



# ARIN's RPKI (so far)

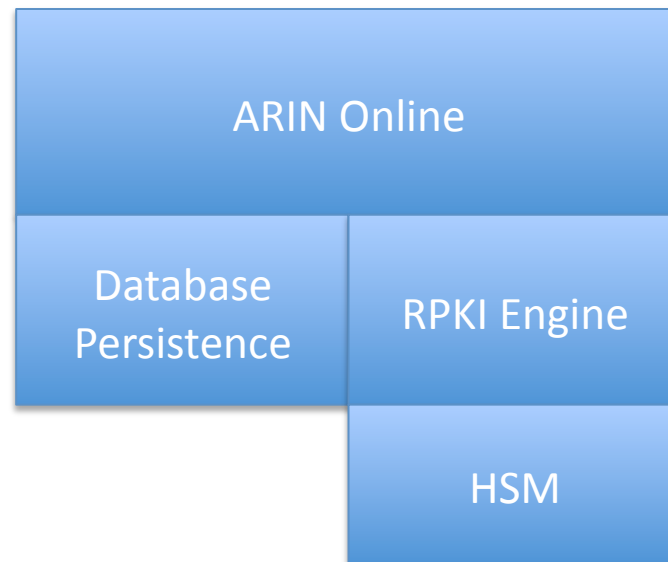
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Andy Newton  
Chief Engineer

# Pilot

- Available since June, 2009
  - <http://rpki-pilot.arin.net>
  - ARIN branded version of RIPE NCC software
- 45 organizations participating

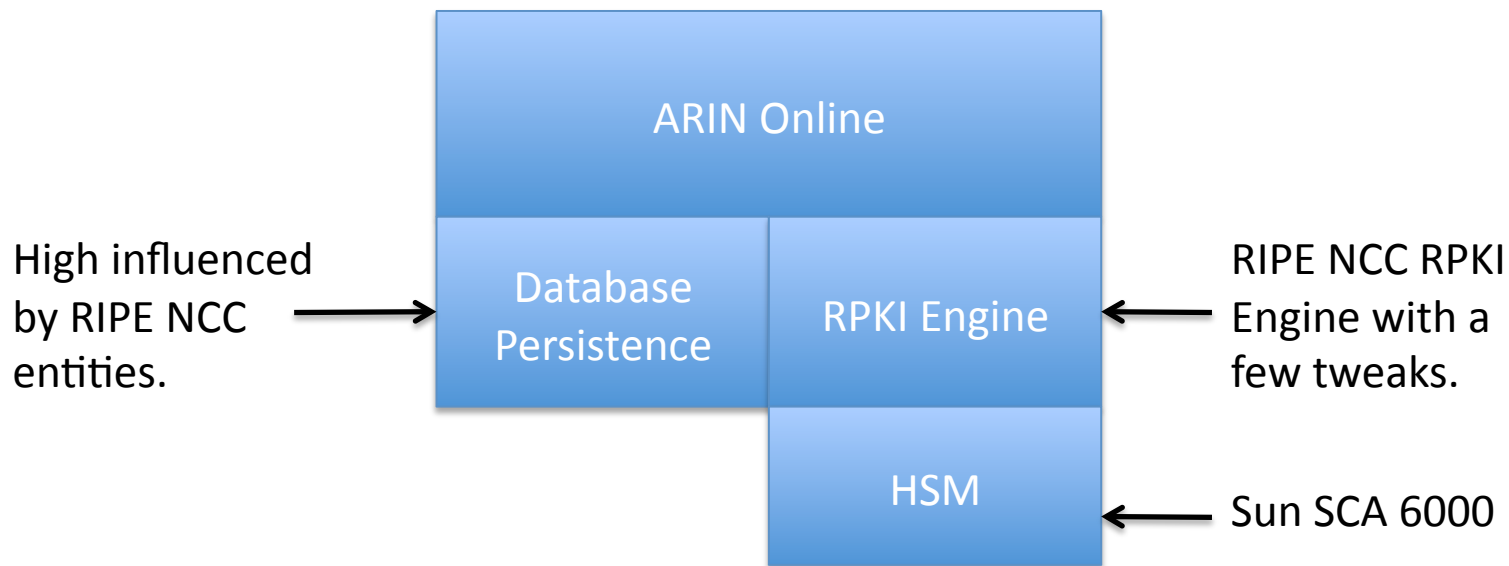
# General Architecture



Tight coupling between resource certificate / ROA entities and registration dataset at the database layer. Once certs/ROAs are created, they must be maintained if the registered dependents are changed.

# As of December 2010

With a few finishing touches, ready to go Jan 1, 2011 with Hosted Model, Delegated Model to follow end of Q1.

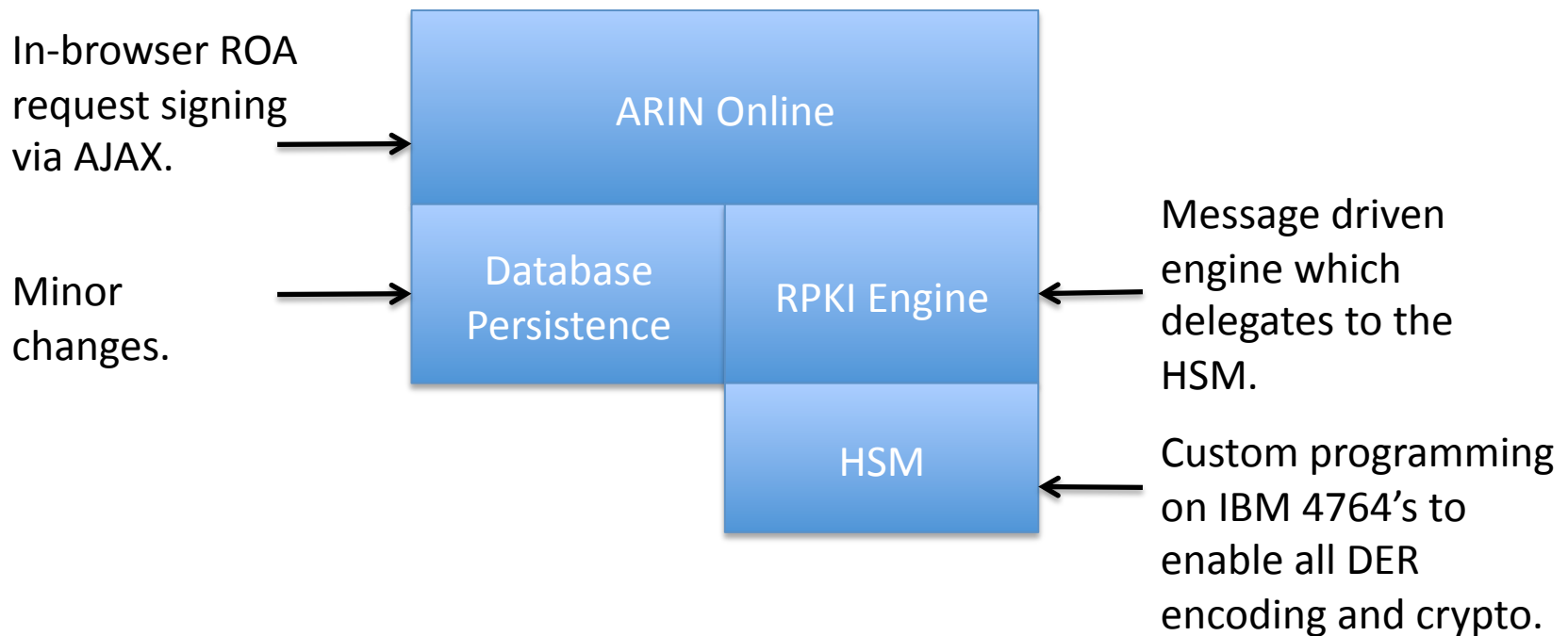


Everything is Java, JBoss, Hibernate.

# And then...

- Intense review of liabilities by legal team in December, 2010 caused...
  - Completely new requirements for non-repudiation in ROA generation for hosted CAs
  - Completely new requirements to thwart “Evil Mark” (rogue employee)
  - Further intense review of liabilities by legal team and Board of Trustees

# Changes Underway



HSM coding is in C as extensions to IBM CCA. Libtasn1 used for DER coding.

# Status

- Hosted CA anticipated in May at the earliest
- We intend to use RIPE NCC up/down code for delegated model
- Awaiting approval by our Board of Trustees for both models of deployment