

# Russian Internet regulation update: routing control

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ОБЩЕСТВО ЗАЩИТЫ ИНТЕРНЕТА

# First regulations

Telephony-like formal licensing (thus not working), required to provide paid services.

Internet is regulated “Public services network”. “Certified equipment”. No ITU recommendations - no other requirements. Some additional protection for end-users, some - for network operators.

Bulk wiretapping: SORM. On the account of operators!

# Regulations development (1)

Content blocking since 2012.

- intransparency of procedures
- operator's responsibility (automated, but still intransparent)
- mistakes, abuses, infrastructural failures

On account of operators

# Regulations development (2)

More wiretapping and data retention.

SORM-2-3 - user identification, access to billing information

Yarovaya - up to half year of ALL traffic storage

Everything on account of operators!

# More subjects of regulation

When it appears that commercial network operators not exhaust all possible subjects in the Internet

OPI (Information Distribution Intermediaries) - same obligations as for licensed operators (but no protection).

News feeds, search engines...

# Some more (failed) attempts to regulate

Number and Names distribution - appears no rights to regulate via (inter-) government organizations. (NIR attempt to be mentioned)

“Download accounting” - a bit similar to “upload filters”, have not passed

Attempts to regulate interconnections and “national domain” - have not been submitted to parliament

# Motivation for “Sovereign Internet”

“Aggressive US Cyber strategy”.

Legislation proposers can't spell “routing” and “firewall” correctly

It is said, actual motivation is US hack of hostings used by troll farms.

# “Sovereign Internet”

Regulates “(licensed) network operators, owners of communication networks, **Autonomous System Number holders**” (*“сети связи операторов связи, собственников или владельцев технологических сетей связи, а также иных лиц, имеющих номер автономной системы”*)

Approves creation and gives authority to “Public Network Monitoring and Control Center” (*“центр мониторинга и управления сетью связи общего пользования”*)



# AS number holders (and others) obligations

- 1) follow rules of routing set up by regulator (RosKomNadzor)
- 2) apply corrections to routing, issued by regulator
- 3) resolve domain names using approved by regulator equipment
- 4) follow continuity rules set up by regulator
- 5) execute orders issued by Control Center
- 6) use only registered IXPs
- 7) report to regulator (ASN, routing policy, DNS resolution and network infrastructure equipment)
- 8) set up SORM and “technical equipment enforcing restrictions set by laws”
- 9) Participate in “security stability, continuity”, “trainings” (if enlisted to participate)

# Regulatory documents needed

More than 30 documents by Government, Ministry of Telecommunications, Regulator need to be written, discussed and approved, some of documents - also approved by LEAs until 1 november 2019.

Work seems have not been started yet (publically).

# Some other regulation subjects

## Internet Exchange Points

- must register
- must connect entities only complying to LEA requirements
- must comply “requirements” (set by RosKomNadzor&FSB)

## National Domain Name system

- domains of interest
- domain name resolution must comply “requirements”

## Cross-border communication systems

## Technical security measures

# Possible execution

- Enforced Routing Registry
- BGP injections
- ???

## Negative impacts:

- disappearance of self regulated sustainability
- route leaks of “control messages”
- interference to business processes (purge of independent ISPs), corruption
- ability to move to Chinese or North Korean way

Name of the Article “Public Network Management in emergency situation”  
changed to “Public Network Management in special cases”

Responsibility of operators in cases of outages caused by orders of Control Center  
is waived.

“Technical Security Measures” - possible censorship system improvement

~~DURA LEX SED LEX.~~

Severity of Russian laws is compensated by the non-obligation of execution

Russian Laws are written not to be enforced, but to make you guilty

# Notes on budgeting

“Monitoring and Control Center” (first year?):

60 mln Euros: collection of information about IPaddresses, ASNs, routing policies

75 mln Euros: routing monitoring and control

Compare to RIPE NCC's RS, Database, RIS and Atlas

# Why it's important for RIPE community

Russia is ahead in state regulation of the Internet, despite some regulations have not passed.

Internet is global - effects of local regulation could spread worldwide

We are on the same planet, there is no chance to move to better neighborhood (yet).



condolences ?

# Internet Protection Society

Bringing up attention to really poor quality of Internet Regulations in Russia.

Bringing Internet Freedoms to Political Agenda

## Projects:

- 1) [Russian Internet Freedom Index](#)
- 2) [Russian Connectivity Index](#)
- 3) [Map of Russian Internet-GULAG](#)