# Assessment Criteria for IPv6 Initial Allocation Size

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## Motivation

- Current IPv6 Addressing Policy provider-oriented
  - RIPE-246 from year 2002
  - Qualification for allocations larger than /29 not possible for organziations/companies
- Requirements of private organisations differ
  - Internal (routing) structure
  - Segmentation in geography, location type, function,...
  - Nibble boundaries
- Logical structure more important than efficient usage of address space

#### Large public IPv6 address space

- ULA are no alternative
  - Avoidance of NAT
  - /48 prefix for every location
  - Required for individual public routing

RIPE NCC: Documentation and proof of usage

- Not to share internal structures to the community
- Only small parts of IPv6 range will be public
- Largest part in private use (like 10.0.0.0/8 in IPv4)

## **Goal for policy change**

# Modification of IPv6 addressing policy vs. Exception for large organizations

- Small number of companies and organizations with requirements for /28 and larger
- Reasonable arguments to be defined
- Examples:
  - Number of /48 locations
  - Hierarchy level