

IPv6 в сети FREEnet

IPv6 in FREEnet.

Experience of Deployment

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Topics

- Achievements of IPv6 deployment
- IPv6 in RU-Net
- IPv6 FREEenet
- Problems

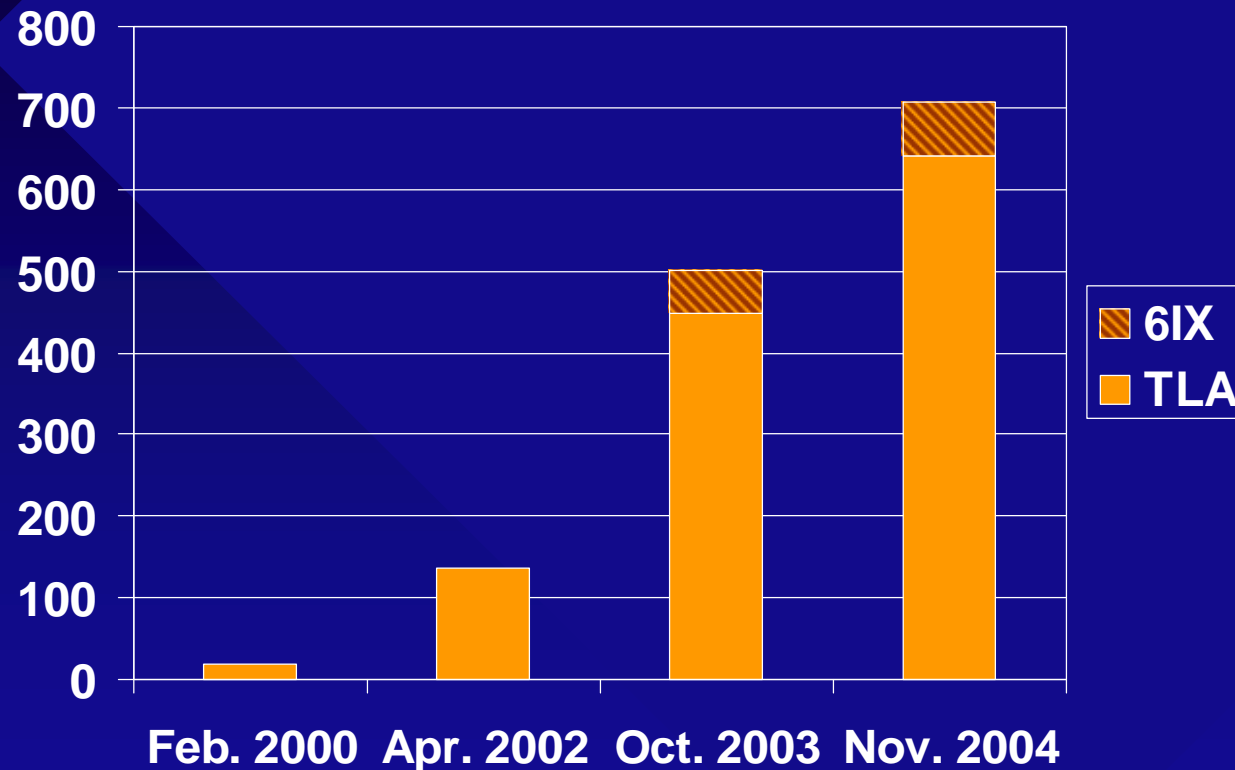
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Achievements of IPv6 deployment

Allocated IPv6 Prefixes



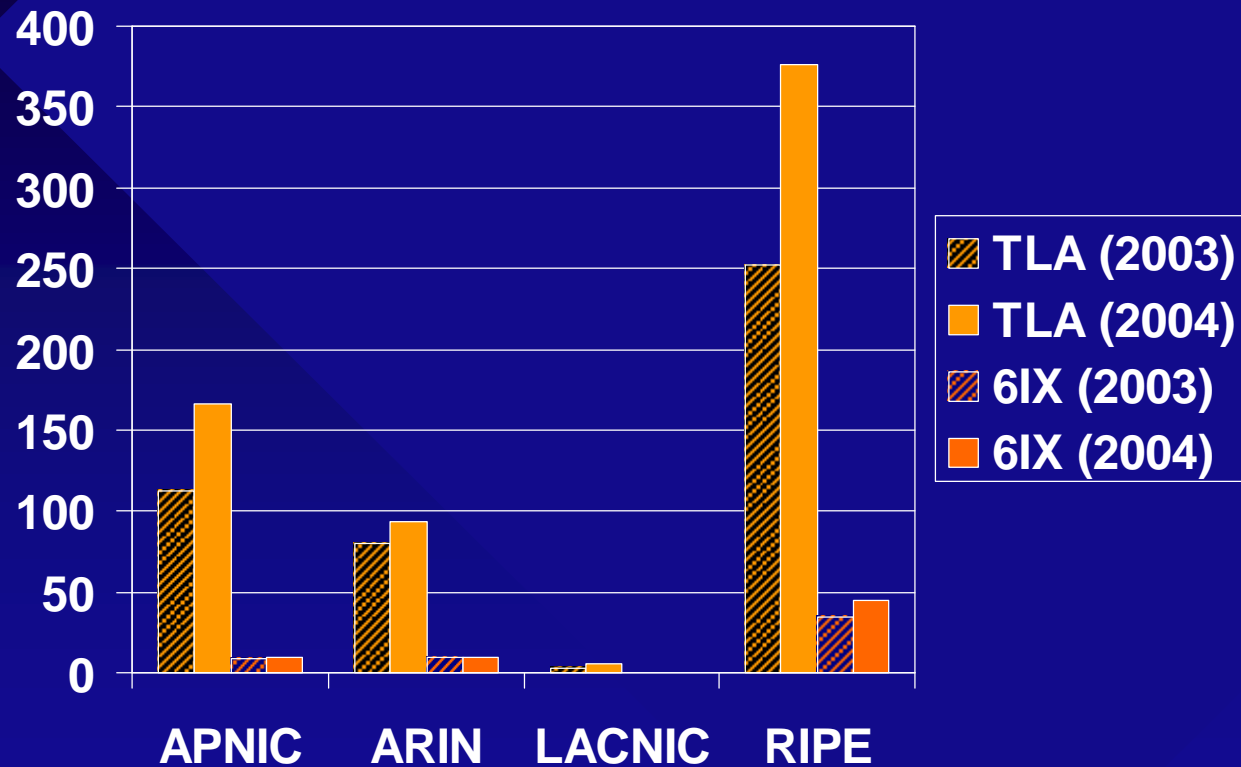
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Achievements of IPv6 deployment

IPv6 Prefixes Allocated by RIRs



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IPv6 in RU-Net

- Russia is the 19th in Europe and the 29th in the World by the number of allocated IPv6 prefixes
- Global IPv6 connectivity via RBNNet
- MSK-6IX

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IPv6 in RU-Net

IPv6 Prefixes allocated to Russia

RU-FREENET-19991115	2001:640::/32
RU-ROSNIIROS-20010219	2001:6D0::/32
RU-RUNNET-20030214	2001:B08::/32
MSK-IX-20030902	2001:7F8:20::/48
RU-ELTEL-20040413	2001:1b00::/32
RU-NLINE-20040701	2001:4058::/32

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IPv6 in RU-Net

<http://www.ip6.fccn.pt/v6top.html>

Rank	Country	Allocations	Rank	Country	Allocations	Rank	Country	Allocations
1	DE	<u>72</u>	8	CH	<u>16</u>	15	NO	<u>8</u>
2	NL	<u>43</u>	9	AT	<u>16</u>	16	DK	<u>7</u>
3	GB	<u>41</u>	10	FI	<u>15</u>	17	IE	<u>6</u>
4	IT	<u>25</u>	11	CZ	<u>13</u>	18	EE	<u>6</u>
5	FR	<u>24</u>	12	ES	<u>12</u>	19	RU	<u>5</u>
6	SE	<u>19</u>	13	EU	<u>10</u>	20	LU	<u>5</u>
7	PL	<u>18</u>	14	PT	<u>8</u>			

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IPv6 in RU-Net

<http://www.sixxs.net/tools/grh/tla/>

Pos	Country	A
1	United States	128
2	Japan	83
3	Germany	71
4	Netherlands	47
5	United Kingdom (Great Britain)	43
6	Korea	33
7	Italy	30
8	France	28
9	Sweden	22
10	Poland	22

Pos	Country	A
11	Switzerland	21
12	Taiwan	18
13	Austria	17
14	China	17
15	Finland	16
16	Spain	15
17	Canada	14
18	Czech Republic	13
19	Europe	11
20	Portugal	11

Pos	Country	A
21	Mexico	10
22	Thailand	9
23	Norway	8
24	Denmark	8
25	Australia	7
26	Ireland	6
27	Singapore	6
28	Malaysia	6
29	Russia	6
30	Luxembourg	6

A: Allocated: Number of Allocated Prefixes for this country (excludes returned prefixes).

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IPv6 in RU-Net

- Global IPv6 connectivity

AS11537

ABILENE

AS9264

ASNET

AS20965

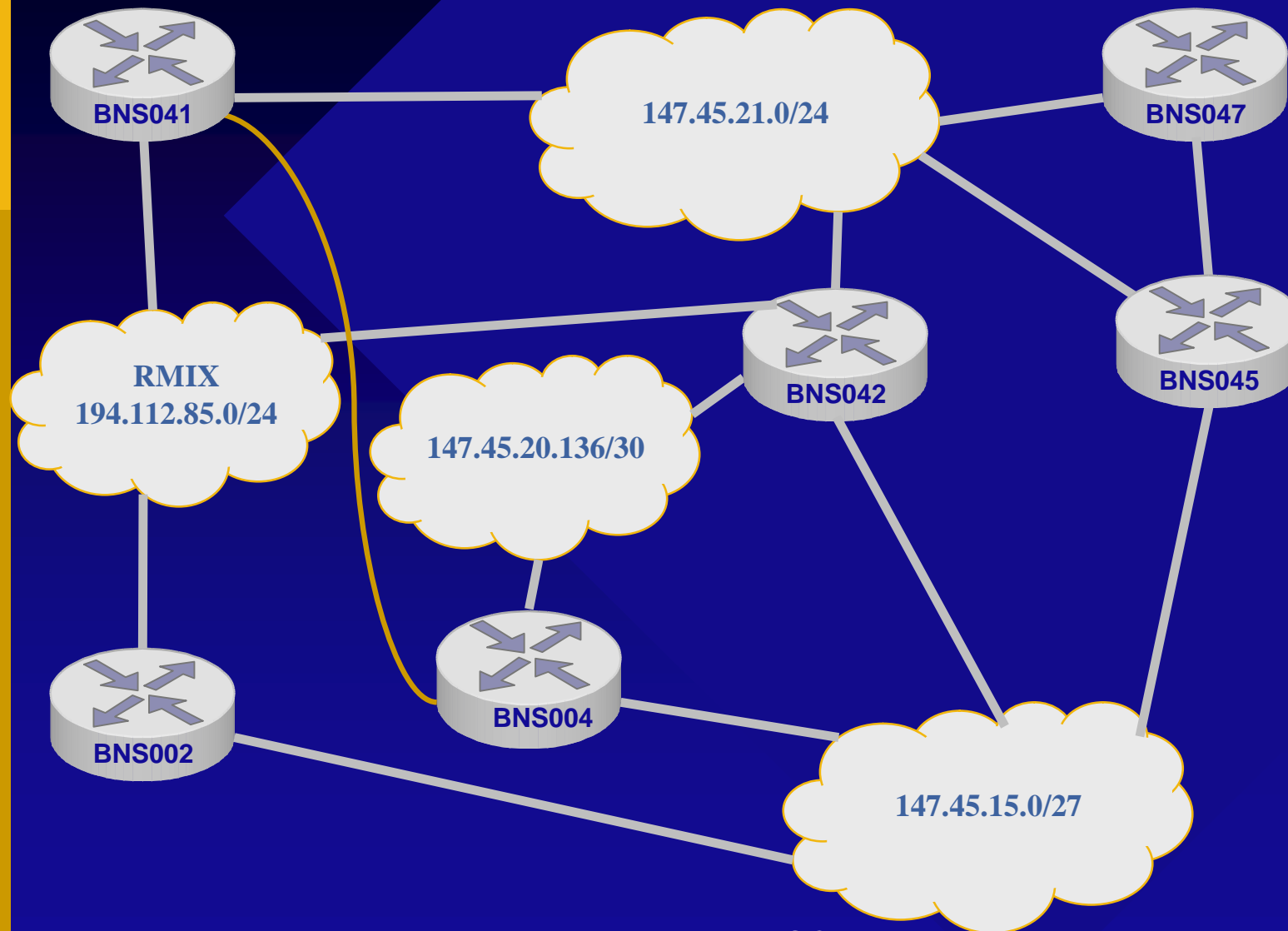
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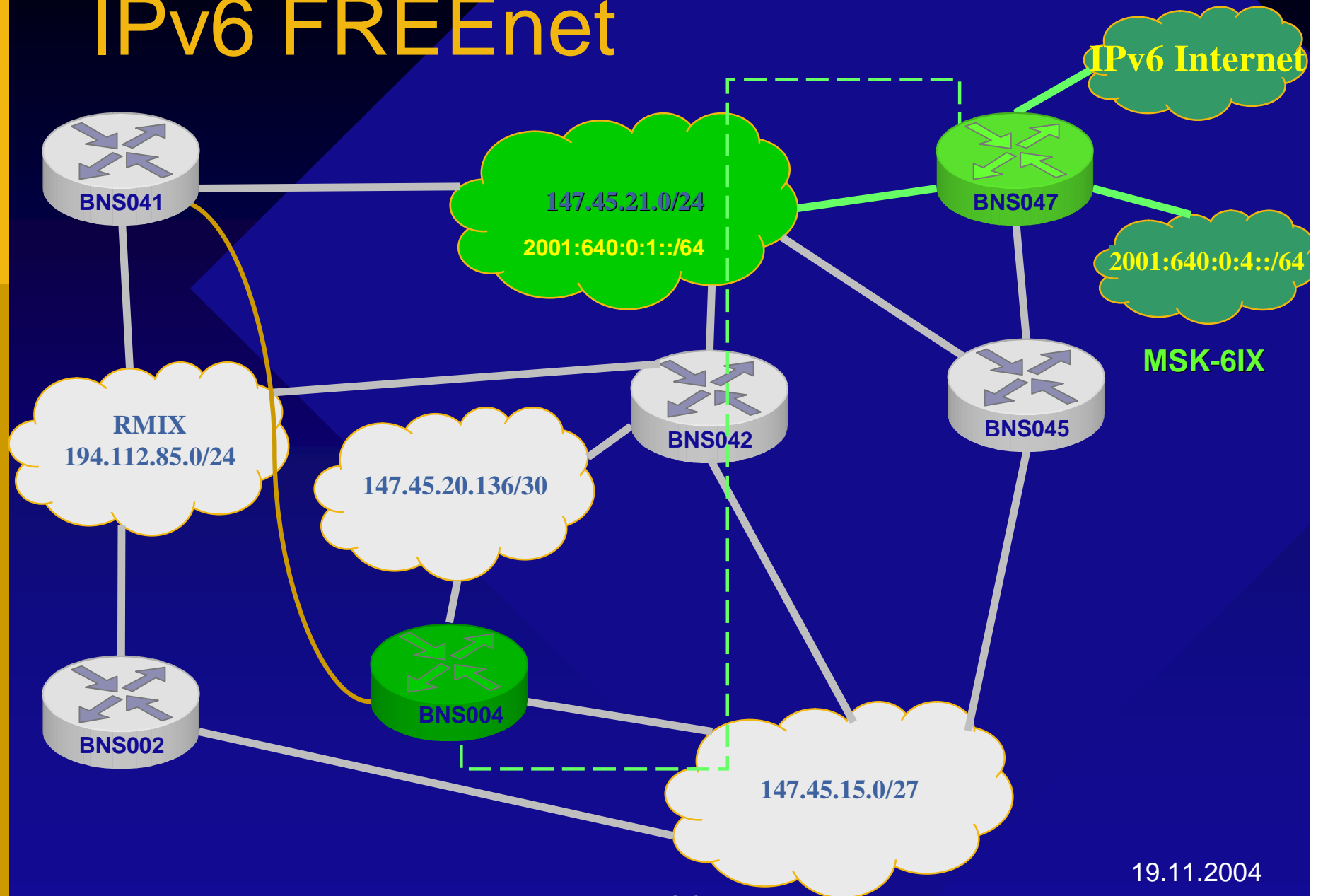


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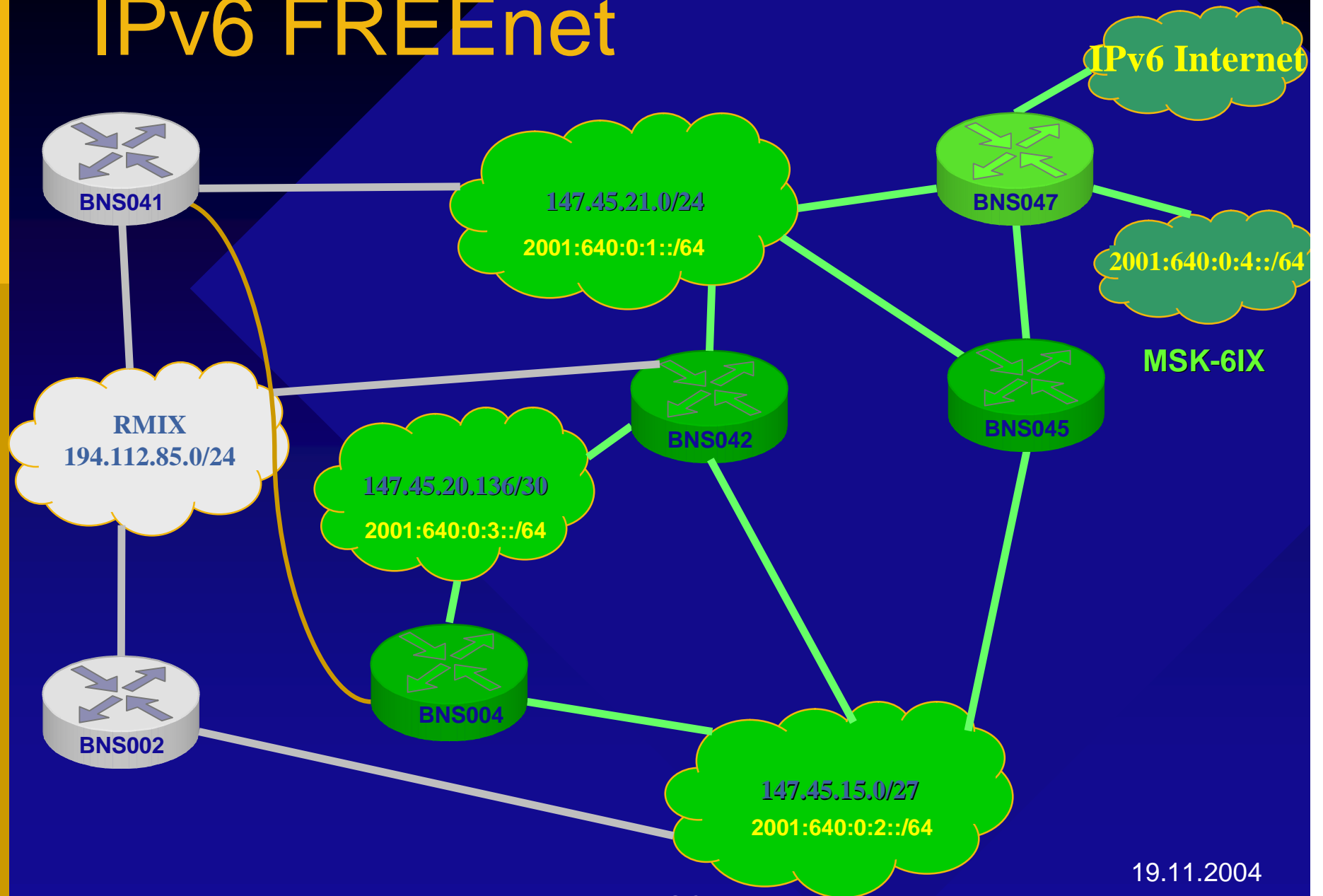


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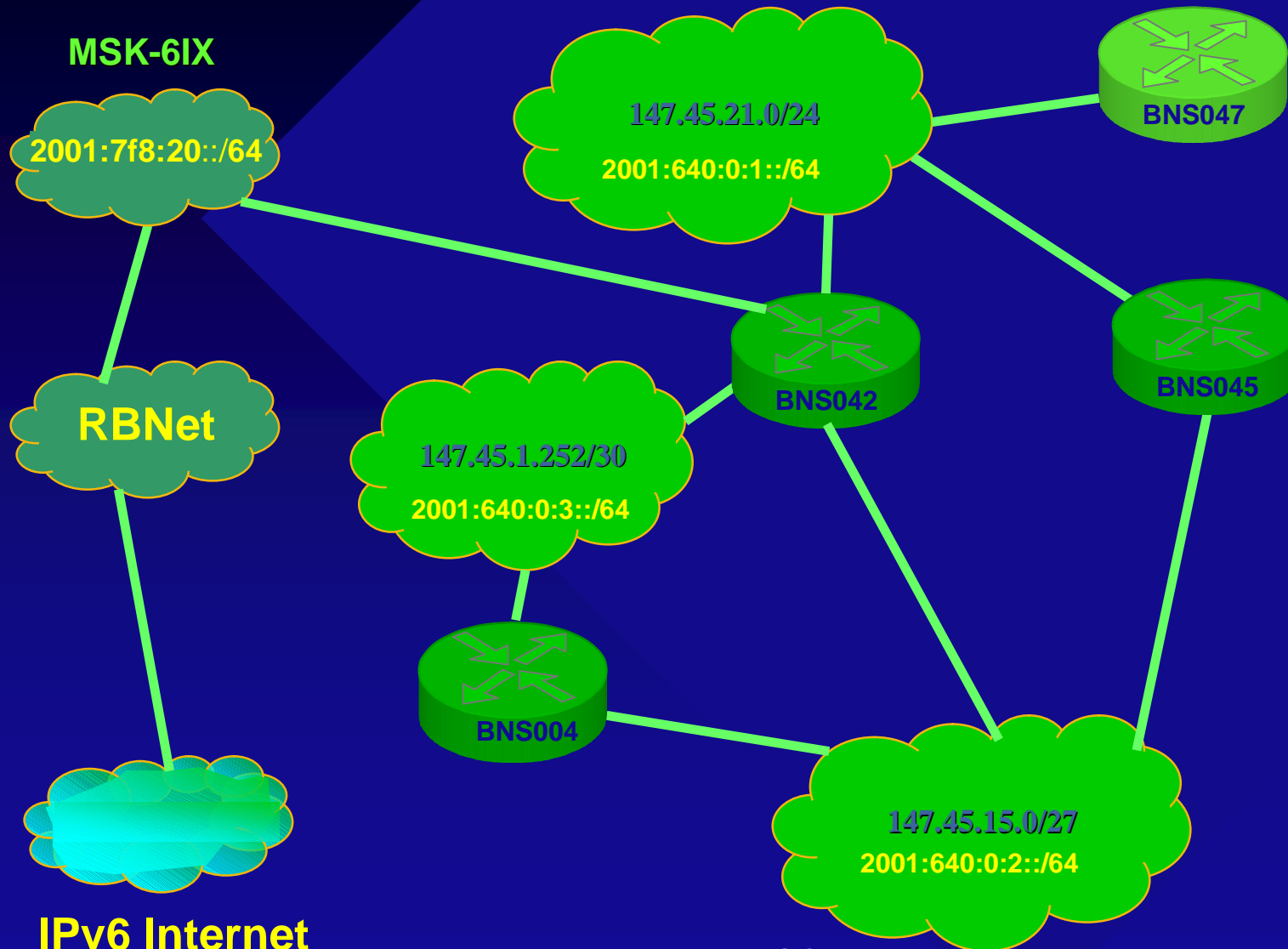
- **Hardware upgraded**
- **RIPng -> OSPFv3**
- **Global IPv6 connectivity via MSK-6IX**
- **New IPv6 clients connected**

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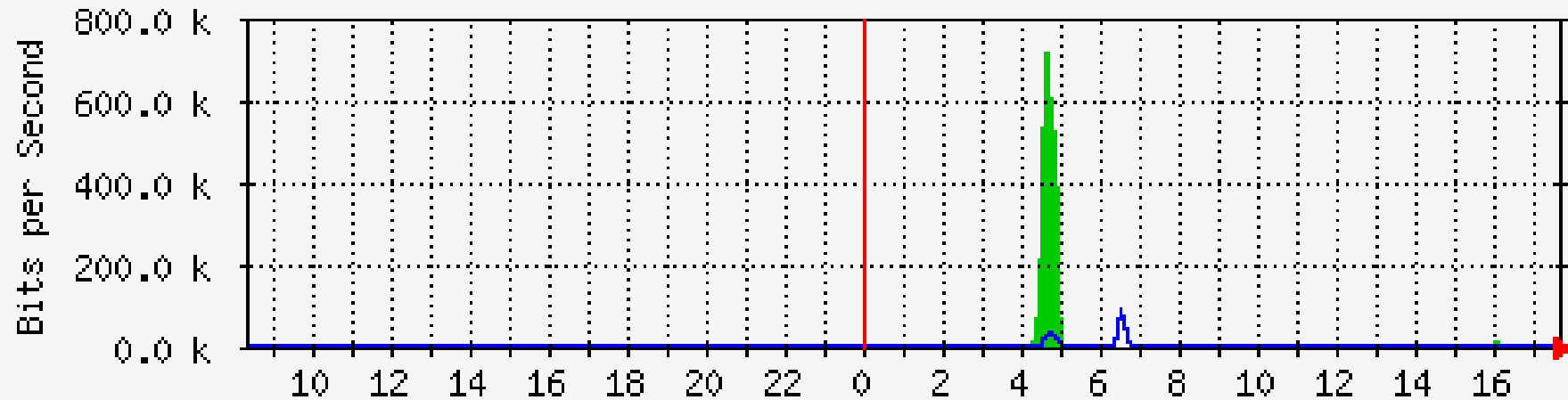
IPv6 Internet

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IPv6 трафик FREEnet через MSK-6IX



Макс. **Вх:**727.4 kb/s В среднем **Вх:**8888.0 b/s

Макс. **Исх:**95.9 kb/s В среднем **Исх:**1320.0 b/s

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Problems

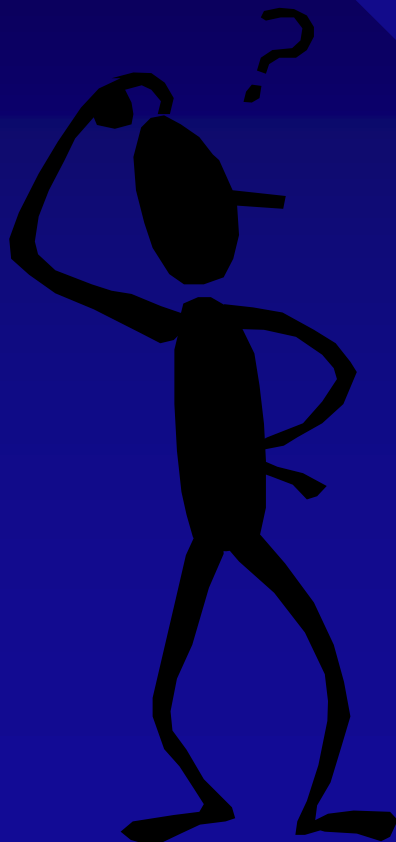
- No “killing” application available
- Lack of demand for IPv6 services
- Poor IPv6 support by popular hardware firewalls

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Questions



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