



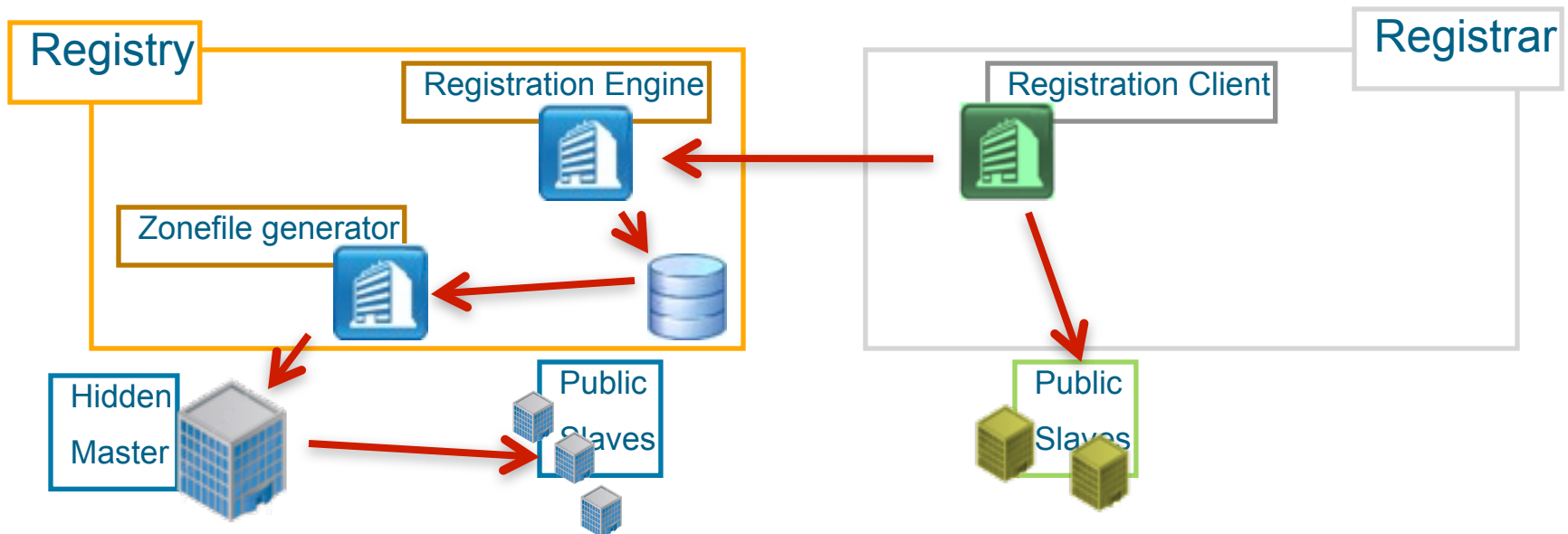
The .eu zone



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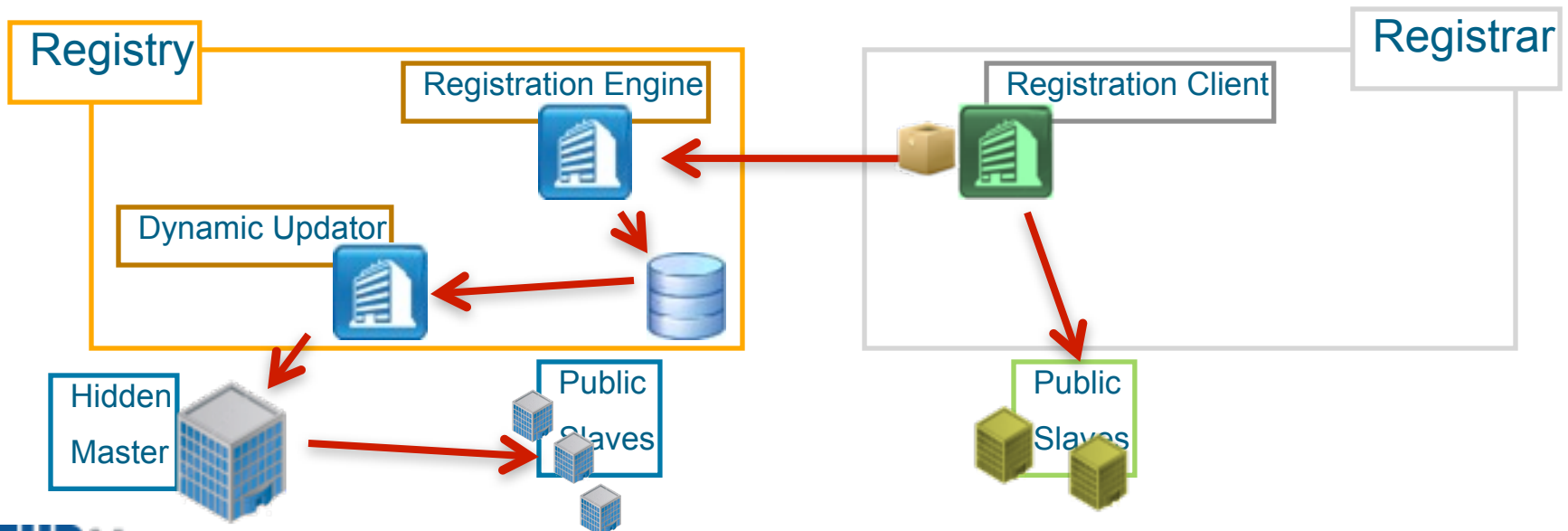
“Standard” Zonefile Generation

- ❑ Domain name registration
 - Registrar contacts Registry system (EPP or webbased)
 - Transaction contains all data (domain name and name servers)
 - All data saved in core database
- ❑ Zone file generation
 - *Regularly (once a day)* : zone file generation
 - Zone file pushed to hidden master
 - Hidden master pushes zone file out to (public) slaves



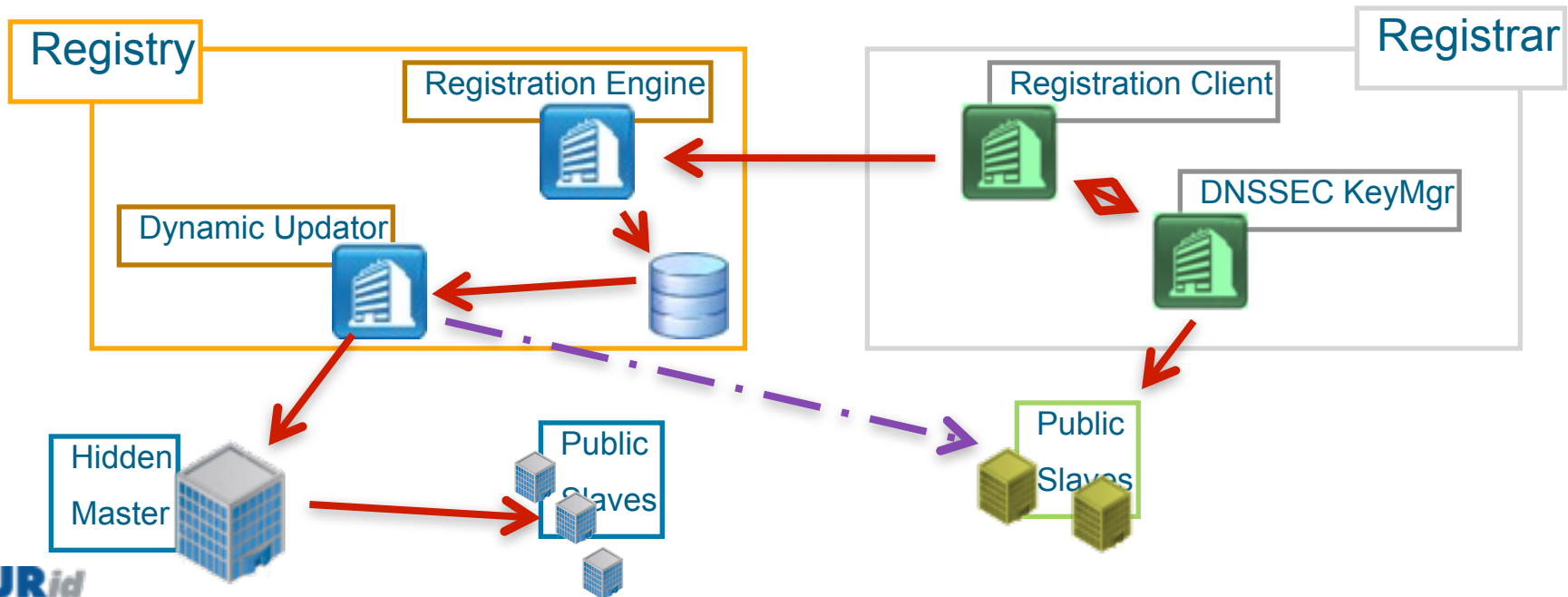
.eu Zone Provisioning

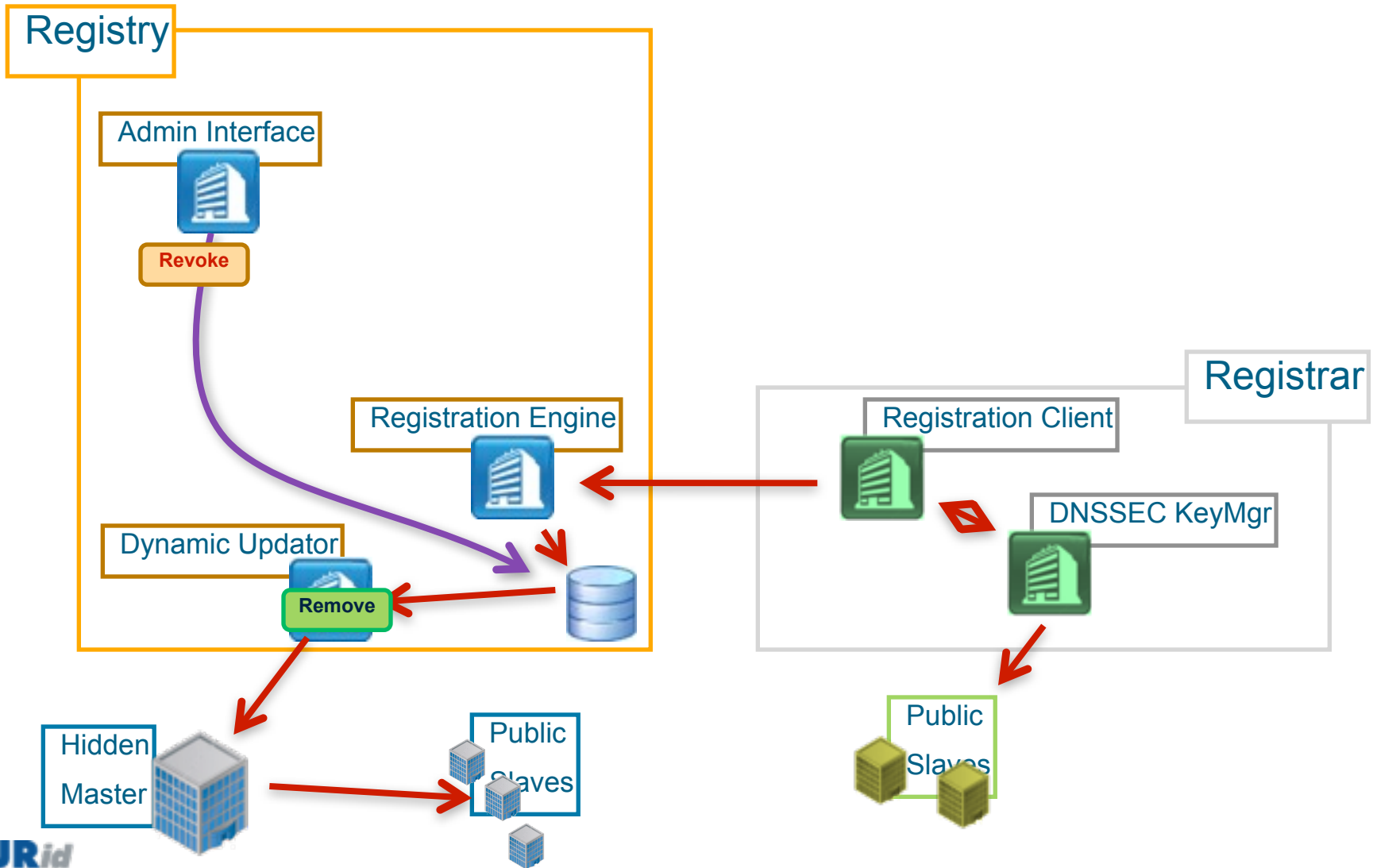
- ❑ Domain name registration
 - Registrar contacts Registry system (EPP or webbased)
Transaction contains all data (domain name and name servers)
 - All data saved in core database
 - Dynamic Updator process feeds domain name data to (hidden) master
 - (Semi) realtime
 - Hidden master pushes delegation out to (public) slaves
 - Domain name “life” in seconds



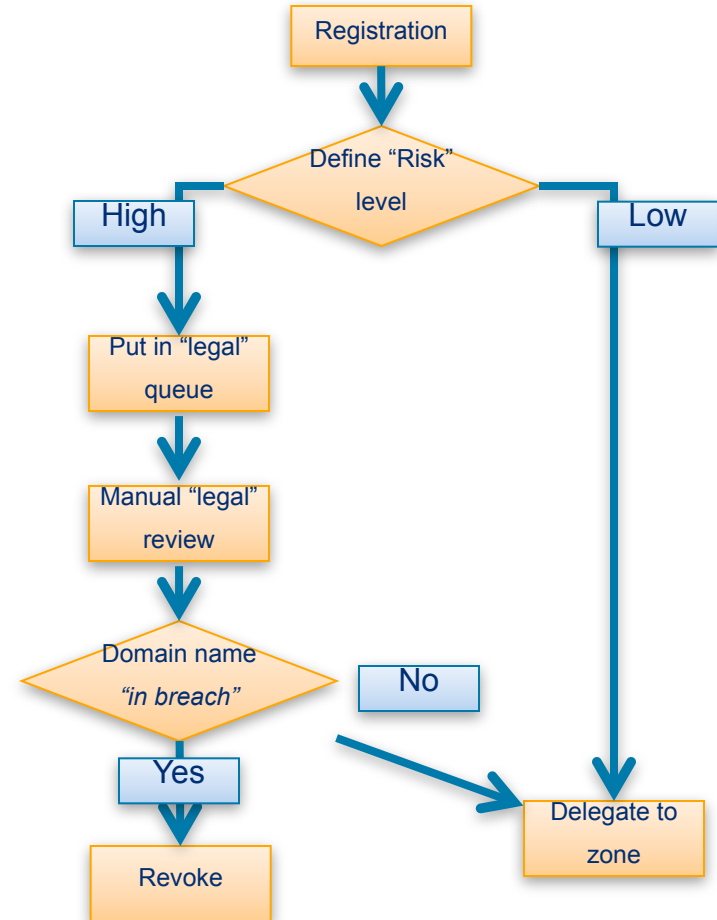
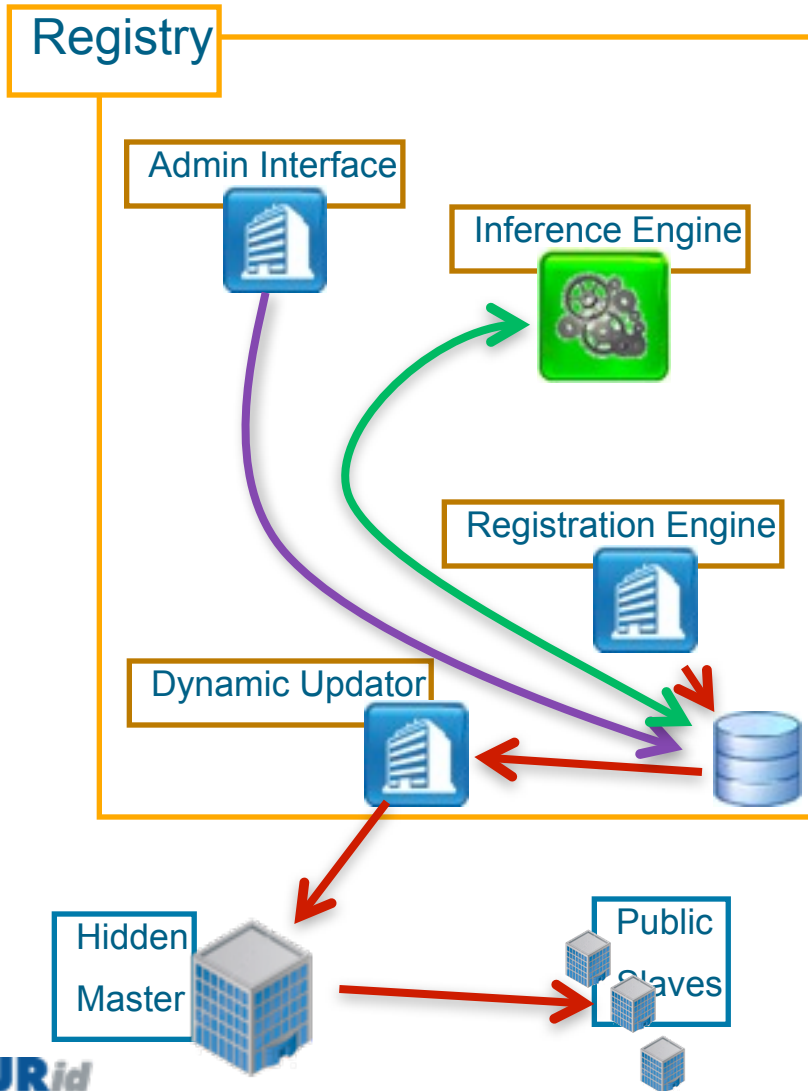
.eu Zone Provisioning + DNSSEC

- ❑ Domain name registration
 - Registrar contacts Registry system (EPP or webbased)
Transaction contains all data (domain name and name servers)
Including “keys”
 - All data saved in core database
 - Dynamic Updater process feeds domain name data to (hidden) master
after it has verified the delegation and validity of DNSSEC key material
 - Hidden master pushes delegation out to (public) slaves





.eu Zone Provisioning + DNS abuse/revocation



“Risk level” determination – inference engine

- Similar to “spam detection engine”
 - ❑ Rules : result in “score”
 - ❑ Total score above threshold -> action is triggered

- Rules?
 - ❑ All registration (historical) data used as input
 - Statistical rules
 - External database mapping rules
 - ❑ Heuristical rules
 - Regex patterns,
 - Combinational, if/then rules

.eu Infrastructure

Front facing connectivity

