



ONTARIO
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REST & Relax:

The future of Whois and Templates at ARIN

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Two RESTful Web Services at ARIN

- **Whois RESTful Web Service**
 - Announced November 2009
 - Going to production status July 2010
- **New Registration RESTful Web Service**
 - A RESTful web service for the registration, modification, and maintenance of resources.
 - Backwards compatibility for templates.



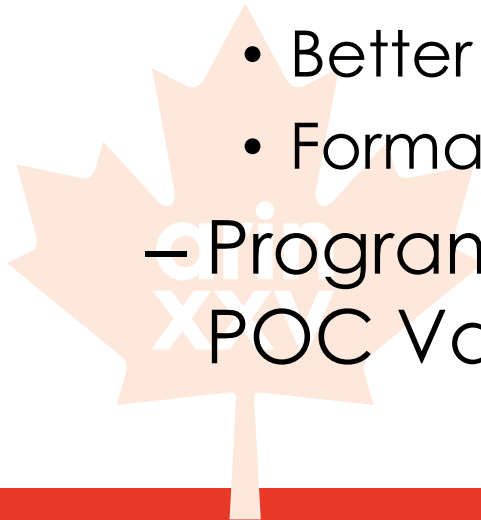
RIPE NCC Goes RESTful

- **“Imitation is the sincerest form of flattery”**
 - RIPE NCC announced their Whois RESTful Web Service last month.
 - <http://labs.ripe.net/content/ripe-database-api>



ARIN Whois-RWS Status

- **Almost ready for production.**
 - Putting it through load testing to help deal with our recent Whois traffic increases.
 - Incorporating feedback
 - More query options
 - Better documentation
 - Formalized schemas in Relax NG
 - Programmers are busy adding support for POC Validation as we speak.



Changes to Port 43 Proxy

- **As part of Whois-RWS.**
 - The changes go to production with Whois-RWS.
- **New CIDR Queries**
- **Better help and error messages.**
- **New ‘/’ name attribute flag**
 - for use when “IDN-helpful” Whois clients misinterpret the ‘.’ attribute flag.

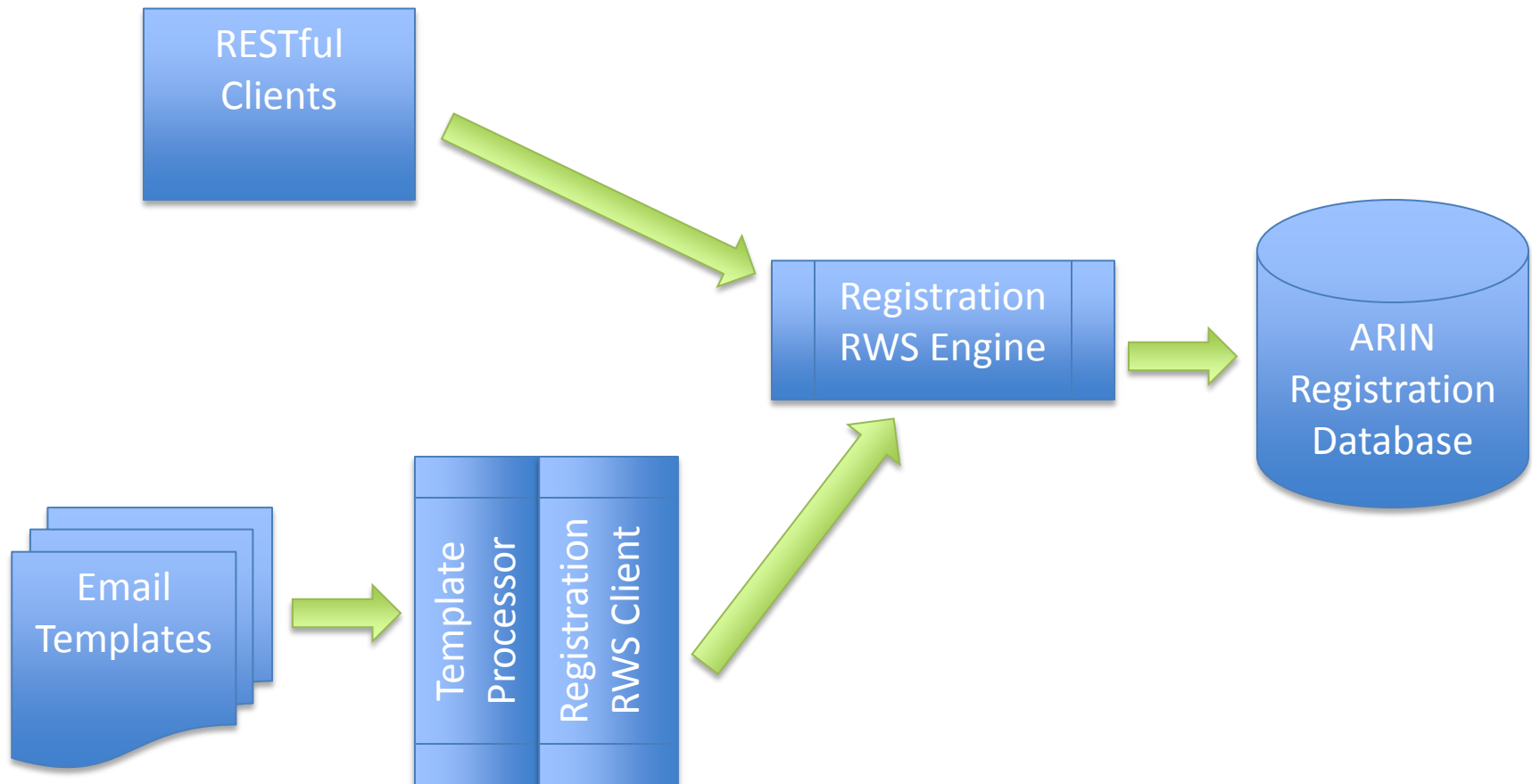


ARIN Registration RWS

- **A RESTful Web Service that will allow you to create, read, update, and delete resources in ARIN's registration database.**
- **Why?**
 - Massive changes to our data model requires us to rewrite our core registration software.
 - Good time to make it modern.
 - Builds on the work from ARIN Online and Whois-RWS.



Registration RWS Architecture



Will Require API Key

- **As seen in RESTful services throughout the industry**
 - provides authentication -> authorization.
- **API Keys will be managed via ARIN Online.**
 - Create as many as you want.
 - They are not public information.
 - Not published in Whois.



Template Compatibility

- **Templates will use the same authentication -> authorization model.**
- **Use of API Key in Templates**
 - Line 00. of template.
 - In the Subject.
 - In the From address.
 - Explicitly associated with an email address (requires no template modification).



Open Source RESTful Client

- **As a natural part of the development to process templates in this new system, we must develop a RESTful client.**
- **This can be made available as an Open Source project.**

A Draft RESTful API

- A draft of the ARIN Registration RESTful API is now available:
 - <https://www.arin.net/resources/restful-interfaces.html>



Questions?