The IPv6 Analyser
Managing inet6num objects

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So I got a /32... Now what?
The Concept

• Get a visual insight into your RIPE Database objects
  - Hierarchical view of **used** address space

• Create new objects using an easy to use wizard
  - Interface seamlessly with the RIPE Database
  - Explain the different options well
  - Use sensible defaults

• Delete redundant objects directly from the UI
THANKS TO MAREK ISALSKI @MAZNU

<table>
<thead>
<tr>
<th>inet6num</th>
<th>Status</th>
<th>Date</th>
<th>Size</th>
<th>AsgSize</th>
<th>Netname</th>
</tr>
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<tbody>
<tr>
<td>2a01:9e00:4000::34</td>
<td>ALLOCATED_BY_LIR</td>
<td>03-02-2011</td>
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<td>/128</td>
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<td>UK-FAELIX-CROSSCONNECT</td>
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</table>
Link maintainer to Access account

1. Choose your option

2. Enter the details

3. Create objects in RIPE Database

Parent
inet6num
2001:db8::/32

Status
ALLOCATED-BY-RIR

Netname
ZZ-EXAMPLE-20110201

Link a maintainer to your RIPE NCC Access account

Please select the maintainer you want to link to your RIPE NCC Access account john@doe.com

MNT-DEMO

Please enter the password to authorise

By authorising, your RIPE NCC Access account will be associated with this maintainer. From now on, you will be able to update the RIPE Database objects protected by this maintainer using your RIPE NCC Access account.

Link MNT-DEMO

Return to the overview

ONE TIME OPERATION
Select Your Option...

Parent
inet6num
2001:db8::/32

Status
ALLOCATED-BY-RIR

Netname
NL-EX-20030616

What do you want to do? I want to...

- Create a single assignment for my customer or my own infrastructure
- Group assignments that are all the same size for a large number of customers
- Sub-allocate a block so assignments can be created within it

Group assignments that are all the same size for a large number of customers into an aggregated block. Choose this option, for example, for DSL customers. A single object will be created with a fixed assignment size. The status will be AGGREGATED_BY_LIR.

Next

Return to the overview
Select Preferred Values

**Parent**

*inet6num*

2001:db8::/32

**Status**

ALLOCATED-BY-RIR

**Netname**

NL-EX-20030616

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**Creating assignments**

What is the assignment size you want to give to each customer?

56

What is the size of the aggregated block you would like to create?

48

You can serve up to 256 customers

You can choose between a maximum of five prefix sizes for the assignment size. The maximum size of the aggregated block is limited by the amount of free space you have. If you would like to assign more than a /48 per customer, you will have to submit an IPv6 End Site Assignment Request form. Once you have approval, you will have to manually create an *inet6num* object in the RIPE Database.
### Choose your option

### Parent

- **inet6num**: 2001:db8:2103::/48

### Status

- **ALLOCATED-BY-RIR**

### Netname

- **NL-EX-20030616**

### Please enter the following:

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>inet6num</td>
<td>2001:db8:2103::/48</td>
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<tr>
<td>status</td>
<td>AGGREGATED-BY-LIR</td>
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<td>country</td>
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### Go!
The Dirty Details

- The IPv6 Analyser queries and updates the RIPE Database through the RESTful API

- RIPE NCC Access accounts are associated with maintainers through the new “auth: SSO” attribute
  - Allows a seamless experience between all our services
  - SSO is more secure; user/pass + optional two-factor auth.
  - Easier concept for new users than “maintainer objects”
Thinking Outside The Box

• Some new ideas to address management:
  - Visual navigation
  - Wizards to guide the user
  - Seamless integration with other services through SSO

• Your feedback is incredibly valuable
  - The existing implementation can be expanded
  - The concepts can be applied to other services