Efficient address space management tools

APNIC 21

27 February 2006

Perth, Australia

Today's schedule

9 am - 10.30 am	**Internet development:** Technical infrastructure, education, policy & APNIC
11 am - 12.30 pm	Creating policies that work for you
2 pm - 3.30 pm	Efficient address space management tools
4 pm - 5.30 pm	Managing your "old" address space

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Presenters

- Sanjaya
  - Technical Services Manager
- Sall'ee Ryman
  - Training Officer

Maximise address space potential by ...

- Introducing you to the internet resource management system

- Understanding how to use the Whois database

- Understanding the functions of MyAPNIC

Overview

- IP address space management architecture
  - Public data
  - Private data
- Tools available
  - Whois/auto-dbm
  - MyAPNIC
- Whois case study demo
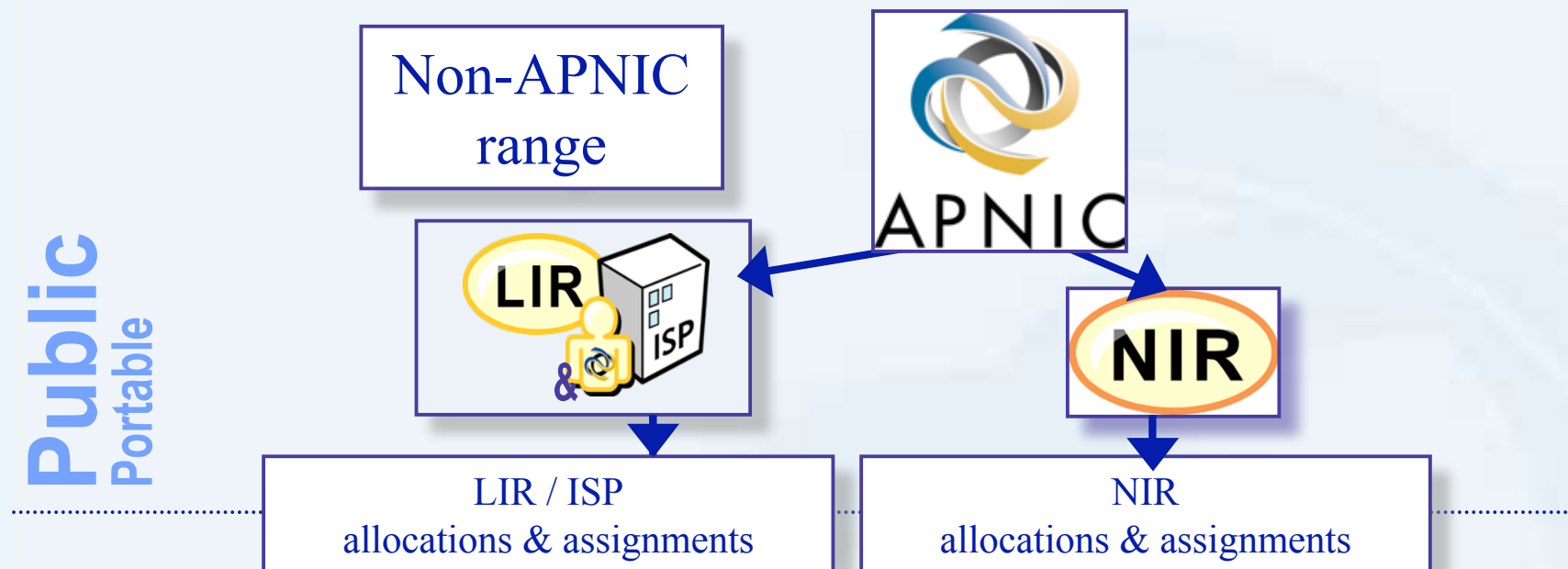- MyAPNIC case study demo

Your turn

- Who has used the Whois database?
- Who uses the GUI on the webpage?
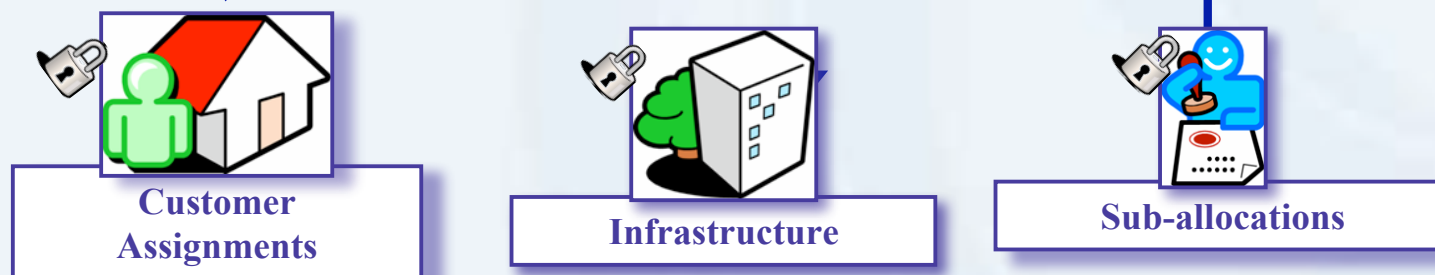- Who uses MyAPNIC?
- Are there any issues you want addressed?
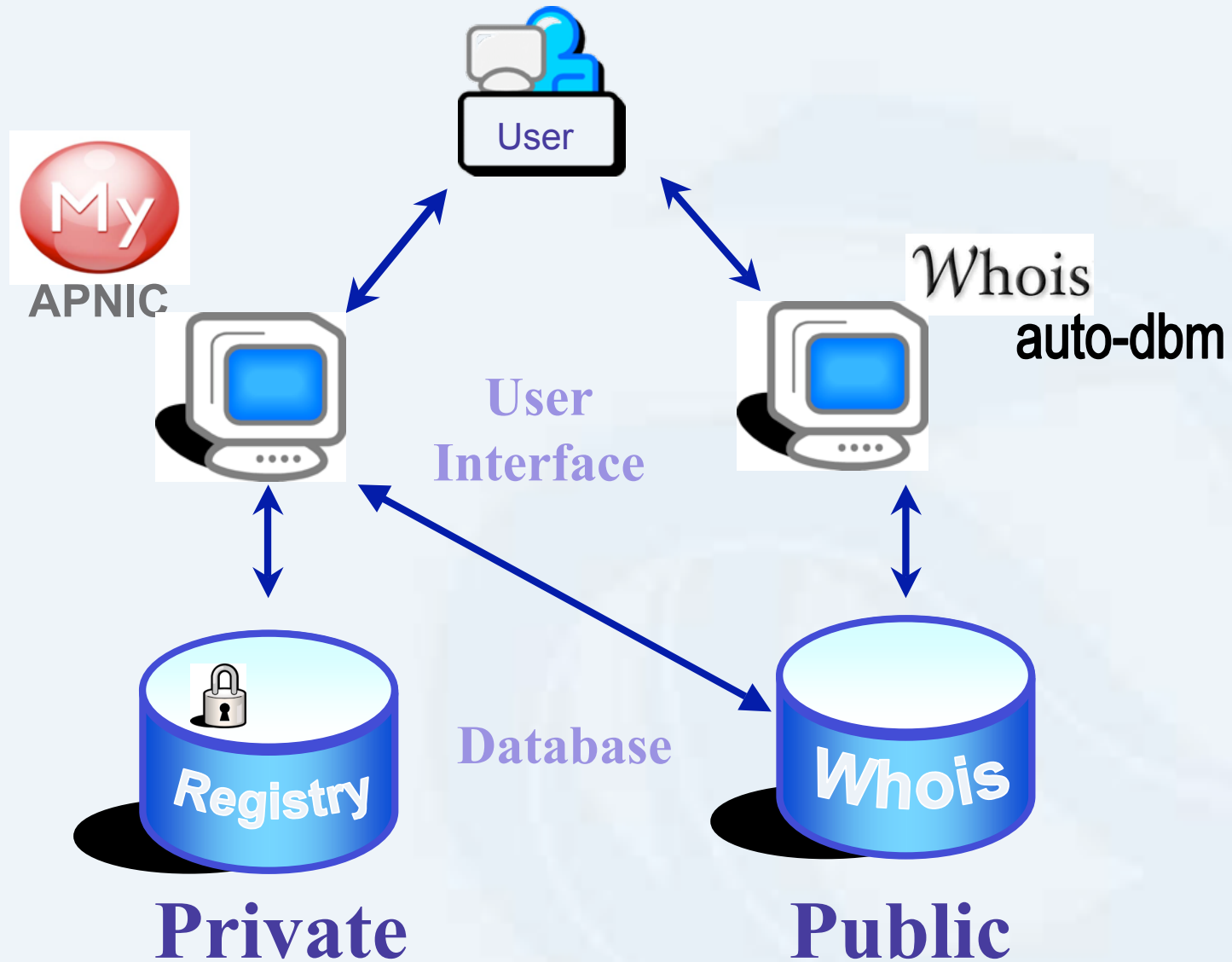
Address space management

Allocation and assignment

- ## Allocation
  - A block of address space not yet used to address any networks
  - Held by an IR (or downstream ISP)
  - Public

- ## Assignment
  - A block of address space used to address an operational network
  - May be used by
    - LIR customers
    - LIR infrastructure
  - Private by default

Database tools

User

APNIC
My

**User
Interface**

Whois
auto-dbm

Database

Registry

Whois

Private

Public

Some database objects

mntner
protection

status •
mntner •
address block •
contacts•

inetnum
ip address

person
contact person

• contact details
• NIC-handle
  - unique identifier

role
contact groups

aut-num
autonomous system number

Some database objects

mntner
protection

status •
mntner •
address block •
contacts•

inetnum
ip address

• protection scheme

person
contact person

role
contact groups

aut-num
autonomous system number

APNIC

Some database objects

mntner
protection

inetnum
ip address

person
contact person

role
contact groups

aut-num
autonomous system number

Update and search facility

User

Primary keys

Look up keys

User

Update

ase

$\mathcal{W}$hois

auto-dbm

Search

Whois

Public
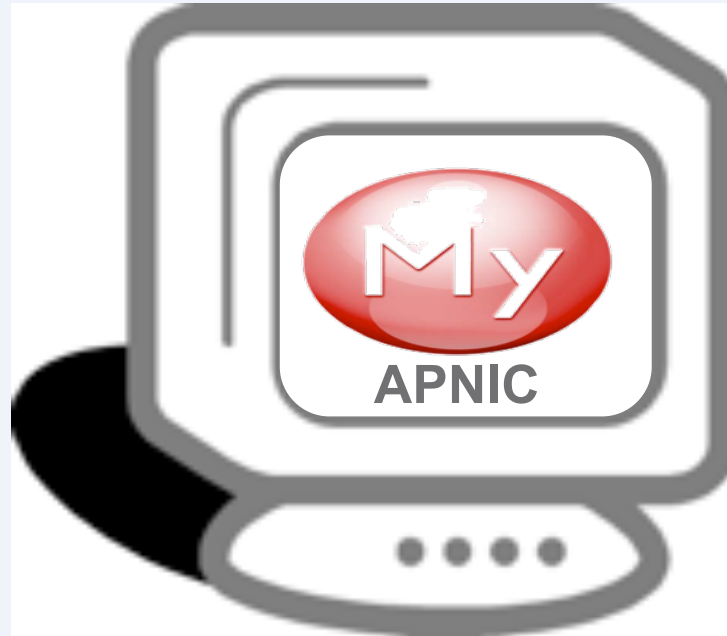
Case study demo
using the Whois tool

Parent block

202.155.16.0-202.155.31.255

Parent block
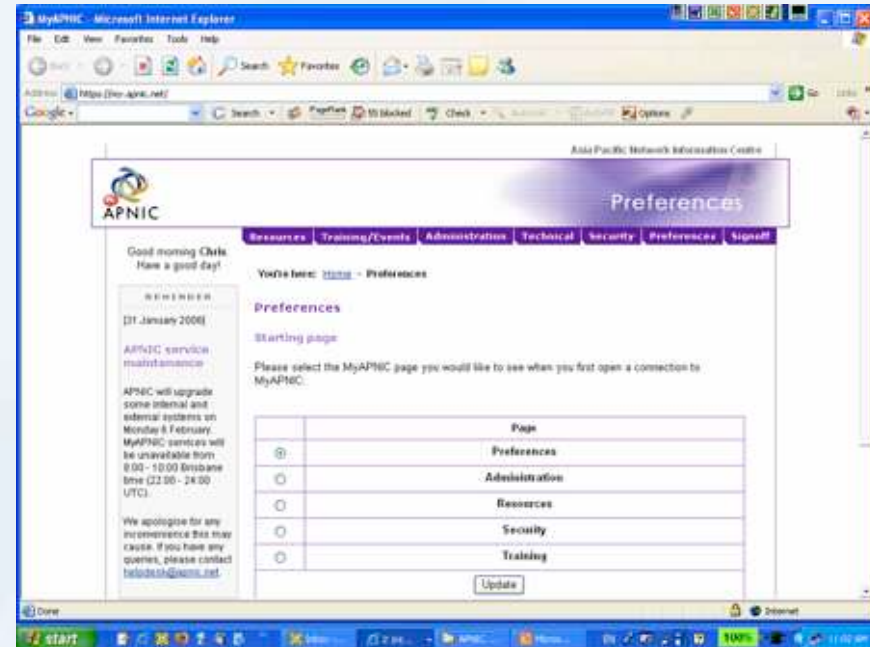
202.155.128.0-202.155.159.255

MyAPNIC

A day-to-day tool to manage your
APNIC account and resources

What is MyAPNIC

- A secure member service web interface, allowing each member to access account and resource information, and to invoke specific APNIC services

MyAPNIC advantage

- Designed for day-to-day management of resources
- Account self-management
- Easy to use
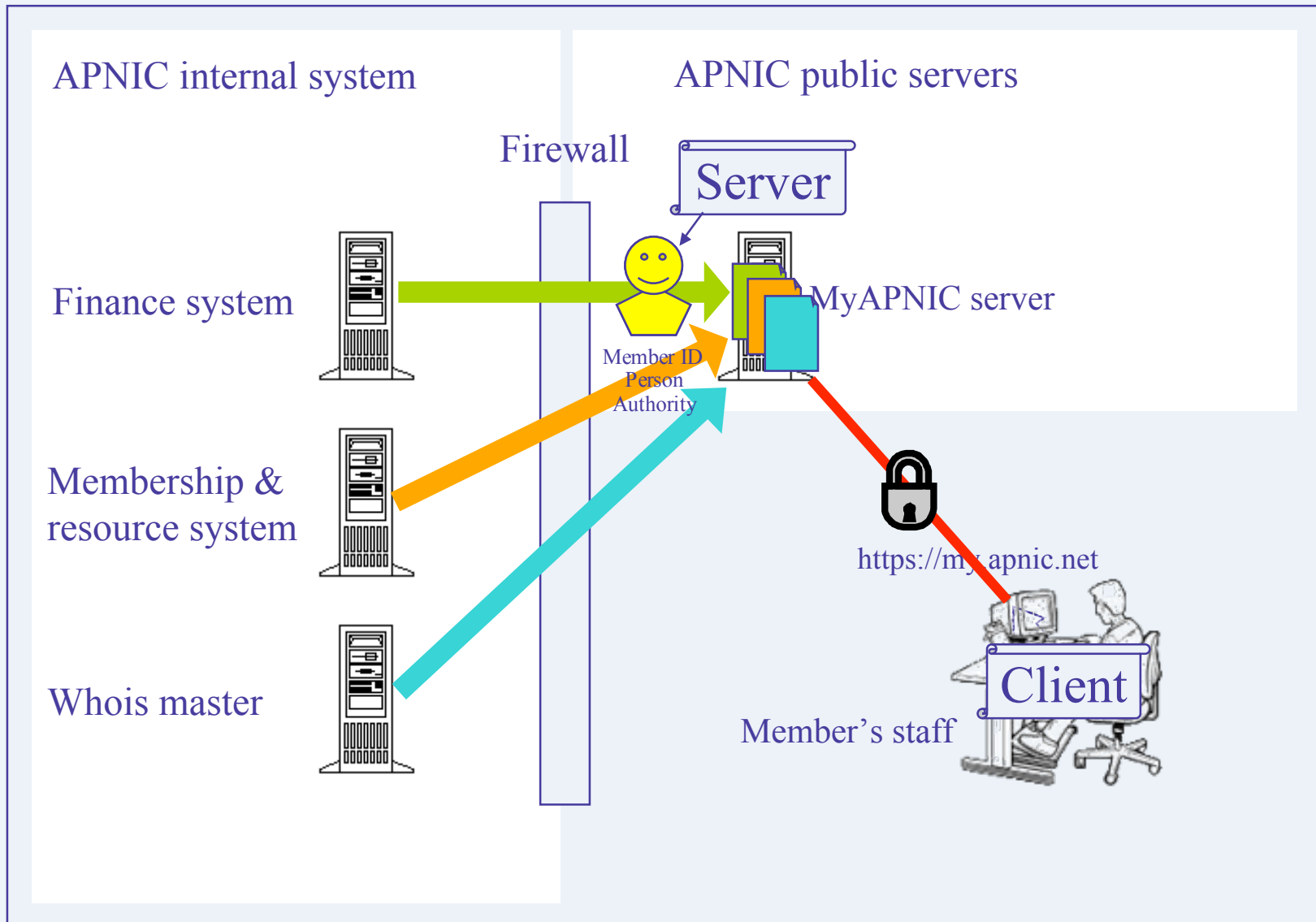- Reliable (compared to mail-based update)
- Very secure

MyAPNIC security

- SSL/TLS protection
  - Encrypted transmission data
- Server certificate authentication
- Client certificate authentication
  - APNIC operates as a CA
- Role-based authorisation
  - Functions available to corporate contacts only:
    - Update address
    - Update contact persons

How it works

APNIC internal system

APNIC public servers

Firewall

Server

Finance system

Member ID
Person
Authority

MyAPNIC server

Membership &
resource system

Whois master

https://my.apnic.net

Client

Member's staff

MyAPNIC menus

- **Resource information**
  - IPv4, IPv6, ASN
- **Administration**
  - Membership detail
  - Contact persons
  - Billing history
- **Training**
  - Training history
- **Technical**
  - Looking glass
- **Tools**

Case study demo
using the MyAPNIC tool

Getting access to MyAPNIC

- Apply online for a digital certificate

    1. https://www.apnic.net/ca

    2. Fax/email your photo ID

    3. Download the completed certificate (approx 2 business days after APNIC receives the photo ID)

- Go to https://my.apnic.net

Common issues

- Issues in getting a certificate
  - Forgetting to send the photo ID
  - Downloading the certificate to the wrong computer
- Accessing MyAPNIC
  - Using a computer without a digital certificate
  - Expired certificate
    - It's easy to renew! Just send a new request via https://www.apnic.net/ca (renewals do not require photo ID)

Summary

Maximising address space potential by…

- Knowing how to update and search the public database
- Knowing how to access the information in the public database using Whois
- Knowing how to access my private information using MyAPNIC

Thank you for listening

Questions?

Today's schedule - next session

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