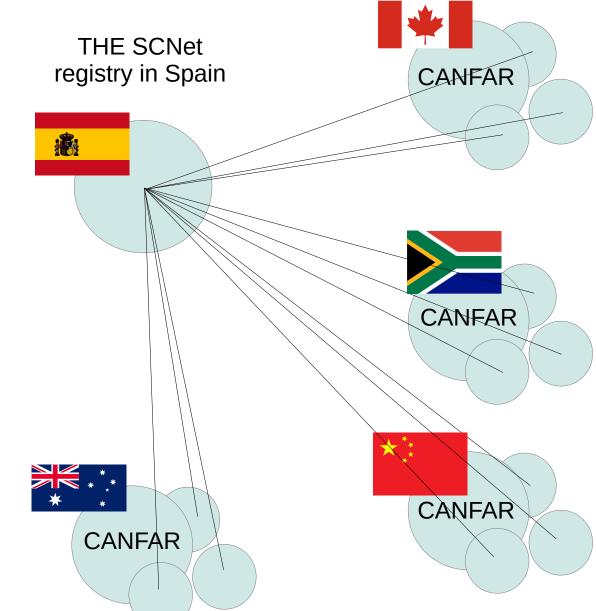


Using MockServer to test the CANFAR registry client

Dave Morris Manchester University



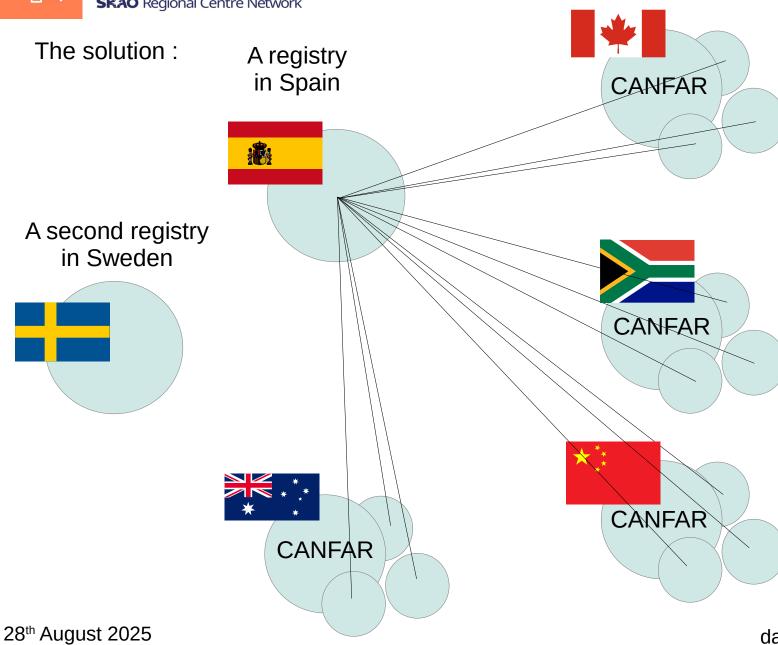
The problem:



Dave Morris

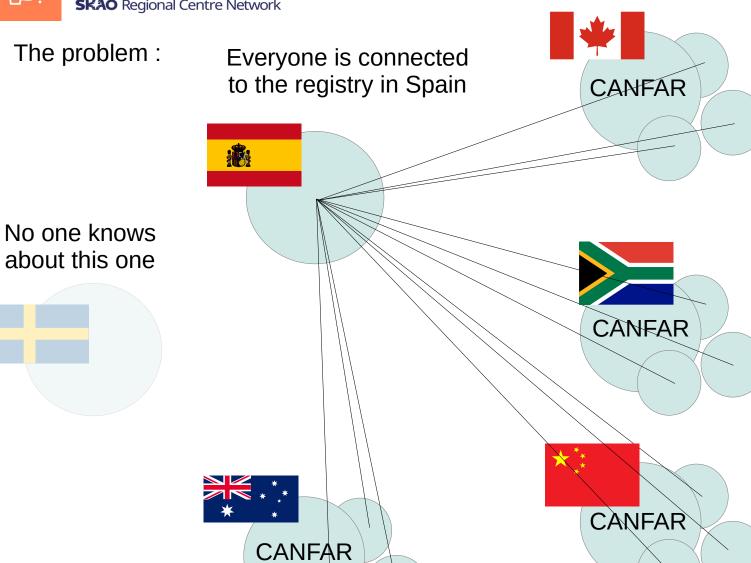
dave.morris@manchester.ac.uk





Dave Morris dave.morris@manchester.ac.uk

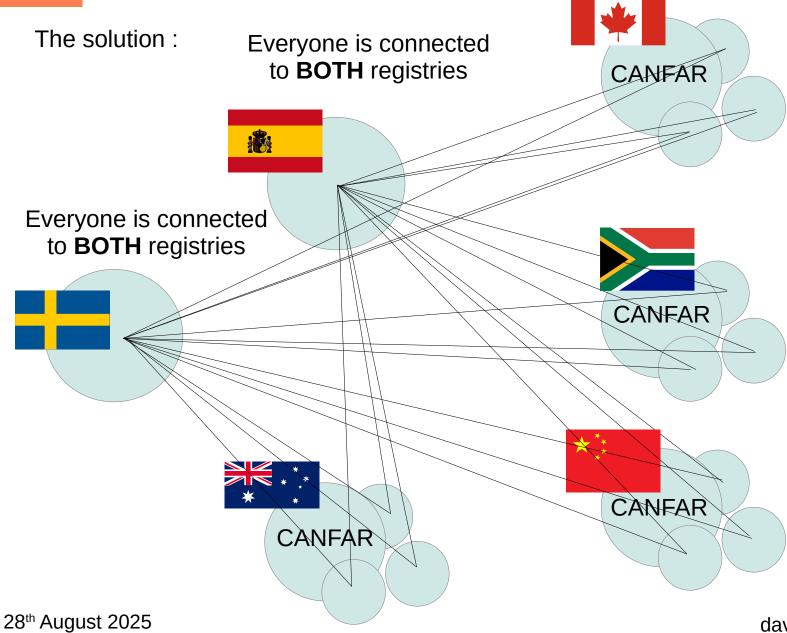




28th August 2025

Dave Morris dave.morris@manchester.ac.uk

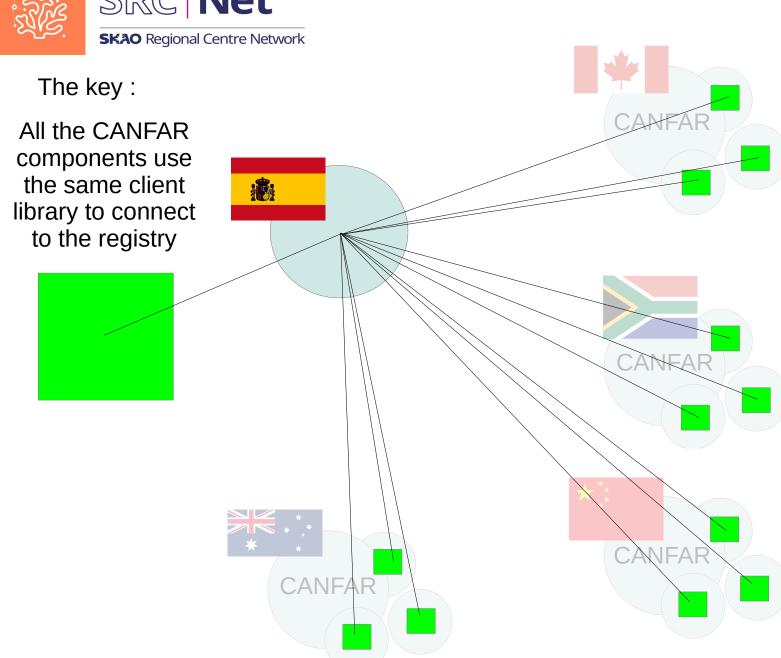




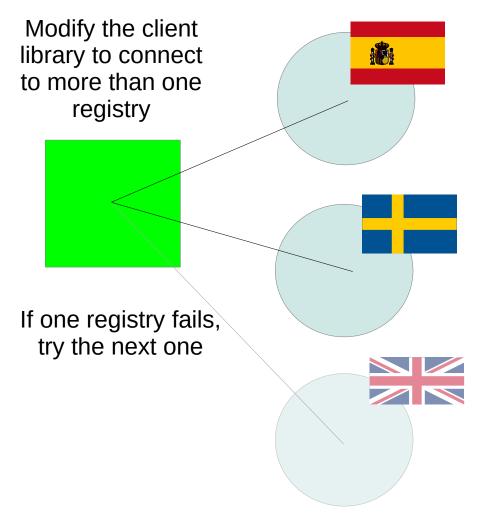
Dave Morris dave.morris@manchester.ac.uk



28th August 2025





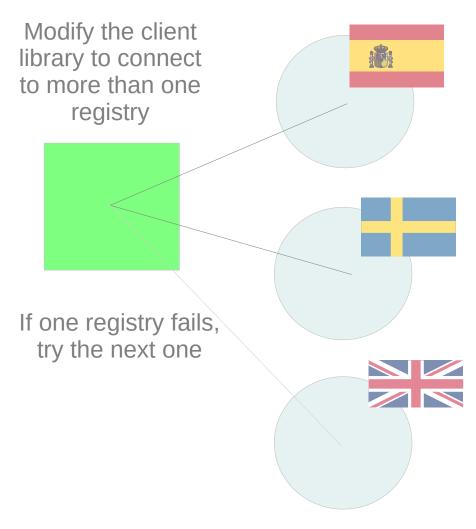




Code complete Changes done



The problem:



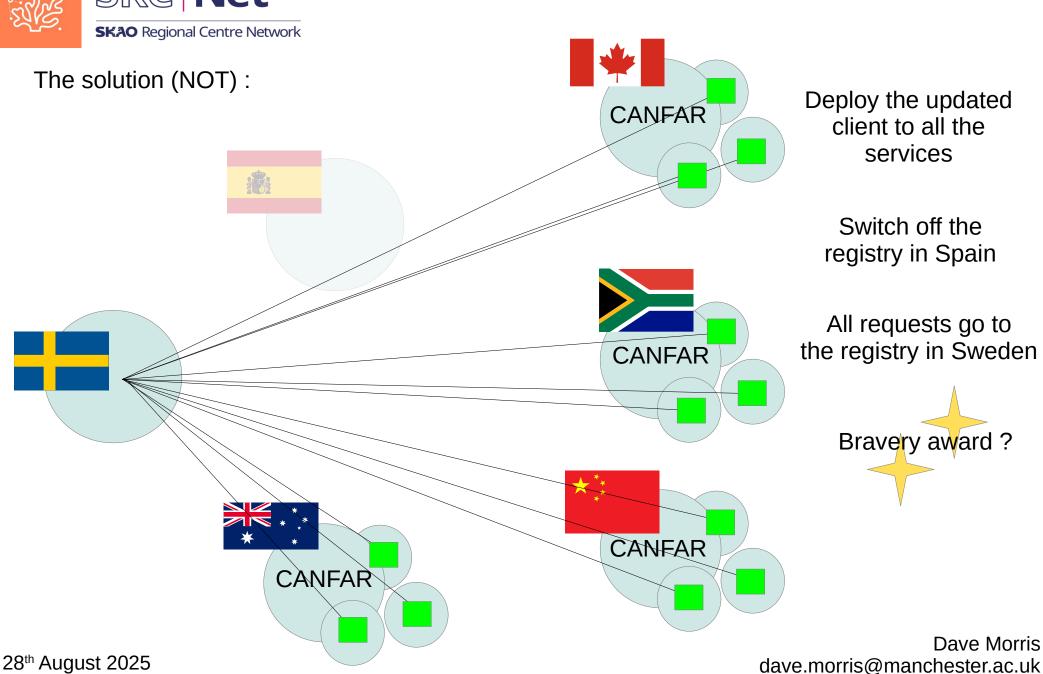


Code complete Changes done

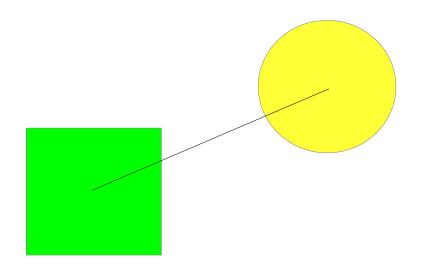
How do we test it?











MockServer

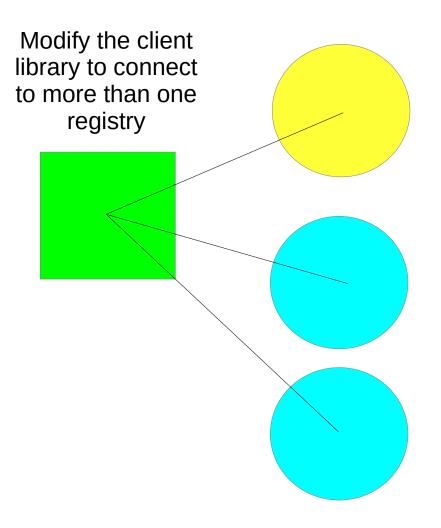
https://www.mock-server.com/

Configurable web service

Request that matches <pattern>

Respond with <HTTP code> and <content>





MockServer

https://www.mock-server.com/

Configurable web service

Request that matches < registry request>

Respond with <404 Not Found>

Simulate multiple services

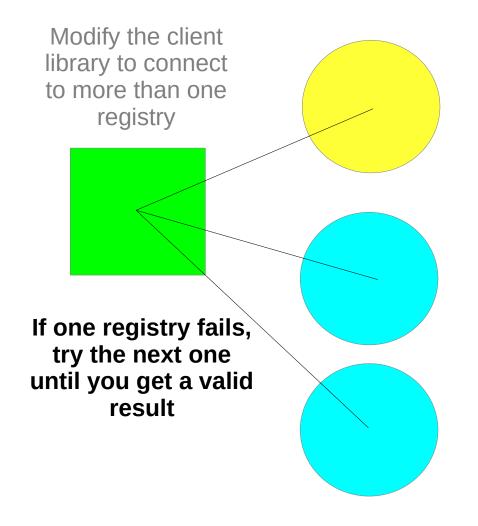
Request that matches < registry request>

Respond with <200 OK> and <content>

Request that matches <pattern>

Respond with <200 OK> and <content>





MockServer

https://www.mock-server.com/

Request that matches < registry request>
Respond with < 404 Not Found>

Verify this was called ONCE

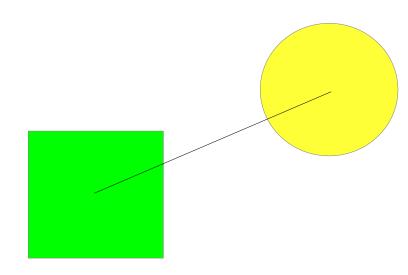
Request that matches < registry request>
Respond with < 200 OK> and < content>

Verify this was called ONCE

Request that matches < registry request>
Respond with < 200 OK> and < content>

Verify this was NOT called





If one registry fails, try the next one until you get a valid result

MockServer

https://www.mock-server.com/

Configurable web service

Request that matches < registry request>

Respond with <404 Resource Not Found>
Respond with <404 Capabilities Not Found>

Respond with <200 OK> but <BAD XML>

Wait too long to respond (timeout)

Don't respond, drop the connection

Good confidence it will work in the wild





