MSK-IX: multiservice platforms for secure traffic exchange
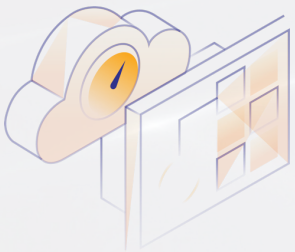
Evgeny Morozov

MSK-IX CEO

MSK-IX platforms

IX

Traffic exchange platform for participants of the MSK-IX network using the shortest routes and for establishing direct sessions

Medialogistika

Formation, processing and delivery of TV channels platform

Instanet

Fast and reliable access to cloud platforms, DDOS protection and IP transit service providers

DNS

Secure DNS for telecom operators, corporate networks and top-level domains

MSK **IX**

Internet Exchange.
Protected peering network

Types of traffic:

- Public Internet traffic
- Service traffic targeted at a specific group of participants (financial transactions, EDI, DNS …)

How does it work?

MSK·IX

Internet Exchange. Security

- DDoS Protection Services

  Blackhole — configuration is enabled by default for all IX participants

- Additional configurations:

  — Enhanced Blackhole
  — FlowSpec

Internet Exchange.
Protected peering network

- Participants: industry and professional business communities

- Private interconnect with direct access to all network members via L2VPN channels

- Closed loop for network members only

- Layered protection and monitoring systems

- SLA. Redundant connection on any MSK-IX PoP to a dedicated RouteServer

- Setting up the connection 1 day after the organization of the physical connection

Moderator

participant 4

MSK-IX RS

participant 1

participant 3

participant 2
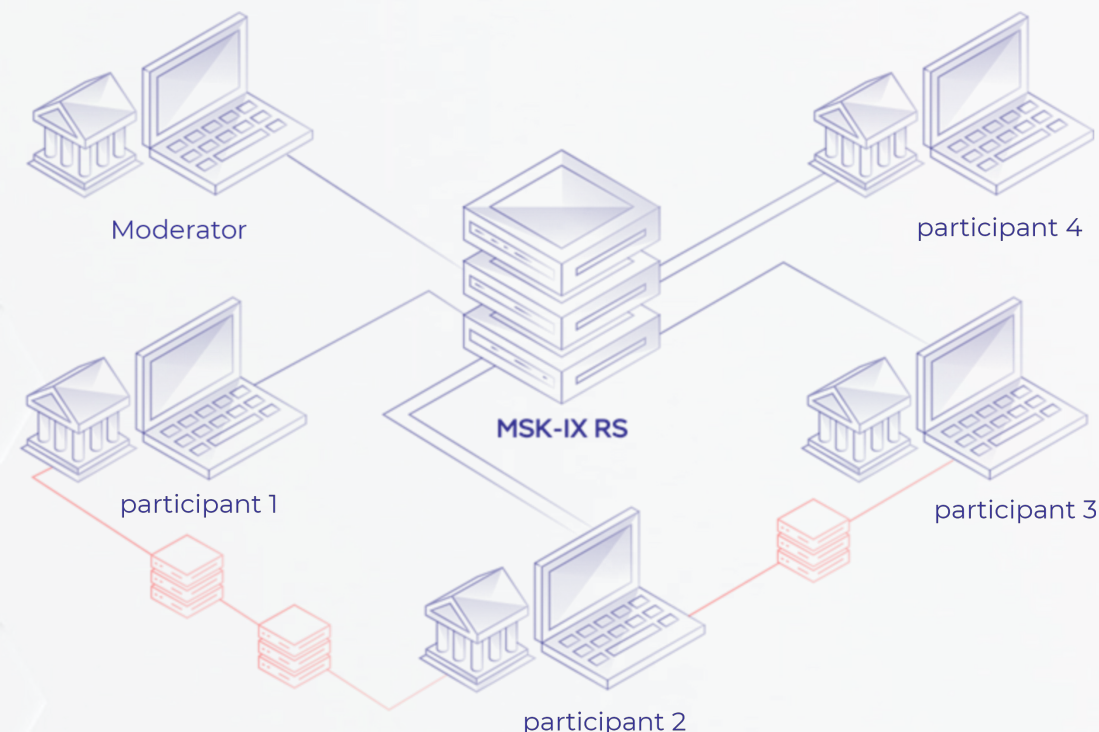
MSK IX

DNS

- Anycast DNS new

- DNS service for TLD

- DNS solution for mobile and fixed-line operators new

- Data Escrow

- Ebero

DNS. Geography

Number of requests:
8-10 billion requests per day

Number of regions: 19

Number of PoP: 22

SLA: 100%

The MSK-IX DNS network is used by the administrator of the national domains RU, RF, SU, top-level domain administrators, government agencies and companies.

Anycast DNS

Reliability: the service remains operational regardless of whether any specific Anycast node is working

Faster connections: Anycast provides for a quick response to DNS queries by reducing the response latency as much as possible

Convenience: DNS zone editor with the ability to download a list of domains from external sources

Security: support for DNSSEC as a means of minimizing possible attacks with IP address spoofing

Technological efficiency: monitoring the provided services and equipment at all times, as well as offering customers technical support

Prestige: providing the option of using proprietary domain names for the DNS service (white label)

MSK IX

DNS Infrastructure Reservation System of National domains

DATA ESCROW

Backup storage of domain registries

Data security guarantee

Geographically distributed infrastructure

Compliance with the requirements ICANN, ICANN accreditation in 2019

ICANN

EBERO

Guarantee of continuous functioning of the addressing system of Russian national domains .RU and .RF.

The first and only reserve registry operator in Russia

The guarantor of trouble-free and stable DNS operation

Compliance with the program standard New gTLD

MSK IX

DNS+OSS - solution for mobile and fixed-line operators, DNS providers

- Up to 700 thousand requests per second on one site

- Service availability: 99,999%

- 3GPP standards support

- Import-substituted OSS

Thank you for
your attention!

Evgeny Morozov
MSK-IX CEO