

What is Resource Certification?

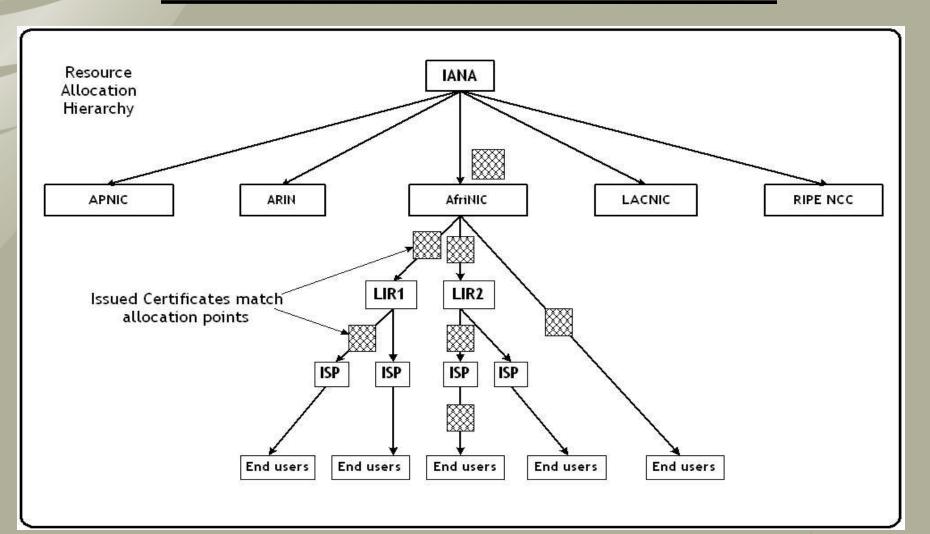
Resource Certification is a security framework for verifying the association between resource holders and their Internet resources.

Add a verifiable form of a holder's current "right-ofuse" over Internet resources in the resources management system

➤ Resource Public Key Infrastructure(RPKI) is a PKI based on the Internet resources management hierarchy and under which X509 certificates with RFC 3779 extensions and other signed objects are published and bound together in an verifiable way.



Overview





Participating in the RPKI

- Internet Registries(RIR/LIR/ISP) can:
- > Receive their certificates from their "upstreams"
- ➢ Issue certificates to their clients or themselves: End Entities Certificate
- Sign data with operative content using their own certificates



Services for the RPKI

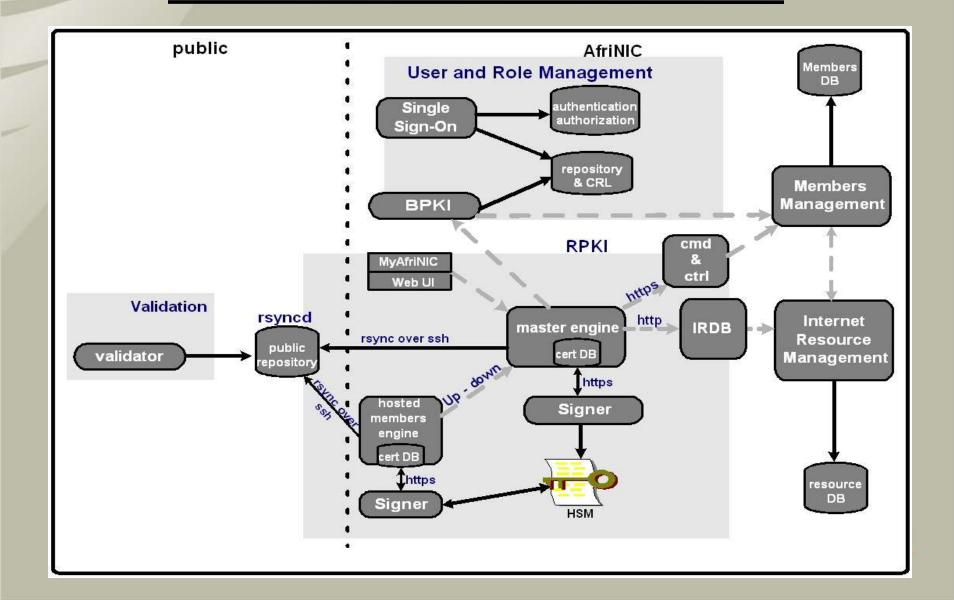
Intended AfriNIC services for LIRs

- Certify LIR resources using the AfriNIC's RPKIE
 Provide hosted RPKI services for LIRs:
 - A full managed RPKIE for LIR
 - Run the LIR's RPKIE et give real control to LIRs
- Deploy the UP-Down protocol to talk to LIR willing to run their own RPKIE
- > Provide the necessary public repository
- ≻Access to these services:
 - Through the normal channels (MyAFRINIC)
 - With strong authentication

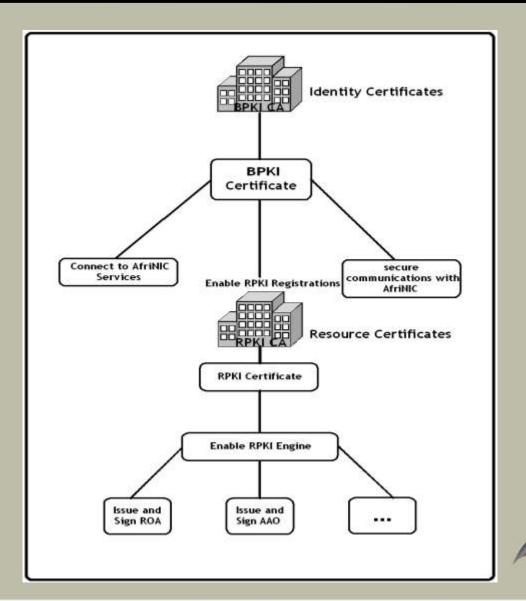
X509 Auth with BPKI certs



Architecture

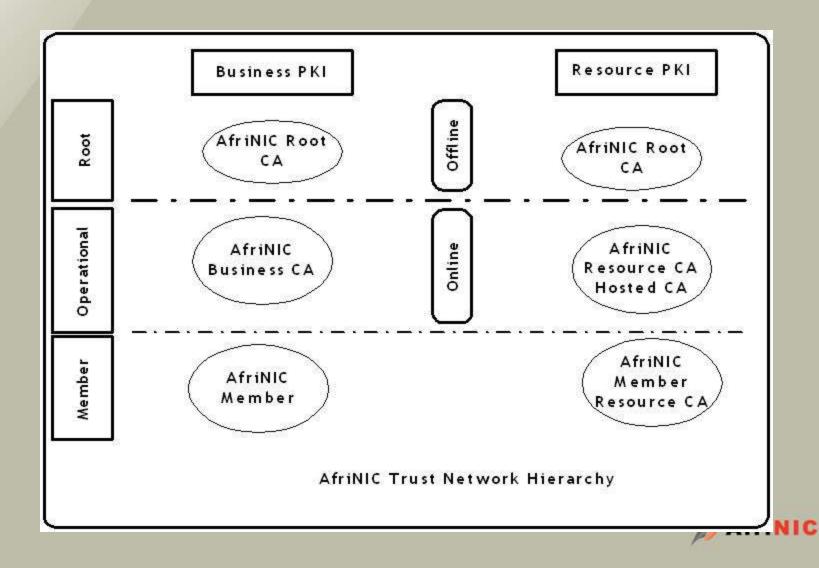


Authorization model



AfriNIC

Trust hierarchy



Coordinated timelines

June 15, 2010 :	August 15, 2010 :	October 15, 2010 :	November 1, 2010 :	Novembe 15, 2010 :
Resource CA in test mode	Integrated resource CA	ETA-CA support	Finalise Operations	Production release
We are here				

THANKS

AfriNIC RPKI Team For the continuous efforts

APNIC

For the collaboration



Questions?

