46.48.128.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	16/07/2010	32768	46.50.255.255	46.50.128.0
JSC "ER-Telecom Holding"	16/08/2010	16384	46.52.191.255	46.52.128.0
JSC "ER-Telecom Holding"	16/08/2010	8192	46.52.223.255	46.52.192.0
PJSC Rostelecom	16/08/2010	4096	46.52.239.255	46.52.224.0
JSC "ER-Telecom Holding"	16/08/2010	4096	46.52.255.255	46.52.240.0
PJSC Rostelecom	22/10/2010	32768	46.61.127.255	46.61.0.0
PJSC Rostelecom	27/10/2010	32768	46.61.255.255	46.61.128.0
Limited liability company Kursktelecom	27/10/2010	32768	46.62.127.255	46.62.0.0
PJSC Rostelecom	02/11/2010	32768	46.63.255.255	46.63.128.0
Net By Net Holding LLC	22/07/2010	131072	46.73.255.255	46.72.0.0
LLC Orange Business Services	27/07/2010	65536	46.111.255.255	46.111.0.0
OJS Moscow city telephone network	18/11/2010	65536	46.138.255.255	46.138.0.0
JSC "ER-Telecom Holding"	13/10/2010	131072	46.147.255.255	46.146.0.0
	03/11/2010	4096	46.148.63.255	46.148.48.0
	10/11/2010	4096	46.148.111.255	46.148.96.0
	11/11/2010	4096	46.148.143.255	46.148.128.0
	23/11/2010	4096	46.148.191.255	46.148.176.0
	25/11/2010	4096	46.148.207.255	46.148.192.0
	30/11/2010	4096	46.148.223.255	46.148.208.0
	06/12/2010	4096	46.148.239.255	46.148.224.0
MTS PJSC	06/12/2010	4096	46.148.255.255	46.148.240.0
	09/12/2010	4096	46.149.47.255	46.149.32.0
	20/12/2010	4096	46.149.79.255	46.149.64.0
	27/12/2010	4096	46.149.143.255	46.149.128.0
	13/01/2011	4096	46.149.239.255	46.149.224.0
	08/11/2010	8192	46.150.159.255	46.150.128.0
	15/11/2010	8192	46.150.191.255	46.150.160.0
	23/11/2010	8192	46.150.255.255	46.150.224.0
PJSC Rostelecom	17/11/2010	131072	46.159.255.255	46.158.0.0
Closed Joint Stock Company TransTeleCom	27/10/2010	16384	46.160.63.255	46.160.0.0
UGMK-Telecom LLC	12/11/2010	16384	46.160.191.255	46.160.128.0
Computers and Peripherals Ltd.	15/11/2010	16384	46.160.255.255	46.160.192.0
Petersburg Internet Network ltd.	16/11/2010	8192	46.161.31.255	46.161.0.0
New Telesystems, Ltd.	19/11/2010	16384	46.161.191.255	46.161.128.0
INSYS LLC	02/12/2010	16384	46.163.191.255	46.163.128.0
IC-VORONEZH	09/12/2010	16384	46.164.255.255	46.164.192.0
Nizhnetagilskie Kompyuternye Seti LLC	10/12/2010	16384	46.165.63.255	46.165.0.0
Closed Joint Stock Company SibTransTelecom	16/12/2010	16384	46.166.127.255	46.166.64.0
Limited Company Information and Consulting Agency	17/12/2010	16384	46.166.255.255	46.166.192.0



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Maginfo CJSC	20/12/2010	16384	46.167.127.255	46.167.64.0
MTS PJSC	04/02/2011	16384	46.172.63.255	46.172.0.0
	09/12/2010	4096	46.172.111.255	46.172.96.0
	09/12/2010	4096	46.172.127.255	46.172.112.0
	23/12/2010	8192	46.172.157.255	46.172.160.0
	20/01/2011	8192	46.173.31.255	46.173.0.0
	28/01/2011	8192	46.173.63.255	46.173.32.0
	24/01/2011	4096	46.173.191.255	46.173.176.0
	07/02/2011	4096	46.173.223.255	46.173.208.0
	14/02/2011	4096	46.175.223.255	46.175.208.0
E-Light-Telecom Ltd.	08/12/2010	13107	46.181.255.255	46.180.0.0
Net By Net Holding LLC	18/11/2010	32768	46.187.127.255	46.187.0.0
2COM Co Ltd.	24/11/2010	32768	46.188.127.255	46.188.0.0
OJSC "Ufanet"	15/12/2010	32768	46.191.255.255	46.191.128.0
JSC "Severen-Telecom"	02/02/2011	4096	46.228.15.255	46.228.0.0
PJSC Rostelecom	04/02/2011	4096	46.228.79.255	46.228.64.0
OJSC Kostroma Municipal Telephone Network	04/02/2011	4096	46.228.111.255	46.228.96.0
JSC Meganet	04/02/2011	4096	46.228.127.255	46.228.112.0
JSC Avantel	14/02/2011	4096	46.229.79.255	46.229.64.0
PJSC Rostelecom	15/02/2011	4096	46.229.111.255	46.229.96.0
PJSC MegaFon	17/02/2011	4096	46.229.143.255	46.229.128.0
Yarnet Ltd	18/02/2011	4096	46.229.191.255	46.229.176.0
Dom Tehniki Ltd	09/02/2011	32768	46.232.127.255	46.232.0.0
Omskie kabelnye seti Ltd.	01/03/2011	16384	46.233.255.255	46.233.192.0
JSC "ER-Telecom Holding"	21/12/2010	16384	46.236.191.255	46.236.128.0
PJSC Rostelecom	14/01/2011	16384	46.237.63.255	46.237.0.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	23/12/2010	32768	46.241.127.255	46.241.0.0
PJSC Rostelecom	23/12/2010	32768	46.242.127.255	46.242.0.0
Rial Com JSC	28/12/2010	8192	46.249.31.255	46.249.0.0
PJSC "Vimpelcom"	24/01/2011	8192	46.250.63.255	46.250.32.0
MTS PJSC	25/01/2011	8192	46.250.95.255	46.250.64.0
LLC "Dream Industry"	28/01/2011	8192	46.250.159.255	46.250.128.0
PJSC "Vimpelcom"	03/02/2011	8192	46.251.95.255	46.251.64.0
JSC "ER-Telecom Holding"	21/12/2010	4096	46.252.127.255	46.252.112.0
PJSC Rostelecom	22/12/2010	4096	46.252.175.255	46.252.160.0
JSC "Severen-Telecom"	29/12/2010	4096	46.252.255.255	46.252.240.0
MTS PJSC	19/04/2001	32768	62.5.255.255	62.5.128.0
MTS PJSC	25/11/2004	8192	62.16.63.255	62.16.32.0
Net By Net Holding LLC	27/06/2001	8192	62.16.127.255	62.16.96.0
Closed Joint Stock Company TransTeleCom	26/08/2002	65536	62.33.255.255	62.33.0.0
Federal State Budgetary Institution of Science "Space Research Institute of the Russian Academy of Sciences".	06/07/2000	8192	62.61.31.255	62.61.0.0
ArtX LLC	03/06/2005	16384	62.63.127.255	62.63.64.0
PJSC MegaFon	29/04/1997	8192	62.64.31.255	62.64.0.0
JSC "ER-Telecom Holding"	31/05/2006	8192	62.68.159.255	62.68.128.0
Kraft-S LLC	06/07/2000	8192	62.69.31.255	62.69.0.0
	16/06/1997	4096	62.76.15.255	62.76.0.0
	16/06/1997	4096	62.76.47.255	62.76.32.0
	16/06/1997	4096	62.76.143.255	62.76.128.0
	16/06/1997	8192	62.76.191.255	62.76.160.0
	16/06/1997	8192	62.76.223.255	62.76.192.0



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	16/06/1997	4096	62.76.239.255	62.76.224.0
Limited Liability Company WELLCOM-L	15/12/2009	8192	62.78.63.255	62.78.32.0
	18/02/2009	4096	62.78.95.255	62.78.80.0
Contact Company, Ltd	24/08/2001	8192	62.84.107.255	62.84.96.0
PJSC MegaFon	15/03/2002	16384	62.89.255.255	62.89.192.0
PJSC Rostelecom	29/09/2004	8192	62.105.31.255	62.105.0.0
OKB-TELECOM OJSC	04/12/2002	8192	62.105.63.255	62.105.32.0
PJSC "Vimpelcom"	27/07/2000	8192	62.105.159.255	62.105.128.0
JSC AIST	28/02/2007	8192	62.106.127.255	62.106.96.0
JSC IOT	26/09/2008	8192	62.109.31.255	62.109.0.0
PJSC Rostelecom	01/03/2002	8192	62.109.191.255	62.109.160.0
OJS Moscow city telephone network	17/12/2002	8192	62.112.127.255	62.112.96.0
SFT Company	24/12/2002	8192	62.113.63.255	62.113.32.0
Zenon N.S.P.	16/08/2000	16384	62.113.127.255	62.113.64.0
OJSC Comcor	26/10/2001	16384	62.117.127.255	62.117.64.0
MTS PJSC	11/09/2000	65536	62.118.255.255	62.118.0.0
PJSC "Bashinformsvyaz"	03/02/2003	8192	62.133.191.255	62.133.160.0
LLC "TRC FIORD"	07/04/2003	8192	62.140.255.255	62.140.224.0
PJSC "Vimpelcom"	11/09/2001	16384	62.141.127.255	62.141.64.0
JOINT-STOCK COMPANY WORLD TRADE CENTER MOSCOW	10/02/2006	8192	62.148.31.255	62.148.0.0
PJSC Rostelecom	26/06/2000	8192	62.148.159.255	62.148.128.0
PJSC Rostelecom	16/01/2003	8192	62.148.255.255	62.148.224.0
Filanco LLC	25/02/2008	8192	62.152.63.255	62.152.32.0
MTS PJSC	19/06/2000	8192	62.152.95.255	62.152.64.0
T2 Mobile LLC	14/12/2009	8192	62.152.223.255	62.152.192.0
PJSC Rostelecom	26/05/2008	8192	62.165.31.255	62.165.0.0
Closed Joint Stock Company TransTeleCom	07/02/2003	8192	62.165.63.255	62.165.32.0
MTS PJSC	26/02/2003	8192	62.168.255.255	62.168.224.0
Internet-Cosmos LLC	07/02/2007	8192	62.173.159.255	62.173.128.0
Rial Com JSC	20/10/2006	8192	62.176.31.255	62.176.0.0
ZAO "InT"	14/04/2003	8192	62.177.63.255	62.177.32.0
PJSC Rostelecom	09/12/2002	32768	62.183.127.255	62.183.0.0
Limited Liability Company HyperNet	24/12/2007	8192	62.192.63.255	62.192.32.0
Arkhangelsk Television Company Ltd	24/04/2003	8192	62.192.255.255	62.192.224.0
PJSC "Vimpelcom"	28/03/2002	8192	62.205.191.255	62.205.160.0
PJSC Rostelecom	18/07/2000	8192	62.213.31.255	62.213.0.0
ISKRA R&D Corporation	15/05/2003	8192	62.213.63.255	62.213.32.0
Int. Mobile LLC	10/04/2002	8192	62.217.191.255	62.217.160.0
MTS PJSC	16/10/2008	8192	62.220.63.255	62.220.32.0
PJSC "Vimpelcom"	19/07/2000	8192	62.231.31.255	62.231.0.0
Regional Digital Telecommunication Company	23/05/2003	8192	62.231.191.255	62.231.160.0
CJSC Ural WES	01/10/2009	8192	62.245.63.255	62.245.32.0
Closed Joint Stock Company TransTeleCom	14/02/2011	8192	62.249.159.255	62.249.128.0
PJSC Rostelecom	24/01/2007	131072	77.35.255.255	77.34.0.0
PJSC Rostelecom	21/03/2007	32768	77.37.255.255	77.37.128.0
PJSC Rostelecom	23/03/2007	32768	77.39.127.255	77.39.0.0
PJSC Rostelecom	20/11/2006	32768	77.40.127.255	77.40.0.0
"Central Telegraph" Public Joint-stock Company	28/11/2006	32768	77.41.127.255	77.41.0.0
PJSC "Vimpelcom"	01/12/2006	32768	77.41.255.255	77.41.128.0
MTS PJSC	08/12/2006	32768	77.43.255.255	77.43.128.0
PJSC Rostelecom	22/12/2006	32768	77.45.255.255	77.45.128.0



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MEGASVYAZ LLC	04/01/2007	65536	77.50.255.255	77.50.0.0
PJSC Rostelecom	12/01/2007	65536	77.51.255.255	77.51.0.0
MTS PJSC	25/01/2007	32768	77.66.255.255	77.66.128.0
OJSC "Ufanet"	13/03/2007	16384	77.79.127.255	77.79.128.0
PJSC Rostelecom	21/02/2007	65536	77.82.255.255	77.82.0.0
YANDEX LLC	15/03/2007	16384	77.88.63.255	77.88.0.0
Foton Telecom CJSC	25/04/2007	16384	77.91.127.255	77.91.64.0
MTS PJSC	22/02/2008	8192	77.93.127.255	77.93.96.0
SatGate LLC	24/05/2007	8192	77.94.63.255	77.94.32.0
PJSC "Bashinformsvyaz"	30/05/2007	8192	77.94.127.255	77.94.96.0
LLC "Nauka-Svyaz"	05/06/2007	8192	77.94.191.255	77.94.160.0
MTS PJSC	05/06/2007	8192	77.94.223.255	77.94.192.0
Plus Telecom LLC	06/12/2006	16384	77.105.191.255	77.105.128.0
PJSC Rostelecom	07/12/2006	16384	77.106.63.255	77.106.0.0
JSC "ER-Telecom Holding"	08/12/2006	16384	77.106.127.255	77.106.64.0
PJSC "Vimpelcom"	15/12/2006	16384	77.106.255.255	77.106.192.0
OJSC Comcor	17/03/2007	16384	77.108.127.255	77.108.64.0
MTS PJSC	17/01/2007	16384	77.108.255.255	77.108.192.0
Telecommunication Systems LLC	24/11/2006	8192	77.121.63.255	77.121.32.0
Telecommunication Systems LLC	24/11/2006	16384	77.123.255.255	77.123.192.0
MTS PJSC	17/03/2007	8192	77.220.63.255	77.220.32.0
OJSC Comcor	23/03/2007	8192	77.220.159.255	77.220.128.0
MnogoByte LLC	23/03/2007	8192	77.220.191.255	77.220.160.0
OOO "National Telecommunications"	30/03/2007	8192	77.221.159.255	77.221.128.0
Joint Stock Company Smartkom	30/03/2007	8192	77.221.223.255	77.221.192.0
JSC "RU-CENTER"	05/04/2007	8192	77.222.63.255	77.222.32.0
Intersvyaz-2 JSC	12/04/2007	8192	77.222.127.255	77.222.96.0
JSC "ER-Telecom Holding"	20/04/2007	8192	77.223.95.255	77.223.64.0
OOO "Network of data-centers "Selectel"	23/04/2007	8192	77.223.127.255	77.223.96.0
OJSC Comcor	06/12/2006	8192	77.232.31.255	77.232.0.0
KB Rubin Ltd.	14/12/2006	8192	77.232.159.255	77.232.128.0
"Yug-Link" Ltd.	19/12/2006	8192	77.233.31.255	77.233.0.0
PJSC MegaFon	22/12/2006	8192	77.233.191.255	77.233.160.0
MEGASVYAZ LLC	22/12/2006	8192	77.233.223.255	77.233.192.0
PJSC Rostelecom	29/12/2006	8192	77.234.31.255	77.234.0.0
Saint-Petersburg State University of Information Technologies, Mechanics and Optics	10/01/2007	8192	77.234.223.255	77.234.192.0
Quantum CJSC	22/01/2007	8192	77.235.223.255	77.235.192.0
Scientific Center of Chernogolovka of RAS	24/01/2007	8192	77.236.63.255	77.236.32.0
Ltd. "SPA" Impulse"	25/01/2007	8192	77.236.95.255	77.236.64.0
JSC "ER-Telecom Holding"	31/01/2007	8192	77.236.255.255	77.236.224.0
Intercon JSC	15/02/2007	8192	77.238.159.255	77.238.128.0
Tele.RU Ltd.	20/02/2007	8192	77.238.255.255	77.238.224.0
MTS PJSC	12/03/2007	8192	77.239.223.255	77.239.192.0
SatTel Corporation, Ltd.	12/03/2007	8192	77.239.255.255	77.239.224.0
PJSC "Vimpelcom"	19/01/2007	4096	77.240.159.255	77.240.144.0
Sibirskie Seti Ltd.	17/01/2007	4096	77.240.175.255	77.240.160.0
Limited liability company Kursktelecom	26/01/2007	4096	77.241.31.255	77.241.16.0
PJSC Rostelecom	30/01/2007	4096	77.241.47.255	77.241.32.0
ALEL Net	08/02/2007	4096	77.241.159.255	77.241.144.0
KVANT-TELEKOM Closed Joint Stock Company	16/02/2007	4096	77.241.255.255	77.241.240.0
"Russian company" LLC	28/02/2007	4096	77.242.111.255	77.242.96.0



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Sovtest-Internet Limited Company	06/03/2007	4096	77.243.15.255	77.243.0.0
MEGASVYAZ LLC	12/03/2007	4096	77.243.111.255	77.243.96.0
Joint-stock company Orient-Telecom	13/03/2007	4096	77.243.127.255	77.243.112.0
T2 Mobile LLC	20/03/2007	4096	77.243.155.255	77.243.240.0
JSC "ER-Telecom Holding"	21/03/2007	4096	77.244.155.255	77.244.16.0
MAXnet Systems Ltd.	23/03/2007	4096	77.244.79.255	77.244.64.0
T2 Mobile LLC	03/04/2007	4096	77.244.175.255	77.244.160.0
OOO "Network of data-centers "Selectel"	05/04/2007	4096	77.244.223.255	77.244.208.0
MTS PJSC	26/04/2007	4096	77.245.127.255	77.245.112.0
New Telesystems, Ltd.	27/04/2007	4096	77.245.175.255	77.245.160.0
PJSC "Vimpelcom"	02/05/2007	4096	77.245.207.255	77.245.192.0
"Region Svyaz Konsalt" LLC	04/05/2007	4096	77.245.223.255	77.245.208.0
CJSC Media Alliance	15/05/2007	4096	77.246.111.255	77.246.96.0
Wiland Ltd	30/05/2007	4096	77.246.239.255	77.246.224.0
Digit One LLC	05/06/2007	4096	77.247.143.255	77.247.128.0
JSC "ER-Telecom Holding"	05/06/2007	4096	77.247.175.255	77.247.160.0
PJSC MegaFon	30/06/2007	16384	78.25.127.255	78.25.64.0
CJSC Kolomna-Sviaz TV	28/08/2007	16384	78.25.191.255	78.25.128.0
Intersvyaz-2 JSC	20/09/2007	16384	78.29.63.255	78.29.0.0
PJSC Rostelecom	21/09/2007	16384	78.29.127.255	78.29.64.0
Lancom Ltd.	11/04/2008	16384	78.30.255.255	78.30.192.0
PJSC Rostelecom	16/03/2007	131072	78.37.255.255	78.36.0.0
PJSC Rostelecom	27/03/2007	65536	78.81.255.255	78.81.0.0
PJSC Rostelecom	19/04/2007	65536	78.85.255.255	78.85.0.0
PJSC "Vimpelcom"	06/06/2007	131072	78.107.255.255	78.106.0.0
MTS PJSC	14/06/2007	4096	78.108.79.255	78.108.64.0
Majordomo llc	15/06/2007	4096	78.108.95.255	78.108.80.0
LLC "TC TEL CENTER"	26/06/2007	4096	78.108.207.255	78.108.192.0
MTS PJSC	04/07/2007	4096	78.109.47.255	78.109.32.0
PJSC MegaFon	09/07/2007	4096	78.109.127.255	78.109.112.0
DIANET Ltd.	11/07/2007	4096	78.109.143.255	78.109.128.0
ZAO "Hosting Telecenters"	06/08/2007	4096	78.110.63.255	78.110.48.0
Limited Liability Company Irtelcom	14/08/2007	4096	78.110.159.255	78.110.144.0
PJSC "Vimpelcom"	22/08/2007	4096	78.110.255.255	78.110.240.0
Prometey LLC	06/09/2007	4096	78.111.95.255	78.111.80.0
MTS PJSC	17/09/2007	4096	78.111.159.255	78.111.144.0
TVINGO Telecom Ltd.	28/09/2007	4096	78.111.255.255	78.111.240.0
PJSC Rostelecom	05/06/2007	32768	78.132.255.255	78.132.128.0
JSC "ER-Telecom Holding"	14/05/2007	4096	78.136.223.255	78.136.208.0
BKS+ Ltd.	14/05/2007	4096	78.136.239.255	78.136.224.0
OJSC "OAO TATTELECOM"	11/06/2007	16384	78.138.191.255	78.138.128.0
Closed Joint-Stock Company Radiotelephone	15/06/2007	16384	78.139.127.255	78.139.64.0
JSC "ER-Telecom Holding"	21/06/2007	16384	78.139.255.255	78.139.192.0
Limited Company Information and Consulting Agency	26/06/2007	16384	78.140.63.255	78.140.0.0
Prometey LLC	05/07/2007	16384	78.140.255.255	78.140.192.0
MTS PJSC	26/06/2007	8192	78.153.31.255	78.153.0.0
LLC Balttelecom	01/08/2007	8192	78.155.191.255	78.155.160.0
OOO "Network of data-centers "Selectel"	02/08/2007	4096	78.155.207.255	78.155.192.0
PJSC Rostelecom	22/08/2007	8192	78.156.255.255	78.156.224.0
Tomkevich Andrey Vladimirovich Individual businessman	31/08/2007	8192	78.157.255.255	78.157.224.0
PJSC "Vimpelcom"	20/09/2007	8192	78.159.255.255	78.159.224.0



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PJSC "Vimpelcom"	20/11/2007	65536	79.104.255.255	79.104.0.0
PJSC Rostelecom	21/11/2007	65536	79.105.255.255	79.105.0.0
	06/05/2008	4096	79.110.79.255	79.110.64.0
	07/07/2008	4096	79.110.75.255	79.110.240.0
Net By Net Holding LLC	15/02/2008	65536	79.111.223.255	79.111.0.0
Net By Net Holding LLC	05/07/2007	32768	79.120.127.255	79.120.0.0
JSC "ER-Telecom Holding"	26/07/2007	32768	79.122.255.255	79.122.128.0
PJSC Rostelecom	06/09/2007	32768	79.126.127.255	79.126.0.0
Closed Joint Stock Company TransTeleCom	27/09/2007	8192	79.132.127.255	79.132.96.0
PJSC Rostelecom	08/10/2007	8192	79.133.95.255	79.133.64.0
Transit Telecom LLC	10/10/2007	8192	79.133.127.255	79.133.96.0
PJSC Rostelecom	12/10/2007	8192	79.133.159.255	79.133.128.0
SOT LINE Limited Company	12/10/2007	8192	79.133.191.255	79.133.160.0
Maginfo CJSC	17/10/2007	8192	79.134.31.255	79.134.0.0
Digit One LLC	19/10/2007	8192	79.134.95.255	79.134.64.0
CJSC Ural WES	30/10/2007	8192	79.135.95.255	79.135.64.0
LLC "Econotel"	14/11/2007	8192	79.135.255.255	79.135.224.0
JSC "ER-Telecom Holding"	17/10/2007	32768	79.136.255.255	79.136.128.0
LLC Digital Network	18/10/2007	8192	79.137.159.255	79.137.128.0
LLC Digital Network	18/10/2007	4096	79.137.191.255	79.137.176.0
LLC Digital Network	18/10/2007	8192	79.137.223.255	79.137.192.0
LLC Digital Network	18/10/2007	4096	79.137.239.255	79.137.224.0
OJS Moscow city telephone network	01/11/2007	32768	79.139.255.255	79.139.128.0
OJSC "Ufanet"	04/10/2007	4096	79.140.31.255	79.140.16.0
PJSC "Vimpelcom"	05/10/2007	4096	79.140.79.255	79.140.64.0
Closed Joint Stock Company TransTeleCom	08/10/2007	4096	79.140.111.255	79.140.96.0
JSC Pursvyaz	12/10/2007	4096	79.140.255.255	79.140.240.0
JSC "ER-Telecom Holding"	18/10/2007	4096	79.141.63.255	79.141.48.0
OOO "Network of data-centers "Selectel"	18/10/2007	4096	79.141.79.255	79.141.64.0
CJSC RASCOM	26/10/2007	4096	79.141.223.255	79.141.208.0
QIWI JSC	29/10/2007	4096	79.142.31.255	79.142.16.0
"OBIT" Ltd	30/10/2007	4096	79.142.95.255	79.142.80.0
iHome LLC	01/11/2007	4096	79.142.111.255	79.142.96.0
CJSC Ural WES	13/11/2007	4096	79.142.175.255	79.142.160.0
OJS Moscow city telephone network	20/11/2007	4096	79.143.15.255	79.143.0.0
MTS PJSC	28/11/2007	4096	79.143.239.255	79.143.224.0
"Central Telegraph" Public Joint-stock Company	25/07/2007	131072	79.165.255.255	79.164.0.0
CJSC Ural WES	27/09/2007	4096	79.172.15.255	79.172.0.0
CJSC Ural WES	27/09/2007	8192	79.172.63.255	79.172.32.0
Iskratelecom CJSC	17/10/2007	16384	79.172.127.255	79.172.64.0
OOO "IT-Region"	25/10/2007	16384	79.173.127.255	79.173.64.0
	28/04/2008	8192	79.174.63.255	79.174.32.0
	06/06/2008	8192	79.174.95.255	79.174.64.0
Quantum CJSC	09/11/2007	16384	79.175.63.255	79.175.0.0
Joint Stock Company "Tagnet"	13/01/2004	4096	80.64.31.255	80.64.16.0
CJSC RASCOM	09/05/2001	4096	80.64.111.255	80.64.96.0
Sibirskie Seti Ltd.	19/08/2008	4096	80.64.175.255	80.64.160.0
"Orion telecom" Ltd.	18/03/2004	4096	80.65.31.255	80.65.16.0
Alexander Valerevich Mokhonko	16/05/2001	4096	80.66.79.255	80.66.64.0
PJSC Rostelecom	07/06/2004	4096	80.66.159.255	80.66.144.0
Limited Company "Intermedia"	13/07/2004	4096	80.67.63.255	80.67.48.0
Norilsk-Telecom JSC	20/07/2004	4096	80.67.223.255	80.67.208.0



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CJSC EngiNet	21/07/2004	4096	80.67.255.255	80.67.240.0
PJSC Rostelecom	23/05/2001	4096	80.68.15.255	80.68.0.0
Net By Net Holding LLC	11/02/2010	4096	80.68.79.255	80.68.64.0
	12/06/2001	4096	80.68.155.255	80.68.240.0
T2 Mobile LLC	06/12/2004	4096	80.69.150.255	80.69.144.0
JSC Avantel	07/12/2004	4096	80.69.191.255	80.69.176.0
MTS PJSC	21/12/2004	4096	80.70.111.255	80.70.96.0
JSC "ER-Telecom Holding"	05/06/2001	4096	80.70.239.255	80.70.224.0
MTS PJSC	07/06/2001	4096	80.71.175.255	80.71.160.0
MTS PJSC	08/06/2004	4096	80.71.191.255	80.71.176.0
PJSC Rostelecom	10/01/2005	4096	80.71.223.255	80.71.208.0
Rial Com JSC	18/01/2005	4096	80.71.255.255	80.71.240.0
JSC Web Media Services	24/01/2005	4096	80.72.31.255	80.72.16.0
JSC Telephone Company "Sotcom"	24/01/2005	4096	80.72.127.255	80.72.112.0
JSC Tomskkosmossviaz	31/01/2005	4096	80.72.223.255	80.72.208.0
Closed Joint Stock Company TransTeleCom	14/06/2001	4096	80.72.239.255	80.72.224.0
CTSPI Company	01/02/2005	4096	80.73.31.255	80.73.16.0
PJSC Rostelecom	17/06/2001	4096	80.73.79.255	80.73.64.0
PJSC Rostelecom	28/05/2002	4096	80.73.95.255	80.73.80.0
ArtX LLC	18/06/2001	4096	80.73.175.255	80.73.160.0
Smart Telecom Limited	13/06/2001	4096	80.73.207.255	80.73.192.0
PJSC MegaFon	14/02/2005	4096	80.75.95.255	80.75.80.0
Multiregional Transit Telecom	20/06/2001	4096	80.75.143.255	80.75.128.0
"Garastel" Limited Liability Company	21/09/2010	4096	80.76.111.255	80.76.96.0
OOO Scientific-Production Center "Tetra"	24/02/2005	4096	80.76.143.255	80.76.128.0
"Resurs-Svyaz" Ltd	01/03/2005	4096	80.76.191.255	80.76.176.0
First Telecom Ltd	21/12/2005	4096	80.76.239.255	80.76.224.0
Closed Joint Stock Company TransTeleCom	11/02/2011	4096	80.76.255.255	80.76.240.0
LLC "TRC FIORD"	07/04/2009	4096	80.77.175.255	80.77.160.0
Closed Joint Stock Company TransTeleCom	04/07/2001	4096	80.78.111.255	80.78.96.0
Closed Joint Stock Company TransTeleCom	04/04/2002	4096	80.78.127.255	80.78.112.0
Tula State University	05/07/2001	4096	80.78.207.255	80.78.192.0
"Domain names registrar REG.RU", Ltd	07/05/2010	4096	80.78.255.255	80.78.240.0
CJSC Settelecom	22/03/2005	4096	80.79.191.255	80.79.176.0
Smart Telecom Limited	24/03/2005	4096	80.79.255.255	80.79.240.0
MTS PJSC	17/07/2001	4096	80.80.111.255	80.80.96.0
MTS PJSC	06/08/2001	4096	80.80.127.255	80.80.112.0
MTS PJSC	15/10/2008	4096	80.80.207.255	80.80.192.0
Sat Ltd.	05/04/2005	4096	80.81.223.255	80.81.208.0
PJSC Rostelecom	25/07/2001	4096	80.82.47.255	80.82.32.0
PJSC Rostelecom	03/09/2002	4096	80.82.63.255	80.82.48.0
JSC "ER-Telecom Holding"	08/04/2005	4096	80.82.95.255	80.82.80.0
Closed Joint Stock Company TransTeleCom	27/07/2001	4096	80.82.175.255	80.82.160.0
Closed Joint Stock Company TransTeleCom	06/09/2001	4096	80.82.191.255	80.82.176.0
Regional Digital Telecommunication Company	04/06/2008	4096	80.83.207.255	80.83.192.0
MTS PJSC	06/08/2001	4096	80.83.239.255	80.83.224.0
JSC "ER-Telecom Holding"	21/04/2005	4096	80.83.255.255	80.83.240.0
Flex Ltd.	25/04/2005	4096	80.84.127.255	80.84.112.0
PJSC "Vimpelcom"	04/05/2005	4096	80.85.191.255	80.85.176.0
CJSC Media Alliance	12/02/2010	4096	80.85.255.255	80.85.240.0
LLC "Energoberegaiuschie proekty iuga"	22/04/2008	4096	80.87.111.255	80.87.96.0
"C.S.T". Ltd.	19/05/2005	4096	80.87.159.255	80.87.144.0



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PJSC Rostelecom	25/05/2005	4096	80.88.63.255	80.88.48.0
OOO RTK-Primorye	29/08/2001	4096	80.89.15.255	80.89.0.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	30/08/2001	4096	80.89.143.255	80.89.128.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	02/10/2001	4096	80.89.149.255	80.89.144.0
Sibirskie Seti Ltd.	08/12/2008	4096	80.89.200.255	80.89.192.0
Moscow Communication Center of Energy RAO EES of Russia	06/09/2001	4096	80.90.79.255	80.90.64.0
Net By Net Holding LLC	03/06/2005	4096	80.90.127.255	80.90.112.0
Company Delfa Co. Ltd.	03/06/2005	4096	80.90.191.255	80.90.176.0
Cronyx Plus Ltd.	25/05/2009	4096	80.90.255.255	80.90.240.0
"Russian company" LLC	08/06/2005	4096	80.91.31.255	80.91.16.0
Krasnoyarsk PTUS	18/09/2001	4096	80.91.207.255	80.91.192.0
Closed Joint Stock Company TransTeleCom	19/09/2001	4096	80.92.15.255	80.92.0.0
Closed Joint Stock Company TransTeleCom	31/07/2002	4096	80.92.31.255	80.92.16.0
Airlines Aeroflot	19/09/2001	4096	80.92.47.255	80.92.32.0
OJSC Comcor	16/09/2002	4096	80.92.111.255	80.92.96.0
Farpost Int.	24/08/2001	4096	80.92.175.255	80.92.160.0
JSC Web Media Services	24/09/2001	4096	80.92.207.255	80.92.192.0
MTS PJSC	28/06/2005	4096	80.92.223.255	80.92.208.0
JSC "RU-CENTER"	06/07/2005	4096	80.93.63.255	80.93.48.0
Ussuri-Teleservice Ltd.	27/04/2009	4096	80.93.111.255	80.93.96.0
OOO "Network of data-centers "Selectel"	21/07/2005	4096	80.93.191.255	80.93.176.0
PJSC Rostelecom	04/10/2001	4096	80.95.47.255	80.95.32.0
T2 Mobile LLC	18/02/2008	8192	80.115.223.255	80.115.192.0
PJSC Rostelecom	29/01/2008	32768	80.234.127.255	80.234.0.0
Closed Joint Stock Company TransTeleCom	12/11/2001	32768	80.237.127.255	80.237.0.0
Closed Joint Stock Company SibTransTelecom	10/10/2001	4096	80.240.47.255	80.240.32.0
"Yuzhniy TELECOM" ltd.	17/08/2005	4096	80.240.63.255	80.240.48.0
LLC RusTel	14/01/2003	4096	80.240.127.255	80.240.112.0
OJSC Comcor	24/08/2005	4096	80.240.223.255	80.240.208.0
PJSC Rostelecom	24/08/2005	4096	80.240.255.255	80.240.240.0
Limited Liability Company BANK	06/09/2005	4096	80.242.63.255	80.242.48.0
JSC "ER-Telecom Holding"	24/10/2001	4096	80.242.79.255	80.242.64.0
JSC "ER-Telecom Holding"	05/12/2002	4096	80.242.95.255	80.242.80.0
JS Company Compnet	29/10/2001	4096	80.243.15.255	80.243.0.0
PJSC "Impelcom"	29/10/2001	4096	80.243.79.255	80.243.64.0
Dom Tehniki Ltd	14/04/2010	4096	80.243.143.255	80.243.128.0
JSC "ER-Telecom Holding"	05/11/2001	4096	80.244.239.255	80.244.224.0
COM LLC	05/10/2005	4096	80.245.127.255	80.245.112.0
Kvant ltd.	11/10/2005	4096	80.245.255.255	80.245.240.0
PJSC Rostelecom	08/11/2001	4096	80.246.79.255	80.246.64.0
PJSC Rostelecom	15/06/2004	4096	80.246.95.255	80.246.80.0
OAONIISA	19/10/2005	4096	80.246.223.255	80.246.208.0
JSC "ER-Telecom Holding"	19/10/2005	4096	80.246.255.255	80.246.240.0
Federal State Unitary Enterprise Russian State Television and Radio Broadcasting Company	19/09/2002	4096	80.247.47.255	80.247.32.0
MTS PJSC	12/11/2001	4096	80.247.111.255	80.247.96.0
Gazsvyaz Ltd.	25/10/2005	4096	80.247.127.255	80.247.112.0
PJSC MegaFon	27/10/2005	4096	80.247.191.255	80.247.176.0
Tevia Ltd.	28/10/2005	4096	80.248.63.255	80.248.48.0
LLC SETEL	28/10/2005	4096	80.248.95.255	80.248.80.0
PJSC Rostelecom	03/11/2005	4096	80.248.159.255	80.248.144.0



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Smart Telecom Limited	09/11/2005	4096	80.249.191.255	80.249.176.0
Technology & Networks LLC	19/10/2010	4096	80.249.207.255	80.249.192.0
PJSC "Vimpelcom"	29/11/2001	4096	80.250.79.255	80.250.64.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	30/11/2001	4096	80.250.175.255	80.250.160.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	11/10/2002	4096	80.250.191.255	80.250.176.0
Wiland Ltd	11/11/2005	4096	80.250.223.255	80.250.208.0
ISP-company COMPLAT	04/12/2001	4096	80.250.239.255	80.250.224.0
Pride Limited company	15/11/2005	4096	80.251.63.255	80.251.48.0
KB Rubin Ltd.	17/11/2005	4096	80.251.127.255	80.251.112.0
SOTEL LLC	05/12/2001	4096	80.251.143.255	80.251.128.0
intersat Ltd.	18/11/2005	4096	80.251.159.255	80.251.144.0
Tele.RU Ltd.	20/02/2009	4096	80.251.239.255	80.251.224.0
CJSC Global Telecom Co	22/11/2005	4096	80.252.31.255	80.252.16.0
Flex Ltd.	10/12/2001	4096	80.252.143.255	80.252.128.0
Flex Ltd.	17/09/2004	4096	80.252.159.255	80.252.144.0
PJSC MegaFon	17/12/2001	4096	80.253.15.255	80.253.0.0
LLC SETEL	22/12/2005	4096	80.253.31.255	80.253.16.0
Sibirskie Seti Ltd.	14/12/2001	4096	80.253.239.255	80.253.224.0
Piter-telecom Ltd.	02/12/2005	4096	80.254.31.255	80.254.16.0
Theorema Telecom Limited	05/12/2005	4096	80.254.63.255	80.254.48.0
PJSC Rostelecom	17/12/2001	4096	80.254.111.255	80.254.96.0
PJSC Rostelecom	31/10/2003	4096	80.254.127.255	80.254.112.0
OJS Moscow city telephone network	13/12/2005	4096	80.255.31.255	80.255.16.0
Intersvyaz-2 JSC	14/12/2005	4096	80.255.95.255	80.255.80.0
PJSC "Vimpelcom"	28/12/2001	4096	80.255.143.255	80.255.128.0
PJSC "Vimpelcom"	20/05/2003	4096	80.255.159.255	80.255.144.0
MTS PJSC	16/12/2005	4096	80.255.191.255	80.255.176.0
CJSC Scientific-Production Association Progressive Technologies	04/08/2011	16384	81.1.191.255	81.1.128.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	27/02/2002	16384	81.1.255.255	81.1.192.0
PJSC Rostelecom	04/03/2002	16384	81.2.63.255	81.2.0.0
PJSC MegaFon	19/04/2002	16384	81.3.191.255	81.3.128.0
Closed Joint Stock Company TransTeleCom	15/05/2002	16384	81.4.255.255	81.4.192.0
Non state educational institution "Educational Scientific and Experimental Center of Moscow Institute of Physics and Technology"	22/05/2002	16384	81.5.127.255	81.5.64.0
PJSC "Vimpelcom"	23/01/2002	32768	81.9.127.255	81.9.0.0
JSC "CREDO-TELECOM"	25/06/2002	32768	81.13.127.255	81.13.0.0
PJSC Rostelecom	19/01/2005	4096	81.16.95.255	81.16.80.0
JSC "ER-Telecom Holding"	07/01/2002	4096	81.17.15.255	81.17.0.0
MEGASVYAZ LLC	06/10/2005	4096	81.17.159.255	81.17.144.0
T2 Mobile LLC	27/12/2005	4096	81.18.127.255	81.18.112.0
Closed Joint Stock Company TransTeleCom	17/01/2002	4096	81.18.143.255	81.18.128.0
Closed Joint Stock Company TransTeleCom	15/05/2002	4096	81.18.159.255	81.18.144.0
Rambler Internet Holding LLC	28/01/2002	4096	81.19.79.255	81.19.64.0
Rambler Internet Holding LLC	29/06/2005	4096	81.19.95.255	81.19.80.0



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Information & Computing Center, Ltd.	30/01/2002	4096	81.19.143.255	81.19.128.0
PJSC Rostelecom	01/02/2002	4096	81.20.111.255	81.20.96.0
PJSC Rostelecom	05/02/2002	4096	81.20.175.255	81.20.160.0
LLC Promsvyaz-Invest	05/02/2002	4096	81.20.107.255	81.20.192.0
Sprint Net Ltd.	20/02/2002	4096	81.22.111.255	81.22.0.0
Sakha-Belcom Ltd.	20/01/2006	4096	81.22.63.255	81.22.48.0
GARS Telecom - Telecommunications Management LLC	12/08/2010	4096	81.23.15.255	81.23.0.0
JSC "Severen-Telecom"	28/02/2002	4096	81.23.111.255	81.23.96.0
JSC "Severen-Telecom"	06/09/2004	4096	81.23.127.255	81.23.112.0
PJSC Rostelecom	14/02/2006	4096	81.23.159.255	81.23.144.0
MTS PJSC	28/01/2009	4096	81.23.175.255	81.23.160.0
Infoline Ltd.	16/02/2006	4096	81.23.191.255	81.23.176.0
TRANSFER Ltd.	14/05/2007	4096	81.23.207.255	81.23.192.0
Subnet LLC	21/02/2006	4096	81.24.95.255	81.24.80.0
JSC "Severen-Telecom"	21/02/2006	4096	81.24.127.255	81.24.112.0
PJSC MegaFon	15/02/2002	4096	81.24.143.255	81.24.128.0
NETIS Telecom Inc.	14/10/2000	4096	81.24.191.255	81.24.176.0
PJSC Rostelecom	20/03/2002	4096	81.25.15.255	81.25.0.0
Digit One LLC	27/02/2006	4096	81.25.63.255	81.25.48.0
T2 Mobile LLC	07/03/2006	4096	81.26.95.255	81.26.80.0
"Yuzhniy TELECOM" ltd.	20/02/2003	4096	81.26.143.255	81.26.128.0
OOO ComLine	03/03/2006	4096	81.26.191.255	81.26.176.0
PJSC Rostelecom	09/03/2006	4096	81.27.63.255	81.27.48.0
PJSC Rostelecom	09/03/2006	4096	81.27.159.255	81.27.144.0
CJSC RASCOM	16/03/2006	4096	81.27.255.255	81.27.240.0
Territorial Control Centre of Communications Ltd.	16/04/2002	4096	81.28.15.255	81.28.0.0
JSC AIST	22/04/2002	4096	81.28.175.255	81.28.160.0
JSC AIST	04/11/2002	4096	81.28.191.255	81.28.176.0
NPP Saturn Telecom Ltd.	20/03/2006	4096	81.28.223.255	81.28.208.0
TelecomService Ltd.	27/03/2006	4096	81.29.127.255	81.29.112.0
Closed Joint Stock Company TeleCom	31/03/2006	4096	81.30.63.255	81.30.48.0
"MIR-Telecom" LLC	04/04/2006	4096	81.30.127.255	81.30.112.0
OJSC "Ufanet"	06/12/2005	4096	81.30.191.255	81.30.176.0
OJSC "Ufanet"	22/05/2002	4096	81.30.207.255	81.30.192.0
OJSC "Ufanet"	12/05/2003	4096	81.30.223.255	81.30.208.0
OOO Mingo Telecom	10/04/2006	4096	81.88.95.255	81.88.80.0
OJSC Comcor	11/04/2006	4096	81.88.127.255	81.88.112.0
EXPÉME LTD	11/04/2006	4096	81.88.223.255	81.88.208.0
LLC "Gazprom telecom"	24/06/2002	4096	81.89.79.255	81.89.64.0
PJSC Rostelecom	27/02/2008	4096	81.89.127.255	81.89.112.0
Saint Petersburg State University	18/04/2006	4096	81.89.191.255	81.89.176.0
CJSC Netline	02/07/2002	4096	81.90.15.255	81.90.0.0
Limited Liability Company HyperNet	20/04/2006	4096	81.90.223.255	81.90.208.0
MTS PJSC	15/07/2002	4096	81.91.47.255	81.91.32.0
MTS PJSC	26/02/2003	4096	81.91.63.255	81.91.48.0
JSC "ER-Telecom Holding"	12/05/2006	4096	81.94.31.255	81.94.16.0
Telecommunication agency "Alpha" Ltd.	09/08/2002	4096	81.94.47.255	81.94.32.0
OOO WestCall Ltd.	15/08/2002	4096	81.94.143.255	81.94.128.0
OOO WestCall Ltd.	26/07/2004	4096	81.94.159.255	81.94.144.0
MT-Telecom LLC	19/05/2006	4096	81.95.31.255	81.95.16.0



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Scientific-Production Enterprise Business Sviaz Holding LLC	29/08/2002	4096	81.95.47.255	81.95.32.0
Avantel, Close Joint Stock Company	05/09/2002	4096	81.95.143.255	81.95.128.0
Artecom Ltd	31/05/2006	4096	81.95.203.255	81.95.208.0
	12/07/2012	4096	81.161.16.255	81.161.16.0
	13/07/2012	4096	81.161.47.255	81.161.32.0
	18/06/2009	4096	81.161.223.255	81.161.208.0
	30/11/2011	4096	81.162.15.255	81.162.0.0
	30/11/2011	4096	81.162.47.255	81.162.32.0
	23/08/2011	4096	81.163.31.255	81.163.16.0
	23/08/2011	8192	81.163.63.255	81.163.32.0
	29/08/2011	4096	81.163.111.255	81.163.96.0
	01/09/2011	8192	81.163.159.255	81.163.128.0
	01/09/2011	8192	81.163.191.255	81.163.160.0
	09/09/2011	4096	81.163.239.255	81.163.224.0
	09/09/2011	4096	81.163.255.255	81.163.240.0
JSC RTComm.RU	15/01/2003	65536	81.176.255.255	81.176.0.0
JSC RTComm.RU	15/01/2003	8192	81.177.31.255	81.177.0.0
JSC RTComm.RU	15/01/2003	4096	81.177.47.255	81.177.32.0
JSC RTComm.RU	15/01/2003	4096	81.177.95.255	81.177.80.0
PJSC Rostelecom	15/01/2003	8192	81.177.127.255	81.177.96.0
JSC RTComm.RU	15/01/2003	8192	81.177.159.255	81.177.128.0
JSC RTComm.RU	15/01/2003	4096	81.177.175.255	81.177.160.0
OOO SET	15/01/2003	4096	81.177.207.255	81.177.192.0
"StoTelecom" Ltd.	15/01/2003	4096	81.177.223.255	81.177.208.0
OOO SET	15/01/2003	4096	81.177.239.255	81.177.224.0
OOO SET	15/01/2003	4096	81.177.255.255	81.177.240.0
MTS PJSC	14/08/2002	65536	81.195.255.255	81.195.0.0
Iskratelecom CJSC	23/09/2002	4096	81.200.15.255	81.200.0.0
Iskratelecom CJSC	12/07/2005	4096	81.200.31.255	81.200.16.0
Center of Children Telemedicin and new information technologis	06/06/2006	4096	81.200.95.255	81.200.80.0
Joint Stock Company Artemovskoye Interaktivnoe Televideniye	08/06/2006	4096	81.200.159.255	81.200.144.0
"Region Svyaz Kolsalt" LLC	14/06/2006	4096	81.200.223.255	81.200.208.0
Zolotaya Linia Ltd.	19/06/2006	4096	81.200.255.255	81.200.240.0
MTS PJSC	19/06/2006	4096	81.201.31.255	81.201.16.0
Artecom Ltd	10/10/2002	4096	81.201.79.255	81.201.64.0
MTS PJSC	23/06/2006	4096	81.201.255.255	81.201.240.0
PJSC "Vimpelcom"	04/11/2002	32768	81.211.127.255	81.211.0.0
PJSC "Vimpelcom"	28/11/2002	65536	81.222.255.255	81.222.0.0
MTS PJSC	25/11/2003	16384	82.96.255.255	82.96.192.0
JSC SATIS-TL-94	21/11/2003	8192	82.112.31.255	82.112.0.0
Joint stock company "For"	26/03/2010	8192	82.112.63.255	82.112.32.0
STEC.COM LLC	17/12/2003	8192	82.114.31.255	82.114.0.0
JSC "ER-Telecom Holding"	22/12/2003	8192	82.114.127.255	82.114.96.0
Joint Stock Company Gazprom Space Systems	23/12/2003	8192	82.114.159.255	82.114.128.0
"Saratov Digital Phone Network" ltd	30/01/2008	8192	82.114.255.255	82.114.224.0
PJSC "Vimpelcom"	20/01/2004	8192	82.116.31.255	82.116.0.0
RENET COM Ltd.	20/01/2004	8192	82.116.63.255	82.116.32.0
JSC Avantel	05/02/2004	8192	82.117.95.255	82.117.64.0
New Telesystems, Ltd.	10/02/2004	8192	82.117.191.255	82.117.160.0



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	13/02/2004	8192	82.118.159.255	82.118.128.0
PJSC Rostelecom	17/02/2004	8192	82.119.159.255	82.119.128.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	10/07/2003	16384	82.137.191.255	82.137.128.0
OJSC Comcor	11/07/2003	16384	82.138.63.255	82.138.0.0
PJSC MegaFon	05/08/2003	16384	82.140.127.255	82.140.64.0
PJSC Rostelecom	29/12/2009	16384	82.140.255.255	82.140.192.0
PJSC "Vimpelcom"	09/09/2003	16384	82.142.191.255	82.142.128.0
"Intelecom" LLC	02/06/2003	8192	82.144.95.255	82.144.64.0
JSC IOT	18/06/2003	8192	82.146.63.255	82.146.32.0
Siberian Telecommunications Ltd.	26/02/2004	8192	82.147.95.255	82.147.64.0
JSC "ER-Telecom Holding"	04/07/2003	8192	82.147.127.255	82.147.96.0
OOO "Network of data-centers "Selectel"	10/07/2003	4096	82.148.31.255	82.148.16.0
Net By Net Holding LLC	07/08/2003	8192	82.149.159.255	82.149.128.0
PJSC Rostelecom	13/07/2003	8192	82.149.223.255	82.149.192.0
PJSC Rostelecom	08/09/2003	8192	82.151.127.255	82.151.96.0
INSYS LLC	23/09/2009	8192	82.151.223.255	82.151.192.0
PJSC Rostelecom	16/07/2003	65536	82.162.255.255	82.162.0.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	09/09/2003	65536	82.179.255.255	82.179.0.0
CJSC Ural WES	08/10/2003	8192	82.193.159.255	82.193.128.0
JSC Vostoktelecom	20/10/2003	8192	82.194.191.255	82.194.160.0
Scientific-Production Enterprise Business Support Holding LLC	20/10/2003	8192	82.194.255.255	82.194.224.0
PJSC "Vimpelcom"	21/10/2003	8192	82.195.31.255	82.195.0.0
PJSC MegaFon	29/10/2003	8192	82.196.95.255	82.196.64.0
JSC "RT Labs"	31/10/2003	8192	82.196.159.255	82.196.128.0
SatGate LLC	14/11/2003	8192	82.198.31.255	82.198.0.0
JSC "Globus-Telecom"	18/11/2003	8192	82.198.191.255	82.198.160.0
Iskratelecom CJSC	01/12/2003	8192	82.199.127.255	82.199.96.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	17/09/2003	32768	82.200.127.255	82.200.0.0
Site LLC	06/10/2003	8192	82.202.159.255	82.202.128.0
JSC "Server"	06/10/2003	4096	82.202.175.255	82.202.160.0
OOO "Network of data-centers "Selectel"	06/10/2003	16384	82.202.255.255	82.202.192.0
MTS PJSC	03/11/2003	32768	82.204.255.255	82.204.128.0
PJSC Rostelecom	18/09/2003	16384	82.208.127.255	82.208.64.0
MTS PJSC	29/09/2009	16384	82.209.127.255	82.209.64.0
SeaExpress Ltd.	06/05/2004	8192	83.68.63.255	83.68.32.0
Closed Joint Stock Company TransTeleCom	21/05/2004	8192	83.69.31.255	83.69.0.0
Closed Joint Stock Company TransTeleCom	26/05/2004	8192	83.69.95.255	83.69.64.0
PJSC "Vimpelcom"	26/05/2004	8192	83.69.127.255	83.69.96.0
New-Com Trade Ltd.	24/10/2005	8192	83.69.191.255	83.69.160.0
JSC Mastertel	02/06/2004	8192	83.69.223.255	83.69.192.0
Filanco LLC	04/06/2004	8192	83.69.255.255	83.69.224.0
PJSC "Vimpelcom"	02/03/2004	32768	83.102.255.255	83.102.128.0
IC-VORONEZH	23/04/2009	16384	83.139.191.255	83.139.128.0
Closed Joint Stock Company TransTeleCom	06/02/2004	16384	83.146.127.255	83.146.64.0
PJSC MegaFon	09/03/2004	16384	83.149.63.255	83.149.0.0



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Federal State Institution "Federal Scientific Research Institute for System Analysis of the Russian Academy of Sciences"	16/03/2004	16384	83.149.255.255	83.149.192.0
	06/04/2004	4096	83.151.15.255	83.151.0.0
LLC Company NICOS	12/05/2010	8192	83.166.191.255	83.166.96.0
LLC Management Company "Svyaz"	11/06/2004	8192	83.166.255.255	83.166.224.0
INSYS LLC	14/06/2004	8192	83.167.31.255	83.167.0.0
JSC "ER-Telecom Holding"	16/06/2004	8192	83.167.95.255	83.167.64.0
OJSC Comcor	17/06/2004	8192	83.167.127.255	83.167.96.0
PJSC MegaFon	20/04/2004	16384	83.169.255.255	83.169.192.0
PJSC Rostelecom	22/04/2004	16384	83.171.127.255	83.171.64.0
JSC "ER-Telecom Holding"	22/04/2004	8192	83.172.31.255	83.172.0.0
JSC "ER-Telecom Holding"	22/04/2004	4096	83.172.47.255	83.172.32.0
PJSC "Bashinformsvyaz"	21/05/2004	16384	83.174.255.255	83.174.192.0
Ltd IPTelecom	02/03/2004	4096	83.217.15.255	83.217.0.0
T2 Mobile LLC	04/03/2004	8192	83.217.63.255	83.217.32.0
OOO Trivon Networks	10/03/2004	8192	83.217.223.255	83.217.192.0
PJSC Rostelecom	18/03/2004	8192	83.219.31.255	83.219.0.0
TIS Dialog LLC	23/03/2004	8192	83.219.159.255	83.219.128.0
JSC Oblcom	25/03/2004	8192	83.219.255.255	83.219.224.0
GARS Telecom - Telecommunications Management LLC	31/03/2004	8192	83.220.63.255	83.220.32.0
LLC Telecom-Service	02/04/2004	8192	83.220.95.255	83.220.64.0
Rial Com JSC	07/04/2004	4096	83.220.191.255	83.220.176.0
Public Joint Stock Company "Vimpel Communications"	07/04/2004	8192	83.220.255.255	83.220.224.0
Telecomservice Ltd	08/04/2004	8192	83.221.31.255	83.221.0.0
	15/04/2004	8192	83.221.191.255	83.221.160.0
PJSC Rostelecom	15/04/2004	8192	83.221.223.255	83.221.192.0
LLC "MASTERHOST"	21/04/2004	8192	83.222.31.255	83.222.0.0
Closed Joint Stock Company TransTeleCom	14/04/2009	8192	83.222.95.255	83.222.64.0
MnogoByte LLC	09/01/2009	8192	83.222.127.255	83.222.96.0
PJSC MegaFon	26/04/2004	8192	83.222.223.255	83.222.192.0
PJSC MegaFon	14/05/2004	32768	83.229.255.255	83.229.128.0
Closed Joint Stock Company TransTeleCom	09/02/2004	65536	83.234.255.255	83.234.0.0
MTS PJSC	12/02/2004	65536	83.237.255.255	83.237.0.0
PJSC Rostelecom	25/02/2004	65536	83.239.255.255	83.239.0.0
MTS PJSC	26/03/2004	32768	83.242.255.255	83.242.128.0
Closed Joint Stock Company TransTeleCom	23/04/2004	32768	83.246.255.255	83.246.128.0
Net By Net Holding LLC	14/07/2004	8192	84.16.159.255	84.16.128.0
MTS PJSC	22/07/2004	8192	84.17.31.255	84.17.0.0
MTS PJSC	04/08/2004	8192	84.17.255.255	84.17.224.0
OJSC "OAO TATTELECOM"	12/08/2004	8192	84.18.127.255	84.18.96.0
Digit One LLC	10/09/2004	8192	84.21.95.255	84.21.64.0
Netway ltd	20/09/2004	8192	84.21.255.255	84.21.224.0
IGRA-SERVICE LLC	22/09/2004	4096	84.22.159.255	84.22.144.0
JSC "ER-Telecom Holding"	05/10/2004	8192	84.22.223.255	84.22.192.0
Informational-measuring systems Ltd.	12/10/2004	8192	84.23.63.255	84.23.32.0
OOO "Network of data-centers "Selectel"	06/07/2010	4096	84.38.191.255	84.38.176.0
OJSC "Ufanet"	05/09/2012	4096	84.39.255.255	84.39.240.0
JSC "RT Labs"	10/09/2004	32768	84.42.127.255	84.42.0.0
	05/11/2007	16384	84.51.127.255	84.51.64.0



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PJSC Rostelecom	06/03/2008	8192	84.51.223.255	84.51.192.0
JSC "ER-Telecom Holding"	29/10/2004	16384	84.52.127.255	84.52.64.0
PJSC Rostelecom	05/11/2004	16384	84.53.255.255	84.53.192.0
PJSC Rostelecom	12/11/2004	16384	84.54.255.255	84.54.192.0
YANDEX LLC	10/02/2011	16384	84.201.127.255	84.201.128.0
JSC "ER-Telecom Holding"	17/02/2005	4096	84.201.255.255	84.201.240.0
PJSC MegaFon	09/06/2004	65536	84.204.255.255	84.204.0.0
Institute of Computational Technologies of SB RAS	28/06/2004	32768	84.237.127.255	84.237.0.0
Mobil-group ltd	23/06/2004	4096	84.242.31.255	84.242.16.0
PJSC Rostelecom	07/07/2004	16384	84.242.255.255	84.242.192.0
Irkutsk Business Net	04/05/2010	16384	84.244.63.255	84.244.0.0
LLC "MASTERHOST"	16/09/2004	16384	84.252.191.255	84.252.128.0
PJSC Rostelecom	16/09/2004	16384	84.253.127.255	84.253.64.0
PJSC "Vimpelcom"	19/10/2004	16384	84.254.255.255	84.254.192.0
INSYS LLC	01/10/2006	16384	85.12.255.255	85.12.192.0
Vostoktelecom Telephone Company Limited Liability Company	25/04/2005	16384	85.15.127.255	85.15.64.0
PJSC Rostelecom	26/04/2005	16384	85.15.191.255	85.15.128.0
PJSC "Vimpelcom"	18/03/2005	65536	85.21.255.255	85.21.0.0
PJSC MegaFon	10/03/2005	32768	85.26.255.255	85.26.128.0
Gorodskaya elektronnaya svyaz Ltd	27/04/2005	16384	85.28.63.255	85.28.0.0
PJSC Rostelecom	11/05/2005	16384	85.28.255.255	85.28.192.0
PJSC Rostelecom	31/05/2005	16384	85.30.255.255	85.30.192.0
PJSC Rostelecom	29/10/2004	8192	85.88.191.255	85.88.160.0
"UMOS CENTER" LLC	03/11/2004	8192	85.89.127.255	85.89.96.0
OOO Telecom TZ	09/11/2004	8192	85.90.127.255	85.90.96.0
CRELCOM LLC	30/11/2004	8192	85.91.223.255	85.91.192.0
T2 Mobile LLC	02/12/2004	8192	85.92.31.255	85.92.0.0
PJSC Rostelecom	07/12/2004	8192	85.93.63.255	85.93.32.0
Internet-Cosmos LLC	10/12/2004	8192	85.93.159.255	85.93.128.0
PJSC Rostelecom	21/12/2004	8192	85.94.31.255	85.94.0.0
MSN Telecom LLC	21/12/2004	8192	85.94.63.255	85.94.32.0
PortTelekom LLC	20/01/2005	8192	85.95.159.255	85.95.128.0
PJSC Rostelecom	20/01/2005	8192	85.95.191.255	85.95.160.0
PJSC Rostelecom	20/01/2005	8192	85.112.63.255	85.112.32.0
iHome LLC	28/01/2005	8192	85.112.127.255	85.112.96.0
JSC "ER-Telecom Holding"	08/02/2005	8192	85.113.63.255	85.113.32.0
Intercon JSC	11/02/2005	8192	85.113.159.255	85.113.128.0
PJSC Rostelecom	14/02/2005	8192	85.113.223.255	85.113.192.0
"OBIT" Ltd.	15/02/2004	8192	85.114.31.255	85.114.0.0
PJSC Rostelecom	17/02/2005	8192	85.114.95.255	85.114.64.0
JSC AIST	22/02/2005	8192	85.114.191.255	85.114.160.0
JSC "ER-Telecom Holding"	03/03/2005	8192	85.115.191.255	85.115.160.0
Public Joint Stock Company "Vimpel-Communications"	04/03/2005	8192	85.115.255.255	85.115.224.0
PJSC Rostelecom	09/03/2005	8192	85.116.127.255	85.116.96.0
MTS PJSC	18/03/2005	8192	85.117.95.255	85.117.64.0
MTS PJSC	13/12/2004	131072	85.141.255.255	85.140.0.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	17/12/2004	131072	85.143.255.255	85.142.0.0



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PJSC Rostelecom	22/12/2004	262144	85.175.255.255	85.172.0.0
LLC Digital Network	06/12/2004	8192	85.192.31.255	85.192.0.0
LLC Digital Network	06/12/2004	4096	85.192.63.255	85.192.48.0
PJSC Rostelecom	15/12/2004	16384	85.192.191.255	85.192.128.0
Master-Telecom	17/12/2004	16384	85.193.127.255	85.193.64.0
OOO "MediaSeti"	31/01/2005	16384	85.198.127.255	85.198.64.0
	25/05/2007	4096	85.202.15.255	85.202.0.0
	17/12/2007	4096	85.202.143.255	85.202.128.0
	16/01/2008	4096	85.202.191.255	85.202.176.0
	06/02/2008	4096	85.202.239.255	85.202.224.0
	20/02/2008	4096	85.202.255.255	85.202.240.0
LLC "Real-net"	12/04/2005	8192	85.232.127.255	85.232.96.0
Center of Information Technologies of Republic Tatarstan GUP	21/04/2005	4096	85.233.79.255	85.233.64.0
LLC Tatarstan-On-Line	21/04/2005	4096	85.233.95.255	85.233.80.0
PJSC Rostelecom	22/04/2005	8192	85.233.159.255	85.233.128.0
"Infolink" LLC	26/04/2005	8192	85.234.31.255	85.234.0.0
MTS PJSC	28/04/2005	8192	85.234.63.255	85.234.32.0
LLC "Svyaztranzit"	28/04/2005	8192	85.234.127.255	85.234.96.0
MTS PJSC	04/05/2005	8192	85.235.63.255	85.235.32.0
MTS PJSC	15/05/2005	8192	85.235.191.255	85.235.160.0
Prometey LLC	16/05/2005	8192	85.235.223.255	85.235.192.0
Avantel, Close Joint Stock Company	17/05/2005	8192	85.236.31.255	85.236.0.0
LLC SIP "NIS"	19/05/2005	8192	85.236.191.255	85.236.160.0
PJSC Rostelecom	24/05/2005	8192	85.237.63.255	85.237.32.0
Limited Liability Company "Grand-Telecom"	16/06/2005	8192	85.239.63.255	85.239.32.0
PJSC "Vimpelcom"	24/01/2005	65536	85.249.255.255	85.249.0.0
Cronyx Plus Ltd.	07/06/2005	16384	86.62.127.255	86.62.64.0
PJSC Rostelecom	01/06/2005	65536	86.102.255.255	86.102.0.0
PJSC MegaFon	11/07/2005	8192	86.109.223.255	86.109.192.0
Digit One LLC	12/07/2005	8192	86.110.31.255	86.110.0.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	14/07/2005	8192	86.110.127.255	86.110.96.0
Closed Joint Stock Company TransTeleCom	19/07/2005	8192	86.110.191.255	86.110.160.0
PJSC Rostelecom	29/07/2005	8192	86.111.31.255	86.111.0.0
	30/06/2011	4096	87.76.15.255	87.76.0.0
PJSC Rostelecom	20/10/2005	32768	87.103.255.255	87.103.128.0
PJSC Rostelecom	20/09/2005	16384	87.117.63.255	87.117.0.0
National Telecom, CJSC	28/09/2005	4096	87.117.143.255	87.117.128.0
PJSC Rostelecom	28/09/2005	8192	87.117.191.255	87.117.160.0
JSC Macomnet	05/10/2005	16384	87.118.255.255	87.118.192.0
PJSC Rostelecom	18/11/2005	8192	87.119.255.255	87.119.224.0
PJSC Rostelecom	14/06/2005	32768	87.224.255.255	87.224.128.0
PJSC Rostelecom	23/06/2005	32768	87.225.127.255	87.225.0.0
PJSC Rostelecom	28/06/2005	32768	87.226.255.255	87.226.128.0
OOO Trivon Networks	13/07/2005	32768	87.228.127.255	87.228.0.0
PJSC "Vimpelcom"	22/07/2005	32768	87.229.255.255	87.229.128.0
"Central Telegraph" Public Joint-stock Company	21/06/2005	16384	87.240.63.255	87.240.0.0
VKontakte Ltd	23/12/2009	16384	87.240.191.255	87.240.128.0
JSC "ER-Telecom Holding"	07/07/2005	16384	87.241.255.255	87.241.192.0



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LLC "MASTERHOST"	22/07/2005	16384	87.242.127.255	87.242.64.0
ZAO "Tele-Service Tula"	29/07/2005	8192	87.244.63.255	87.244.32.0
OJSC Comcor	24/08/2005	16384	87.245.191.255	87.245.128.0
SkyNet Ltd.	24/08/2005	8192	87.248.255.255	87.248.224.0
LLC "TC TEL CENTER"	24/08/2005	8192	87.249.255.255	87.249.0.0
United Networks Ltd.	25/08/2005	8192	87.249.63.255	87.249.32.0
Limited Liability Company Izet Telecom Ural	01/03/2010	8192	87.249.223.255	87.249.192.0
Izhevsk Network Technologies Ltd	02/09/2005	8192	87.249.255.255	87.249.224.0
OOO "NI"	02/09/2005	8192	87.250.31.255	87.250.0.0
Intertax LLC	07/09/2005	8192	87.250.223.255	87.250.192.0
YANDEX LLC	30/01/2006	8192	87.250.255.255	87.250.224.0
Alexander Valerevich Mokhonko	12/09/2005	4096	87.251.79.255	87.251.64.0
PJSC Rostelecom	12/09/2005	8192	87.251.127.255	87.251.96.0
CJSC Ural WES	13/09/2005	8192	87.251.191.255	87.251.160.0
PJSC Rostelecom	12/12/2007	8192	87.253.31.255	87.253.0.0
PJSC Rostelecom	07/10/2005	8192	87.253.223.255	87.253.192.0
PJSC "Vimpelcom"	20/10/2005	8192	87.254.159.255	87.254.128.0
BIG TELECOM JSC	07/11/2005	8192	87.255.31.255	87.255.0.0
INTERCOMTEL Limited Company	14/11/2005	8192	87.255.255.255	87.255.224.0
MTS PJSC	24/11/2005	8192	88.80.63.255	88.80.32.0
PJSC "Vimpelcom"	07/10/2009	8192	88.81.63.255	88.81.32.0
ZAO "InT"	14/12/2005	8192	88.81.223.255	88.81.192.0
PJSC "Vimpelcom"	16/12/2005	8192	88.82.95.255	88.82.64.0
Optilink Ltd	22/12/2005	8192	88.82.191.255	88.82.160.0
PJSC Rostelecom	11/01/2006	8192	88.83.223.255	88.83.192.0
Flex Ltd.	23/01/2006	8192	88.84.223.255	88.84.192.0
PJSC Rostelecom	08/02/2006	8192	88.85.191.255	88.85.160.0
JSC "ER-Telecom Holding"	13/02/2006	8192	88.85.223.255	88.85.192.0
Quantum CJSC	14/02/2006	8192	88.86.95.255	88.86.64.0
INSYS LLC	15/02/2006	8192	88.86.223.255	88.86.192.0
JSC "ER-Telecom Holding"	21/02/2006	8192	88.87.95.255	88.87.64.0
	11/11/2009	4096	88.135.15.255	88.135.0.0
	18/11/2009	4096	88.135.63.255	88.135.48.0
	23/11/2009	4096	88.135.95.255	88.135.80.0
	27/11/2009	4096	88.135.127.255	88.135.112.0
PJSC Rostelecom	11/01/2006	32768	88.147.255.255	88.147.128.0
PJSC Rostelecom	31/10/2005	32768	88.200.255.255	88.200.128.0
SkyNet Ltd.	08/11/2005	32768	88.201.255.255	88.201.128.0
JSC "ER-Telecom Holding"	25/11/2005	8192	88.204.31.255	88.204.0.0
JSC "ER-Telecom Holding"	25/11/2005	4096	88.204.63.255	88.204.48.0
JSC "ER-Telecom Holding"	25/11/2005	16384	88.204.127.255	88.204.64.0
PJSC Rostelecom	12/12/2005	32768	88.205.255.255	88.205.128.0
Intersvyaz-2 JSC	31/08/2011	32768	88.206.127.255	88.206.0.0
CityLanCom LTD	24/11/2005	16384	88.210.63.255	88.210.0.0
United Network LLC	16/12/2005	16384	88.212.255.255	88.212.192.0
PJSC Rostelecom	24/01/2006	16384	88.215.191.255	88.215.128.0
Svyaznoy Chain LLC	29/06/2006	8192	89.16.63.255	89.16.32.0
Closed Joint Stock Company TransTeleCom	06/07/2006	8192	89.16.127.255	89.16.96.0
WIPLINE, LLC	14/08/2006	8192	89.18.159.255	89.18.128.0
OJSC Comcor	24/08/2006	8192	89.19.191.255	89.19.160.0
Limited Liability Company VolgoGazTelecom	25/08/2006	8192	89.19.223.255	89.19.192.0
PJSC Rostelecom	29/08/2006	8192	89.20.31.255	89.20.0.0



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SDK Ltd.	29/08/2006	4096	89.20.47.255	89.20.32.0
PJSC Rostelecom	04/09/2006	8192	89.20.127.255	89.20.96.0
Net By Net Holding LLC	04/09/2006	8192	89.20.159.255	89.20.128.0
OOO Telecom TZ	20/09/2006	8192	89.21.159.255	89.21.128.0
	11/07/2011	4096	89.22.16.255	89.22.16.0
	11/07/2011	8192	89.22.159.255	89.22.128.0
LLC "Center Telecom"	14/07/2011	4096	89.22.239.255	89.22.224.0
	26/02/2010	8192	89.23.31.255	89.23.0.0
	12/03/2010	8192	89.23.63.255	89.23.32.0
	31/03/2010	8192	89.23.127.255	89.23.96.0
	31/03/2010	8192	89.23.159.255	89.23.128.0
	19/05/2010	8192	89.23.191.255	89.23.160.0
	19/05/2010	8192	89.23.223.255	89.23.192.0
JSC "RU-CENTER"	07/03/2006	8192	89.104.95.255	89.104.64.0
United Networks Ltd.	09/03/2006	8192	89.104.127.255	89.104.96.0
Sibirskaya set Ltd	16/03/2006	8192	89.105.159.255	89.105.128.0
"Domain names registrar REG.RU", Ltd	20/03/2006	16384	89.108.127.255	89.108.64.0
PJSC Rostelecom	27/03/2006	16384	89.109.63.255	89.109.0.0
PJSC Rostelecom	28/03/2006	16384	89.109.191.255	89.109.128.0
PJSC Rostelecom	30/03/2006	16384	89.109.255.255	89.109.192.0
PJSC Rostelecom	01/04/2006	16384	89.110.63.255	89.110.0.0
JSC "RU-CENTER"	26/04/2006	16384	89.111.191.255	89.111.128.0
PJSC "Vimpelcom"	10/04/2006	131072	89.113.255.255	89.112.0.0
Public joint-stock company "RUTELEKOM"	13/09/2011	8192	89.145.159.255	89.145.128.0
MTS PJSC	16/02/2006	16384	89.148.255.255	89.148.192.0
PJSC Rostelecom	18/04/2006	16384	89.151.191.255	89.151.128.0
Net By Net Holding LLC	16/02/2006	32768	89.163.127.255	89.163.0.0
OOO Trivon Networks	24/02/2006	65536	89.169.255.255	89.169.0.0
MTS PJSC	06/04/2006	65536	89.175.255.255	89.175.0.0
PJSC "Vimpelcom"	22/03/2006	131072	89.179.255.255	89.178.0.0
MELT limited liability company	23/03/2006	8192	89.184.31.255	89.184.0.0
PJSC Rostelecom	04/04/2006	8192	89.184.255.255	89.184.224.0
"Permtelcom" Ltd	06/04/2006	8192	89.185.95.255	89.185.64.0
Closed Joint Stock Company TransTeleCom	24/04/2006	8192	89.186.255.255	89.186.224.0
Filanco LLC	08/05/2006	8192	89.188.127.255	89.188.96.0
Scientific-Production Enterprise Business Sviaz Holding LLC	17/05/2006	8192	89.188.191.255	89.188.160.0
Sakhalin Telecom Ltd.	18/05/2006	8192	89.188.255.255	89.188.224.0
PJSC "Vimpelcom"	22/05/2006	8192	89.189.31.255	89.189.0.0
Limited Liability Company MVM Technology	05/01/2010	8192	89.189.127.255	89.189.96.0
PJSC "Ufanet"	24/05/2006	8192	89.189.159.255	89.189.128.0
Sibirskie Seti Ltd.	26/05/2006	8192	89.189.191.255	89.189.160.0
PJSC Rostelecom	14/06/2006	8192	89.190.255.255	89.190.224.0
Quasar LLC	22/06/2006	4096	89.191.239.255	89.191.224.0
PJSC "OAO TATTELECOM"	22/06/2006	4096	89.191.255.255	89.191.240.0
PJSC Rostelecom	03/05/2006	32768	89.204.127.255	89.204.0.0
LLC Digital Network	18/04/2006	4096	89.208.31.255	89.208.16.0
LLC Digital Network	18/04/2006	4096	89.208.47.255	89.208.32.0
LLC Digital Network	18/04/2006	4096	89.208.79.255	89.208.64.0
LLC Digital Network	18/04/2006	8192	89.208.127.255	89.208.96.0
LLC Digital Network	18/04/2006	4096	89.208.159.255	89.208.144.0
LLC Digital Network	18/04/2006	4096	89.208.175.255	89.208.160.0



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LLC Digital Network	18/04/2006	4096	89.208.239.255	89.208.224.0
Net By Net Holding LLC	22/09/2006	4096	89.221.31.255	89.221.16.0
Svyaz-Holding Ltd.	22/05/2007	4096	89.221.63.255	89.221.48.0
National Telecom, CJSC	09/10/2006	4096	89.221.207.255	89.221.192.0
Get-Net LLC	11/10/2006	4096	89.221.223.255	89.221.224.0
Netorn LLC	18/09/2006	32768	89.222.255.255	89.222.128.0
United Networks Ltd.	19/09/2006	32768	89.223.127.255	89.223.0.0
OJSC "OAO TATTELECOM"	03/05/2006	16384	89.232.127.255	89.232.64.0
Site LLC	05/05/2006	16384	89.232.191.255	89.232.128.0
PJSC Rostelecom	08/05/2006	16384	89.232.255.255	89.232.192.0
MSN Telecom LLC	06/06/2006	16384	89.235.191.255	89.235.128.0
Closed Joint Stock Company TransTeleCom	20/06/2006	16384	89.237.63.255	89.237.0.0
PJSC Rostelecom	31/05/2007	16384	89.239.191.255	89.239.128.0
PJSC Rostelecom	04/07/2006	4096	89.248.127.255	89.248.112.0
Fastnet LLC	12/07/2006	4096	89.248.191.255	89.248.176.0
OOO "Network of data-centers "Selectel"	12/07/2006	4096	89.248.207.255	89.248.192.0
Stack Group, LLC	18/07/2006	4096	89.249.31.255	89.249.16.0
intersat Ltd.	19/07/2006	4096	89.249.63.255	89.249.48.0
Korporatsia STS LLC	20/07/2006	4096	89.249.127.255	89.249.112.0
Center of Connection, Informatic and Telecommunication LLC	21/07/2006	4096	89.249.143.255	89.249.128.0
T2 Mobile LLC	21/07/2006	4096	89.249.159.255	89.249.144.0
Federal State Educational Institution of Higher Professional Education M.V.Lomonosov Moscow State University	04/08/2011	4096	89.249.175.255	89.249.160.0
Vist on-line LTD	26/07/2006	4096	89.249.239.255	89.249.224.0
OOO Montaj Telecom Service	26/07/2006	4096	89.249.255.255	89.249.240.0
Limited Liability Company MVM Technology	27/07/2006	4096	89.250.15.255	89.250.0.0
Norilsk-Telecom JSC	31/07/2006	4096	89.250.31.255	89.250.16.0
JSC "ER-Telecom Holding"	10/08/2006	4096	89.250.159.255	89.250.144.0
PJSC Rostelecom	14/08/2006	4096	89.250.175.255	89.250.160.0
Ltd PermInterCom	21/08/2006	4096	89.250.223.255	89.250.208.0
ZSRCT TECCS Ltd.	23/08/2006	4096	89.250.239.255	89.250.224.0
UGMK-Telecom LLC	01/09/2006	4096	89.251.79.255	89.251.64.0
MTS PJSC	08/09/2006	4096	89.251.111.255	89.251.96.0
MTS PJSC	11/09/2006	4096	89.251.159.255	89.251.144.0
CRETECOM LLC	15/09/2006	4096	89.251.175.255	89.251.160.0
PJSC Rostelecom	09/08/2006	16384	89.252.127.255	89.252.64.0
Mobile LLC	23/08/2006	16384	89.253.63.255	89.253.0.0
RuSonyx, Ltd.	29/08/2006	16384	89.253.255.255	89.253.192.0
PJSC Rostelecom	08/09/2006	16384	89.254.255.255	89.254.192.0
NEO Print Ltd.	14/09/2006	16384	89.255.127.255	89.255.64.0
PJSC Rostelecom	19/12/2006	131072	90.151.255.255	90.150.0.0
"Central Telegraph" Public Joint-stock Company	07/11/2006	16384	90.154.63.255	90.154.0.0
PJSC Rostelecom	07/11/2006	16384	90.154.127.255	90.154.64.0
Iskratelecom CJSC	12/12/2007	32768	90.155.255.255	90.155.128.0
LLC "MASTERHOST"	17/11/2006	32768	90.156.255.255	90.156.128.0
PJSC Rostelecom	17/11/2006	32768	90.157.127.255	90.157.0.0
PJSC Rostelecom	18/10/2006	131072	90.189.255.255	90.188.0.0
MTS PJSC	21/08/2006	262144	91.79.255.255	91.76.0.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	19/06/2012	16384	91.105.191.255	91.105.128.0
AVK-computer ltd	21/06/2012	16384	91.107.63.255	91.107.0.0



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Joint-Stock Company Investpribor	18/06/2012	8192	91.109.95.255	91.109.64.0
TIS Dialog LLC	19/06/2012	8192	91.109.159.255	91.109.128.0
PJSC Rostelecom	22/09/2006	65536	91.122.255.255	91.122.0.0
	04/12/2006	4096	91.123.161.255	91.123.16.0
	24/01/2007	4096	91.123.80.255	91.123.80.0
FORTEX CJSC	30/10/2006	8192	91.133.31.255	91.133.0.0
OOO WestCall Ltd.	17/11/2006	4096	91.135.159.255	91.135.144.0
MTS PJSC	27/11/2006	4096	91.135.223.255	91.135.208.0
Miran Ltd.	13/10/2006	4096	91.142.95.255	91.142.80.0
LLC Teledyne Systems Limited	18/10/2006	4096	91.142.159.255	91.142.144.0
T2 Mobile LLC	25/10/2006	4096	91.143.15.255	91.143.0.0
Megalog-Plus Ltd	27/10/2006	4096	91.143.31.255	91.143.16.0
Digit One LLC	27/10/2006	4096	91.143.47.255	91.143.32.0
MTS PJSC	30/10/2006	4096	91.143.63.255	91.143.48.0
Regionset Ltd	31/10/2006	4096	91.143.143.255	91.143.128.0
"South telephone company" LLC	01/11/2006	4096	91.143.159.255	91.143.144.0
INSYS LLC	23/11/2011	4096	91.143.175.255	91.143.160.0
JSC "ER-Telecom Holding"	27/09/2006	16384	91.144.191.255	91.144.128.0
OOO "NI"	11/10/2006	16384	91.146.63.255	91.146.0.0
PJSC Rostelecom	24/10/2006	16384	91.147.63.255	91.147.0.0
T2 Mobile LLC	11/11/2006	16384	91.149.127.255	91.149.64.0
T2 Mobile LLC	05/12/2006	4096	91.151.47.255	91.151.32.0
VEROLINE Ltd	24/08/2011	4096	91.151.191.255	91.151.176.0
NODEX Limited	20/12/2006	4096	91.151.207.255	91.151.192.0
IPNet Ltd	16/10/2006	8192	91.184.255.255	91.184.224.0
Irkutsk Business Net	19/10/2006	8192	91.185.63.255	91.185.32.0
MTS PJSC	10/09/2008	8192	91.185.95.255	91.185.64.0
PJSC Rostelecom	01/11/2006	8192	91.185.255.255	91.185.224.0
MTS PJSC	09/11/2006	8192	91.186.127.255	91.186.96.0
Digit One LLC	28/12/2006	8192	91.188.191.255	91.188.160.0
LLC Promsvyaz-Invest	05/12/2006	4096	91.190.79.255	91.190.64.0
Awanti Ltd	02/01/2007	4096	91.190.127.255	91.190.112.0
LLC "KomTel Centr"	20/10/2006	8192	91.191.255.255	91.191.224.0
JSC "ER-Telecom Holding"	01/08/2012	4096	91.242.191.255	91.242.176.0
Petersburg Internet Network Ltd.	03/08/2012	8192	91.243.63.255	91.243.32.0
Petersburg Internet Network Ltd.	03/08/2012	4096	91.243.95.255	91.243.80.0
	06/08/2012	4096	91.243.111.255	91.243.96.0
	07/08/2012	8192	91.243.255.255	91.243.224.0
	14/08/2012	4096	91.244.95.255	91.244.80.0
	17/08/2012	8192	91.245.63.255	91.245.32.0
	20/08/2012	8192	91.245.159.255	91.245.128.0
	27/08/2012	4096	91.246.95.255	91.246.80.0
	28/08/2012	4096	91.246.127.255	91.246.112.0
	29/08/2012	8192	91.247.31.255	91.247.0.0
	30/08/2012	8192	91.247.127.255	91.247.96.0
	30/08/2012	4096	91.247.143.255	91.247.128.0
	30/08/2012	4096	91.247.207.255	91.247.192.0
T2 Mobile LLC	03/01/2008	32768	92.36.127.255	92.36.0.0
PJSC Rostelecom	18/01/2008	32768	92.37.255.255	92.37.128.0
LLC Digital Network	08/02/2008	4096	92.38.207.255	92.38.192.0
LLC Digital Network	08/02/2008	8192	92.38.255.255	92.38.224.0
Legal Support Center NATIONALS, LLC	21/02/2008	4096	92.39.63.255	92.39.48.0



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MTS PJSC	21/02/2008	4096	92.39.79.255	92.39.64.0
JSC RDE "Unico"	22/02/2008	4096	92.39.111.255	92.39.96.0
MTS PJSC	05/03/2008	4096	92.39.223.255	92.39.208.0
JSC "ER-Telecom Holding"	05/03/2008	4096	92.39.249.255	92.39.224.0
PJSC Rostelecom	12/12/2007	16384	92.49.127.255	92.49.128.0
OJSC "Ufanel"	18/12/2007	16384	92.50.191.255	92.50.128.0
PJSC Rostelecom	19/12/2007	16384	92.50.255.255	92.50.192.0
"Permtelcom" Ltd	21/12/2007	8192	92.51.31.255	92.51.0.0
"Permtelcom" Ltd	21/12/2007	4096	92.51.47.255	92.51.32.0
OOO "Network of data-centers "Selectel"	15/02/2008	8192	92.53.95.255	92.53.64.0
TimeWeb Ltd.	15/02/2008	4096	92.53.127.255	92.53.112.0
PJSC Rostelecom	03/03/2008	16384	92.54.127.255	92.54.64.0
OOO "NI"	06/03/2008	16384	92.55.63.255	92.55.0.0
Avantel, Close Joint Stock Company	30/11/2007	4096	92.60.95.255	92.60.80.0
Izhevsk Network Technologies Ltd	10/12/2007	4096	92.61.31.255	92.61.16.0
National Telecom, CJSC	13/12/2007	4096	92.61.79.255	92.61.64.0
SatTel Corporation, Ltd.	21/02/2008	4096	92.62.63.255	92.62.48.0
Stroytechservice LLC	24/07/2008	4096	92.62.159.255	92.62.144.0
Tomsk State University	01/02/2008	4096	92.63.79.255	92.63.64.0
JSC IOT	07/02/2008	4096	92.63.111.255	92.63.96.0
Limited Liability Company LINK	15/02/2008	4096	92.63.191.255	92.63.176.0
OOO "Patent-Media"	15/02/2008	4096	92.63.207.255	92.63.192.0
PJSC Rostelecom	04/04/2008	131072	92.101.255.255	92.100.0.0
PJSC Rostelecom	16/11/2007	131072	92.125.255.255	92.124.0.0
PJSC Rostelecom	22/05/2008	131072	92.127.255.255	92.126.0.0
JSC AIST	05/09/2012	4096	92.240.143.255	92.240.128.0
"Permtelcom" Ltd	26/11/2007	4096	92.240.207.255	92.240.192.0
OJSC Svyazinform	30/11/2007	8192	92.241.31.255	92.241.0.0
Smoltelecom Ltd	13/12/2007	8192	92.241.127.255	92.241.96.0
OOO Fly Engineering Group	17/12/2007	8192	92.241.191.255	92.241.160.0
OOO "NI"	20/12/2007	8192	92.241.255.255	92.241.224.0
LLC "KomTehCom"	20/12/2007	8192	92.242.31.255	92.242.0.0
PJSC "Vimpelcom"	27/12/2007	8192	92.242.95.255	92.242.64.0
OOO "National Telecommunications"	15/01/2008	8192	92.243.95.255	92.243.64.0
New Telesystems, Ltd.	17/01/2008	8192	92.243.127.255	92.243.96.0
OJSC Comcor	30/01/2008	8192	92.243.191.255	92.243.160.0
ICVORONEZH	07/02/2008	8192	92.244.255.255	92.244.224.0
PJSC "Bashinformsvyaz"	11/02/2008	8192	92.245.63.255	92.245.32.0
OOO "MediaSeti"	22/04/2008	4096	92.246.143.255	92.246.128.0
MTS PJSC	23/04/2008	8192	92.246.191.255	92.246.160.0
MTS PJSC	05/10/2009	8192	92.246.223.255	92.246.192.0
JSC "ER-Telecom Holding"	13/11/2007	32768	92.248.255.255	92.248.128.0
PJSC Rostelecom	28/11/2007	32768	92.252.255.255	92.252.128.0
United Networks Ltd.	24/12/2007	32768	92.255.127.255	92.255.0.0
JSC "ER-Telecom Holding"	28/12/2007	32768	92.255.255.255	92.255.128.0
Telecommunication Systems LLC	04/04/2008	8192	93.77.191.255	93.77.160.0
PJSC "Vimpelcom"	05/02/2008	131072	93.81.255.255	93.80.0.0
PJSC "Vimpelcom"	04/03/2008	4096	93.88.15.255	93.88.0.0
LLC "Real-net"	25/03/2008	4096	93.88.143.255	93.88.128.0
Intertax LLC	25/03/2008	4096	93.88.175.255	93.88.160.0
Ural Federal University	25/03/2008	4096	93.88.191.255	93.88.176.0
Ussuri-Teleservice Ltd.	27/03/2008	4096	93.88.223.255	93.88.208.0



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Digit One LLC	14/04/2008	4096	93.89.191.255	93.89.176.0
Net By Net Holding LLC	16/04/2008	4096	93.90.47.255	93.90.32.0
Dontechsvyaz LLC	21/04/2008	4096	93.90.95.255	93.90.80.0
OOO Satellit-Servis	22/04/2008	4096	93.90.11.255	93.90.96.0
MTS PJSC	24/04/2008	4096	93.90.255.255	93.90.224.0
PJSC Rostelecom	25/04/2008	4096	93.90.255.255	93.90.240.0
LLC "TC TEL CENTER"	28/04/2008	4096	93.91.15.255	93.91.0.0
Fast Link Ltd	08/07/2008	4096	93.91.127.255	93.91.112.0
JSC Avantel	16/05/2008	4096	93.91.175.255	93.91.160.0
PJSC MegaFon	19/05/2008	4096	93.91.239.255	93.91.224.0
SkyNet Ltd.	28/02/2008	6553	93.100.255.255	93.100.0.0
PJSC Rostelecom	18/02/2008	32768	93.120.255.255	93.120.128.0
Information and Communication Technologies LLC	07/03/2008	32768	93.123.255.255	93.123.128.0
PJSC Rostelecom	07/03/2008	32768	93.124.127.255	93.124.0.0
PJSC MegaFon	14/05/2008	32768	93.153.255.255	93.153.128.0
YANDEX LLC	30/05/2008	16384	93.158.191.255	93.158.128.0
ARD Teleport LTD.	30/05/2008	4096	93.158.255.255	93.158.240.0
	08/09/2008	8192	93.175.31.255	93.175.0.0
PJSC Rostelecom	26/03/2008	16384	93.177.63.255	93.177.0.0
PJSC Rostelecom	31/03/2008	16384	93.178.127.255	93.178.64.0
Transit Telecom LLC	17/04/2008	8192	93.179.95.255	93.179.64.0
Federal State Educational Institution of Higher Professional Education M.V.Lomonosov Moscow State University	04/08/2011	16384	93.180.63.255	93.180.0.0
PJSC Rostelecom	02/05/2008	16384	93.181.255.255	93.181.192.0
Limited Liability Company Kvidex-Telecom	05/05/2008	16384	93.182.63.255	93.182.0.0
OOO Trivon Networks	20/05/2008	16384	93.183.127.255	93.183.64.0
LLC NETFORT	29/05/2008	4096	93.184.175.255	93.184.160.0
PJSC Rostelecom	04/06/2008	4096	93.185.31.255	93.185.16.0
Service-Aero Ltd	09/06/2008	4096	93.185.159.255	93.185.144.0
PJSC Rostelecom	11/06/2008	4096	93.185.191.255	93.185.176.0
JSC "AVIEL"	11/06/2008	4096	93.185.207.255	93.185.192.0
"NetCom-R" LLC	18/06/2008	4096	93.186.63.255	93.186.48.0
LANTA Ltd	24/06/2008	4096	93.186.111.255	93.186.96.0
VKontakte Ltd	03/07/2008	4096	93.186.239.255	93.186.224.0
SkyNet Ltd.	03/07/2008	65536	94.19.255.255	94.19.0.0
Intersvyaz-2 JSC	06/06/2008	32768	94.24.255.255	94.24.128.0
PJSC Rostelecom	06/06/2008	32768	94.25.127.255	94.25.0.0
PJSC MegaFon	10/06/2008	32768	94.25.255.255	94.25.128.0
Style-Com LLC	11/06/2008	16384	94.26.191.255	94.26.128.0
OOO "Network of data-centers "Selectel"	11/06/2008	8192	94.26.255.255	94.26.224.0
IP-ER-Telecom Holding"	18/06/2008	32768	94.28.127.255	94.28.0.0
PJSC Rostelecom	19/06/2008	32768	94.28.255.255	94.28.128.0
OOB Moscow city telephone network	02/07/2008	32768	94.29.127.255	94.29.0.0
PJSC Rostelecom	31/07/2008	32768	94.31.255.255	94.31.128.0
OJSC "Ufanet"	21/05/2008	65536	94.41.255.255	94.41.0.0
	16/01/2009	8192	94.45.31.255	94.45.0.0
	23/02/2009	8192	94.45.191.255	94.45.160.0
	27/04/2009	8192	94.45.223.255	94.45.192.0
PJSC Rostelecom	29/05/2008	131072	94.51.255.255	94.50.0.0
MTS PJSC	24/06/2008	16384	94.72.63.255	94.72.0.0
"Orion telecom" Ltd.	11/07/2008	16384	94.73.255.255	94.73.192.0



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PJSC "Bashinformsvyaz"	18/07/2008	16384	94.75.63.255	94.75.0.0
PJSC Rostelecom	23/07/2008	16384	94.75.191.255	94.75.128.0
T2 Mobile LLC	08/08/2008	16384	94.77.63.255	94.77.0.0
Invest Development LLC	11/08/2008	16384	94.77.67.255	94.77.64.0
MTS PJSC	14/08/2008	16384	94.77.152.255	94.77.128.0
PJSC Rostelecom	26/08/2008	16384	94.78.255.255	94.78.192.0
OJSC Comcor	27/08/2008	16384	94.79/63.255	94.79.0.0
OOO "MediaSeti"	22/07/2008	4096	94.100.95.255	94.100.80.0
Limited liability company Mail.Ru	31/07/2008	4096	94.100.191.255	94.100.176.0
LLC Saturn-service	01/08/2008	4096	94.100.207.255	94.100.192.0
CJSC Settelecom	13/08/2008	4096	94.101.79.255	94.101.64.0
JSC Stroitelnoye Upravleniye-155	14/08/2008	4096	94.101.111.255	94.101.96.0
Signal Service LLC	27/08/2008	4096	94.102.31.255	94.102.16.0
Iskratelecom CJSC	04/09/2008	4096	94.102.127.255	94.102.112.0
MTS PJSC	08/09/2008	4096	94.102.191.255	94.102.176.0
Hosting technology LTD	15/09/2008	4096	94.103.95.255	94.103.80.0
JSC RA Telecom	16/09/2008	4096	94.103.191.255	94.103.176.0
Alpha Net Telecom Ltd	18/09/2008	4096	94.103.239.255	94.103.224.0
MTS PJSC	23/07/2008	8192	94.136.223.255	94.136.192.0
Omskie kabelnye seti Ltd.	25/07/2008	8192	94.137.31.255	94.137.0.0
Omskie kabelnye seti Ltd.	19/02/2009	8192	94.137.63.255	94.137.32.0
Joint Stock Company Selena Telecom	25/07/2008	8192	94.137.95.255	94.137.64.0
Irkutsk Business Net	24/06/2009	8192	94.137.223.255	94.137.192.0
UGMK-Telecom LLC	08/08/2008	8192	94.137.255.255	94.137.224.0
PJSC "Vimpelcom"	28/08/2008	8192	94.138.31.255	94.138.0.0
Ltd. "SPA"Impulse"	03/10/2008	8192	94.138.159.255	94.138.128.0
OJS Moscow city telephone network	26/11/2008	8192	94.139.127.255	94.139.96.0
intersat Ltd.	27/11/2008	8192	94.139.255.255	94.139.224.0
MTS PJSC	04/12/2008	8192	94.140.159.255	94.140.128.0
Prometey LLC	15/06/2009	8192	94.140.223.255	94.140.192.0
CityLink Ltd	04/12/2008	8192	94.140.255.255	94.140.224.0
IC-VORONEZH	08/12/2008	8192	94.141.63.255	94.141.32.0
OOO "MediaSeti"	11/12/2008	8192	94.141.127.255	94.141.96.0
MEGASVYA LLC	07/07/2010	8192	94.141.191.255	94.141.160.0
Tele.RU Ltd.	16/12/2008	4096	94.141.239.255	94.141.224.0
PJSC Rostelecom	16/12/2008	8192	94.142.31.255	94.142.0.0
	23/05/2011	4096	94.154.79.255	94.154.64.0
JSC "ER-Telecom Holding"	11/09/2008	4096	94.158.15.255	94.158.0.0
Telecom LLC	17/09/2008	4096	94.158.47.255	94.158.32.0
	01/10/2008	4096	94.158.111.255	94.158.96.0
	03/11/2008	4096	94.158.127.255	94.158.112.0
	18/11/2008	4096	94.158.175.255	94.158.160.0
	21/11/2008	4096	94.158.207.255	94.158.192.0
	31/12/2008	4096	94.158.223.255	94.158.208.0
"NetCom-R" LLC	04/09/2008	16384	94.159.63.255	94.159.0.0
"NetCom-R" LLC	04/09/2008	8192	94.159.95.255	94.159.64.0
"NetCom-R" LLC	04/09/2008	4096	94.159.111.255	94.159.96.0
JSC "ER-Telecom Holding"	11/09/2008	131072	94.181.255.255	94.180.0.0
Net By Net Holding LLC	18/08/2008	32768	94.188.127.255	94.188.0.0
INTERRA telecommunications group, Ltd.	21/08/2008	32768	94.190.127.255	94.190.0.0
LLC The Capital Plus	17/10/2008	4096	94.228.127.255	94.228.112.0
OOO 'Pronet'	30/10/2008	4096	94.228.175.255	94.228.160.0



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Uniontel Ltd	05/11/2008	4096	94.228.207.255	94.228.192.0
OOO Telecom TZ	11/11/2008	4096	94.228.255.255	94.228.240.0
RTK-Volga-Ural LLC	12/11/2008	4096	94.229.31.255	94.229.16.0
SatTel Corporation, Ltd.	13/11/2008	4096	94.229.111.255	94.229.96.0
MTS PJSC	28/11/2008	4096	94.229.223.255	94.229.224.0
Neocom LLC	28/11/2008	4096	94.229.255.255	94.229.240.0
Avantel, Close Joint Stock Company	28/11/2008	4096	94.230.15.255	94.230.0.0
Closed Joint Stock Company Oskolnet	01/12/2008	4096	94.230.47.255	94.230.32.0
DIANET Ltd.	18/12/2008	4096	94.230.127.255	94.230.112.0
Joint stock company "For"	18/12/2008	4096	94.230.143.255	94.230.128.0
UNIS Ltd.	30/12/2008	4096	94.230.175.255	94.230.160.0
Joint Stock Company Tyvasviazinform	31/07/2009	4096	94.230.255.255	94.230.240.0
	27/01/2009	4096	94.231.31.255	94.231.16.0
JSC "ER-Telecom Holding"	06/04/2009	4096	94.231.127.255	94.231.112.0
	14/04/2009	4096	94.231.143.255	94.231.128.0
	15/04/2009	4096	94.231.159.255	94.231.144.0
	21/04/2009	4096	94.231.175.255	94.231.160.0
PJSC Rostelecom	18/09/2008	65536	94.233.255.255	94.233.0.0
T2 Mobile LLC	24/10/2008	32768	94.237.255.255	94.237.128.0
T2 Mobile LLC	24/09/2008	16384	94.240.127.255	94.240.64.0
PJSC Rostelecom	25/09/2008	16384	94.241.63.255	94.241.0.0
PJSC Rostelecom	08/10/2008	16384	94.241.255.255	94.241.192.0
FISHNET COMMUNICATIONS LLC	15/10/2008	16384	94.242.63.255	94.242.0.0
PJSC Rostelecom	21/10/2008	16384	94.242.191.255	94.242.128.0
MTS PJSC	21/10/2008	16384	94.243.63.255	94.243.0.0
"Capital Telecom" Limited Company	29/10/2008	16384	94.243.191.255	94.243.128.0
OOO "IT-Region"	03/11/2008	16384	94.243.255.255	94.243.192.0
PJSC Rostelecom	07/11/2008	16384	94.245.191.255	94.245.128.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	26/09/2008	32768	94.251.127.255	94.251.0.0
Flex Ltd.	01/10/2008	32768	94.253.127.255	94.253.0.0
PJSC Rostelecom	16/10/2008	32768	94.255.127.255	94.255.0.0
PJSC "Vimpelcom"	10/10/2008	524288	95.31.255.255	95.24.0.0
PJSC Rostelecom	10/10/2008	65536	95.32.255.255	95.32.0.0
PJSC Rostelecom	25/11/2008	65536	95.37.255.255	95.37.0.0
PJSC Rostelecom	13/11/2008	262144	95.55.255.255	95.52.0.0
MultiCable Networks of Balashikha Limited Liability Company	24/04/2009	32768	95.64.255.255	95.64.128.0
Limited Liability Company "VLADINFO"	03/11/2008	32768	95.66.255.255	95.66.128.0
PJSC Rostelecom	06/11/2008	32768	95.67.255.255	95.67.128.0
PJSC Rostelecom	13/11/2008	32768	95.68.255.255	95.68.128.0
PJSC Rostelecom	21/11/2008	32768	95.70.127.255	95.70.0.0
PJSC Rostelecom	27/11/2008	32768	95.71.127.255	95.71.0.0
PJSC Rostelecom	27/11/2008	32768	95.71.255.255	95.71.128.0
PJSC Rostelecom	28/11/2008	131072	95.73.255.255	95.72.0.0
JSC "ER-Telecom Holding"	10/12/2008	131072	95.79.255.255	95.78.0.0
Quantum CJSC	25/11/2008	16384	95.80.127.255	95.80.64.0
PJSC Rostelecom	03/12/2008	16384	95.81.255.255	95.81.192.0
LLC "KomTehCentr"	12/12/2008	16384	95.82.255.255	95.82.192.0
PJSC Rostelecom	15/12/2008	16384	95.83.63.255	95.83.0.0
MTS PJSC	15/12/2008	16384	95.83.127.255	95.83.64.0
Closed Joint Stock Company TransTeleCom	15/12/2008	16384	95.83.191.255	95.83.128.0
PJSC Rostelecom	17/12/2008	16384	95.84.63.255	95.84.0.0



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PJSC Rostelecom	18/12/2008	16384	95.84.191.255	95.84.128.0
PJSC Rostelecom	15/06/2009	16384	95.84.255.255	95.84.192.0
Transit Telecom LLC	31/12/2008	8192	95.85.95.255	95.85.64.0
PJSC Rostelecom	26/01/2009	16384	95.86.155.255	95.86.192.0
MTS PJSC	28/11/2008	32768	95.104.223.255	95.104.128.0
OJSC "Ufanet"	10/12/2009	32768	95.105.127.255	95.105.0.0
PJSC Rostelecom	02/12/2008	32768	95.106.127.255	95.106.0.0
PJSC Rostelecom	04/05/2009	32768	95.106.255.255	95.106.128.0
PJSC Rostelecom	02/12/2008	32768	95.107.127.255	95.107.0.0
YANDEX LLC	09/12/2008	32768	95.108.255.255	95.108.128.0
PJSC "Bashinformsvyaz"	18/12/2008	32768	95.110.127.255	95.110.0.0
PJSC MegaFon	06/03/2009	32768	95.137.127.255	95.137.0.0
Locked Joint Stock Company OGANER-SERVICE	12/09/2012	8192	95.138.255.255	95.138.224.0
MTS PJSC	25/03/2009	32768	95.139.127.255	95.139.0.0
PJSC Rostelecom	25/03/2009	32768	95.139.255.255	95.139.128.0
TASHIR TELECOM Ltd	22/01/2009	4096	95.140.31.255	95.140.16.0
LLC GLOBALNET	02/02/2009	4096	95.140.95.255	95.140.80.0
Company Delfa Co. Ltd.	18/03/2009	4096	95.140.159.255	95.140.144.0
PJSC Rostelecom	08/04/2009	4096	95.141.15.255	95.141.0.0
Signal Service LLC	08/06/2009	4096	95.141.191.255	95.141.176.0
"Altura" ltd.	07/06/2009	4096	95.141.207.255	95.141.192.0
Net By Net Holding LLC	08/07/2009	4096	95.141.239.255	95.141.224.0
VKontakte Ltd	05/08/2009	4096	95.142.207.255	95.142.192.0
Avelacom Ltd.	12/08/2009	4096	95.143.15.255	95.143.0.0
Azimut-R Ltd.	12/08/2009	4096	95.143.31.255	95.143.16.0
Wiland Ltd	25/08/2009	4096	95.143.127.255	95.143.112.0
OOO "Network of data-centers "Selectel	04/09/2009	4096	95.143.191.255	95.143.176.0
Iskratelecom CJSC	08/09/2009	4096	95.143.223.255	95.143.208.0
PJSC Rostelecom	04/02/2009	16384	95.152.63.255	95.152.0.0
MTS PJSC	23/02/2009	16384	95.153.191.255	95.153.128.0
MTS PJSC	23/05/2009	16384	95.153.255.255	95.153.192.0
Octopusnet LTD	24/02/2009	16384	95.154.127.255	95.154.64.0
Production co-operative Economic-legal laboratory	25/02/2009	16384	95.154.191.255	95.154.128.0
PJSC Rostelecom	18/03/2009	16384	95.156.127.255	95.156.64.0
PJSC Rostelecom	07/04/2009	16384	95.158.255.255	95.158.192.0
PJSC Rostelecom	24/04/2009	16384	95.159.191.255	95.159.128.0
TIERA CENTR LTD	23/12/2008	32768	95.161.127.255	95.161.0.0
"OBIT" Ltd.	23/12/2008	4096	95.161.159.255	95.161.144.0
"OBIT" Ltd.	23/12/2008	8192	95.161.191.255	95.161.160.0
"OBIT" Ltd.	23/12/2008	8192	95.161.223.255	95.161.192.0
"OBIT" Ltd.	23/12/2008	4096	95.161.239.255	95.161.224.0
TIERA CENTR LTD	23/12/2008	4096	95.161.255.255	95.161.240.0
LLC Digital Network	30/12/2008	8192	95.163.31.255	95.163.0.0
Limited liability company Mail.Ru	30/12/2008	8192	95.163.63.255	95.163.32.0
LLC Digital Network	30/12/2008	16384	95.163.127.255	95.163.64.0
LLC Digital Network	30/12/2008	4096	95.163.143.255	95.163.128.0
"Domain names registrar REG.RU", Ltd	30/12/2008	4096	95.163.239.255	95.163.224.0
OJS Moscow city telephone network	27/01/2009	65536	95.165.255.255	95.165.0.0
PJSC Rostelecom	23/07/2009	65536	95.167.255.255	95.167.0.0
Multiregional Transit Telecom	21/01/2009	8192	95.169.127.255	95.169.96.0
MTS PJSC	23/01/2009	8192	95.169.159.255	95.169.128.0
Limited Company Information and Consulting Agency	04/02/2009	8192	95.170.127.255	95.170.96.0



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JSC Avantel	04/02/2009	8192	95.170.159.255	95.170.128.0
Sibirskaya set Ltd	05/02/2009	8192	95.170.191.255	95.170.160.0
Universum bit Ltd.	12/02/2009	8192	95.171.31.255	95.171.0.0
	25/02/2009	8192	95.171.155.255	95.171.224.0
OOO "MediaSeti"	26/02/2009	4096	95.172.40.255	95.172.32.0
Clouds New Network LLC	26/02/2009	4096	95.172.63.255	95.172.48.0
Net By Net Holding LLC	27/02/2009	8192	95.172.127.255	95.172.96.0
System Projects, LLC	27/02/2009	4096	95.172.143.255	95.172.128.0
JSC RTComm.RU	27/02/2009	4096	95.172.159.255	95.172.144.0
The Federal Guard Service of the Russian Federation	05/03/2009	8192	95.173.159.255	95.173.128.0
Mikhail Mayorov	20/03/2009	8192	95.174.127.255	95.174.96.0
New Telesystems, Ltd.	25/03/2009	8192	95.174.223.255	95.174.192.0
MTS PJSC	08/04/2009	8192	95.175.255.255	95.175.224.0
PJSC Rostelecom	21/01/2009	32768	95.179.127.255	95.179.0.0
E-Light-Telecom Ltd.	30/01/2009	32768	95.181.127.255	95.181.0.0
QWARTA LLC	02/02/2009	4096	95.181.175.255	95.181.160.0
OAo "ASVT"	05/02/2009	8192	95.182.63.255	95.182.32.0
	07/02/2009	16384	95.182.127.255	95.182.64.0
Stroytechservice LLC	10/02/2009	4096	95.183.31.255	95.183.16.0
Flex Ltd.	10/02/2009	16384	95.183.127.255	95.183.64.0
PJSC Rostelecom	31/12/2008	262144	95.191.255.255	95.188.0.0
VKontakte Ltd	12/08/2009	32768	95.213.127.255	95.213.0.0
OOO "Network of data-centers "Selectel"	12/08/2009	32768	95.213.255.255	95.213.128.0
Net By Net Holding LLC	09/03/2009	131072	95.221.255.255	95.220.0.0
Closed Joint Stock Company TransTeleCom	14/12/2009	32768	109.60.255.255	109.60.128.0
PJSC Rostelecom	21/12/2009	32768	109.61.255.255	109.61.128.0
PJSC Rostelecom	31/12/2009	32768	109.62.255.255	109.62.128.0
Net By Net Holding LLC	08/07/2010	32768	109.63.255.255	109.63.128.0
Joint-Stock Company Investpribor	10/09/2009	4096	109.72.79.255	109.72.64.0
OOO Montaj Telecom Service	22/09/2009	4096	109.72.239.255	109.72.224.0
Lite-Telecom Limited	22/09/2009	4096	109.72.255.255	109.72.240.0
GARS Telecom - Telecommunications Management LLC	25/09/2009	4096	109.73.15.255	109.73.0.0
JSC Mastatel	02/10/2009	4096	109.73.47.255	109.73.32.0
LLC Tatarstan-On-Line	15/10/2009	4096	109.73.207.255	109.73.192.0
PJSC MegaFon	29/10/2009	4096	109.74.127.255	109.74.112.0
OOO WestCall Ltd.	29/10/2009	4096	109.74.143.255	109.74.128.0
Joint stock company "For"	30/10/2009	4096	109.74.175.255	109.74.160.0
Closed Joint Stock Company TransTeleCom Ltd "Maxima"	06/11/2009	4096	109.74.223.255	109.74.208.0
	20/11/2009	4096	109.75.143.255	109.75.128.0
Kompeatelecom Ltd.	13/11/2009	4096	109.75.207.255	109.75.192.0
Net By Net Holding LLC	25/11/2009	4096	109.75.255.255	109.75.240.0
	23/10/2009	8192	109.94.31.255	109.94.0.0
	03/11/2009	8192	109.94.95.255	109.94.64.0
	23/10/2009	4096	109.94.191.255	109.94.176.0
	27/10/2009	4096	109.94.207.255	109.94.192.0
OJSC RITC	15/09/2009	8192	109.105.95.255	109.105.64.0
PJSC "Vimpelcom"	16/09/2009	8192	109.105.191.255	109.105.160.0
KVANT-TELEKOM Closed Joint Stock Company	30/09/2009	8192	109.106.159.255	109.106.128.0
PJSC MegaFon	01/10/2009	8192	109.106.223.255	109.106.192.0
Teleport-TV Ltd	19/10/2009	8192	109.107.191.255	109.107.160.0
PJSC Rostelecom	26/10/2009	8192	109.108.63.255	109.108.32.0



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PJSC "Vimpelcom"	26/11/2009	4096	109.109.223.255	109.109.208.0
Natalia Sergeevna Filicheva	17/11/2009	8192	109.110.63.255	109.110.32.0
Lancom Ltd.	19/11/2009	8192	109.110.95.255	109.110.64.0
MTS PJSC	24/11/2009	8192	109.111.31.255	109.111.0.0
INTERCOMTEL Limited Company	24/11/2009	8192	109.111.31.255	109.111.64.0
TIS Dialog LLC	26/11/2009	8192	109.111.159.255	109.111.128.0
Sibirskie Seti Ltd.	30/11/2009	8192	109.111.191.255	109.111.160.0
Omskie kabelnye seti Ltd.	27/08/2009	16384	109.120.63.255	109.120.0.0
OOO "National Telecommunications"	27/08/2009	16384	109.120.191.255	109.120.128.0
National Research Tomsk Polytechnic University	12/10/2009	16384	109.123.191.255	109.123.128.0
JSC "ER-Telecom Holding"	20/10/2009	16384	109.124.63.255	109.124.0.0
PJSC MegaFon	28/10/2009	16384	109.124.127.255	109.124.64.0
LLC SIP "NIS"	04/11/2009	16384	109.124.255.255	109.124.192.0
Vladivostokskaya Set LTD	16/11/2009	16384	109.126.63.255	109.126.0.0
PJSC Rostelecom	26/11/2009	16384	109.126.255.255	109.126.192.0
PJSC Rostelecom	17/12/2009	16384	109.127.191.255	109.127.128.0
PJSC Rostelecom	04/02/2009	32768	109.161.127.255	109.161.0.0
PJSC Rostelecom	19/10/2009	32768	109.165.127.255	109.165.0.0
JSC "ER-Telecom Holding"	30/10/2009	32768	109.167.255.255	109.167.128.0
PJSC Rostelecom	02/11/2009	32768	109.168.255.255	109.168.128.0
PJSC Rostelecom	09/11/2009	32768	109.169.255.255	109.169.128.0
Net By Net Holding LLC	09/11/2009	32768	109.170.127.255	109.170.0.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	17/11/2009	32768	109.171.127.255	109.171.0.0
National Telecom, CJSC	18/11/2009	32768	109.172.127.255	109.172.0.0
PJSC Rostelecom	20/11/2009	32768	109.173.127.255	109.173.0.0
MTS PJSC	03/12/2009	32768	109.174.127.255	109.174.0.0
PJSC Rostelecom	05/10/2009	65536	109.184.255.255	109.184.0.0
PJSC "Bashinformsvyaz"	07/10/2009	65536	109.187.255.255	109.187.0.0
PJSC MegaFon	08/10/2009	65536	109.188.255.255	109.188.0.0
Intersvyaz-2 JSC	16/10/2009	65536	109.191.255.255	109.191.0.0
JSC "ER-Telecom Holding"	27/10/2009	131072	109.195.255.255	109.194.0.0
	07/12/2009	4096	109.196.31.255	109.196.16.0
	09/12/2009	4096	109.196.79.255	109.196.64.0
	16/12/2009	4096	109.196.111.255	109.196.96.0
	30/12/2009	4096	109.196.207.255	109.196.192.0
	31/12/2009	4096	109.196.223.255	109.196.208.0
Legal Support Center NATIONALS, LLC	17/12/2009	8192	109.198.63.255	109.198.32.0
MTS PJSC	17/12/2009	8192	109.198.95.255	109.198.64.0
Center Telekom LLC	18/12/2009	8192	109.198.127.255	109.198.96.0
MTS PJSC	22/12/2009	8192	109.198.191.255	109.198.160.0
PJSC Rostelecom	23/12/2009	8192	109.198.223.255	109.198.192.0
MTS PJSC	28/12/2009	8192	109.198.255.255	109.198.224.0
UGMK-Telecom LLC	01/02/2010	8192	109.200.127.255	109.200.96.0
CRELCOM LLC	02/02/2010	8192	109.200.159.255	109.200.128.0
MTS PJSC	11/02/2010	8192	109.201.95.255	109.201.64.0
Informatsionnye Tekhnologii LLC	12/02/2010	8192	109.201.127.255	109.201.96.0
Maginfo CJSC	12/02/2010	8192	109.201.223.255	109.201.192.0
JSC Avantel	12/02/2010	8192	109.202.31.255	109.202.0.0
Closed Joint Stock Company Radiotelephone	15/02/2010	8192	109.202.63.255	109.202.32.0
Limited Liability Company Cybernet	19/02/2010	8192	109.202.191.255	109.202.160.0
PJSC Rostelecom	31/03/2010	8192	109.203.223.255	109.203.192.0
	21/01/2010	8192	109.206.159.255	109.206.128.0



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	12/01/2010	4096	109.207.15.255	109.207.0.0
	25/01/2010	4096	109.207.95.255	109.207.80.0
	22/02/2010	4096	109.207.175.255	109.207.160.0
	26/02/2010	4096	109.207.191.255	109.207.176.0
	15/03/2010	4096	109.207.207.255	109.207.224.0
PJSC Rostelecom	18/01/2010	16384	109.225.63.255	109.225.0.0
Iskratelecom CJSC	20/01/2010	16384	109.225.255.255	109.225.192.0
JSC AIST	26/01/2010	16384	109.226.127.255	109.226.64.0
"Orion telecom" Ltd.	27/01/2010	16384	109.226.255.255	109.226.192.0
New Telesystems, Ltd.	01/02/2010	16384	109.227.255.255	109.227.192.0
	27/05/2010	8192	109.229.63.255	109.229.32.0
	02/06/2010	8192	109.229.95.255	109.229.64.0
	04/06/2010	8192	109.229.127.255	109.229.96.0
	14/06/2010	8192	109.229.159.255	109.229.128.0
	23/06/2010	8192	109.229.255.255	109.229.224.0
Vsevnet Ltd.	24/02/2010	16384	109.230.191.255	109.230.128.0
Non-public corporation MASARMAT	02/12/2009	4096	109.236.79.255	109.236.64.0
MTS PJSC	07/12/2009	4096	109.236.111.255	109.236.96.0
Svyaz-Energo Ltd.	23/12/2009	4096	109.236.223.255	109.236.208.0
PJSC Rostelecom	29/12/2009	4096	109.236.239.255	109.236.224.0
Siberian Internet Company LLC	30/12/2009	4096	109.236.255.255	109.236.240.0
OOO Kompaniya Etype	30/12/2009	4096	109.237.15.255	109.237.0.0
DIANET Ltd.	15/01/2010	4096	109.237.159.255	109.237.144.0
Limited Liability Company "Kvant"	19/01/2010	4096	109.237.239.255	109.237.224.0
LLC "PioneerNet"	03/12/2010	4096	109.238.95.255	109.238.80.0
KVS Ltd	22/01/2010	4096	109.238.111.255	109.238.96.0
Gorodskaya elektronnaya svyaz Ltd	28/01/2010	4096	109.238.207.255	109.238.192.0
Stack Group, LLC	28/01/2010	4096	109.238.255.255	109.238.240.0
LLC Ekran	15/02/2010	4096	109.239.223.255	109.239.208.0
	27/11/2009	65536	109.248.255.255	109.248.0.0
OJS Moscow city telephone network	07/12/2009	65536	109.252.255.255	109.252.0.0
Prime-Service LLC	14/09/2012	4096	128.0.95.255	128.0.80.0
	14/09/2012	4096	128.0.143.255	128.0.128.0
PJSC "Vimpelcom"	31/10/2011	262144	128.71.255.255	128.68.0.0
PJSC "Vimpelcom"	22/11/2011	262144	128.75.255.255	128.72.0.0
Net By Net Holding LLC	11/10/2011	16384	128.204.63.255	128.204.0.0
PJSC MegaFon	11/10/2011	16384	128.204.127.255	128.204.64.0
Signal Service LLC	12/10/2011	8192	128.204.191.255	128.204.160.0
YANDEX LLC	26/10/2011	8192	130.193.63.255	130.193.32.0
Closed Joint Stock Company Radiotelephone	28/10/2011	8192	130.255.63.255	130.255.32.0
Lancom Ltd.	31/10/2011	4096	130.255.143.255	130.255.128.0
Iskratelecom CJSC	02/11/2011	4096	134.0.111.255	134.0.96.0
Svyaz-Energo Ltd.	04/11/2011	4096	134.19.159.255	134.19.144.0
E-Light-Telecom Ltd.	07/11/2011	8192	134.90.191.255	134.90.160.0
Joint stock company "For"	08/11/2011	8192	134.255.159.255	134.255.128.0
OJSC "Ufanet"	21/11/2011	32768	136.169.255.255	136.169.128.0
YANDEX LLC	21/06/2011	16384	141.8.191.255	141.8.128.0
Closed Joint Stock Company TransTeleCom	27/06/2011	4096	141.105.47.255	141.105.32.0
	20/12/1990	65536	144.206.255.255	144.206.0.0
	13/09/1993	65536	145.249.255.255	145.249.0.0
OJSC "Ufanet"	21/11/2011	8192	145.255.31.255	145.255.0.0
LLC "Real-net"	22/11/2011	4096	145.255.47.255	145.255.32.0



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Home Internet Ltd	12/07/2011	8192	146.66.191.255	146.66.160.0
Home Internet Ltd	12/07/2011	4096	146.66.207.255	146.66.192.0
Petersburg Internet Network Ltd.	13/07/2011	4096	146.185.255.255	146.185.240.0
MnogoByte LLC	21/07/2011	8192	146.255.223.255	146.255.192.0
	21/06/1991	65536	147.43.255.255	147.45.0.0
PJSC "Vimpelcom"	20/10/2011	8192	149.62.31.255	149.62.0.0
Dom Tehniki Ltd	29/07/2011	16384	149.126.255.255	149.126.192.0
Net By Net Holding LLC	02/08/2011	4096	149.154.143.255	149.154.128.0
OOO BENET	18/08/2011	4096	149.255.15.255	149.255.0.0
CDNvideo LLC	14/08/2012	16384	151.236.127.255	151.236.64.0
"Domain names registrar REG.RU", Ltd	20/08/2012	4096	151.248.127.255	151.248.112.0
Tele-plus LLC	23/08/2012	8192	151.252.95.255	151.252.64.0
	07/04/2004	65536	157.186.255.255	157.186.0.0
E-Light-Telecom Ltd.	07/11/2011	65536	158.46.255.255	158.46.0.0
	14/04/1992	65536	158.250.255.255	158.250.0.0
OJS Moscow city telephone network	15/11/2011	16384	158.255.191.255	158.255.128.0
	30/05/1992	65536	159.93.255.255	159.93.0.0
LLC Teledyne Systems Limited	26/09/2011	4096	159.255.15.255	159.255.0.0
T2 Mobile LLC	27/09/2011	16384	159.255.127.255	159.255.64.0
ProstoDNS Ltd.	16/03/2012	4096	164.138.15.255	164.138.0.0
Closed Joint Stock Company TransTeleCom	25/11/2011	4096	164.215.95.255	164.215.80.0
PJSC "Vimpelcom"	18/05/2011	131072	176.15.255.255	176.14.0.0
OOO "IT-Region"	23/05/2011	8192	176.32.159.255	176.32.128.0
JSC "Severen-Telecom"	24/05/2011	4096	176.32.191.255	176.32.176.0
PJSC Rostelecom	23/05/2011	262144	176.51.255.255	176.48.0.0
MTS PJSC	25/05/2011	32768	176.52.127.255	176.52.0.0
PulNet Limited	30/05/2011	16384	176.53.255.255	176.53.192.0
Closed Joint Stock Company TransTeleCom	30/05/2011	8192	176.56.31.255	176.56.0.0
TimeWeb Ltd.	01/06/2011	4096	176.57.223.255	176.57.208.0
MnogoByte LLC	03/06/2011	8192	176.58.63.255	176.58.32.0
T2 Mobile LLC	06/06/2011	65536	176.59.255.255	176.59.0.0
Omskie kabelnye seti LLC	08/06/2011	16384	176.62.127.255	176.62.64.0
OOO IstraNet	09/06/2011	4096	176.62.191.255	176.62.176.0
Limited Liability Company Irtelcom	10/06/2011	4096	176.62.255.255	176.62.240.0
TomGate LLC	10/06/2011	8192	176.65.63.255	176.65.32.0
MTS PJSC	10/06/2011	8192	176.65.127.255	176.65.96.0
Net By Net Holding LLC	05/07/2011	32768	176.77.127.255	176.77.0.0
	15/07/2011	8192	176.96.31.255	176.96.0.0
	23/09/2011	4096	176.97.111.255	176.97.96.0
	26/09/2011	8192	176.97.191.255	176.97.160.0
	29/09/2011	8192	176.97.223.255	176.97.192.0
	14/10/2011	8192	176.98.159.255	176.98.128.0
	18/10/2011	4096	176.98.191.255	176.98.176.0
	26/06/2012	4096	176.99.15.255	176.99.0.0
	27/06/2012	8192	176.99.95.255	176.99.64.0
	28/06/2012	8192	176.99.127.255	176.99.96.0
	27/06/2012	32768	176.99.255.255	176.99.128.0
	24/10/2011	16384	176.100.127.255	176.100.64.0
	26/10/2011	8192	176.100.159.255	176.100.128.0
	30/01/2012	4096	176.100.255.255	176.100.240.0
	17/11/2011	8192	176.101.255.255	176.101.224.0
	13/12/2011	4096	176.103.95.255	176.103.80.0



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Malnet LTD.	13/12/2011	4096	176.103.111.255	176.103.96.0
	14/12/2011	8192	176.103.159.255	176.103.128.0
	28/12/2011	8192	176.104.159.255	176.104.128.0
JSC "ER-Telecom Holding"	29/12/2011	8192	176.104.223.255	176.104.192.0
	10/01/2012	4096	176.106.16.255	176.106.16.0
	11/01/2012	8192	176.106.95.255	176.106.64.0
	18/01/2012	4096	176.106.159.255	176.106.144.0
	20/01/2012	4096	176.106.255.255	176.106.240.0
	06/02/2012	4096	176.107.223.255	176.107.208.0
	06/02/2012	4096	176.107.239.255	176.107.224.0
	16/02/2012	8192	176.108.223.255	176.108.192.0
	16/02/2012	4096	176.108.255.255	176.108.240.0
	20/02/2012	4096	176.109.31.255	176.109.16.0
	22/02/2012	4096	176.109.47.255	176.109.32.0
	21/02/2012	16384	176.109.127.255	176.109.64.0
	24/02/2012	4096	176.109.159.255	176.109.144.0
Dovecom LLC	27/02/2012	4096	176.109.191.255	176.109.176.0
Dovecom LLC	27/02/2012	8192	176.109.255.255	176.109.224.0
	19/07/2012	8192	176.110.95.255	176.110.64.0
	27/02/2012	4096	176.110.143.255	176.110.128.0
	27/02/2012	8192	176.110.191.255	176.110.160.0
	28/02/2012	4096	176.110.207.255	176.110.192.0
	29/02/2012	8192	176.110.255.255	176.110.224.0
	20/03/2012	8192	176.112.63.255	176.112.32.0
	22/03/2012	4096	176.112.111.255	176.112.96.0
JSC "ER-Telecom Holding"	22/03/2012	4096	176.112.143.255	176.112.128.0
	26/03/2012	4096	176.112.175.255	176.112.160.0
	27/03/2012	8192	176.112.255.255	176.112.224.0
	27/03/2012	8192	176.113.31.255	176.113.0.0
	28/03/2012	4096	176.113.63.255	176.113.48.0
	10/04/2012	4096	176.114.31.255	176.114.16.0
	10/04/2012	4096	176.114.47.255	176.114.32.0
	11/04/2012	8192	176.114.95.255	176.114.64.0
	13/04/2012	4096	176.114.127.255	176.114.112.0
	13/04/2012	16384	176.114.191.255	176.114.128.0
	13/04/2012	8192	176.114.223.255	176.114.192.0
	18/04/2012	8192	176.115.63.255	176.115.32.0
	18/04/2012	4096	176.115.79.255	176.115.64.0
	02/05/2012	8192	176.115.223.255	176.115.192.0
	07/05/2012	4096	176.116.63.255	176.116.48.0
	09/05/2012	8192	176.116.191.255	176.116.160.0
	10/05/2012	4096	176.116.223.255	176.116.208.0
	10/05/2012	4096	176.116.255.255	176.116.240.0
	11/05/2012	4096	176.117.31.255	176.117.16.0
	11/05/2012	4096	176.117.47.255	176.117.32.0
	18/05/2012	4096	176.117.127.255	176.117.112.0
	16/05/2012	8192	176.117.159.255	176.117.128.0
	18/05/2012	8192	176.117.223.255	176.117.192.0
	18/05/2012	8192	176.117.255.255	176.117.224.0
	23/05/2012	4096	176.118.79.255	176.118.64.0
	29/05/2012	4096	176.118.127.255	176.118.112.0
Prime-Service LLC	01/06/2012	8192	176.118.255.255	176.118.224.0



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	13/06/2012	8192	176.119.191.255	176.119.160.0
	18/06/2012	4096	176.120.15.255	176.120.0.0
	20/06/2012	8192	176.120.95.255	176.120.64.0
	25/06/2012	4096	176.120.191.255	176.120.176.0
	21/06/2012	8192	176.120.223.255	176.120.192.0
	25/06/2012	8192	176.120.255.255	176.120.224.0
	02/07/2012	16384	176.121.191.255	176.121.128.0
	06/07/2012	4096	176.121.223.255	176.121.208.0
	11/07/2012	4096	176.122.63.255	176.122.48.0
	11/07/2012	4096	176.122.79.255	176.122.64.0
	27/07/2012	8192	176.123.159.255	176.123.128.0
	30/07/2012	8192	176.123.191.255	176.123.160.0
	30/07/2012	4096	176.123.207.255	176.123.192.0
	03/09/2012	8192	176.124.31.255	176.124.0.0
	07/09/2012	8192	176.124.223.255	176.124.192.0
	11/09/2012	16384	176.125.127.255	176.125.64.0
	11/09/2012	16384	176.125.191.255	176.125.128.0
	11/09/2012	8192	176.125.223.255	176.125.192.0
	13/09/2012	8192	176.126.31.255	176.126.0.0
Net By Net Holding LLC	07/07/2011	262144	176.195.255.255	176.192.0.0
E-Light-Telecom Ltd.	15/07/2011	131072	176.197.255.255	176.196.0.0
PJSC Rostelecom	16/08/2011	262144	176.211.255.255	176.208.0.0
JSC "ER-Telecom Holding"	28/09/2011	262144	176.215.255.255	176.212.0.0
MTS PJSC	01/12/2011	4096	176.222.207.255	176.222.192.0
UGMK-Telecom LLC	01/12/2011	4096	176.222.255.255	176.222.240.0
Intersvyaz-2 JSC	01/12/2011	32768	176.226.255.255	176.226.128.0
Limited liability company Kursktelecom	07/12/2011	8192	176.241.223.255	176.241.192.0
	24/02/2010	4096	178.16.95.255	178.16.80.0
"OBIT" Ltd.	03/03/2010	4096	178.16.159.255	178.16.144.0
Signal Service LLC	22/03/2010	4096	178.17.143.255	178.17.128.0
MTS PJSC	23/03/2010	4096	178.17.191.255	178.17.176.0
TSI Service JSC	24/03/2010	4096	178.17.207.255	178.17.192.0
Sakha-Belcom Ltd.	07/04/2010	4096	178.18.15.255	178.18.0.0
Maginfo JSC	12/04/2010	4096	178.18.111.255	178.18.96.0
Hot Line LTD	27/04/2010	4096	178.18.223.255	178.18.208.0
Peering Ltd	27/04/2010	4096	178.18.239.255	178.18.224.0
City Link Ltd	25/05/2010	4096	178.19.255.255	178.19.240.0
PJSC Rostelecom	21/01/2010	32768	178.34.127.255	178.34.0.0
PJSC Rostelecom	21/01/2010	4096	178.34.143.255	178.34.128.0
PJSC Rostelecom	21/01/2010	4096	178.34.175.255	178.34.160.0
Miranda-Media Ltd	21/01/2010	4096	178.34.191.255	178.34.176.0
PJSC Rostelecom	21/01/2010	16384	178.34.255.255	178.34.192.0
PJSC Rostelecom	21/01/2010	65536	178.35.255.255	178.35.0.0
PJSC Rostelecom	09/02/2010	131072	178.45.255.255	178.44.0.0
PJSC Rostelecom	26/02/2010	131072	178.47.255.255	178.46.0.0
Novotelecom Ltd	28/12/2009	65536	178.49.255.255	178.49.0.0
LTD AtelRybinsk	02/02/2010	8192	178.57.31.255	178.57.0.0
OJSC Kostroma Municipal Telephone Network	02/02/2010	8192	178.57.63.255	178.57.32.0
Biz Telecom LLC	02/02/2010	4096	178.57.95.255	178.57.80.0
Sever Telecom JSC	02/02/2010	8192	178.57.127.255	178.57.96.0
DalSatCom LTD	02/02/2010	4096	178.57.207.255	178.57.192.0
Flex Ltd.	02/02/2010	8192	178.57.255.255	178.57.224.0



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PJSC Rostelecom	05/01/2010	524288	178.71.255.255	178.64.0.0
MTS PJSC	19/02/2010	16384	178.72.127.255	178.72.64.0
Omskie kabelnye seti Ltd.	24/03/2010	16384	178.74.127.255	178.74.64.0
System Operator of the United Power System, JSC	24/03/2010	16384	178.74.191.255	178.74.128.0
JSC "ER-Telecom Holding"	25/03/2010	16384	178.75.63.255	178.75.0.0
PJSC Rostelecom	25/03/2010	16384	178.75.127.255	178.75.64.0
Closed Joint Stock Company TransTeleCom	08/04/2010	16384	178.76/255.255	178.76.192.0
JSC "ER-Telecom Holding"	22/04/2010	16384	178.78.63.255	178.78.0.0
PJSC "Bashinformsvyaz"	15/03/2010	65536	178.129.255.255	178.129.0.0
National Telecom, CJSC	15/03/2010	32768	178.130.127.255	178.130.0.0
National Telecom, CJSC	15/03/2010	4096	178.130.143.255	178.130.128.0
PJSC Rostelecom	07/04/2010	65536	178.140.255.255	178.140.0.0
MTS PJSC	22/04/2010	65536	178.141.255.255	178.141.0.0
YANDEX LLC	06/05/2010	32768	178.154.255.255	178.154.128.0
MTS PJSC	19/05/2010	32768	178.155.127.255	178.155.0.0
T2 Mobile LLC	29/06/2010	16384	178.157.191.255	178.157.128.0
	24/06/2010	4096	178.159.31.255	178.159.16.0
	31/08/2010	4096	178.159.63.255	178.159.48.0
"Krasnoyarsk network" Ltd.	14/09/2010	4096	178.159.95.255	178.159.80.0
JSC "ER-Telecom Holding"	02/02/2010	32768	178.161.255.255	178.161.128.0
JSC "ER-Telecom Holding"	01/02/2010	32768	178.162.127.255	178.162.0.0
Infoline Ltd.	05/02/2010	32768	178.163.127.255	178.163.0.0
PJSC Rostelecom	11/03/2010	32768	178.166.255.255	178.166.128.0
Flex Ltd.	15/03/2010	32768	178.167.127.255	178.167.0.0
Sibirskaya set Ltd	26/03/2010	8192	178.169.63.255	178.169.32.0
Sibirskaya set Ltd	26/03/2010	16384	178.169.127.255	178.169.64.0
E-Light-Telecom Ltd.	01/04/2010	32768	178.171.127.255	178.171.0.0
POIG Ltd.	13/04/2010	32768	178.173.127.255	178.173.0.0
PJSC MegaFon	22/01/2010	262144	178.179.255.255	178.176.0.0
PJSC Rostelecom	03/02/2010	262144	178.187.255.255	178.184.0.0
OJSC "OAO TATTELECOM"	31/03/2010	262144	178.207.255.255	178.204.0.0
McHost.Ru	10/03/2010	8192	178.208.95.255	178.208.64.0
OJSC Comcon	24/03/2010	8192	178.208.159.255	178.208.128.0
Metroset Ltd.	21/04/2010	8192	178.208.255.255	178.208.224.0
OOO WestCall Ltd.	28/05/2010	8192	178.209.127.255	178.209.96.0
StackNet Service, LLC	09/06/2010	8192	178.209.223.255	178.209.192.0
Net By Net Holding LLC	10/06/2010	8192	178.209.255.255	178.209.224.0
IS Dialog LLC	10/06/2010	8192	178.210.31.255	178.210.0.0
KVANT-TELECOM - Closed Joint Stock Company	11/06/2010	8192	178.210.63.255	178.210.32.0
JSC "RU-CENTER"	14/06/2010	8192	178.210.95.255	178.210.64.0
PJSC MegaFon	25/06/2010	8192	178.211.31.255	178.211.0.0
INTERTELECOMUNICATIONS group, Ltd.	22/07/2010	8192	178.211.191.255	178.211.160.0
	22/07/2010	8192	178.214.63.255	178.214.32.0
OJSC "Ufanet"	20/10/2010	8192	178.214.255.255	178.214.224.0
	06/07/2010	16384	178.215.127.255	178.215.64.0
	15/02/2011	4096	178.215.159.255	178.215.144.0
	18/03/2010	4096	178.218.15.255	178.218.0.0
	22/03/2010	4096	178.218.31.255	178.218.16.0
	22/03/2010	4096	178.218.47.255	178.218.32.0
	23/03/2010	4096	178.218.63.255	178.218.48.0
	07/04/2010	4096	178.218.95.255	178.218.80.0
	07/04/2010	4096	178.218.111.255	178.218.96.0



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	13/04/2010	4096	178.218.127.255	178.218.112.0
	27/04/2010	4096	178.218.223.255	178.218.208.0
	03/06/2010	4096	178.219.159.255	178.219.144.0
	04/06/2010	4096	178.219.175.255	178.219.160.0
	08/06/2010	4096	178.219.191.255	178.219.176.0
	21/06/2010	4096	178.219.223.255	178.219.208.0
PJSC Rostelecom	10/05/2010	65536	178.234.255.255	178.234.0.0
JSC Meganet	26/05/2010	4096	178.236.31.255	178.236.16.0
"Russian company" LLC	11/06/2010	4096	178.236.223.255	178.236.208.0
OOO 'Pronet'	16/06/2010	4096	178.236.255.255	178.236.240.0
Limited liability company Mail.Ru	18/06/2010	4096	178.237.31.255	178.237.16.0
OOO SET	28/06/2010	4096	178.237.191.255	178.237.176.0
Telediscount ZAO	29/06/2010	4096	178.237.207.255	178.237.192.0
Federal State Unitary Enterprise of the Order of the Red Banner of Labour "Russian Broad-casting and Notification Network"	01/07/2010	4096	178.237.255.255	178.237.240.0
JSC "Severen-Telecom"	01/07/2010	4096	178.238.31.255	178.238.16.0
JSC Mastertel	16/07/2010	4096	178.238.127.255	178.238.112.0
Home Internet Ltd	26/05/2010	16384	178.252.127.255	178.252.64.0
JSC Rosin.telekom	31/05/2010	16384	178.252.255.255	178.252.192.0
	11/08/2011	8192	188.0.31.255	188.0.0.0
	25/05/2011	8192	188.0.191.255	188.0.160.0
	25/05/2011	8192	188.0.223.255	188.0.192.0
PJSC Rostelecom	03/02/2009	262144	188.19.255.255	188.16.0.0
PJSC Rostelecom	30/09/2011	65536	188.32.255.255	188.32.0.0
Netorn LLC	31/03/2009	65536	188.35.255.255	188.35.0.0
Closed Joint Stock Company TransTeleCom	27/04/2009	65536	188.43.255.255	188.43.0.0
Federal State Educational Institution of Higher Professional Education M.V.Lomonosov Moscow State University	03/10/2011	8192	188.44.63.255	188.44.32.0
JSC "Zap-Sib TransTeleCom", Novosibirsk	04/10/2011	8192	188.44.127.255	188.44.96.0
LTD AtelRybinsk	25/08/2009	4096	188.68.31.255	188.68.16.0
Ruscom Ltd.	25/08/2009	4096	188.68.79.255	188.68.64.0
LLC Cifrovie Svyaz Urala	25/08/2009	4096	188.68.95.255	188.68.80.0
Iskratelecom PJSC	25/08/2009	8192	188.68.127.255	188.68.96.0
Closed Joint Stock Company TransTeleCom	25/08/2009	8192	188.68.159.255	188.68.128.0
OOO "Network of data-centers "Selectel"	25/08/2009	4096	188.68.223.255	188.68.208.0
PJSC Rostelecom	17/07/2009	16384	188.73.191.255	188.73.128.0
OOO PLANCRONIX	21/08/2009	16384	188.75.63.255	188.75.0.0
MTS PJSC	25/08/2009	16384	188.75.255.255	188.75.192.0
Interproekt Ltd.	27/04/2009	16384	188.112.255.255	188.112.192.0
PJSC Rostelecom	01/05/2009	16384	188.113.63.255	188.113.0.0
Saknafin Cable Telesystems Ltd	04/05/2009	16384	188.113.191.255	188.113.128.0
PJSC Rostelecom	07/05/2009	16384	188.114.63.255	188.114.0.0
Sherpakov Andrei Andreevich	18/05/2009	4096	188.114.223.255	188.114.208.0
"Resurs-Svyaz" Ltd	08/06/2009	16384	188.116.191.255	188.116.128.0
	17/04/2009	4096	188.120.47.255	188.120.32.0
OJSC Kostroma Municipal Telephone Network	17/04/2009	4096	188.120.63.255	188.120.48.0
JSC IOT	04/05/2009	8192	188.120.255.255	188.120.224.0
PJSC "Vimpelcom"	04/06/2009	8192	188.122.191.255	188.122.160.0
JSC AIST	08/06/2009	8192	188.122.255.255	188.122.224.0
Regional Digital Telecommunication Company	09/06/2009	8192	188.123.63.255	188.123.32.0



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OJSC Comcor	17/06/2009	8192	188.123.255.255	188.123.224.0
Closed Joint Stock Company Oskolnet	22/06/2009	8192	188.124.127.255	188.124.96.0
NetInvest LLC	26/06/2009	4096	188.124.239.255	188.124.224.0
DomoLAN Ltd.	22/07/2009	8192	188.127.63.255	188.126.32.0
	27/07/2009	8192	188.127.63.255	188.127.32.0
PJSC Rostelecom	11/03/2009	32768	188.128.127.255	188.128.0.0
	31/03/2009	32768	188.130.255.255	188.130.128.0
JSC "ER-Telecom Holding"	23/04/2009	16384	188.133.191.255	188.133.128.0
PJSC Rostelecom	23/04/2009	16384	188.133.255.255	188.133.192.0
JSC "ER-Telecom Holding"	27/04/2009	32768	188.134.127.255	188.134.0.0
Petersburg Internet Network ltd.	15/06/2009	32768	188.143.255.255	188.143.128.0
PJSC MegaFon	20/05/2009	65536	188.162.255.255	188.162.0.0
UG-TELECOM Ltd.	12/09/2012	8192	188.164.191.255	188.164.160.0
Closed Joint Stock Company TransTeleCom	16/06/2009	65536	188.168.255.255	188.168.0.0
PJSC MegaFon	24/06/2009	65536	188.170.255.255	188.170.0.0
JSC "ER-Telecom Holding"	19/06/2009	131072	188.187.255.255	188.186.0.0
	15/02/2011	8192	188.190.159.255	188.190.128.0
	17/02/2011	8192	188.190.223.255	188.190.192.0
	16/02/2011	4096	188.191.15.255	188.191.0.0
	18/02/2011	4096	188.191.31.255	188.191.16.0
	23/02/2011	4096	188.191.95.255	188.191.80.0
	01/03/2011	4096	188.191.127.255	188.191.112.0
OJSC "OAO TATTELECOM"	22/06/2009	8192	188.225.127.255	188.225.96.0
LLC "KomTehCentr"	01/07/2009	32768	188.226.127.255	188.226.0.0
Prometey LLC	22/07/2009	8192	188.227.31.255	188.227.0.0
Prometey LLC	22/07/2009	4096	188.227.79.255	188.227.64.0
Prometey LLC	22/07/2009	4096	188.227.127.255	188.227.112.0
JSC "ER-Telecom Holding"	26/01/2011	262144	188.235.255.255	188.232.0.0
SkyNet Ltd.	23/06/2009	131072	188.243.255.255	188.242.0.0
EXTREME LTD	07/07/2009	4096	188.244.15.255	188.244.0.0
2COM Co Ltd.	24/07/2009	4096	188.244.47.255	188.244.32.0
Closed Joint Stock Company TransTeleCom	11/01/2011	32768	188.244.255.255	188.244.128.0
OOO WestCall Ltd.	19/08/2009	8192	188.246.191.255	188.246.160.0
JSC RDE "Ujco"	24/08/2009	8192	188.247.63.255	188.247.32.0
PJSC Rostelecom	15/02/2011	32768	188.254.127.255	188.254.0.0
PJSC Rostelecom	25/02/2011	32768	188.255.127.255	188.255.0.0
	23/09/1991	4352	192.124.191.255	192.124.175.0
	01/09/1993	4096	193.124.191.255	193.124.176.0
	08/08/2012	8192	193.151.223.255	193.151.192.0
OKB MEI	14/05/1996	8192	193.192.159.255	193.192.128.0
	09/06/1993	16384	193.232.63.255	193.232.0.0
	09/06/1993	4096	193.232.111.255	193.232.96.0
	09/06/1993	8192	193.232.223.255	193.232.192.0
OOO FREEnet Group	03/05/1994	32768	193.233.127.255	193.233.0.0
OOO FREEnet Group	17/06/1996	32768	193.233.255.255	193.233.128.0
Net By Net Holding LLC	15/07/1996	8192	194.8.191.255	194.8.160.0
	09/06/2009	4096	194.9.239.255	194.9.224.0
OOO "BG Market"	01/12/1993	4096	194.12.63.255	194.12.48.0
"Domain names registrar REG.RU", Ltd	13/06/1994	8192	194.58.127.255	194.58.96.0
OJSC Kostroma Municipal Telephone Network	13/06/1994	8192	194.58.191.255	194.58.160.0
PJSC "Vimpelcom"	18/04/1994	16384	194.67.63.255	194.67.0.0
JSC "CREDO-TELECOM"	30/01/1997	16384	194.67.191.255	194.67.128.0



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	30/01/1997	8192	194.67.223.255	194.67.192.0
JSC "CREDO-TELECOM"	30/01/1997	8192	194.67.255.255	194.67.224.0
LLC Orange Business Services	17/08/1994	8192	194.84.31.255	194.84.0.0
LLC Orange Business Services	27/02/1996	8192	194.84.63.255	194.84.32.0
LLC Orange Business Services	27/02/1996	16384	194.84.125.255	194.84.64.0
LLC Orange Business Services	27/02/1996	32768	194.84.255.255	194.84.128.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	19/08/1994	4096	194.85.47.255	194.85.32.0
	19/08/1994	4096	194.85.63.255	194.85.48.0
	19/08/1994	8192	194.85.159.255	194.85.128.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	19/08/1994	4096	194.85.175.255	194.85.160.0
	19/08/1994	8192	194.85.223.255	194.85.192.0
	19/08/1994	4096	194.85.239.255	194.85.224.0
Limited Liability Company "Relcom Group"	01/09/1994	65536	194.87.255.255	194.87.0.0
Communication, Communications, Informatics Ltd.	26/11/1996	8192	194.105.223.255	194.105.192.0
INCOMA JSC	04/07/1996	8192	194.117.95.255	194.117.64.0
OJS Moscow city telephone network	06/02/1995	4096	194.135.223.255	194.135.208.0
OJS Moscow city telephone network	06/02/1995	4096	194.135.239.255	194.135.224.0
	01/06/2004	8192	194.150.159.255	194.150.128.0
PJSC "Vimpelcom"	01/12/1995	8192	194.154.95.255	194.154.64.0
PJSC "Vimpelcom"	05/12/1995	65536	194.186.255.255	194.186.0.0
	07/08/1995	16384	194.190.63.255	194.190.0.0
	07/08/1995	8192	194.190.95.255	194.190.64.0
	07/08/1995	4096	194.190.111.255	194.190.96.0
	07/08/1995	4096	194.190.191.255	194.190.176.0
	07/08/1995	8192	194.190.223.255	194.190.192.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	07/08/1995	8192	194.190.255.255	194.190.224.0
	03/01/1996	4096	194.226.15.255	194.226.0.0
Joint-stock company Internet Exchange "MSK-IX"	03/01/1996	4096	194.226.79.255	194.226.64.0
Autonomous Nonprofit Organisation "Russian Scientific-Research Institute for Public Networks"	03/01/1996	4096	194.226.95.255	194.226.80.0
	03/01/1996	4096	194.226.159.255	194.226.144.0
	03/01/1996	8192	194.226.191.255	194.226.160.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	03/01/1996	8192	194.226.223.255	194.226.192.0
	03/01/1996	8192	194.226.255.255	194.226.224.0
Association of financial market participants "Nonprofit Partnership for the Development of Financial Market RTS"	11/03/1996	8192	194.247.159.255	194.247.128.0
Zenon N.S.P.	31/01/1997	8192	195.2.95.255	195.2.64.0
PJSC MegaFon	14/01/1997	8192	195.5.159.255	195.5.128.0
MTS PJSC	14/01/1998	8192	195.7.191.255	195.7.160.0
OJS Moscow city telephone network	02/10/1996	65536	195.9.255.255	195.9.0.0



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PJSC "Vimpelcom"	28/01/1997	8192	195.12.95.255	195.12.64.0
PJSC "Vimpelcom"	10/06/1997	8192	195.14.63.255	195.14.32.0
PJSC "Vimpelcom"	30/05/1997	8192	195.16.63.255	195.16.32.0
PJSC MegaFon	13/03/1997	8192	195.16.127.255	195.16.96.0
PJSC Rostelecom	17/06/1997	8192	195.18.63.255	195.18.32.0
	29/10/1996	8192	195.19.63.255	195.19.32.0
	29/10/1996	16384	195.19.127.255	195.19.64.0
	09/04/1997	32768	195.19.255.255	195.19.128.0
JSC Laboratory of New Information Technologies LANIT	13/10/1997	8192	195.26.191.255	195.26.160.0
Moscow Center of New Telecommunication Technologies JSC	19/01/1998	4096	195.28.47.255	195.28.32.0
OOO Flexline-N	19/01/1998	4096	195.28.63.255	195.28.48.0
MTS PJSC	01/08/1996	8192	195.34.31.255	195.34.0.0
MTS PJSC	20/06/1997	8192	195.34.63.255	195.34.32.0
PJSC Rostelecom	25/11/1997	8192	195.34.255.255	195.34.224.0
PJSC Rostelecom	24/11/1997	8192	195.38.63.255	195.38.32.0
MTS PJSC	03/11/1999	8192	195.42.95.255	195.42.64.0
CJSC "DataForce IP"	15/10/1997	8192	195.42.191.255	195.42.160.0
PJSC Rostelecom	22/08/1997	8192	195.46.127.255	195.46.96.0
PJSC "Vimpelcom"	11/10/1997	8192	195.46.191.255	195.46.160.0
PJSC Rostelecom	05/08/1996	8192	195.54.31.255	195.54.0.0
Cronyx Plus Ltd.	30/05/1997	8192	195.54.223.255	195.54.192.0
PJSC "Vimpelcom"	06/08/1996	8192	195.58.31.255	195.58.0.0
Limited Liability Company "Relcom Group"	30/06/1997	8192	195.58.63.255	195.58.32.0
CJSC Ural WES	24/03/1997	8192	195.64.223.255	195.64.192.0
PJSC "Vimpelcom"	10/03/1999	16384	195.68.191.255	195.68.128.0
Saint Petersburg State University	17/04/1997	8192	195.70.223.255	195.70.192.0
PJSC Rostelecom	06/02/1998	8192	195.72.255.255	195.72.224.0
PJSC Rostelecom	19/11/1996	8192	195.90.159.255	195.90.128.0
PJSC Rostelecom	06/05/1997	8192	195.90.191.255	195.90.160.0
Cronyx Plus Ltd.	01/08/1997	32768	195.91.255.255	195.91.128.0
OOO WestCall Ltd.	04/12/1997	8192	195.94.255.255	195.94.224.0
MTS PJSC	12/03/1997	8192	195.96.95.255	195.96.64.0
PJSC Rostelecom	26/09/1997	8192	195.96.191.255	195.96.160.0
PJSC "Vimpelcom"	11/07/1997	8192	195.98.63.255	195.98.32.0
IC VO RONEZH	20/02/1997	8192	195.98.95.255	195.98.64.0
COM Co Ltd.	22/10/1997	8192	195.98.191.255	195.98.160.0
Mastertel Systems Ltd.	23/01/1998	8192	195.112.127.255	195.112.96.0
PJSC Rostelecom	26/01/1998	8192	195.112.255.255	195.112.224.0
MTS PJSC	12/12/1997	8192	195.122.255.255	195.122.224.0
JSC Macomnet	12/03/1997	8192	195.128.95.255	195.128.64.0
Net By Net Holding LLC	14/04/1997	65536	195.131.255.255	195.131.0.0
Limited Liability Company "Relcom Group"	15/04/1997	16384	195.133.63.255	195.133.0.0
Limited Liability Company "Relcom Group"	15/04/1997	8192	195.133.95.255	195.133.64.0
Limited Liability Company "Relcom Group"	15/04/1997	4096	195.133.159.255	195.133.144.0
Netone Rus, CJSC	15/04/1997	4096	195.133.239.255	195.133.224.0
JSC Mastertel	15/04/1997	4096	195.133.255.255	195.133.240.0
PJSC Rostelecom	02/04/1997	8192	195.144.223.255	195.144.192.0
PJSC MegaFon	13/11/1997	8192	195.144.255.255	195.144.224.0
JSC Relline	25/02/1996	8192	195.146.95.255	195.146.64.0
LLC Orange Business Services	26/06/1997	65536	195.151.255.255	195.151.0.0



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JSC RTComm.RU	05/06/1997	8192	195.161.31.255	195.161.0.0
JSC RTComm.RU	03/06/1998	8192	195.161.63.255	195.161.32.0
JSC RTComm.RU	23/09/1998	16384	195.161.127.255	195.161.64.0
JSC RTComm.RU	24/02/1999	32768	195.161.255.255	195.161.128.0
PJSC Rostelecom	25/07/1997	8192	195.162.31.255	195.162.32.0
PJSC Rostelecom	03/11/1997	8192	195.166.191.255	195.166.160.0
East Telecom Ltd.	25/07/1997	8192	195.170.63.255	195.170.32.0
JVC INFOTEL	06/05/1997	8192	195.170.223.255	195.170.192.0
Federal State Budgetary Institution of Science "Space Research Institute of the Russian Academy of Sciences".	19/12/1997	8192	195.170.255.255	195.170.224.0
"UMOS CENTER" LLC	06/05/1997	8192	195.178.223.255	195.178.192.0
Comlink Telecom Ltd.	17/12/1996	8192	195.182.159.255	195.182.128.0
PJSC "Vimpelcom"	02/01/1998	8192	195.190.127.255	195.190.96.0
Irkutsk Business Net	28/07/1997	8192	195.206.63.255	195.206.32.0
	19/04/1996	4096	195.208.15.255	195.208.0.0
	19/04/1996	8192	195.208.63.255	195.208.32.0
	19/04/1996	16384	195.208.127.255	195.208.64.0
	19/04/1996	16384	195.208.191.255	195.208.128.0
	19/04/1996	4096	195.208.207.255	195.208.192.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	19/04/1996	8192	195.208.255.255	195.208.224.0
Joint-stock company "Internet Exchange "MSK-IX RECONN. Operator Svyazi, LLC	19/07/1996	8192	195.209.31.255	195.209.0.0
	19/07/1996	8192	195.209.63.255	195.209.32.0
	19/07/1996	16384	195.209.127.255	195.209.64.0
	19/07/1996	8192	195.209.191.255	195.209.160.0
	19/07/1996	8192	195.209.223.255	195.209.192.0
The federal state autonomous educational establishment of additional professional education Center of Realization of State Educational Policy and Informational Technologies	19/07/1996	8192	195.209.255.255	195.209.224.0
MTS PJSC	23/12/1996	8192	195.210.159.255	195.210.128.0
MTS PJSC	05/09/1997	8192	195.210.191.255	195.210.160.0
PJSC "Vimpelcom"	24/12/1996	32768	195.218.255.255	195.218.128.0
MTS PJSC	30/12/1996	8192	195.222.159.255	195.222.128.0
PJSC "Vimpelcom"	06/11/1997	8192	195.222.191.255	195.222.160.0
PJSC MegaFon	06/03/1997	8192	195.230.95.255	195.230.64.0
PJSC "Vimpelcom"	10/12/1997	65536	195.239.255.255	195.239.0.0
Awanti Ltd.	19/09/1996	8192	195.242.31.255	195.242.0.0
PJSC Rostelecom	03/06/1998	8192	212.0.95.255	212.0.64.0
Net By Net Holding LLC	29/09/1999	8192	212.1.255.255	212.1.224.0
PJSC Rostelecom	07/06/2005	8192	212.3.159.255	212.3.128.0
JSC Macomnet	10/07/1998	16384	212.5.127.255	212.5.64.0
PJSC Rostelecom	07/04/1999	8192	212.5.191.255	212.5.160.0
Association of financial market participants "Nonprofit Partnership for the Development of Financial Market RTS"	12/10/1999	8192	212.5.255.255	212.5.224.0
Sakhalin Network Communications Co. (SNC)	26/02/1998	8192	212.6.31.255	212.6.0.0
T2 Mobile LLC	07/10/2009	8192	212.7.127.255	212.7.96.0
Flex Ltd.	12/10/1999	8192	212.7.255.255	212.7.224.0



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Moscow Mayor's Office	19/05/1998	8192	212.11.159.255	212.11.128.0
PJSC Rostelecom	20/02/1998	8192	212.12.31.255	212.12.0.0
Federal State Unitary Enterprise "Television Technical Center "Ostankino"	08/06/1998	8192	212.12.95.255	212.12.64.0
Net By Net Holding LLC	06/11/2008	8192	212.13.31.255	212.13.0.0
"Central Telegraph" Public Joint-stock Company	06/09/1999	8192	212.13.127.255	212.13.96.0
PJSC MegaFon	26/03/1999	8192	212.14.191.255	212.14.160.0
PJSC Rostelecom	17/08/1998	8192	212.14.223.255	212.14.192.0
NovInvestRezerv, LLC	23/06/2008	8192	212.15.63.255	212.15.32.0
"Central Telegraph" Public Joint-stock Company	06/09/1999	8192	212.15.127.255	212.15.96.0
Research and production firm "IMT-Center" OOO	16/02/1998	8192	212.16.31.255	212.16.0.0
JSC Vostoktelecom	06/08/1998	8192	212.16.223.255	212.16.192.0
JSC Avantel	20/03/1998	8192	212.17.31.255	212.17.0.0
JSC "Redcom-Internet"	23/03/1998	8192	212.19.31.255	212.19.0.0
PJSC Rostelecom	20/02/1998	8192	212.20.31.255	212.20.0.0
PJSC Rostelecom	20/02/1998	8192	212.20.63.255	212.20.32.0
Maginfo CJSC	25/02/2009	8192	212.21.31.255	212.21.0.0
LLC IT-service	22/06/1998	8192	212.22.95.255	212.22.64.0
PJSC "Vimpelcom"	17/07/1998	8192	212.23.95.255	212.23.64.0
PJSC Rostelecom	07/10/1999	8192	212.26.255.255	212.26.224.0
MTS PJSC	17/05/1998	16384	212.30.191.255	212.30.128.0
PJSC Rostelecom	05/08/1998	8192	212.32.223.255	212.32.192.0
JSC "Globus-Telecom"	01/03/2006	4096	212.33.15.255	212.33.0.0
JSC "ER-Telecom Holding"	22/10/1999	8192	212.33.255.255	212.33.224.0
Digit One LLC	25/02/1999	8192	212.34.63.255	212.34.32.0
PJSC Rostelecom	04/12/2007	8192	212.34.127.255	212.34.96.0
PJSC Rostelecom	14/02/2011	8192	212.35.191.255	212.35.160.0
Regional Digital Telecommunication Company	14/11/2008	8192	212.36.255.255	212.36.224.0
	26/08/1999	8192	212.38.127.255	212.38.96.0
Bank of Russia	07/08/1998	8192	212.40.223.255	212.40.192.0
Krastelecomservice Ltd.	31/03/1998	8192	212.41.31.255	212.41.0.0
Digit One LLC	22/05/2008	8192	212.41.63.255	212.41.32.0
RopNet	01/03/1999	8192	212.42.63.255	212.42.32.0
PJSC MegaFon	11/06/1998	8192	212.44.95.255	212.44.64.0
PJSC "Vimpelcom"	23/04/1998	8192	212.44.159.255	212.44.128.0
OJSC Comcor	02/04/1998	8192	212.45.31.255	212.45.0.0
Teleservice JSC	22/01/2008	8192	212.45.255.255	212.45.224.0
OOO "ASVT"	07/03/1998	8192	212.46.31.255	212.46.0.0
PJSC "Vimpelcom"	21/08/1998	16384	212.46.255.255	212.46.192.0
MTS PJSC	06/06/2002	8192	212.48.63.255	212.48.32.0
Net By Net Holding LLC	14/04/1998	8192	212.48.159.255	212.48.128.0
PJSC Rostelecom	05/08/1998	8192	212.48.223.255	212.48.192.0
LLC "KomTehCentr"	13/09/1999	8192	212.49.127.255	212.49.96.0
Tario Communications LLC	15/03/1999	8192	212.53.63.255	212.53.32.0
PJSC Rostelecom	14/07/2006	8192	212.55.127.255	212.55.96.0
International Communications Company LLC	13/09/1999	8192	212.57.127.255	212.57.96.0
PJSC Rostelecom	02/06/1998	16384	212.57.191.255	212.57.128.0
PJSC Rostelecom	21/08/1998	8192	212.58.223.255	212.58.192.0
JSC "Evrasia Telecom Ru"	16/05/2006	4096	212.59.111.255	212.59.96.0
JSC "Severen-Telecom"	16/05/2006	4096	212.59.127.255	212.59.112.0
CITIC Telecom CPC Rus LLC	28/08/2003	8192	212.65.95.255	212.65.64.0
OOO "MediaSeti"	27/10/1998	8192	212.67.31.255	212.67.0.0



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PJSC MegaFon	18/11/1999	8192	212.69.127.255	212.69.96.0
Limited Liability Company "Transneft Telecom"	19/11/1999	8192	212.73.127.255	212.73.96.0
MTS PJSC	18/06/2008	8192	212.74.223.255	212.74.192.0
ITERANET LLC	26/05/2000	8192	212.74.255.255	212.74.224.0
Closed Joint Stock Company TransTeleCom	15/05/2008	8192	212.75.127.255	212.75.128.0
E-Light-Telecom Ltd.	25/09/2008	8192	212.75.223.255	212.75.192.0
JSC "ER-Telecom Holding"	01/06/2010	8192	212.75.255.255	212.75.224.0
MnogoByte LLC	13/01/2010	8192	212.76.159.255	212.76.128.0
Sibitex Ltd	09/07/1999	8192	212.76.191.255	212.76.160.0
OJSC RITC	15/05/2008	8192	212.77.159.255	212.77.128.0
Institute of information & analytical technologies IIAT, Limited	02/11/1998	8192	212.83.31.255	212.83.0.0
PJSC Rostelecom	18/05/1999	8192	212.91.223.255	212.91.192.0
PJSC "Vimpelcom"	27/11/1998	16384	212.92.191.255	212.92.128.0
PJSC Rostelecom	16/01/2008	4096	212.94.15.255	212.94.0.0
Terralink LLC	16/01/2008	4096	212.94.31.255	212.94.16.0
PJSC Rostelecom	12/12/1999	8192	212.94.127.255	212.94.96.0
PJSC Rostelecom	27/09/1999	8192	212.96.127.255	212.96.96.0
PJSC Rostelecom	20/04/1999	8192	212.96.223.255	212.96.192.0
OJSC Comcor	27/11/1998	8192	212.100.159.255	212.100.128.0
JSC "ER-Telecom Holding"	15/10/2009	8192	212.103.127.255	212.103.96.0
INSYS LLC	19/05/2010	8192	212.104.95.255	212.104.64.0
PJSC Rostelecom	23/05/2008	8192	212.106.63.255	212.106.32.0
PJSC Rostelecom	21/05/1999	8192	212.107.223.255	212.107.192.0
Limited Company Information and Consulting Agency	18/03/2008	8192	212.107.255.255	212.107.224.0
Limited Liability Company "Alitel"	05/11/1999	8192	212.108.127.255	212.108.96.0
Limited Company Svyazservice	14/04/2010	8192	212.109.31.255	212.109.0.0
"AMT GROUP TELECOM" Limited Liability Company	09/02/1999	8192	212.111.95.255	212.111.64.0
LIMITED LIABILITY COMPANY RELCOM-SPB	30/11/1999	8192	212.113.127.255	212.113.96.0
Ekaterinburg-2000 LLC	09/10/2008	8192	212.113.255.255	212.113.224.0
Limited Liability Company "Rostelecom Group"	25/10/1998	8192	212.114.31.255	212.114.0.0
Prometey LLC	19/06/2008	8192	212.116.127.255	212.116.96.0
CityLanCom LTD	26/09/2002	8192	212.118.63.255	212.118.32.0
T2 Mobile LLC	02/12/1999	8192	212.119.127.255	212.119.96.0
PJSC MegaFon	10/08/1999	8192	212.119.191.255	212.119.160.0
PJSC "Vimpelcom"	26/05/1999	16384	212.119.255.255	212.119.192.0
PJSC Rostelecom	09/07/1999	8192	212.120.191.255	212.120.160.0
PJSC Rostelecom	26/10/1998	8192	212.122.31.255	212.122.0.0
PJSC Rostelecom	29/05/2008	8192	212.124.31.255	212.124.0.0
MnogoByte LLC	04/07/2008	8192	212.124.127.255	212.124.96.0
T2 Mobile LLC	22/01/2003	8192	212.129.127.255	212.129.96.0
Digit One LLC	04/08/2000	8192	212.152.63.255	212.152.32.0
PJSC Rostelecom	15/12/1998	65536	212.164.255.255	212.164.0.0
LLC Orange Business Services	02/11/1998	65536	212.176.255.255	212.176.0.0
MTS PJSC	12/01/1999	32768	212.188.127.255	212.188.0.0
	15/01/1998	8192	212.192.31.255	212.192.0.0
	15/01/1998	8192	212.192.63.255	212.192.32.0
	15/01/1998	8192	212.192.95.255	212.192.64.0
FUND OF DEVELOPMENT OF NETWORK TECHNOLOGIES "INDATA"	15/01/1998	4096	212.192.111.255	212.192.96.0
	15/01/1998	4096	212.192.127.255	212.192.112.0



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	15/01/1998	8192	212.192.159.255	212.192.128.0
FUND OF DEVELOPMENT OF NETWORK TECHNOLOGIES "INDATA"	15/01/1998	4096	212.192.191.255	212.192.176.0
	15/01/1998	4096	212.192.207.255	212.192.192.0
	15/01/1998	4096	212.192.208.255	212.192.208.0
	15/01/1998	4096	212.192.255.255	212.192.240.0
	12/05/1999	8192	212.193.31.255	212.193.0.0
	12/05/1999	8192	212.193.63.255	212.193.32.0
	12/05/1999	8192	212.193.95.255	212.193.64.0
Joint-stock company "Internet Exchange "MSK-IX"	12/05/1999	4096	212.193.127.255	212.193.112.0
	12/05/1999	4096	212.193.143.255	212.193.128.0
Joint-stock company "Internet Exchange "MSK-IX"	12/05/1999	4096	212.193.159.255	212.193.144.0
	12/05/1999	8192	212.193.191.255	212.193.160.0
Joint-stock company "Internet Exchange "MSK-IX"	12/05/1999	8192	212.193.223.255	212.193.192.0
	12/05/1999	8192	212.193.255.255	212.193.224.0
PJSC Rostelecom	11/03/1998	65536	212.220.255.255	212.220.0.0
LLC "Real-net"	15/05/2010	4096	212.232.15.255	212.232.0.0
Yarnet Ltd	19/05/2010	8192	212.232.63.255	212.232.32.0
SatTel Corporation, Ltd.	17/03/2010	4096	212.232.79.255	212.232.64.0
"AMT GROUP TELECOM" Limited Liability Company	28/08/2000	16384	212.233.127.255	212.233.64.0
MTS PJSC	26/02/1998	32768	212.248.127.255	212.248.0.0
SatTel Corporation, Ltd.	18/02/2008	8192	213.21.31.255	213.21.0.0
SatTel Corporation, Ltd.	18/02/2008	4096	213.21.63.255	213.21.48.0
PJSC Rostelecom	12/07/1999	65536	213.24.255.255	213.24.0.0
MTS PJSC	16/12/2002	32768	213.27.127.255	213.27.0.0
PJSC "Vimpelcom"	11/01/2001	32768	213.33.255.255	213.33.128.0
JSC RTComm.RU	24/02/2000	16384	213.59.63.255	213.59.0.0
JSC RTComm.RU	24/02/2000	8192	213.59.95.255	213.59.64.0
JSC RTComm.RU	24/02/2000	4096	213.59.111.255	213.59.96.0
	24/02/2000	4096	213.59.127.255	213.59.112.0
OOO SET	24/02/2000	8192	213.59.159.255	213.59.128.0
JSC "SEVTELEKOM"	24/02/2000	4096	213.59.175.255	213.59.160.0
PJSC Rostelecom	24/02/2000	16384	213.59.255.255	213.59.192.0
VELNET, LLC	01/04/2008	8192	213.79.31.255	213.79.0.0
OJSC Comcor	29/01/2008	16384	213.79.127.255	213.79.64.0
Closed Joint Stock Company TransTeleCom	13/03/2001	32768	213.80.255.255	213.80.128.0
"Central Telegraph" Public Joint-stock Company	15/05/2000	32768	213.85.127.255	213.85.0.0
"Central Telegraph" Public Joint-stock Company	19/07/2002	32768	213.85.255.255	213.85.128.0
MTS PJSC	10/04/2000	65536	213.87.255.255	213.87.0.0
Net By Net Holding LLC	27/04/2010	32768	213.88.127.255	213.88.0.0
	24/06/2009	4096	213.109.15.255	213.109.0.0
	07/07/2009	4096	213.109.31.255	213.109.16.0
	16/02/2011	4096	213.109.63.255	213.109.48.0
	09/09/2009	4096	213.109.111.255	213.109.96.0
	16/06/2009	8192	213.110.31.255	213.110.0.0
	23/06/2009	8192	213.110.63.255	213.110.32.0
	14/09/2009	8192	213.110.223.255	213.110.192.0
	22/09/2009	8192	213.110.255.255	213.110.224.0
MTS PJSC	26/05/2008	8192	213.128.31.255	213.128.0.0
Siberian Internet Company LLC	10/04/2000	8192	213.128.223.255	213.128.192.0
PJSC Rostelecom	08/11/2007	8192	213.129.63.255	213.129.32.0



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Closed Joint Stock Company TransTeleCom	10/05/2002	8192	213.129.127.255	213.129.96.0
SINP MSU	05/01/2000	8192	213.131.31.255	213.131.0.0
PJSC "Vimpelcom"	02/03/2000	8192	213.132.95.255	213.132.64.0
Avantel, Close Joint Stock Company	26/04/2000	8192	213.134.223.255	213.134.192.0
LLC "Nauka-Svyaz"	05/04/2000	8192	213.135.31.255	213.135.64.0
PJSC Rostelecom	05/06/2002	8192	213.135.127.255	213.135.96.0
PJSC Rostelecom	18/02/2000	8192	213.135.159.255	213.135.128.0
Closed Joint Stock Company TransTeleCom	11/10/2002	8192	213.137.255.255	213.137.224.0
Closed Joint Stock Company TransTeleCom	14/07/2008	8192	213.138.95.255	213.138.64.0
Net By Net Holding LLC	20/04/2000	4096	213.138.207.255	213.138.192.0
PJSC "Vimpelcom"	21/06/2002	8192	213.140.127.255	213.140.96.0
PJSC Rostelecom	11/12/2002	8192	213.140.255.255	213.140.224.0
Net By Net Holding LLC	18/11/2003	8192	213.141.159.255	213.141.128.0
Closed Joint Stock Company TransTeleCom	17/12/2002	8192	213.141.255.255	213.141.224.0
PJSC Rostelecom	18/10/2010	8192	213.142.63.255	213.142.32.0
PJSC "Vimpelcom"	27/04/2000	8192	213.142.223.255	213.142.192.0
Net By Net Holding LLC	28/01/2010	8192	213.145.31.255	213.145.0.0
PJSC Rostelecom	02/11/2010	8192	213.145.63.255	213.145.32.0
MTS PJSC	15/11/2000	8192	213.147.63.255	213.147.32.0
MTS PJSC	17/03/2008	8192	213.147.223.255	213.147.192.0
LLC Tekhnologii Svyazi	11/12/1999	4096	213.148.15.255	213.148.0.0
OOO "Network of data-centers "Selectel"	10/12/1999	4096	213.148.31.255	213.148.16.0
PJSC Rostelecom	28/03/2001	8192	213.148.191.255	213.148.160.0
TIS Dialog LLC	15/04/2008	8192	213.149.31.255	213.149.0.0
PJSC "Vimpelcom"	16/03/2000	8192	213.150.95.255	213.150.64.0
Ekaterinburg-2000 LLC	13/03/2008	8192	213.151.31.255	213.151.0.0
CITIC Telecom CPC Rus LLC	20/01/2000	8192	213.152.159.255	213.152.128.0
PJSC MegaFon	11/04/2001	8192	213.154.191.255	213.154.160.0
PJSC Rostelecom	06/12/2010	8192	213.155.223.255	213.155.192.0
CJSC Transinfoset	26/01/2000	8192	213.156.159.255	213.156.128.0
Kraft-S LLC	17/04/2000	8192	213.156.223.255	213.156.192.0
PJSC Rostelecom	20/12/1999	8192	213.158.31.255	213.158.0.0
Computer Technologies Institute, Ltd	01/03/2000	4096	213.159.79.255	213.159.64.0
JVC INFO TEL	08/05/2000	8192	213.165.223.255	213.165.192.0
Digit One LLC	14/12/2000	8192	213.167.63.255	213.167.32.0
PJSC Rostelecom	21/11/2008	8192	213.167.223.255	213.167.192.0
PJSC MegaFon	24/11/2006	8192	213.168.63.255	213.168.32.0
Zand Holding JSC	20/01/2000	8192	213.168.159.255	213.168.128.0
Quantum CJSC	10/03/2000	8192	213.170.95.255	213.170.64.0
Quantum CJSC	05/07/2002	8192	213.170.127.255	213.170.96.0
LLC "COMLINK"	17/07/2008	8192	213.171.31.255	213.171.0.0
OJSC Comcor	19/12/2000	8192	213.171.63.255	213.171.32.0
PJSC MegaFon	13/12/1999	8192	213.172.31.255	213.172.0.0
MTS PJSC	10/03/2009	8192	213.176.255.255	213.176.224.0
PJSC Rostelecom	13/11/2002	8192	213.177.127.255	213.177.96.0
JSC AIST	17/01/2008	8192	213.178.63.255	213.178.32.0
YANDEX LLC	13/04/2000	8192	213.180.223.255	213.180.192.0
JSC Relline	31/12/1999	8192	213.181.31.255	213.181.0.0
PJSC MegaFon	31/08/2001	8192	213.182.191.255	213.182.160.0
JSC "ER-Telecom Holding"	22/11/2002	8192	213.183.127.255	213.183.96.0
ArtX LLC	14/03/2003	8192	213.183.255.255	213.183.224.0
Educational Network Ltd.	20/01/2000	8192	213.184.159.255	213.184.128.0



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NETIS Telecom Inc.	05/12/2002	8192	213.187.127.255	213.187.96.0
Zenon N.S.P.	09/05/2000	8192	213.189.223.255	213.189.192.0
PJSC "Bashinformsvyaz"	21/03/2003	8192	213.189.255.255	213.189.224.0
JSC "Centrinform"	24/03/2003	8192	213.190.255.255	213.190.224.0
PJSC "Vimpelcom"	17/06/2008	8192	213.191.255.255	213.191.0.0
Iskratelecom CJSC	04/05/2010	8192	213.193.31.255	213.193.0.0
LLC "Nauka-Svyaz"	04/04/2003	4096	213.208.191.255	213.208.176.0
PJSC Rostelecom	19/12/2000	16384	213.210.127.255	213.210.64.0
LLC Digital Network	21/01/2003	8192	213.219.223.255	213.219.192.0
LLC Digital Network	21/01/2003	4096	213.219.239.255	213.219.224.0
PJSC "Vimpelcom"	29/12/1999	16384	213.221.63.255	213.221.0.0
OOO SET	18/10/2010	8192	213.222.255.255	213.222.224.0
PJSC Rostelecom	01/06/2001	16384	213.228.127.255	213.228.64.0
JSC RDE "Unico"	17/02/2006	8192	213.234.31.255	213.234.0.0
PJSC "Vimpelcom"	23/05/2003	16384	213.234.255.255	213.234.192.0
LTD RTComm-Yug	28/02/2008	16384	213.241.255.255	213.241.192.0
PJSC Rostelecom	09/05/2011	16384	213.242.63.255	213.242.0.0
PJSC "Vimpelcom"	27/06/2003	16384	213.242.255.255	213.242.192.0
PJSC MegaFon	10/04/2001	16384	213.243.127.255	213.243.64.0
JSC Macomnet	18/09/2000	16384	213.247.191.255	213.247.128.0
JSC Macomnet	27/05/2002	16384	213.247.255.255	213.247.192.0
LLC Digital Network	03/09/1999	8192	213.248.31.255	213.248.0.0
LLC Digital Network	21/01/2003	8192	213.248.63.255	213.248.32.0
NetAssist LLC	09/05/2003	4096	213.251.207.255	213.251.192.0
AO Countrycom	09/05/2003	4096	213.251.223.255	213.251.208.0
NetAssist LLC	09/05/2003	4096	213.251.239.255	213.251.224.0
AO Countrycom	09/05/2003	4096	213.251.255.255	213.251.240.0
JSC "CREDO-TELECOM"	27/04/2001	16384	213.252.127.255	213.252.64.0
Net By Net Holding LLC	18/10/2002	4096	217.8.95.255	217.8.80.0
MTS PJSC	21/10/2002	4096	217.8.239.255	217.8.224.0
Keldysh Institute of Applied Mathematics, Russian Academy of Sciences	28/10/2002	4096	217.9.95.255	217.9.80.0
PJSC Rostelecom	15/11/2002	4096	217.9.159.255	217.9.144.0
OJSC Comstar	09/08/2000	4096	217.10.47.255	217.10.32.0
Invest Mobile LLC	20/11/2008	4096	217.12.47.255	217.12.32.0
JSC "ER-Telecom Holding"	02/03/2009	4096	217.12.79.255	217.12.64.0
JSC "Alfa-Bank"	24/08/2000	4096	217.12.111.255	217.12.96.0
JSC "Ruscentrosvyaz"	27/11/2002	4096	217.12.255.255	217.12.240.0
OOO "Post ltd"	04/11/2002	4096	217.13.223.255	217.13.208.0
VTB Bank (Public Joint-Stock Company)	10/12/2002	4096	217.14.63.255	217.14.48.0
OOO "NI"	04/09/2000	4096	217.14.207.255	217.14.192.0
PJSC Rostelecom	30/12/2004	4096	217.14.255.255	217.14.240.0
JSC "Futures Telecom"	16/12/2002	4096	217.15.31.255	217.15.16.0
PJSC Rostelecom	06/09/2000	4096	217.15.143.255	217.15.128.0
PJSC Rostelecom	22/10/2002	4096	217.15.159.255	217.15.144.0
MAXnet Systems Ltd.	28/10/2008	4096	217.15.207.255	217.15.192.0
LLC "MASTERHOST"	18/11/2002	4096	217.16.31.255	217.16.16.0
OOO KISS	30/06/2009	4096	217.17.127.255	217.17.112.0
Joint Stock Company Gazprom Space Systems	18/09/2000	4096	217.17.175.255	217.17.160.0
Joint Stock Company Gazprom Space Systems	11/06/2001	4096	217.17.191.255	217.17.176.0
PJSC Rostelecom	19/09/2000	4096	217.18.143.255	217.18.128.0
PJSC Rostelecom	27/10/2000	4096	217.18.159.255	217.18.144.0



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PJSC MegaFon	27/03/2009	4096	217.19.111.255	217.19.96.0
PJSC "Vimpelcom"	23/01/2003	4096	217.19.127.255	217.19.112.0
OJSC RITC	02/02/2009	4096	217.20.79.255	217.20.64.0
PJSC Rostelecom	31/01/2003	4096	217.20.95.255	217.20.80.0
Mail.Ru LLC	30/08/2010	4096	217.20.133.255	217.20.144.0
CJSC RACE TELECOM	02/08/2004	4096	217.21.111.255	217.21.96.0
AO TRANSTELECOM	07/02/2003	4096	217.21.223.255	217.21.208.0
PJSC Rostelecom	20/01/2004	4096	217.23.31.255	217.23.16.0
Closed Joint Stock Company TransTeleCom	05/10/2000	4096	217.23.79.255	217.23.64.0
Closed Joint Stock Company TransTeleCom	02/11/2000	4096	217.23.95.255	217.23.80.0
OJSC "OAO TATTELECOM"	03/03/2003	4096	217.23.191.255	217.23.176.0
PJSC Rostelecom	18/03/2003	4096	217.24.127.255	217.24.112.0
INSYS LLC	21/03/2003	4096	217.24.191.255	217.24.176.0
Information & Computing Center, Ltd.	25/03/2003	4096	217.25.95.255	217.25.80.0
Digit One LLC	07/04/2003	4096	217.25.159.255	217.25.144.0
Omskie kabelnye seti Ltd.	07/05/2008	4096	217.25.223.255	217.25.208.0
IC-VORONEZH	24/05/2006	4096	217.25.239.255	217.25.224.0
OJS Moscow city telephone network	16/10/2000	4096	217.26.15.255	217.26.0.0
Informational technologies and electronic communications LLC	29/05/2009	4096	217.26.31.255	217.26.16.0
ArtX LLC	07/05/2009	4096	217.27.143.255	217.27.128.0
Telenet Ltd.	14/05/2003	4096	217.28.223.255	217.28.208.0
Complex Telecommunications Ltd	31/03/2009	4096	217.28.239.255	217.28.224.0
JSC Avantel	19/05/2003	4096	217.29.95.255	217.29.80.0
OOO "NI"	20/05/2003	4096	217.29.191.255	217.29.176.0
PJSC "Vimpelcom"	04/06/2003	4096	217.30.255.255	217.30.240.0
CJSC Insit-Invest	29/10/2008	4096	217.64.143.255	217.64.128.0
Filanco LLC	03/10/2005	4096	217.65.15.255	217.65.0.0
PJSC Rostelecom	20/06/2003	4096	217.65.95.255	217.65.80.0
MTS PJSC	24/06/2003	4096	217.65.223.255	217.65.208.0
MTS PJSC	25/06/2003	4096	217.66.31.255	217.66.16.0
PJSC "Vimpelcom"	03/11/2000	4096	217.66.79.255	217.66.64.0
PJSC "Vimpelcom"	31/05/2001	4096	217.66.95.255	217.66.80.0
MTS PJSC	30/06/2003	4096	217.66.159.255	217.66.144.0
CentroCredit Bank Moscow JSC	08/11/2000	4096	217.67.15.255	217.67.0.0
"UMOS CENTER" LLC	02/07/2003	4096	217.67.127.255	217.67.112.0
JSC Mastertel	03/07/2003	4096	217.67.191.255	217.67.176.0
Limited liability company Mail.Ru	20/03/2009	4096	217.69.143.255	217.69.128.0
MTS PJSC	17/11/2000	4096	217.69.207.255	217.69.192.0
MTS PJSC	10/08/2001	4096	217.69.223.255	217.69.208.0
Informational-measuring systems Ltd.	28/07/2003	4096	217.70.31.255	217.70.16.0
JSC Rostelecom	20/11/2000	4096	217.70.111.255	217.70.96.0
PJSC Rostelecom	13/12/2000	4096	217.70.127.255	217.70.112.0
	28/05/2003	4096	217.71.143.255	217.71.128.0
T2 Mobile LLC	29/01/2007	4096	217.71.175.255	217.71.160.0
Computer information technology Ltd.	21/11/2008	4096	217.71.239.255	217.71.224.0
Thyphone Communications LLC	23/11/2000	4096	217.72.15.255	217.72.0.0
Best Telecom ISP	25/08/2003	4096	217.72.159.255	217.72.144.0
Thyphone Communications LLC	29/08/2003	4096	217.73.127.255	217.73.112.0
StackNet Service, LLC	15/12/2000	4096	217.73.207.255	217.73.192.0
IBS Expertise LLC	19/12/2000	4096	217.74.47.255	217.74.32.0
Vladivostok State University of Economics	06/08/2004	4096	217.74.127.255	217.74.112.0



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Intertax LLC	21/12/2000	4096	217.74.175.255	217.74.160.0
MTS PJSC	23/09/2003	4096	217.74.255.255	217.74.240.0
OOO NIIR-RadioNet	24/11/2000	4096	217.76.47.255	217.76.32.0
JSC "ER-Telecom Holding"	29/12/2003	4096	217.76.191.255	217.76.176.0
Limited Company Svyazservice	13/02/2007	4096	217.77.6.255	217.77.48.0
Technology & Networks LLC	31/10/2003	4096	217.78.191.255	217.78.176.0
Ltd Novorossiysk Telecom Company	22/10/2010	4096	217.78.239.255	217.78.224.0
"OBIT" Ltd.	06/02/2009	4096	217.79.15.255	217.79.0.0
OJSC Volgainformnet	05/11/2003	4096	217.79.31.255	217.79.16.0
Institute of Computational Technologies of SB RAS	12/11/2003	4096	217.79.63.255	217.79.48.0
OOO LANCRONIX	21/10/2008	4096	217.79.239.255	217.79.224.0
JSC RTComm.RU	20/12/2000	65536	217.106.255.255	217.106.0.0
JSC RTComm.RU	20/12/2000	16384	217.107.63.255	217.107.0.0
PJSC Rostelecom	20/12/2000	16384	217.107.127.255	217.107.64.0
PJSC Rostelecom	20/12/2000	16384	217.107.191.255	217.107.128.0
JSC RTComm.RU	20/12/2000	4096	217.107.223.255	217.107.208.0
PJSC Rostelecom	20/12/2000	8192	217.107.255.255	217.107.224.0
Net By Net Holding LLC	04/05/2009	4096	217.112.15.255	217.112.0.0
OJS Moscow city telephone network	20/08/2003	4096	217.112.31.255	217.112.16.0
Infoline Ltd.	13/10/2003	4096	217.113.127.255	217.113.112.0
Company Skynet Ltd	27/01/2001	4096	217.114.15.255	217.114.0.0
JSC Tagil Telecom	27/11/2003	4096	217.114.31.255	217.114.16.0
OOO "NI"	09/12/2004	4096	217.114.159.255	217.114.144.0
Tele-plus LLC	19/12/2003	4096	217.114.191.255	217.114.176.0
PJSC "Vimpelcom"	09/08/2004	4096	217.114.239.255	217.114.224.0
OJSC "EVRAZ Nizhny Tagil Metallurgical Plant"	19/12/2003	4096	217.114.255.255	217.114.240.0
PJSC MegaFon	23/12/2003	4096	217.115.95.255	217.115.80.0
Net By Net Holding LLC	08/01/2004	4096	217.115.191.255	217.115.176.0
"Russian company" LLC	23/05/2003	4096	217.116.63.255	217.116.48.0
PJSC Rostelecom	06/02/2001	4096	217.116.143.255	217.116.128.0
PJSC Rostelecom	28/02/2001	4096	217.116.159.255	217.116.144.0
MTS PJSC	16/01/2004	4096	217.117.95.255	217.117.80.0
Niko-2001 LLC	23/01/2004	4096	217.117.127.255	217.117.112.0
Intertax LLC	23/01/2004	4096	217.117.191.255	217.117.176.0
Alpha Net Telecom Ltd	01/10/2009	4096	217.117.255.255	217.117.240.0
Public Joint Stock Company "Vimpel-Communications"	12/02/2001	4096	217.118.79.255	217.118.64.0
Public Joint Stock Company "Vimpel-Communications"	10/06/2003	4096	217.118.95.255	217.118.80.0
OJSC "OAO TATTELECOM"	13/02/2004	4096	217.118.191.255	217.118.176.0
Smart Telecom Limited	19/02/2004	4096	217.119.31.255	217.119.16.0
JSC "ER-Telecom Holding"	25/03/2004	4096	217.119.95.255	217.119.80.0
Company Skynet Ltd	31/03/2004	4096	217.144.191.255	217.144.176.0
MTS PJSC	10/07/2006	4096	217.145.31.255	217.145.16.0
MITU TELECOM LLC	08/04/2004	4096	217.145.159.255	217.145.144.0
Ratmir KDS	26/02/2001	4096	217.146.47.255	217.146.32.0
LLC "TC TEL CENTER"	29/04/2004	4096	217.147.31.255	217.147.16.0
Ekaterinburg-2000 LLC	26/05/2004	4096	217.148.63.255	217.148.48.0
Sakhalin Telecom Ltd.	07/03/2001	4096	217.148.207.255	217.148.192.0
Closed Joint Stock Company TransTeleCom	01/06/2004	4096	217.148.223.255	217.148.208.0
OJSC "Telecommunications FEZ Nakhodka"	02/06/2004	4096	217.149.31.255	217.149.16.0
JSC RDE "Unico"	23/10/2008	4096	217.149.191.255	217.149.176.0



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EUROCOM Ltd.	13/02/2001	4096	217.150.15.255	217.150.0.0
EUROCOM Ltd.	03/09/2001	4096	217.150.31.255	217.150.16.0
Closed Joint Stock Company TransTeleCom	13/02/2001	4096	217.150.47.255	217.150.32.0
Closed Joint Stock Company TransTeleCom	02/07/2001	4096	217.150.63.255	217.150.48.0
LLC Management Company "Svyaz"	15/03/2001	4096	217.150.207.255	217.150.192.0
Gorodskaya elektronnaya svyaz Ltd	29/06/2004	4096	217.151.31.255	217.151.16.0
Net By Net Holding LLC	16/03/2001	4096	217.151.79.255	217.151.64.0
Gazsvyaz Ltd.	19/03/2001	4096	217.151.143.255	217.151.128.0
PJSC Rostelecom	20/03/2001	4096	217.168.79.255	217.168.64.0
T2 Mobile LLC	02/08/2004	4096	217.169.95.255	217.169.80.0
PJSC "Vimpelcom"	28/03/2001	4096	217.170.79.255	217.170.64.0
PJSC "Vimpelcom"	24/08/2001	4096	217.170.95.255	217.170.80.0
ZAO "Tele-Service Tula"	12/08/2004	4096	217.170.127.255	217.170.112.0
Digit One LLC	18/08/2004	4096	217.170.223.255	217.170.208.0
PJSC Rostelecom	30/03/2001	4096	217.171.15.255	217.171.0.0
MTS PJSC	09/03/2004	4096	217.173.31.255	217.173.16.0
OOO WestCall Ltd.	28/10/2008	4096	217.173.79.255	217.173.64.0
"Resurs-Svyaz" Ltd	27/11/2008	4096	217.174.15.255	217.174.0.0
e-Style ISP LLC	11/04/2001	4096	217.174.111.255	217.174.96.0
CJSC Ural WES	24/12/2008	4096	217.174.175.255	217.174.160.0
Limited Liability Company "Intelcom"	07/09/2004	4096	217.174.191.255	217.174.176.0
Joint stock company "Severstal-infocom"	03/09/2004	4096	217.175.31.255	217.175.16.0
INTERCOMTEL Limited Company	30/09/2008	4096	217.175.47.255	217.175.32.0
Central Switching Station of Ministry Railway Transport	18/04/2001	4096	217.175.143.255	217.175.128.0
Central Switching Station of Ministry Railway Transport	27/11/2001	4096	217.175.159.255	217.175.144.0
Computers and Peripherals Ltd.	22/09/2004	4096	217.194.255.255	217.194.240.0
PJSC MegaFon	20/04/2001	4096	217.195.79.255	217.195.64.0
PJSC MegaFon	29/10/2001	4096	217.195.95.255	217.195.80.0
JSC Apatit	23/04/2001	4096	217.195.111.255	217.195.96.0
PJSC "Vimpelcom"	06/10/2004	4096	217.195.223.255	217.195.208.0
CJSC Kolomna-Svizz TV	12/05/2010	4096	217.196.111.255	217.196.96.0
Saint Petersburg State University	24/11/2008	4096	217.197.15.255	217.197.0.0
e-Style ISP LLC	19/10/2004	4096	217.197.127.255	217.197.112.0
AmX LLC	15/04/2010	4096	217.197.207.255	217.197.192.0
JSC "Sevren-Telecom"	26/02/2009	4096	217.197.239.255	217.197.224.0
TSI Service JSC	03/11/2004	4096	217.197.255.255	217.197.240.0
LLC Kazakhstan-On-Line	03/05/2001	4096	217.198.15.255	217.198.0.0
IBS Expertise LLC	11/11/2004	4096	217.198.95.255	217.198.80.0
Concord Ltd	04/05/2001	4096	217.198.175.255	217.198.160.0
Alfa Telecom JSC	17/11/2004	4096	217.198.191.255	217.198.176.0
VIK Master Ltd.	16/12/2004	4096	217.199.255.255	217.199.240.0