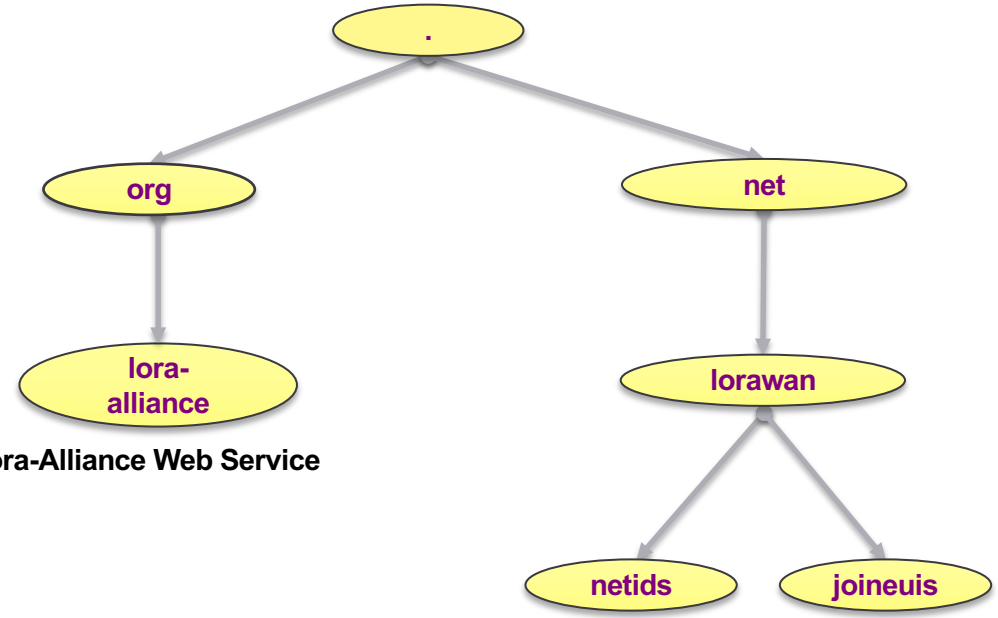
LoRaWAN & DNS

AMM – San Diego Technical Committee #24

Sandoche Balakrichenan, Benoît Ampeau (Afnic)



LoRa Alliance DNS tree



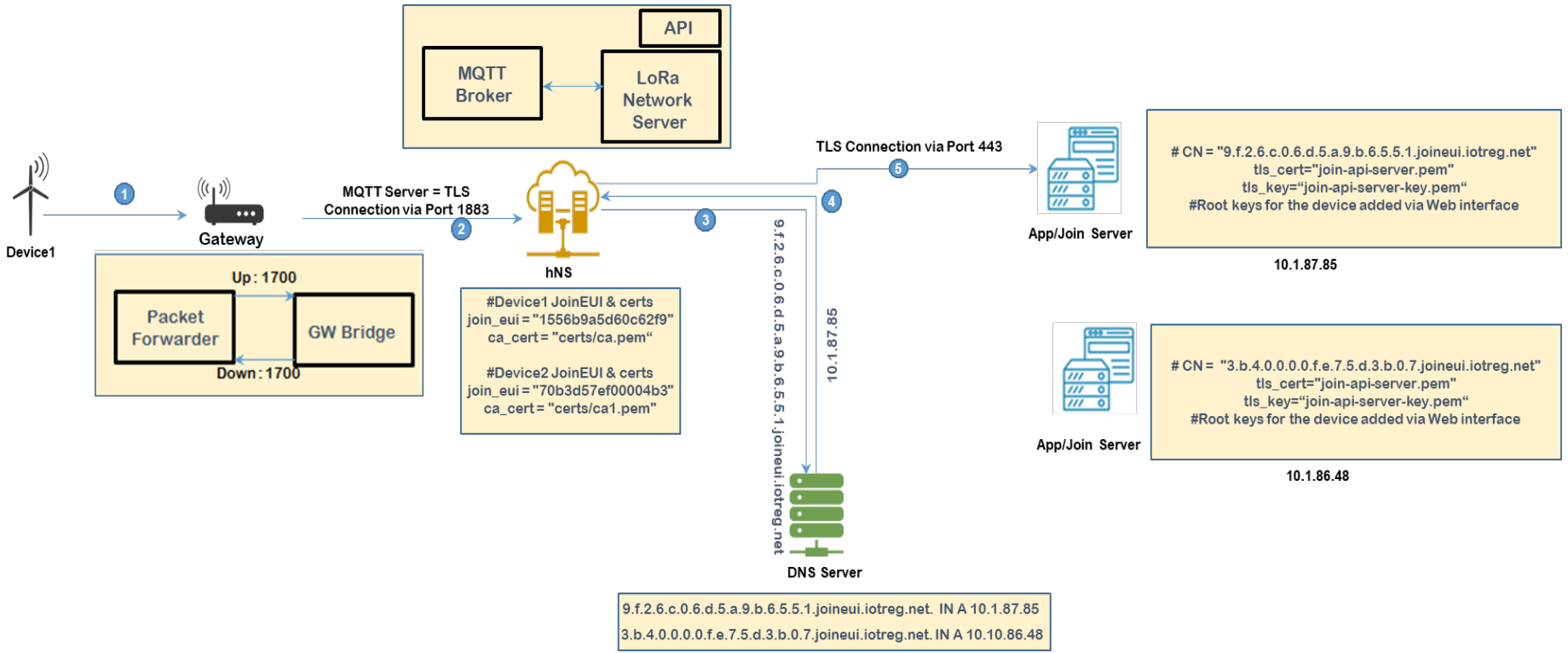
“lora-alliance.org” ➔ Lora-Alliance Web Service

“netids.lorawan.net” ➔ Lora-Alliance Roaming Service

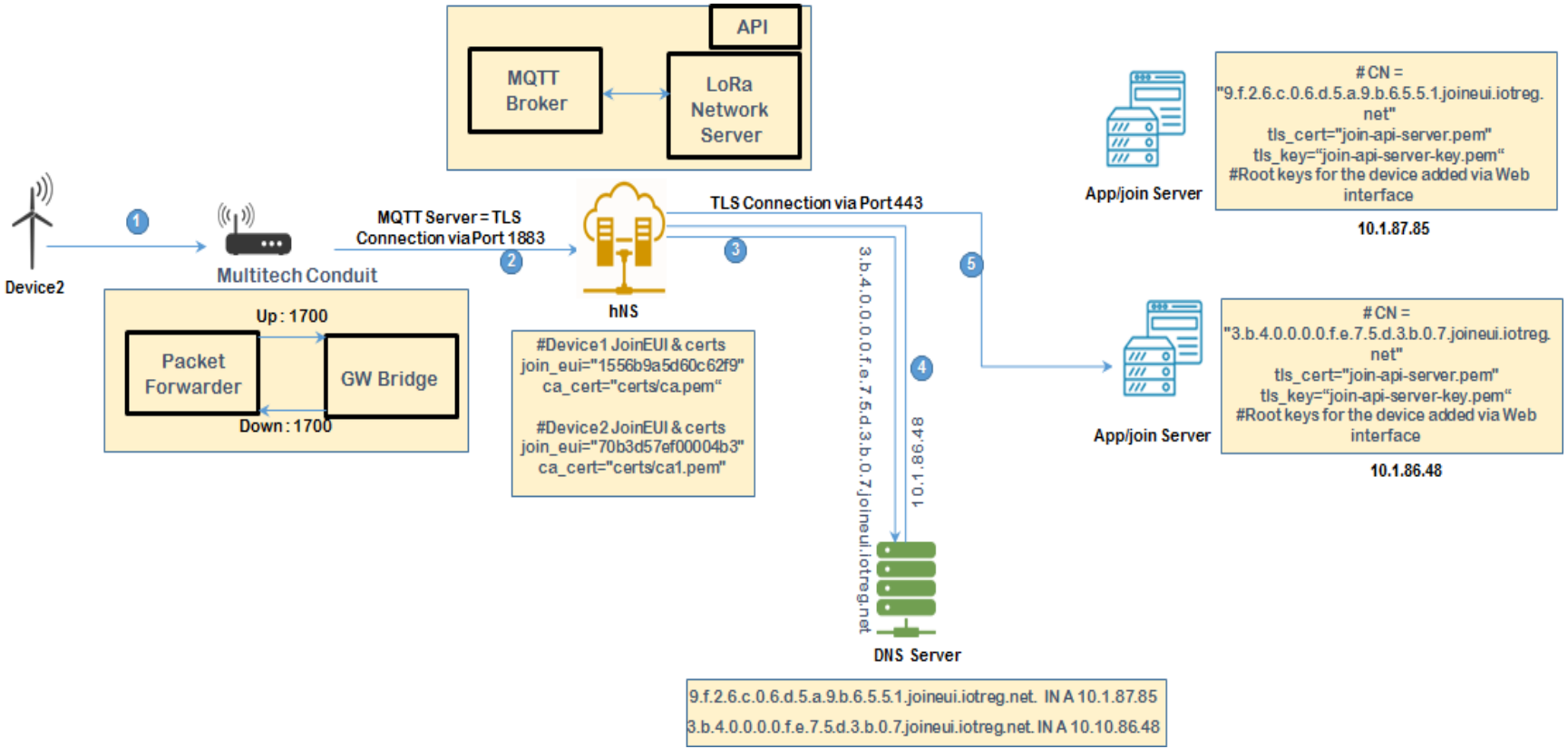
“joineuis.lorawan.net” ➔ Lora-Alliance OTAA Service

Ref: Section 20 of the LoRaWAN Backend Interfaces specification

Resolution service for OTAA (1/2) - Example



Resolution service for OTAA (2/2) - Example



DNS API Service

- To test Roaming and OTAA
- Ease of use with examples
- Secured with an API key for each member
- A member cannot edit another member data in the DNS zone
- All information are stored in a database with a backup
- Currently available without any SLA

.

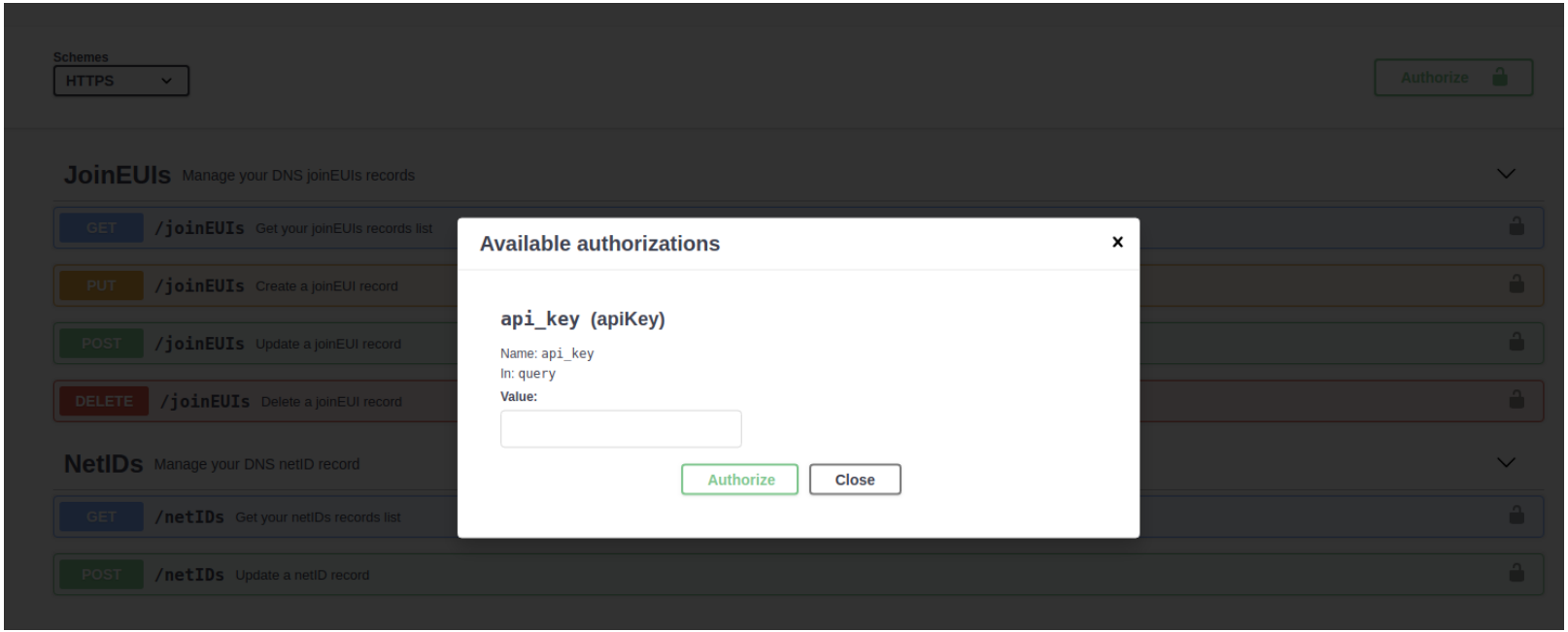
Onboarding process

- Send a mail to dpi@afnic.fr to get the user credentials
- Addition of NetID is done upon your request.

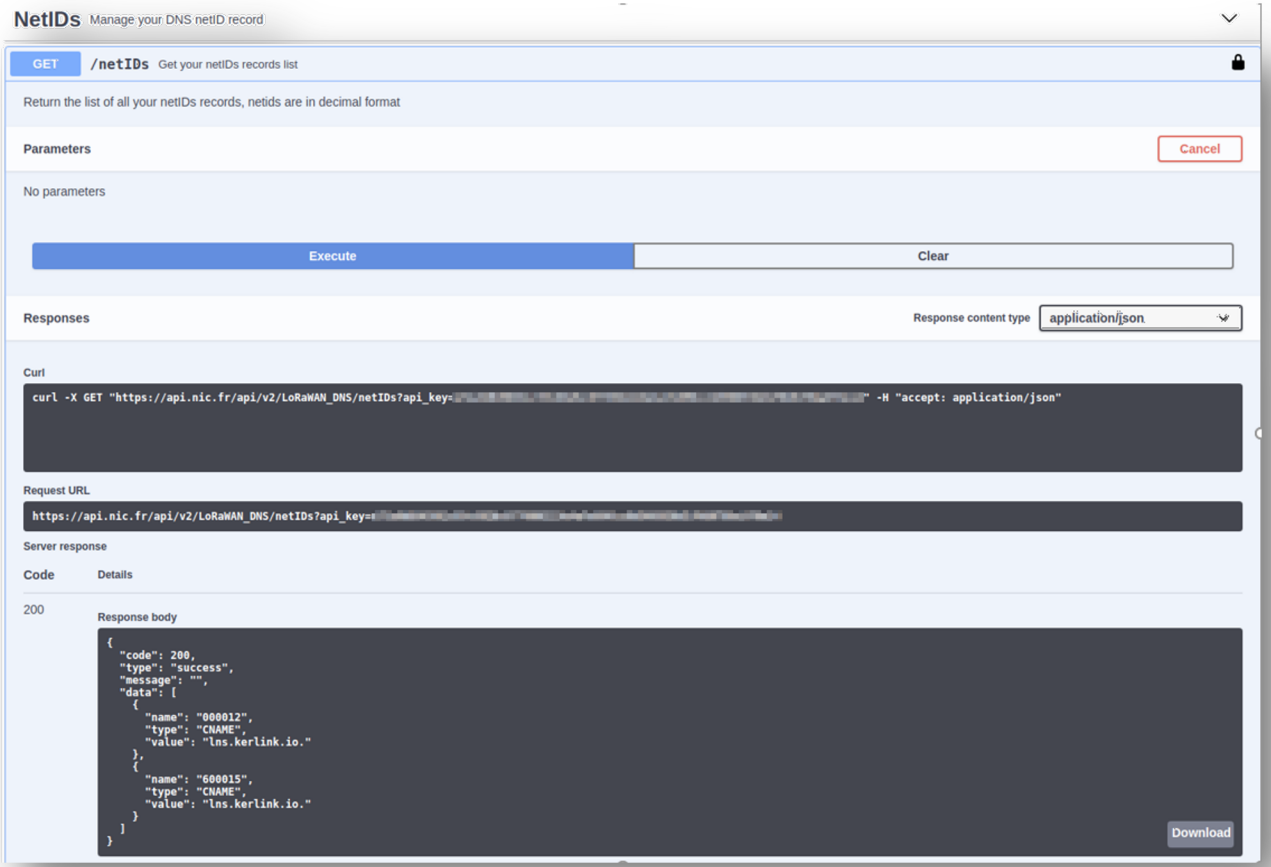
  ➔We will validate your request using the NetID allocation table in the alliance portal and add the record in the DNS
- Editing one's data in the DNS corresponding to your NetID is possible with your secured credentials
- For JoinEUI, all operations are possible with your API key

.

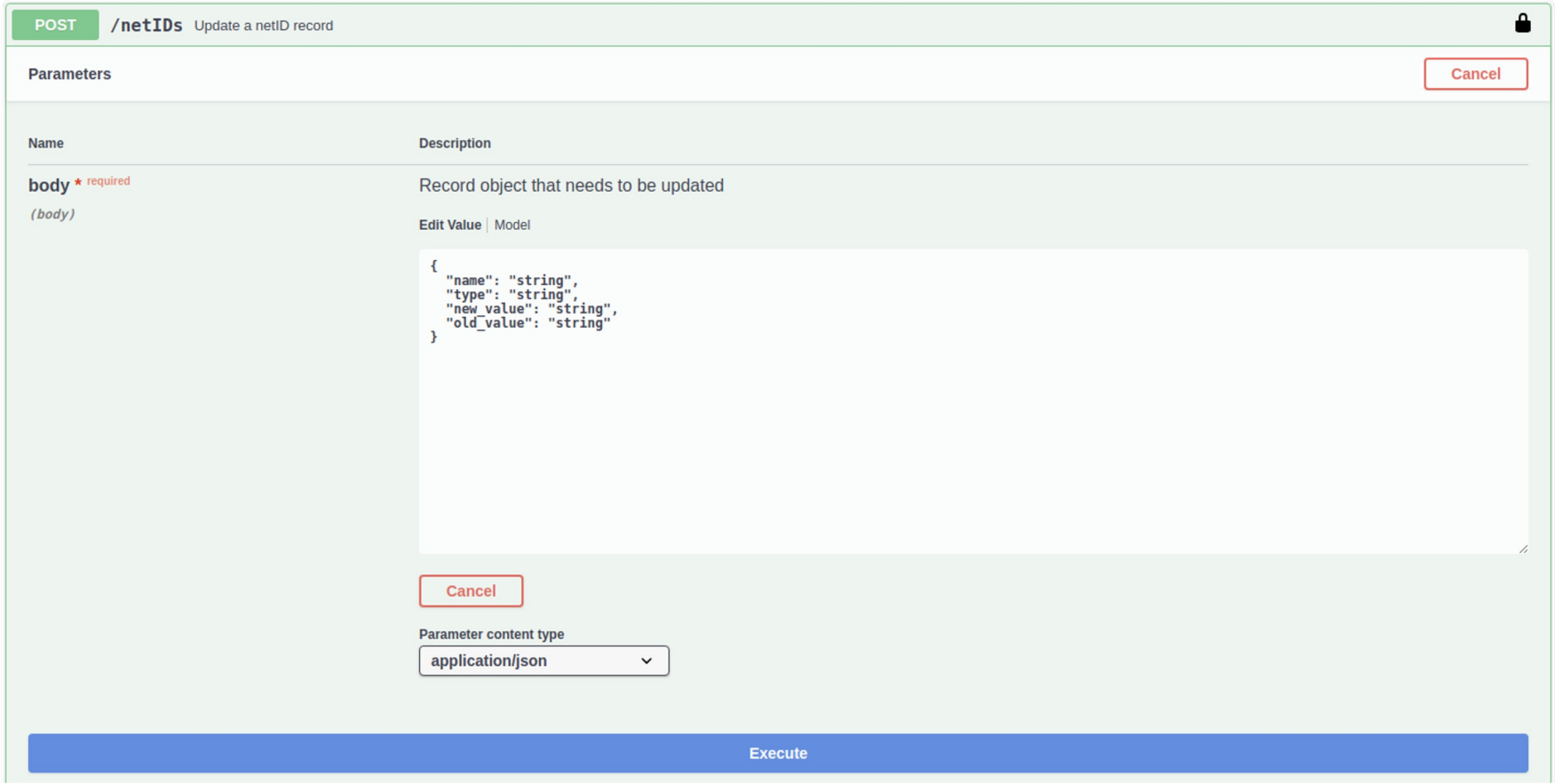
Accessing the API



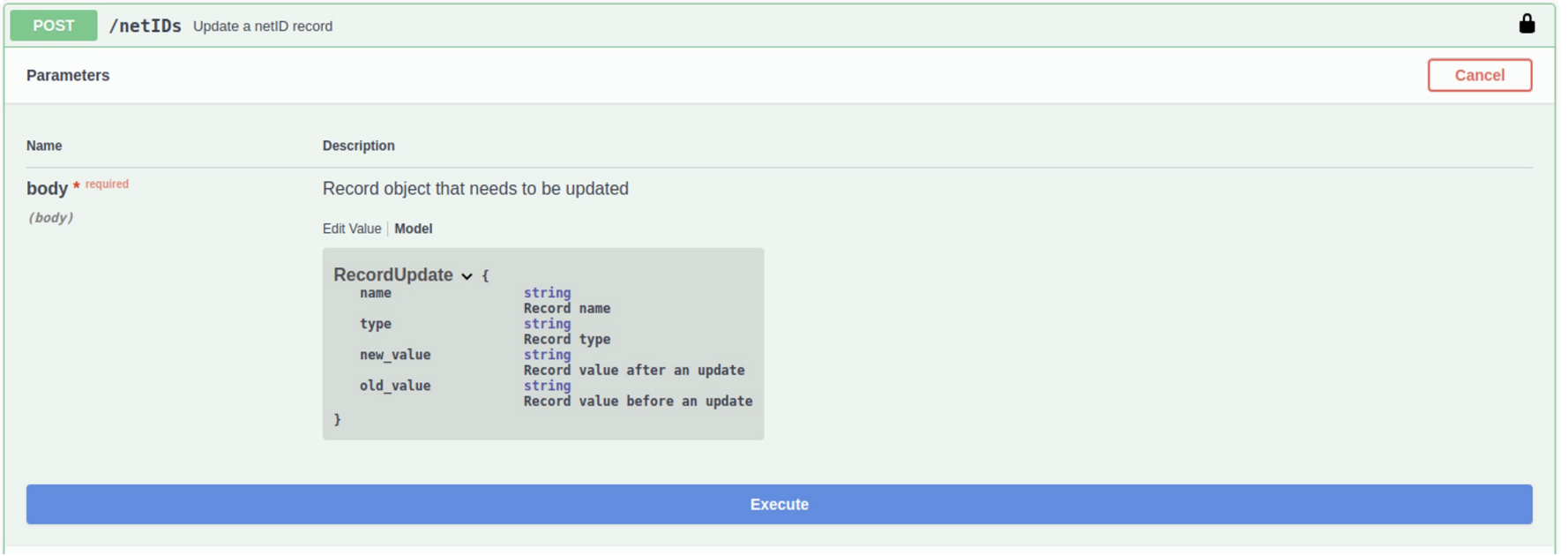
Viewing your NetID content in two clicks (Kerlink example)



To update one's NetID references



To update one's NetID references – Examples on clicking "Model"

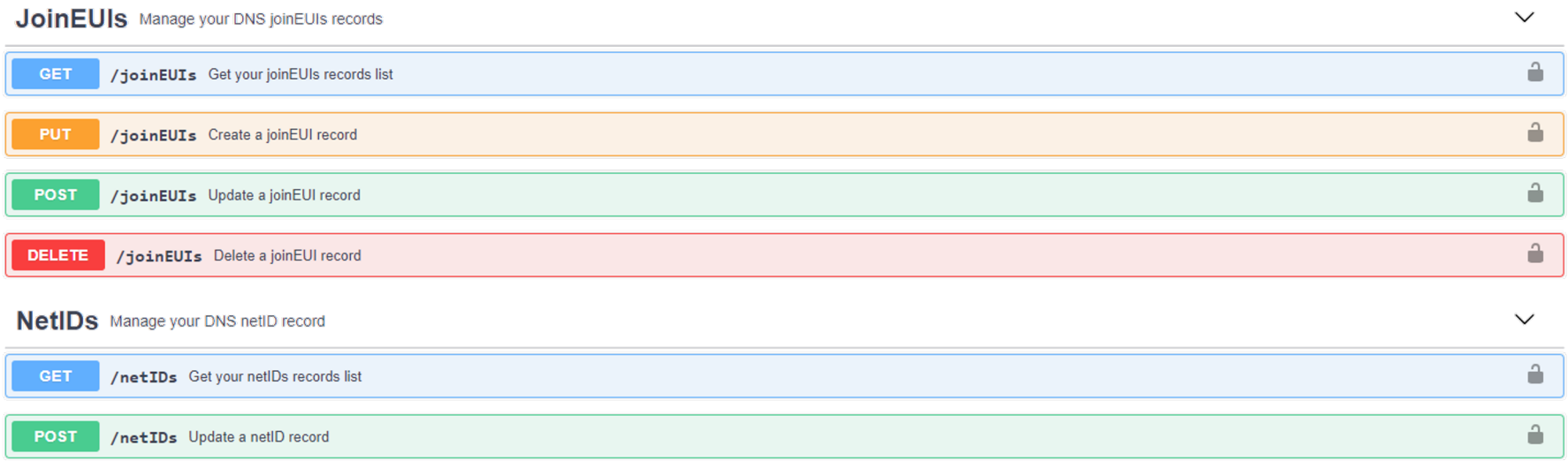


Clear responses

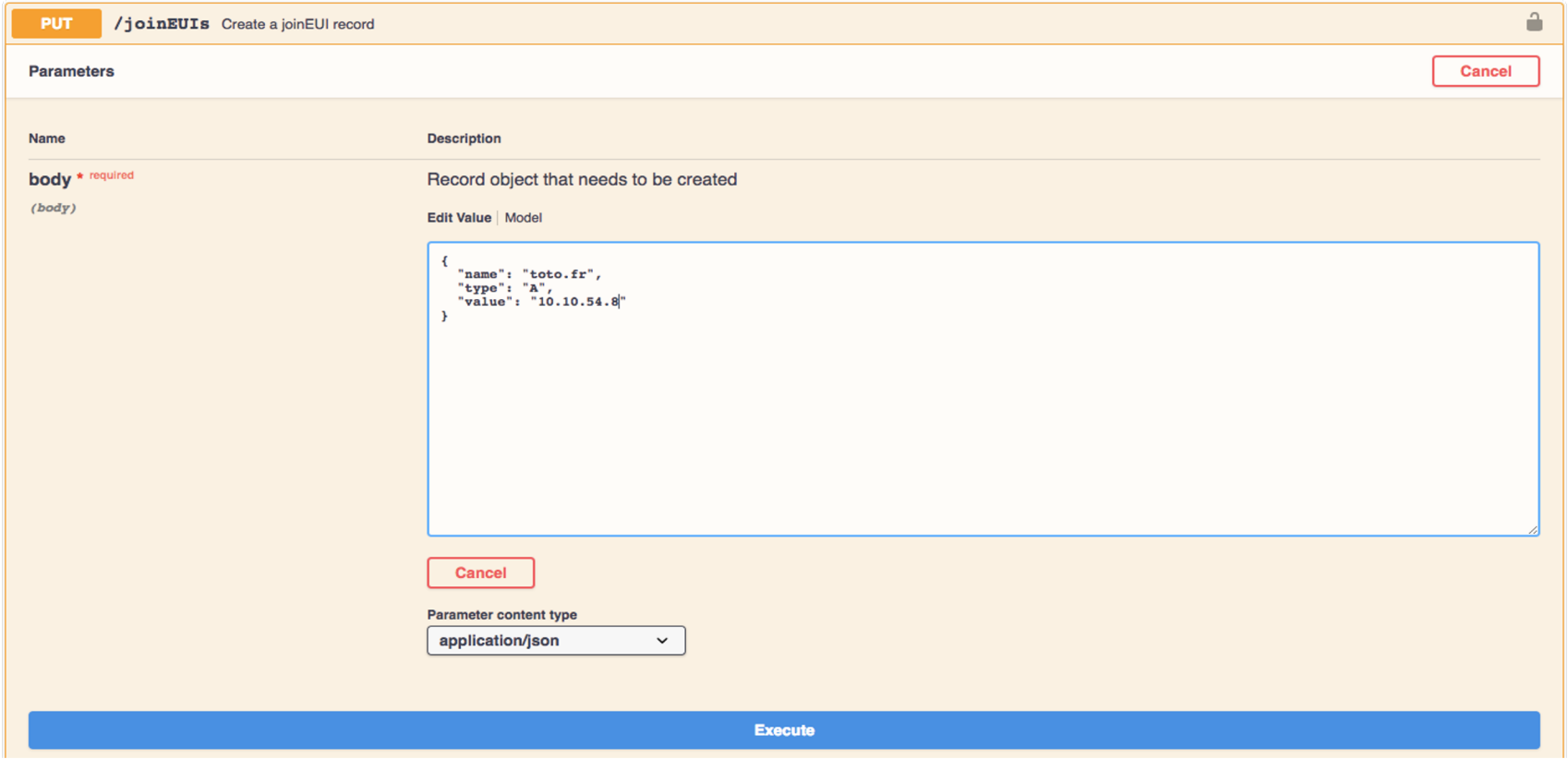
Responses Response content type application/json

Code	Description
200	*NetID updated*
403	*Forbidden: You don't have permission to update this record*
405	*Invalid input. Returned with the result of named-checkzone*

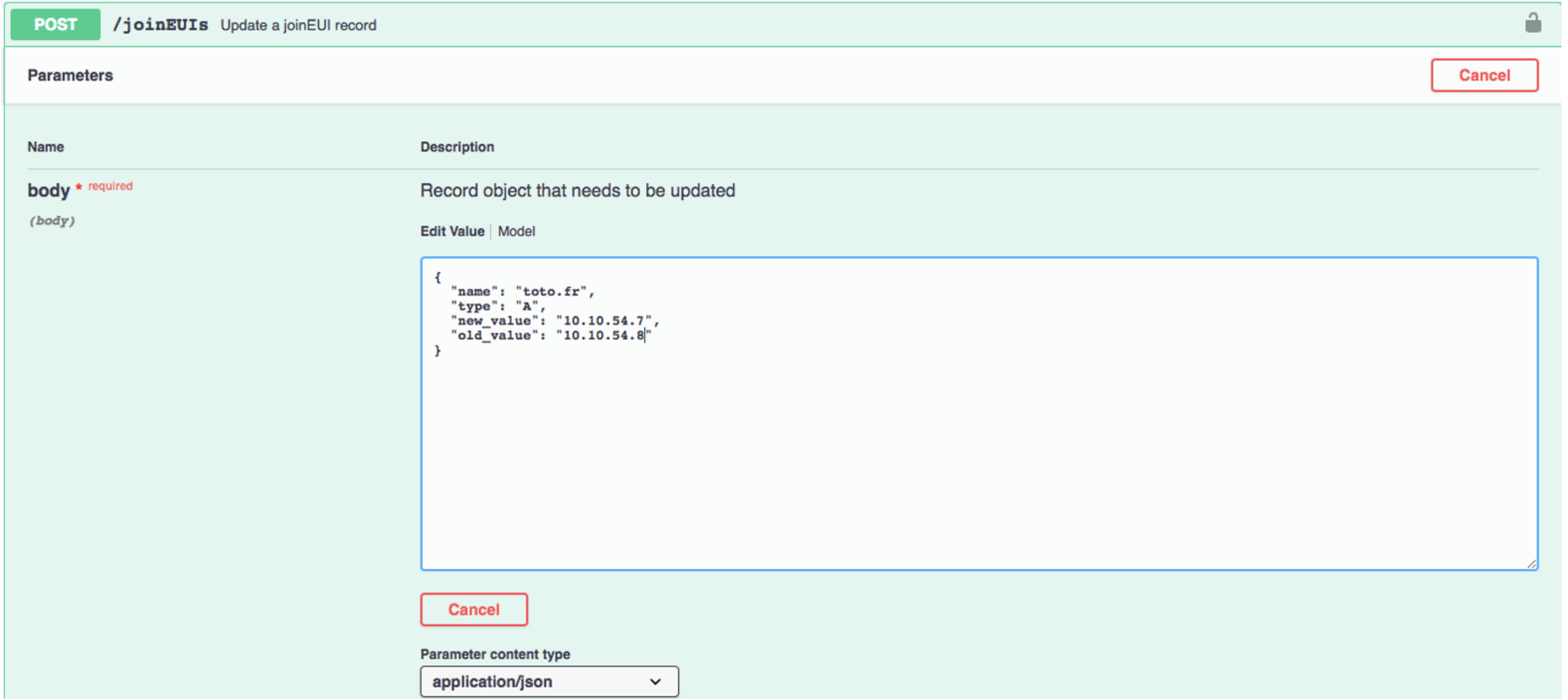
Different operations possible with the API



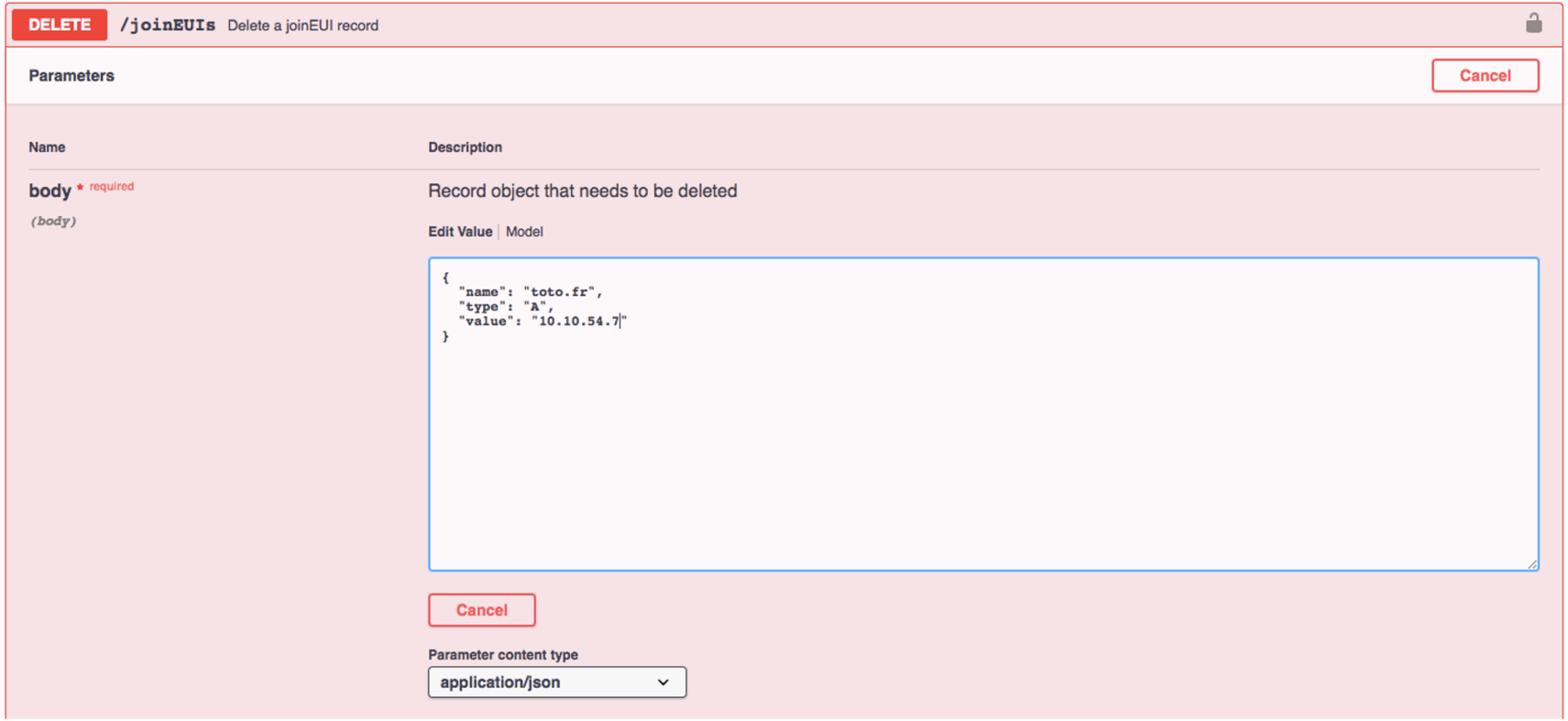
Examples Creating a new record in the DNS zone



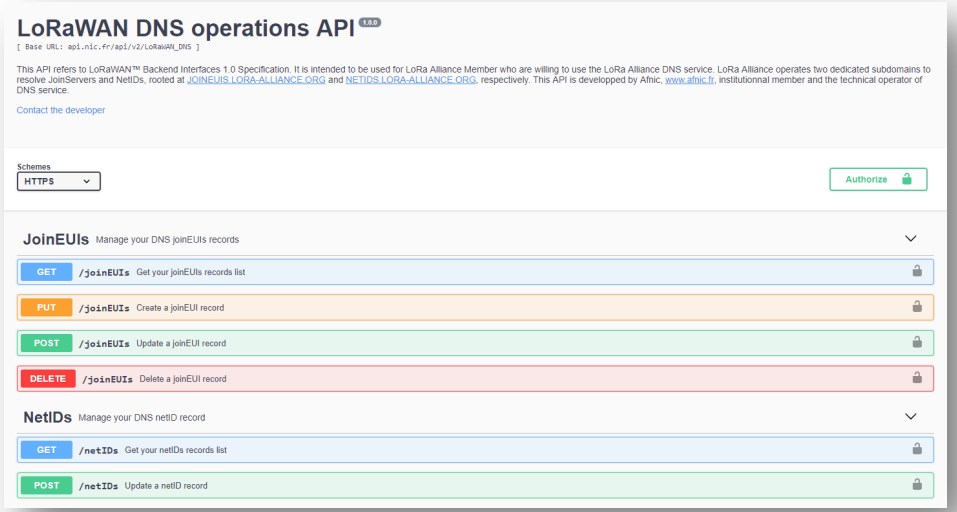
Examples : Modifying an existing record in the DNS zone



Examples : Deleting an existing record in the DNS zone

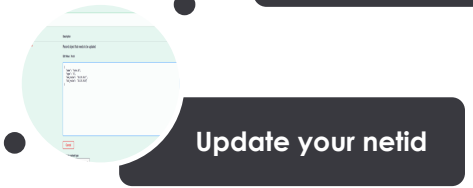


Next Steps











Any feedback welcome

Thanks for your attention

Any questions ?