

Taiwan SIP/ENUM trial status

TWNIC

2005/2/23

Content

- SIP/Enum trial project
- SIP/ENUM trial deployment status
- Registration system and equipments

Project Management

Project Management

Project Leader : Dr. S.S. Tseng
President, TWNIC
Co-leader : Dr. S.L. Chou
Director, CCL

Secretariat

**Project
Planning**

- CCL
- Secretariat

**E.164 & ENUM
Number
Management**

- TWNIC

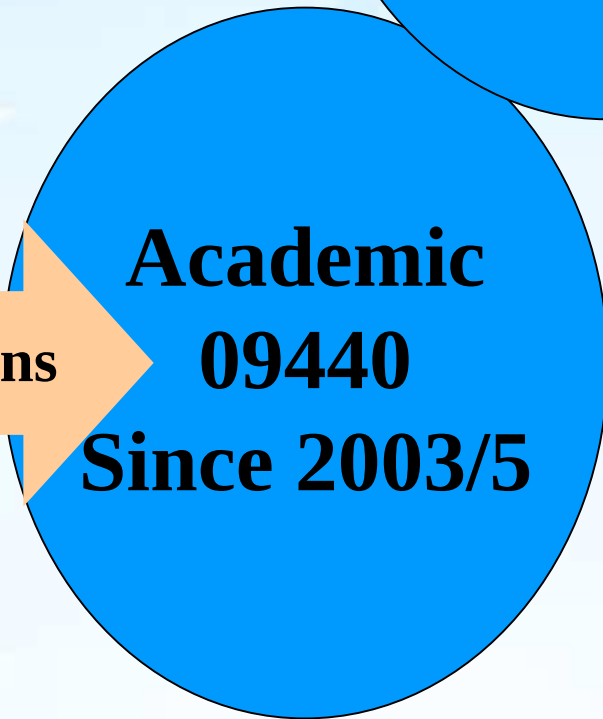
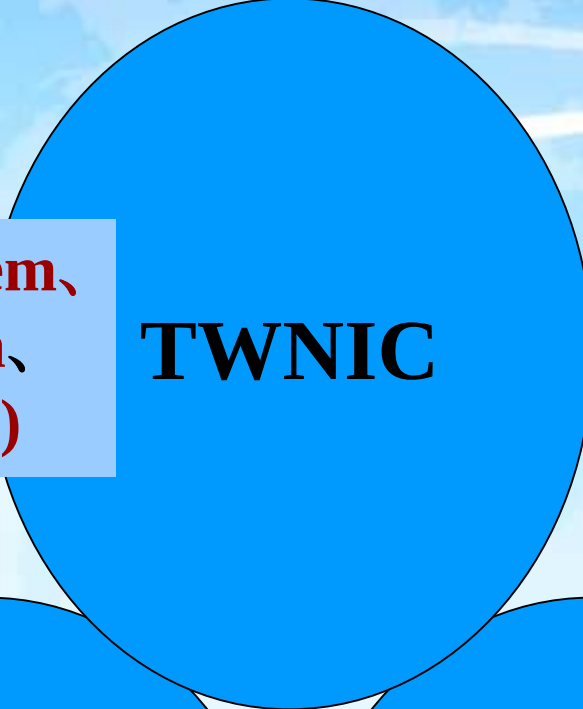
**Service
Provisioning**

- TANet(MOECC)

**Technical
Development
& Supporting**

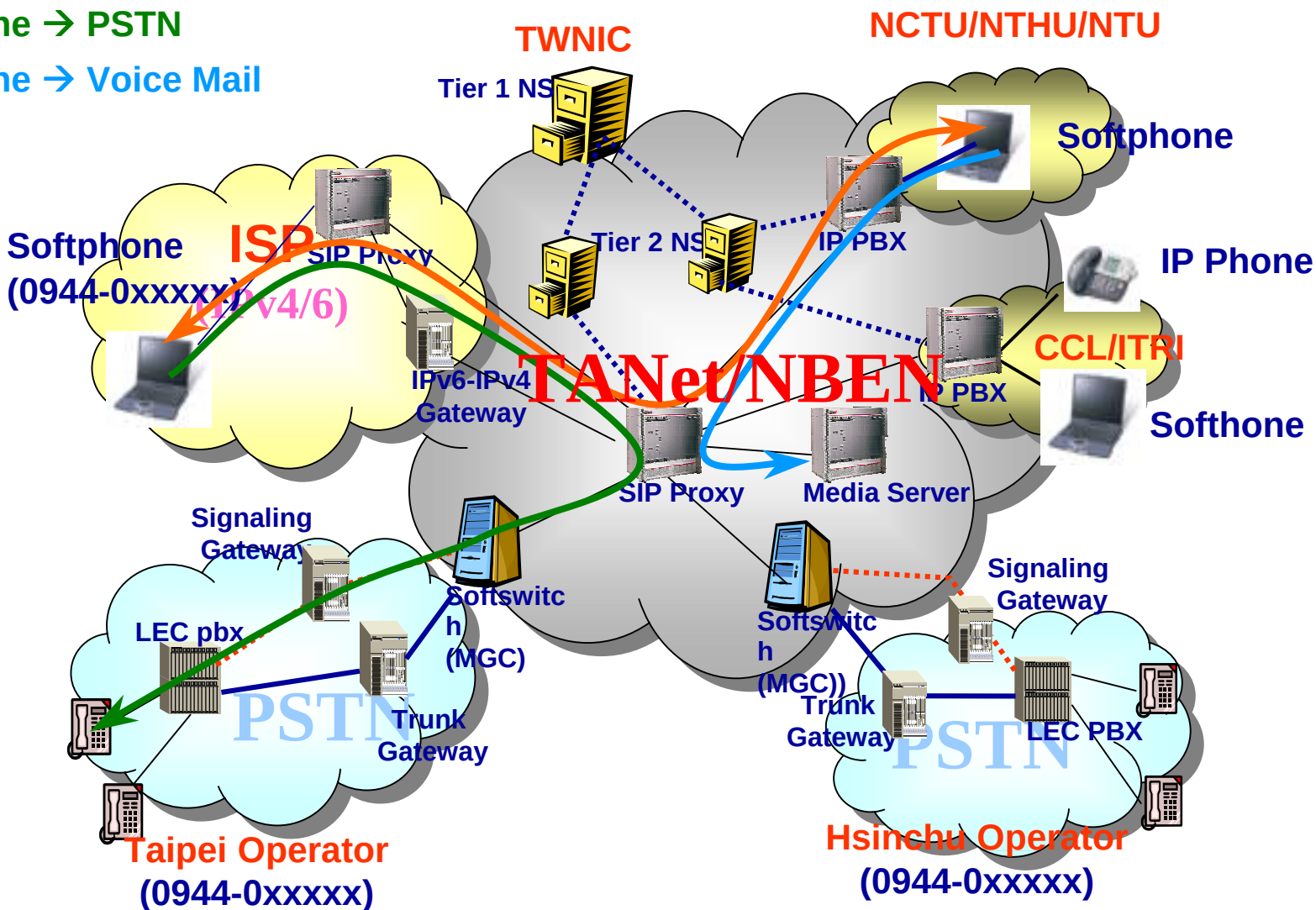
- CCL

**EPP、Registration system、
Whois、 DNS resolution、
Number manager(09440)**



Services in 2004 SIP/ENUM Trial

1. Softphone $\leftrightarrow$ Softphone
2. Softphone $\rightarrow$ PSTN
3. Softphone $\rightarrow$ Voice Mail



Taiwan SIP/ ENUM Trial Service Web Portal



■ Numbering

- Application
- Org. Info
- Admin. Guideline

■ Log-in

- Download PCA
- Maintain User Record
- Maintain NAPTR

■ Query

- ENUM Whois
- ENUM NAPTR
- Call Log

0944006000	0944006001	0944006002	0944006003	0944006004	0944006005	0944006006	0944006007	0944006008	0944006009
0944006010	0944006011	0944006012	0944006013	0944006014	0944006015	0944006016	0944006017	0944006018	0944006019
0944006020	0944006021	0944006022	0944006023	0944006024	0944006025	0944006026	0944006027	0944006028	0944006029
0944006030	0944006031	0944006032	0944006033	0944006034	0944006035	0944006036	0944006037	0944006038	0944006039
0944006040	0944006041	0944006042	0944006043	0944006044	0944006045	0944006046	0944006047	0944006048	0944006049
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0944006070	0944006071	0944006072	0944006073	0944006074	0944006075	0944006076	0944006077	0944006078	0944006079
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0944006090	0944006091	0944006092	0944006093	0944006094	0944006095	0944006096	0944006097	0944006098	0944006099
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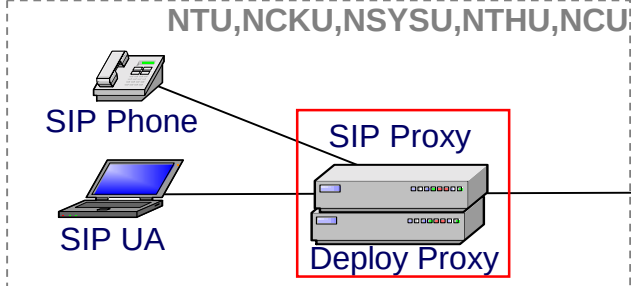
■ Enum Trial Documentation

■ Enum System Documentation

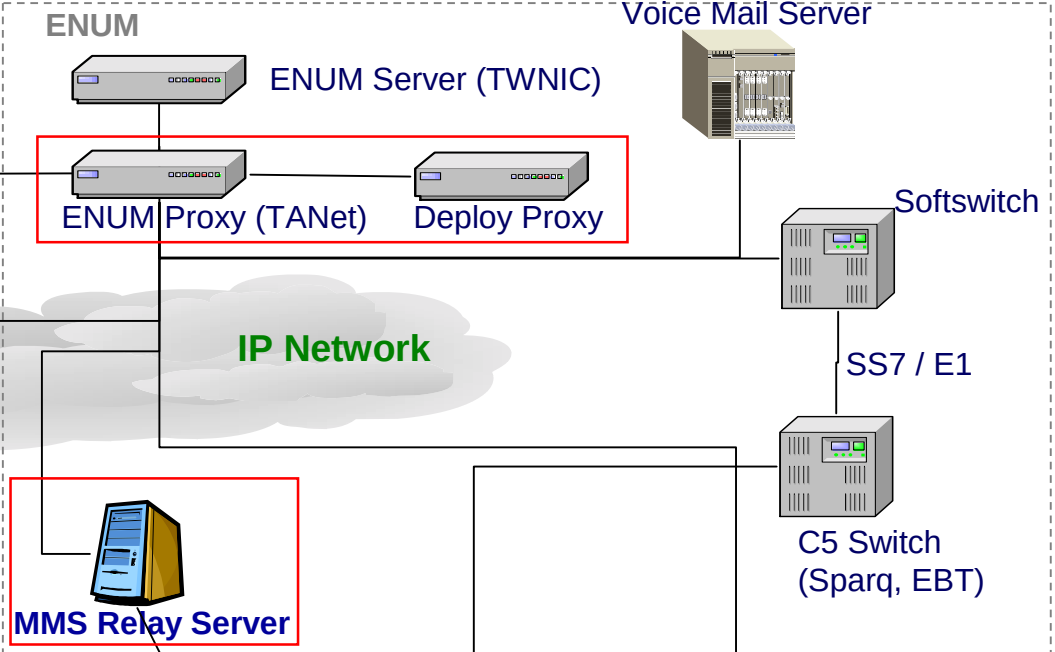
■ <http://service.enum.org.tw>

2004 SIP/ENUM Trial Architecture

Configuration B – Proxy Users(5)

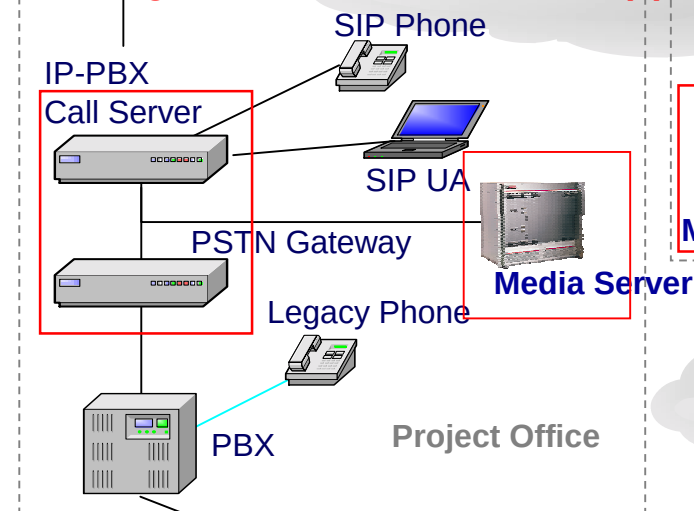


Core Service Platform



2004 Deployment

Configuration A – IP-PBX Users (1)



MMS Relay Server

GPRS Core Network

Configuration C – Standalone Users

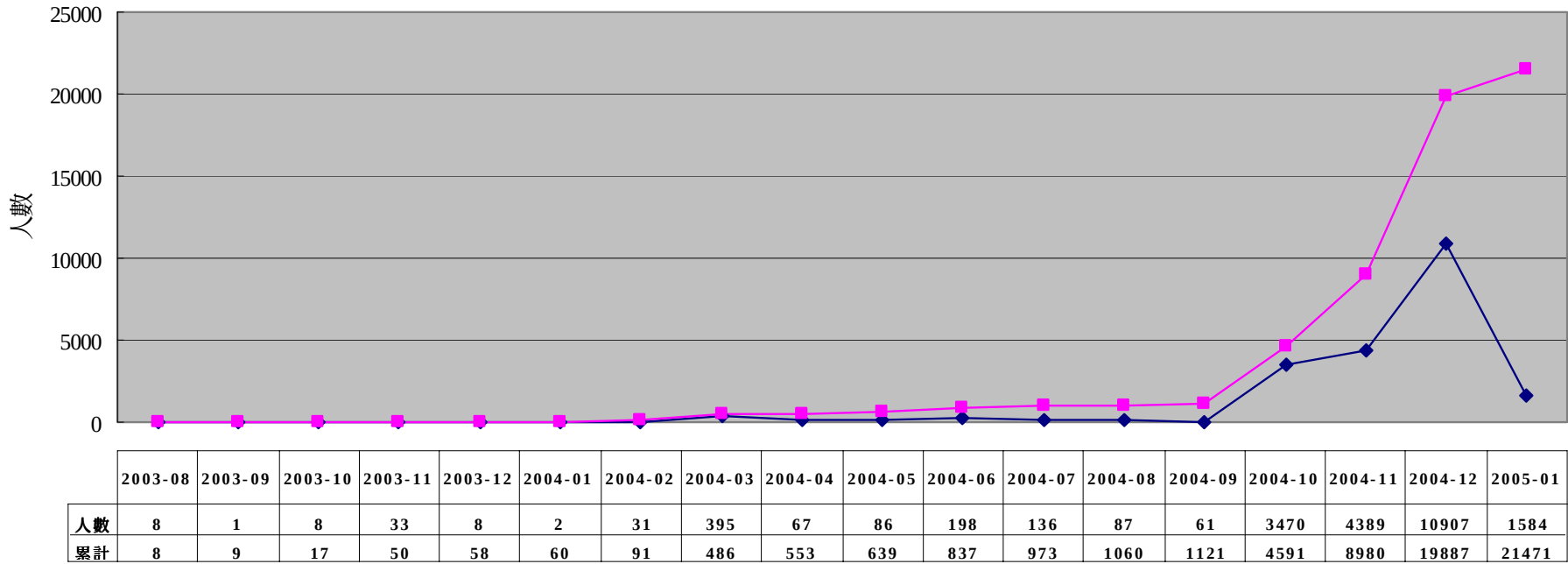


Public Switched Telephone Network

Taiwan SIP/ENUM Trial Deployment Status

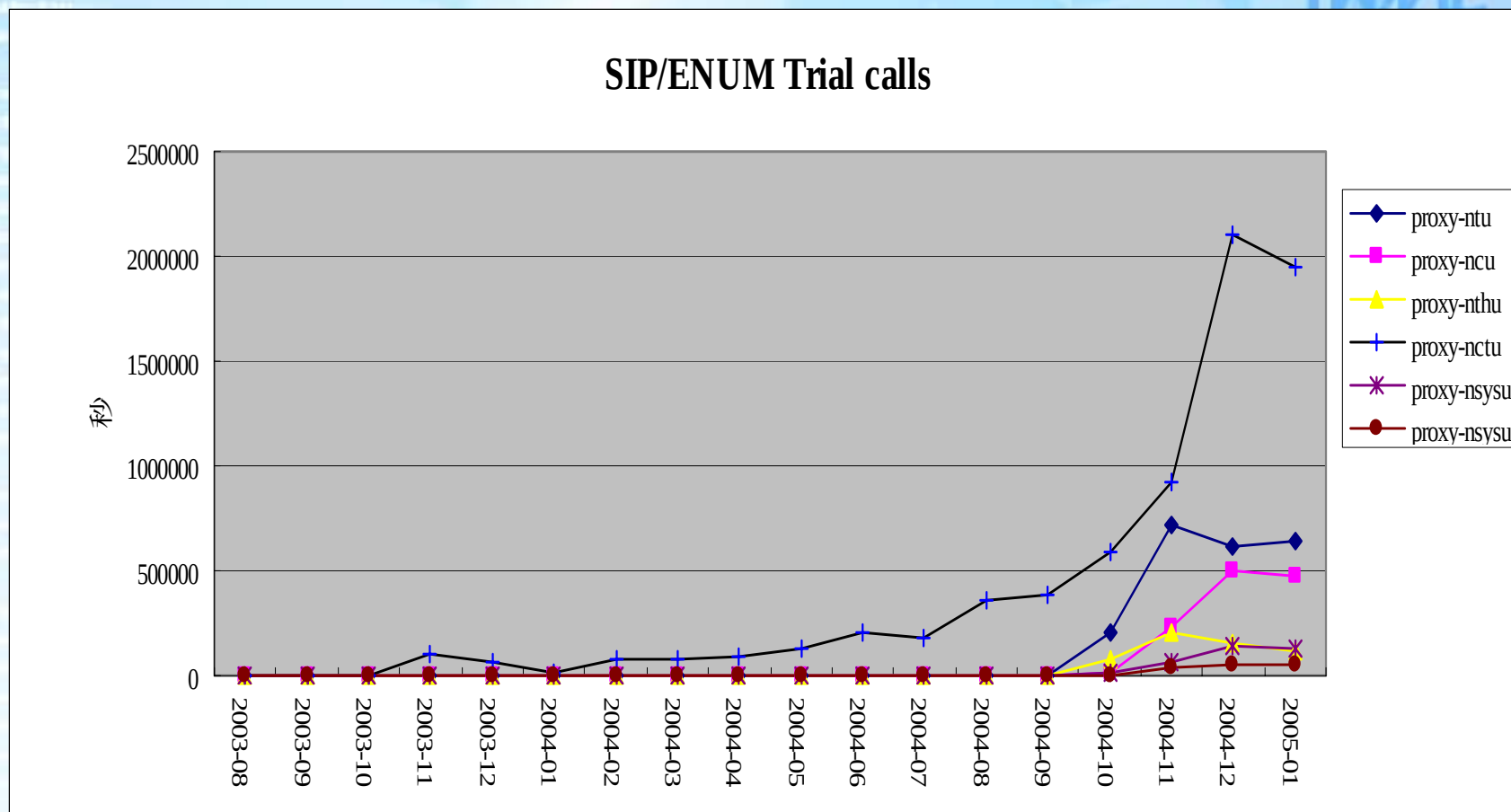
Distribution of New registrants

SIP/ENUM Trial users



- 2003/08 setup SIP platform(1 SIP proxy)
- 2003/12 setup registration system and ENUM DNS
- 2004/03 setup PSTN gateway
- 2004/10 allocate more numbers to school and setup new SIP proxys
- 2004/12 enable WiFi roaming

Sum of Total Calls by Month



Services

■ VoIP service

- IP->PSTN
- IP->IP
- PSTN->IP not available

■ Voice-Mail

- UMS forward Voice-Mail user's mail box

■ ENUM Service

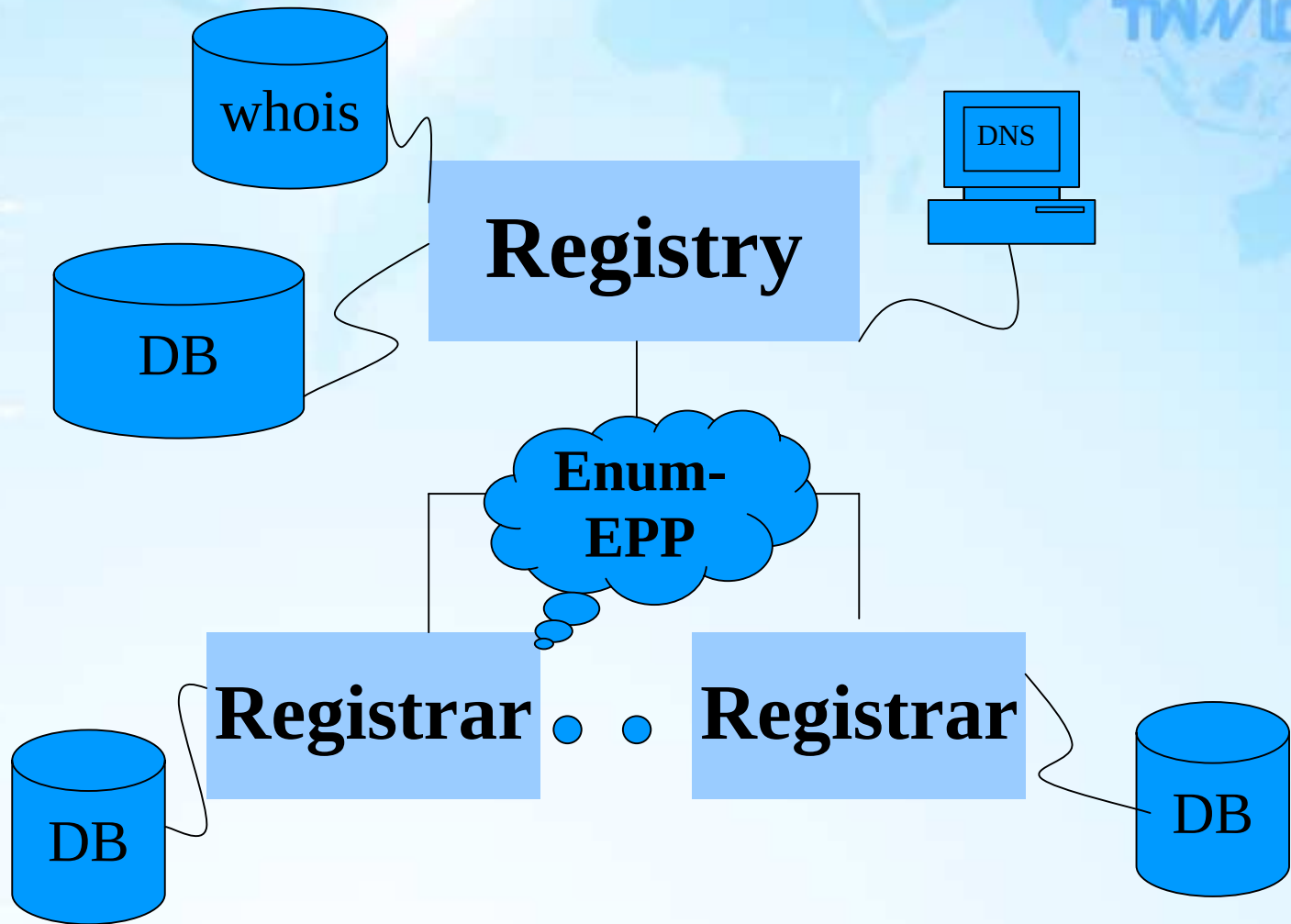
- Up to 8 records

■ WiFi roaming

- Enum number can free roaming at public WiFi hot zone

Registration system

Registry / Registrar Model

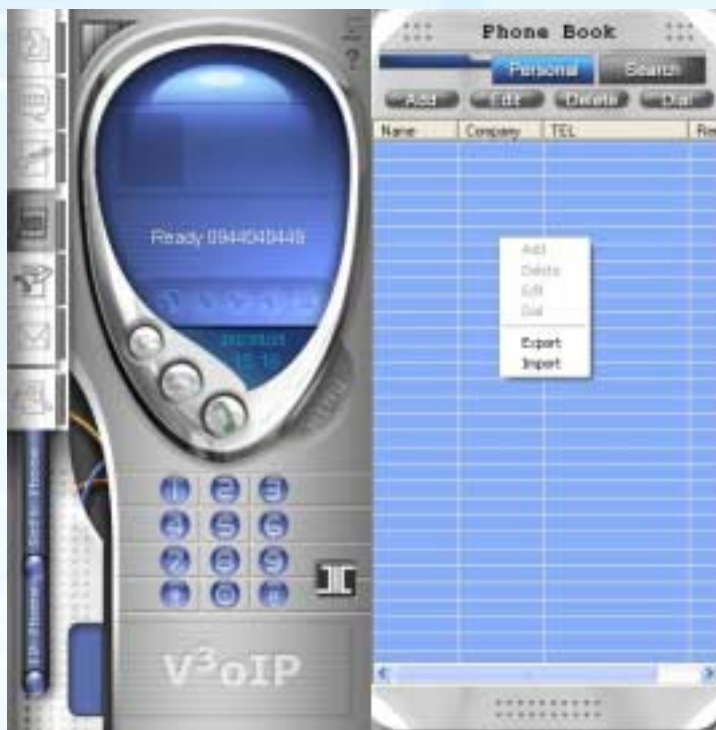


SIP proxy

- 6 SIP proxy servers in the trial
- Each proxy server can service more than 6000 register users and 1000 concurrent sessions
- Developed by CCL

SIP Client

- PCA softphone, developed by CCL
- Supported codec: G.711, G.723, G.729
- Next version will support private IP



SIP gateway

- 2 * Cisco 5300 switch with E1 interface
- 2 * Softswitch

Next Step

- Extend number range from 100K to 1M
- Add new PSTN gateway

Thank you