



COORDINATION CENTER
FOR TLD RU/PФ

Public Communication Network Monitoring and Management Center & National DNS



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Public Communication Network Monitoring and Management Center

- 1 November 2019: the Law “On Sovereign Internet” enacted
- Pursuant to the Law, the RF Government established a new agency known as Public Communication Network Monitoring and Management Center (PCNMMC, or the Center)
- Its mission is to secure uninterrupted interaction between public network users
- Its major function is retaining domain name-based addressing in public networks in the absence of access to the DNS root servers

National Domain Name System

- NDNS (National DNS) – DNS server infrastructure
- Where necessary, it is **capable of replacing** the overseas DNS infrastructure with the domestic one
- NDNS is NOT a substitute for DNS
- The use of NDNS bolsters reliability and stability of the Russian segment of the Internet and reduces the latency rate
- Conceptually, NDNS is akin to the Hyperlocal Root Service concept

National Domain Name System

- The Law established new obligations for ISPs and IXs
- Since 2021 all the companies in possession of technological networks and ASNs have been bound to connect to NDNS
- However, the Law allows to use NDNS **in tandem** with other DNS(s), rather than **instead of** them
- All the actors of the Russian internet industry put the task of ensuring stability and security of the national segment of the Internet on the top of their priority list

Security aspects

- If there are threats to the Internet's stability in the country, the Center can manage traffic in a centralized mode
- That can be done by employing technical means to counter such threats
- The Center has monitoring and control instruments on hand to check the requested online resources
- The Center is also tasked to secure confidentiality of information flowing through NDNS

Conclusion

- NDNS is a system aimed at leveraging stability of the Internet in Russia
- It is NOT intended to replace the global DNS
- It has a number of information security features
- It ensures a non-discriminatory use.
- Its public DNS resolvers are:

a.res-nsdi.ru, IPv4 195.208.4.1, IPv6 2a0c:a9c7:8::1

b.res-nsdi.ru, IPv4 195.208.5.1, IPv6 2a0c:a9c7:9::1



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Thank you!

Andrey Vorobyev
a.vorobyev@cctld.ru

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