



AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

IT & Engineering activity update

By

Neriah Sossou

6 June 2014

***Beyond connection:
Internetworking for African Development***



AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

2014 Orientations

- Two main objectives identified in 2013
 - Improve our service delivery level
 - Enhance the resiliency of our Infrastructure
- Strategy to achieve objectives
 - Strengthening of infrastructure and team
 - Improve our change management process
 - Review DR & Articulate BCP



AFRIC-20
25 MAY - 6 JUNE 2014
Djibouti

Strategy

☐ Virtualization

- Optimize resources and reduce cost
- Facilitate our DR capabilities
- Contribute to stability of services

☐ Datacenters

- Mauritius – corporate services
- Johannesburg – public services
- Cape Town – public services
- Egypt – Recovery site



AFRIC-20
25 MAY - 6 JUNE 2014
Djibouti

Mauritius





AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

Johannesburg





AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

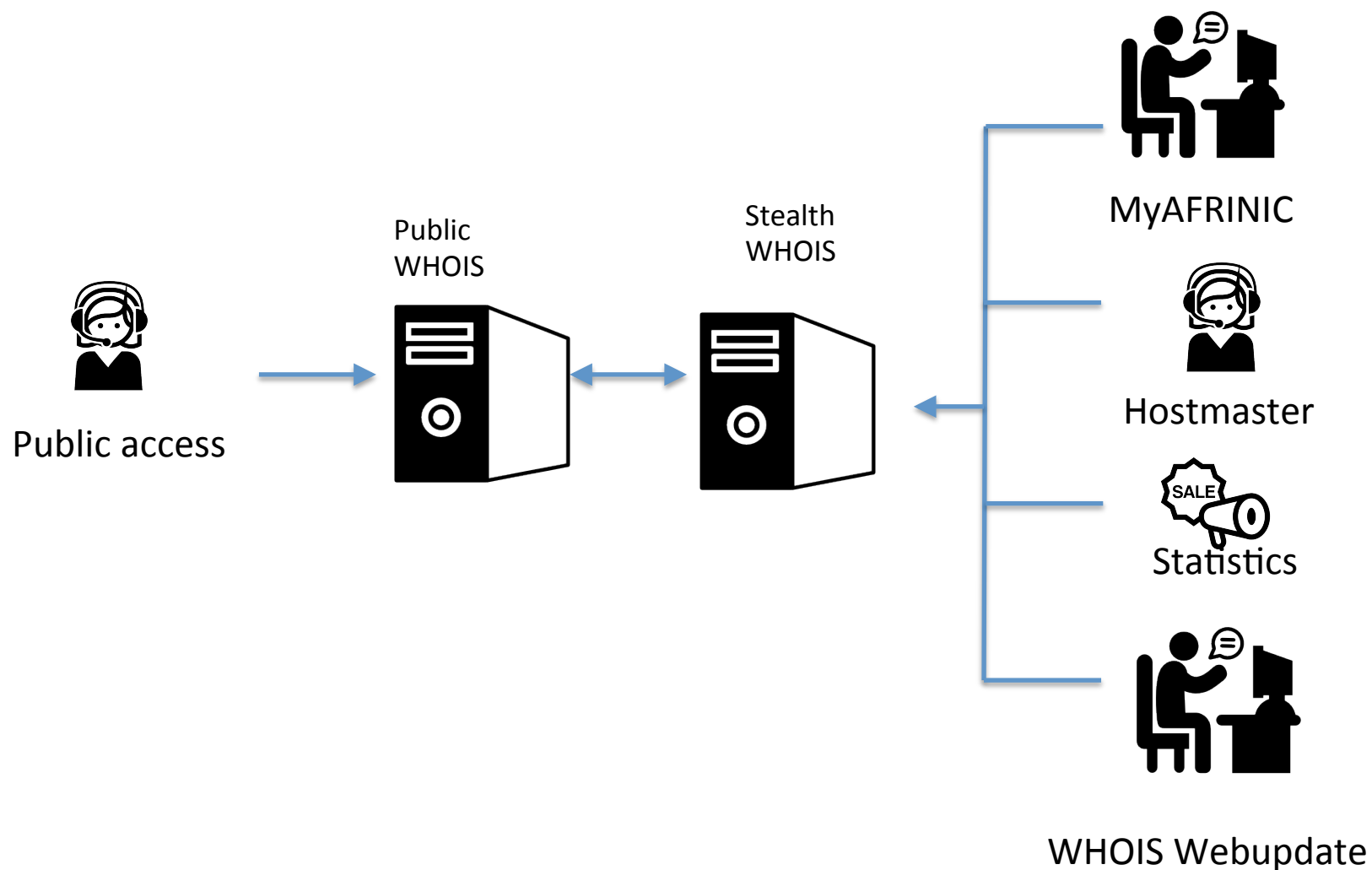
Core Services

- RPKI
- DNS support programme AfDSP / AfRSCP
- Routing Registry
- NMRP <https://apps.afrinic.net/nmrp/>
- Associate Member
- SDMS
- Training
 - 4 Labs now available
 - Learn 2.0



AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

Whois - Overview





AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

Whois - Challenges

- Difficult to maintain
- Lack of documentation
- Functional bugs creating inconsistency
- Not IPv6 compliant



AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

Whois 2.0 - Project

- Implementation of policies
 - Assigned Anycast
 - No reverse unless Assigned
- Waiver requested for implementation
- Fork of RIPE-NCC WHOIS code
- Full review of WHOIS functional documentation
- Adaptation to AFRINIC policies
- Implementation of AFRINIC Business rules



AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

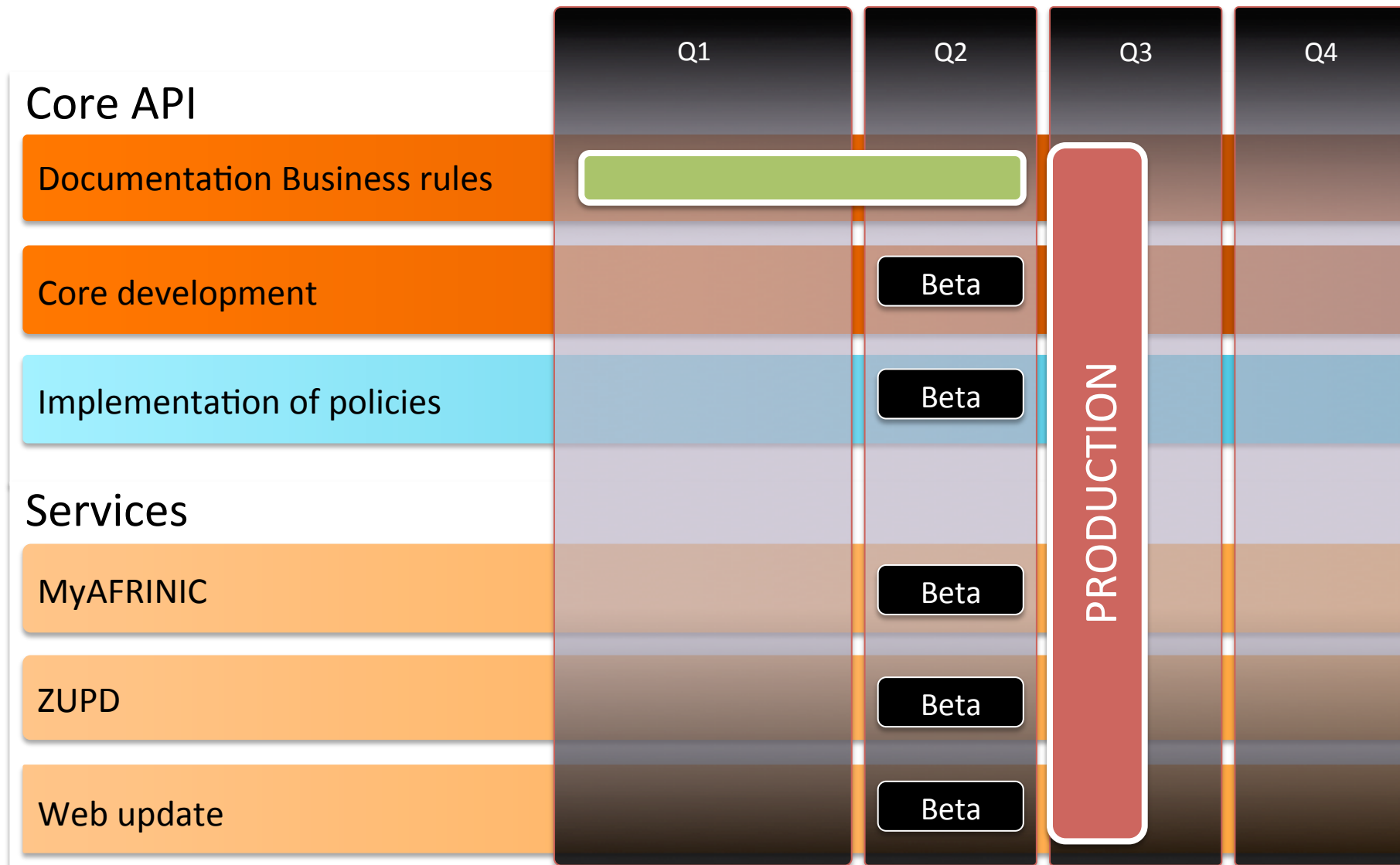
Whois 2.0 - comparison

WHOIS 1.0	WHOIS 2.0
C language	Java Language
Platform dependent libraries	Platform independent
Unit testing not used	Fully unit tested
No unit testing framework	Junit, Mockito
Update: Command line	Update: RESTFUL API
No IPv6	Fully IPv6
Build: Make	Build: Maven
No framework	Spring Framework
QUERY: port 43 only	43, 80, 443



AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

Whois 2.0 - timeline





AFRINIC-20
25 MAY - 6 JUNE 2014
Djibouti

Whois 2.0 – Deployment

- Currently in staging

<http://www.staging.mu.afrinic.net/en/services/whois-query>

- Community support requested
 - Comments / Questions by end June
 - whois-group@afarinic.net
- Production migration – end July

**Thank you for
your
Attention**

Questions?

neriah@afrinic.net



twitter.com/**AIS_2014**