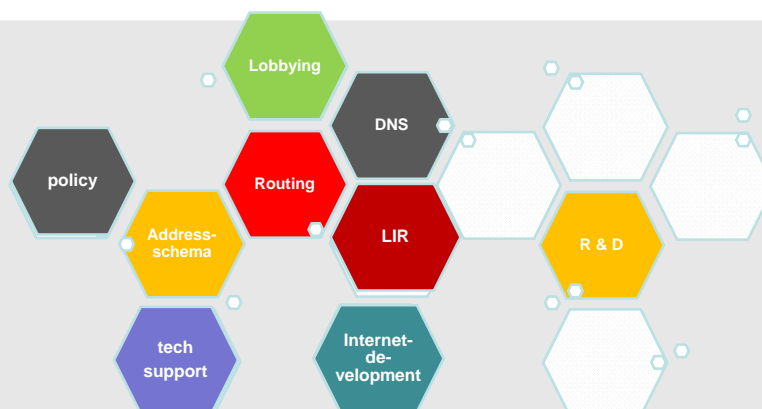


IPv6 within German public administration

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Bricks



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25.05
.2018

IPv6 Deployment- Organization

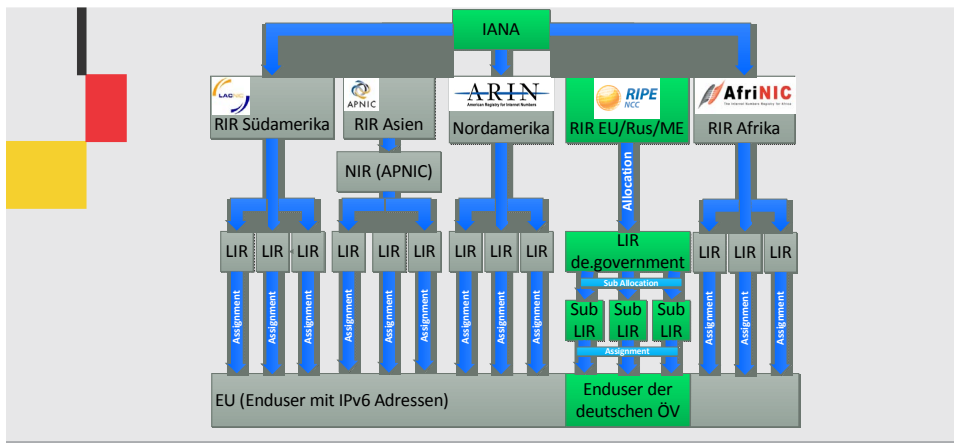
IPv6 address space (:::/23) for public administration

Local Internet Registry (LIR) „de.government“

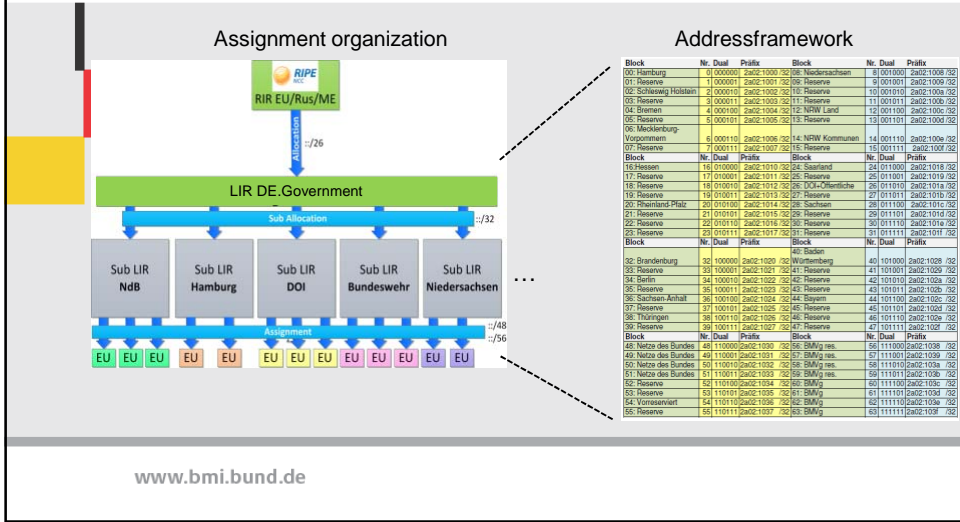
IPv6-address plan for Germany

Block	No. Dest.	Prefix	Block	No. Dest.	Prefix
00 Hamburg	31 000000	2000:1000:7000	06 Niedersachsen	81 001000	2000:1000:7020
01 Bayern	11 000001	2000:1000:7000	07 Nordrhein	81 001001	2000:1000:7021
02 Schleswig Holstein	21 000100	2000:1000:7000	08 Saarland	81 001002	2000:1000:7022
03 Hessen	31 000001	2000:1000:7000	09 NRW Land	81 001003	2000:1000:7023
04 Badenw.	41 000100	2000:1000:7000	10 Thüringen	81 001004	2000:1000:7024
05 Mecklenburg	51 000101	2000:1000:7000	11 Bremen	81 001005	2000:1000:7025
06 Mecklenburg	61 000102	2000:1000:7000	12 NRW Kantonen	81 001006	2000:1000:7026
07 Bayern	71 000111	2000:1000:7000	13 Bayern	81 001007	2000:1000:7027
08 Bayern	81 000000	2000:1000:7000	14 Baden	81 001008	2000:1000:7028
09 Bayern	91 000001	2000:1000:7000	15 Baden	81 001009	2000:1000:7029
10 Bayern	101 000000	2000:1000:7000	16 Baden	81 001010	2000:1000:7030
11 Bayern	111 000000	2000:1000:7000	17 Baden	81 001011	2000:1000:7031
12 Bayern	121 000000	2000:1000:7000	18 Baden	81 001012	2000:1000:7032
13 Bayern	131 000000	2000:1000:7000	19 Baden	81 001013	2000:1000:7033
14 Bayern	141 000000	2000:1000:7000	20 Baden	81 001014	2000:1000:7034
15 Bayern	151 000000	2000:1000:7000	21 Baden	81 001015	2000:1000:7035
16 Bayern	161 000000	2000:1000:7000	22 Baden	81 001016	2000:1000:7036
17 Bayern	171 000000	2000:1000:7000	23 Baden	81 001017	2000:1000:7037
18 Bayern	181 000000	2000:1000:7000	24 Baden	81 001018	2000:1000:7038
19 Bayern	191 000000	2000:1000:7000	25 Baden	81 001019	2000:1000:7039
20 Bayern	201 000000	2000:1000:7000	26 Baden	81 001020	2000:1000:7040
21 Bayern	211 000000	2000:1000:7000	27 Baden	81 001021	2000:1000:7041
22 Bayern	221 000000	2000:1000:7000	28 Baden	81 001022	2000:1000:7042
23 Bayern	231 000000	2000:1000:7000	29 Baden	81 001023	2000:1000:7043
24 Bayern	241 000000	2000:1000:7000	30 Baden	81 001024	2000:1000:7044
25 Bayern	251 000000	2000:1000:7000	31 Baden	81 001025	2000:1000:7045
26 Bayern	261 000000	2000:1000:7000	32 Baden	81 001026	2000:1000:7046
27 Bayern	271 000000	2000:1000:7000	33 Baden	81 001027	2000:1000:7047
28 Bayern	281 000000	2000:1000:7000	34 Baden	81 001028	2000:1000:7048
29 Bayern	291 000000	2000:1000:7000	35 Baden	81 001029	2000:1000:7049
30 Bayern	301 000000	2000:1000:7000	36 Baden	81 001030	2000:1000:7050
31 Bayern	311 000000	2000:1000:7000	37 Baden	81 001031	2000:1000:7051
32 Bayern	321 000000	2000:1000:7000	38 Baden	81 001032	2000:1000:7052
33 Bayern	331 000000	2000:1000:7000	39 Baden	81 001033	2000:1000:7053
34 Bayern	341 000000	2000:1000:7000	40 Baden	81 001034	2000:1000:7054
35 Bayern	351 000000	2000:1000:7000	41 Baden	81 001035	2000:1000:7055
36 Bayern	361 000000	2000:1000:7000	42 Baden	81 001036	2000:1000:7056
37 Bayern	371 000000	2000:1000:7000	43 Baden	81 001037	2000:1000:7057
38 Bayern	381 000000	2000:1000:7000	44 Baden	81 001038	2000:1000:7058
39 Bayern	391 000000	2000:1000:7000	45 Baden	81 001039	2000:1000:7059
40 Bayern	401 000000	2000:1000:7000	46 Baden	81 001040	2000:1000:7060
41 Bayern	411 000000	2000:1000:7000	47 Baden	81 001041	2000:1000:7061
42 Bayern	421 000000	2000:1000:7000	48 Baden	81 001042	2000:1000:7062
43 Bayern	431 000000	2000:1000:7000	49 Baden	81 001043	2000:1000:7063
44 Bayern	441 000000	2000:1000:7000	50 Baden	81 001044	2000:1000:7064
45 Bayern	451 000000	2000:1000:7000	51 Baden	81 001045	2000:1000:7065
46 Bayern	461 000000	2000:1000:7000	52 Baden	81 001046	2000:1000:7066
47 Bayern	471 000000	2000:1000:7000	53 Baden	81 001047	2000:1000:7067
48 Bayern	481 000000	2000:1000:7000	54 Baden	81 001048	2000:1000:7068
49 Bayern	491 000000	2000:1000:7000	55 Baden	81 001049	2000:1000:7069
50 Bayern	501 000000	2000:1000:7000	56 Baden	81 001050	2000:1000:7070

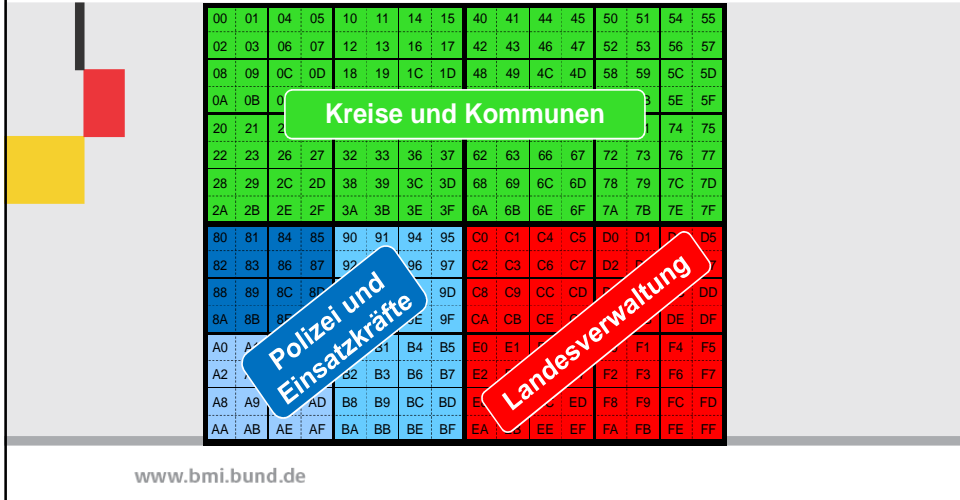
IPv6 Deployment- IPv6 Conception



IPv6 Deployment- IPv6 Structure



IPv6 Deployment



IPv6 and Politics- Internet Policies

- **Role of Governments building Internet Policies**
- **Government LIRs are a new type of LIR**
- **Different type leads to different needs**
- **different needs require policy adaptations**
- **example:**

Policy change from **ripe-641** “RIPE NCC IPv6 Address Allocation and Assignment” to **ripe-655** takes new needs into account

IPv6 and Politics- Regulation and Internet

- **EU legislation issues – GDPR, e Privacy, NIS, Digital Single Gateway,...**
- **Gap between technical and lawyers world**
- **Deadlocks????**

who is database ICANN and GDPR

ITU issue for framework IPv6

I want to engage EU COM and memberstates to close the gap

IPV6 FRAMEWORK FOR EUROPEAN GOVERNMENTS

ISA² WORK PROGRAMME

2017

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ISA² WORK PROGRAMME 2017

DETAILED ACTION DESCRIPTIONS

IPV6 FRAMEWORK FOR EUROPEAN GOVERNMENTS

Output name	1. Guide to setup IPv6 in the public administration - LIR setup and processes
Description	A detailed guide on how to order address space, to set up and implement a Local internet Registry
Output name	2. IPv6 Profile for public administrations of the EU
Description	A detailed technical profile with recommendations, to implement IPv6 options within IPv6 components for public administrations.
Output name	3. IPv6 Transition Guide for public administrations of the EU
Description	A guideline on how to migrate a public authority of a MS to IPv6/IPv4 dual-stack. It includes step-by-step instructions, security recommendations and project organisation guidelines.
Output name	4. IPv6 Workshop material for public administrations of the EU
Description	Slide sets and usage instructions to enable public administrations of the EU to start with a cost efficient IPv6 planning phase.
Output name	5. Description and discussing document of IPv6 related EU infrastructures, especially TESTA-NG for public administrations of the EU
Description	This document creates the link between the guidelines and the technical profile to the actual network-infrastructure.