




Bundesministerium
des Innern

IPv6 in Germany



Constanze Bürger,
Ministry of the Interior
Department Federal IT Infrastructures
and IT Security Management



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Our Mission

Our Basis

Our Challenges

Our Needs

Our Actions

Our Implementations

Our Next Steps

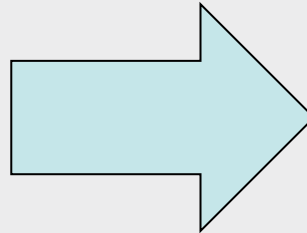


Our Mission

...is to prepare for the growth in Internet usage and for future innovation and maintaining competitiveness

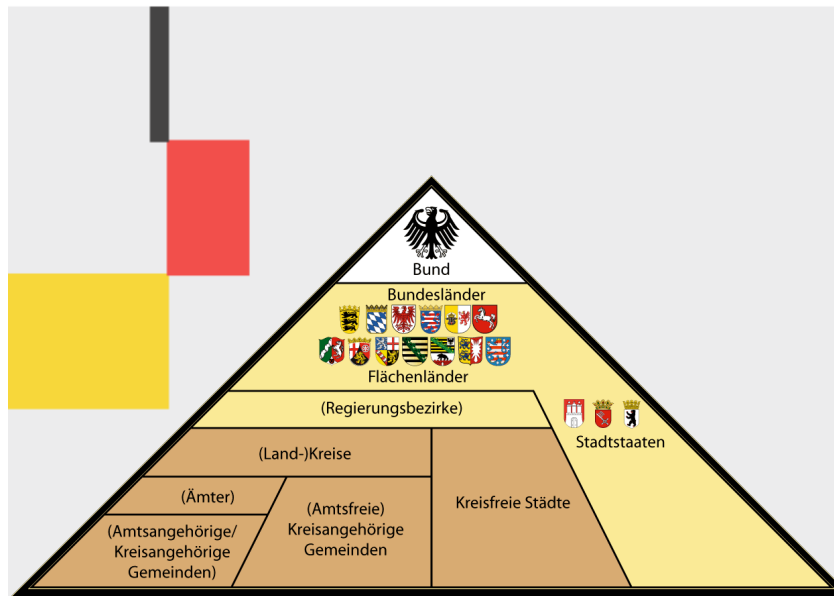
Based on the “Action Plan for the deployment of IPv6 in Europe of the European Commission in 2008

Based on agreement between the government, federal states and municipalities





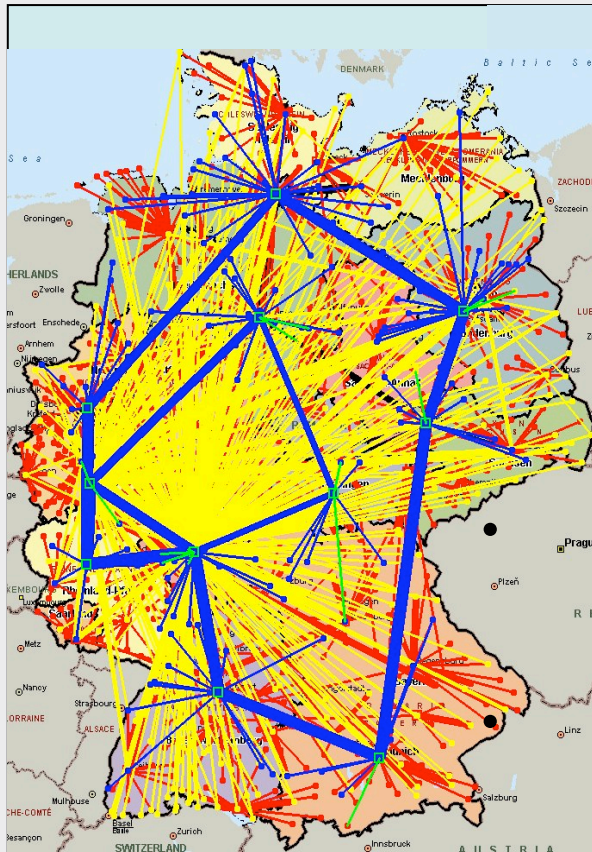
Our Basis



1. Consensus within decision boards representing all administration levels to apply for a common IPv6 address space
2. RIPE membership / LIR de. government / Assignment of a /26 address space
3. Core topic in the final declaration of the 4th German IT summit
4. Representative Working group
 - Address concept
 - Organization concept
5. Formal approval of the planned approach within Ministry of Interior



Our Challenges

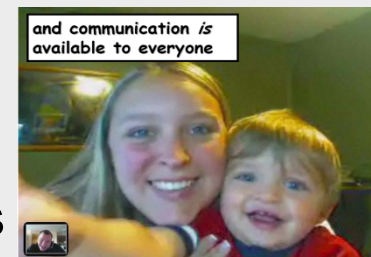


High complexity of historical
grown networks with
decentralized administration
Structured network management
as „mission impossible”



Our needs

- Migration to future-proofed converged IPv6 enabled “Next Generation Networks (NGN)” with high security, high stability and high performance.
- Government communication requires extremely high security architecture and security standards
- Planning reliability by long term planning windows
- High flexibility to react rapidly on political, economical and social developments





Our Actions

Address Concept (final discussion, 5/2010)

- Breakdown of the /26 address space in 64 blocks of size /32
- First assignments to federal states, DOI (including public IT service providers), NdB, Ministry of Defense

Organization Concept (in process, 6/2010)

- Independent administration of the /32 blocks by Sub LIRs
- de.government: coordination / RIPE interface, Policies / sub allocations

Toolset for the Users (started, 12/2010)

- Operation guideline
- Configuration checklists
- Address templates





Our Implementations

Programs were started to modernize the communication infrastructure of the public administration based on IPv6.

DOI: Infrastructure serving federal government, states and municipalities

- IPv4/IPv6 Dual Stack (10/2009)
- Network protection devices –firewalls- (6/2010, test version available)
- Encryption devices- (12/2010, IPv6-only test version available)

NdB: Common network for the federal administration (in planning)






Our Next Steps

- Finalization of address concept and organization concept
- Approval by the german “IT Planning Board”
- Starting IPv6 address distribution
- Starting research project
- Supporting and facilitating IPv6 pilots
- Supporting European IPv6 initiatives





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**Thank you
for
your attention!**

www.bmi.bund.de