



.my DOMAIN REGISTRY

**Malaysian Communication and
Multimedia Commission**

Update on Malaysian ENUM (0.6.e164.arpa)

By

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Our Project Objective

MYENUM architecture & testbed

- Our Project Objective

myENUM

- To accelerate and facilitate the convergence of Public Switched Telephone Networks (PSTN) with Internet Protocol (IP) Networks by using **DNS for the storage of E.164 numbers and the related services connected to an E.164 number**

MYENUM Closed Testbed Objective

MYENUM architecture & testbed

- MYENUM Closed Testbed Objective
 - To create a platform for myENUM's participants to experiment, familiarize and elevate ENUM related knowledge and to inform about the roles of the various parties in myENUM closed test-bed
 - To analyze the capability of ENUM in promoting one number with multi-services concept
 - To experiment the usage of DNS as a storage for e164 number and its mapping activities

MYENUM architecture & testbed

- MYENUM Closed Testbed Objective
 - To anticipate potential ENUM deployment issues pertaining to myENUM architecture, myENUM registry system, VOIP system and others surrounding issues
 - To elicit feedback from participants and to provide an analysis report that can be used as a main reference and due consideration for the deployment of national ENUM public trial

MYENUM architecture & testbed

- MYENUM Closed Testbed Objective
 - Act as a starting point for ENUM's stakeholders and to see whether there is sufficient interest in ENUM public trial
 - As a basis for the projection of framework that should indicate how ENUM can be implemented in the Malaysia in a workable way which is acceptable to users and providers

Target Participants

MYENUM architecture & testbed

- Target Participants
 - Telecommunication service companies
 - IP telephone service providers
 - Internet service provider
 - Relevant government agencies
 - Professionals from universities/Academia

ENUM Services in MYENUM Closed Testbed

MYENUM architecture & testbed

- ENUM Services in MYENUM Closed Testbed

| Service | Service field | URI Scheme (EX) |
|-------------|--------------------|-------------------------------|
| SIP | E2U+sip | sip:info@sip.enum.my |
| InternetFAX | E2U+ifax | mailto:fax@fax.enum.my |
| Telephone | E2U+tel | tel:+60389435510;svc=voice |
| Mobile | E2U+tel:mobile:sms | mobile:+60123471777 |
| Email | E2U+email:mailto | mailto:enum@domainregistry.my |

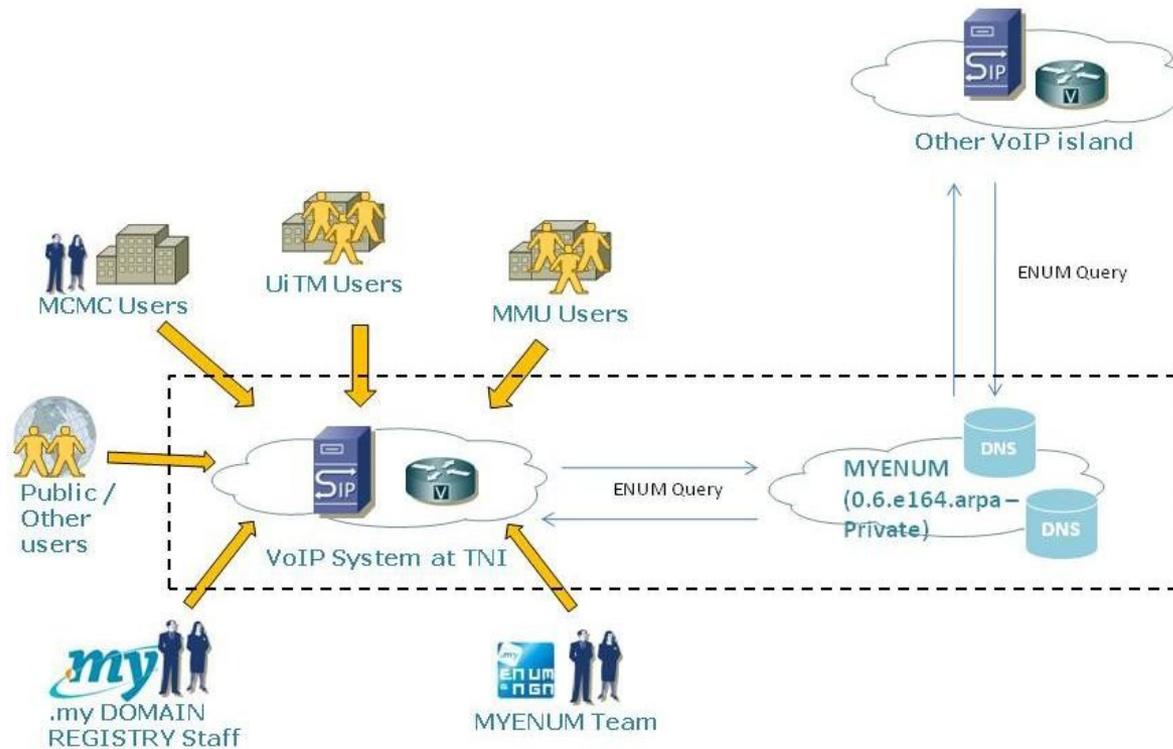
MYENUM architecture & testbed

- ENUM Services in MYENUM Closed Testbed
 - All the proposed services mentioned will be introduced phase by phase.
 - Phase 1: ENUM to VoIP and ENUM to EMAIL
 - Phase 2: ENUM to FIXED line, ENUM to MOBILE line and ENUM to FAX line

MYENUM Closed Testbed Architecture

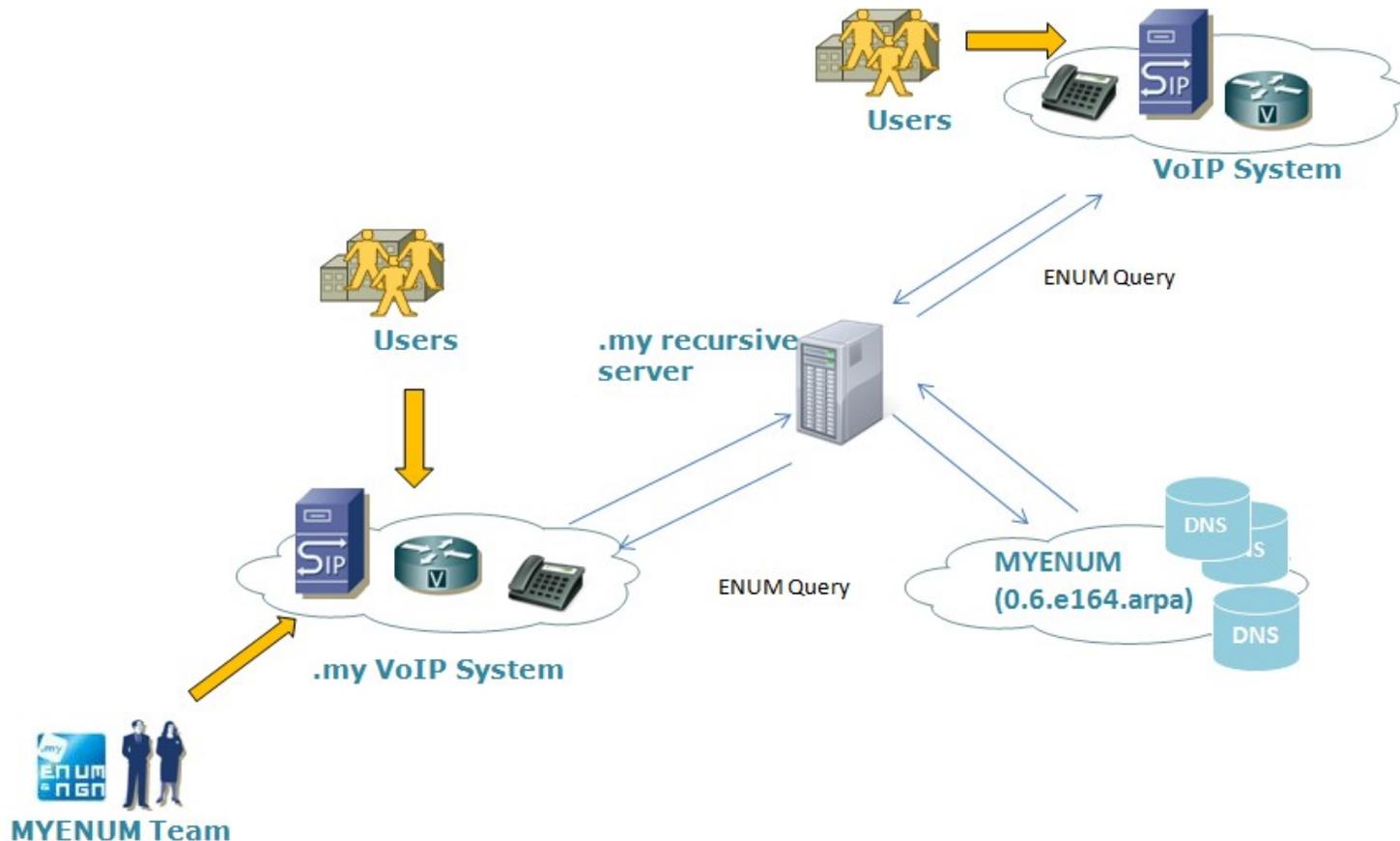
MYENUM architecture

- MYENUM Closed Testbed Architecture



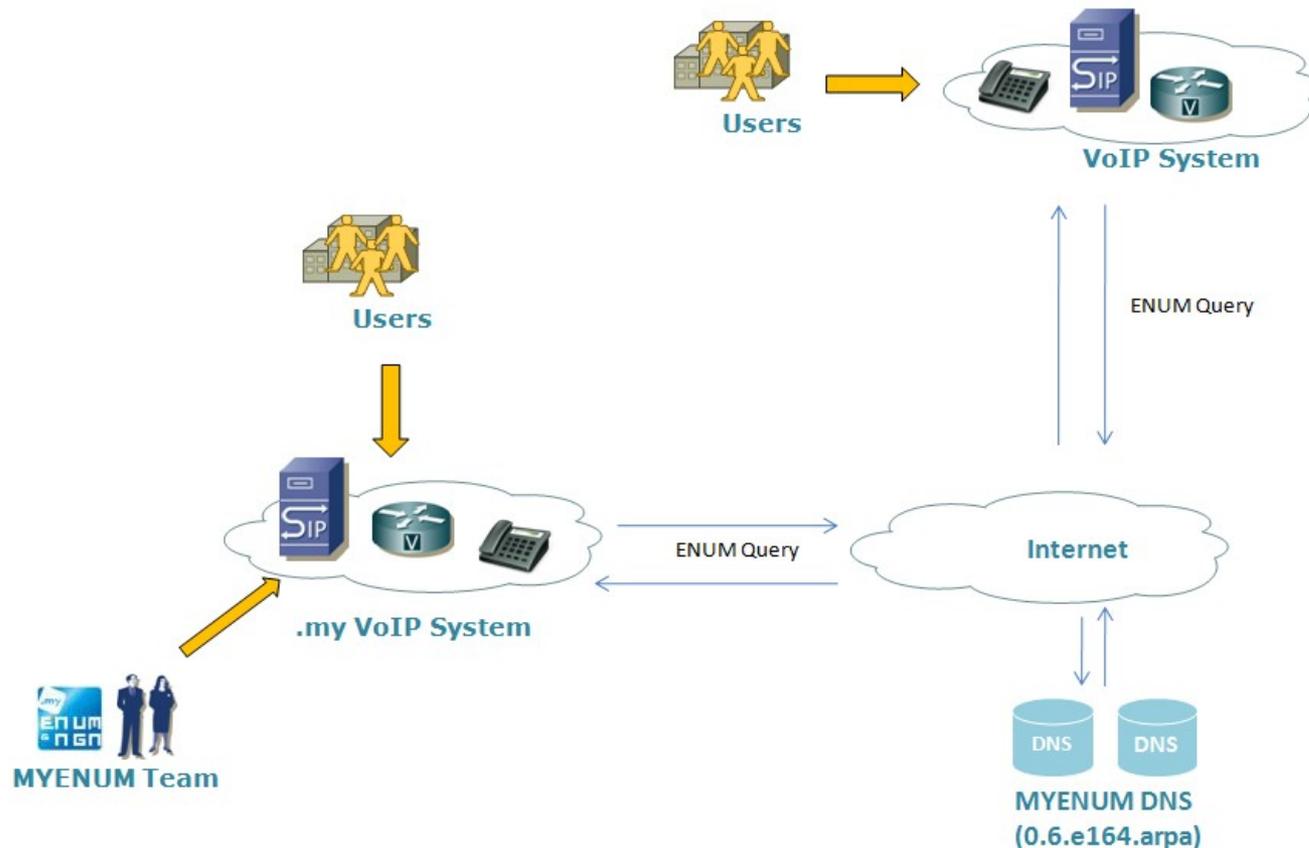
The Methodology

- Scenario 1: Peering with MYENUM Closed Testbed Phase 1(before ENUM delegation)



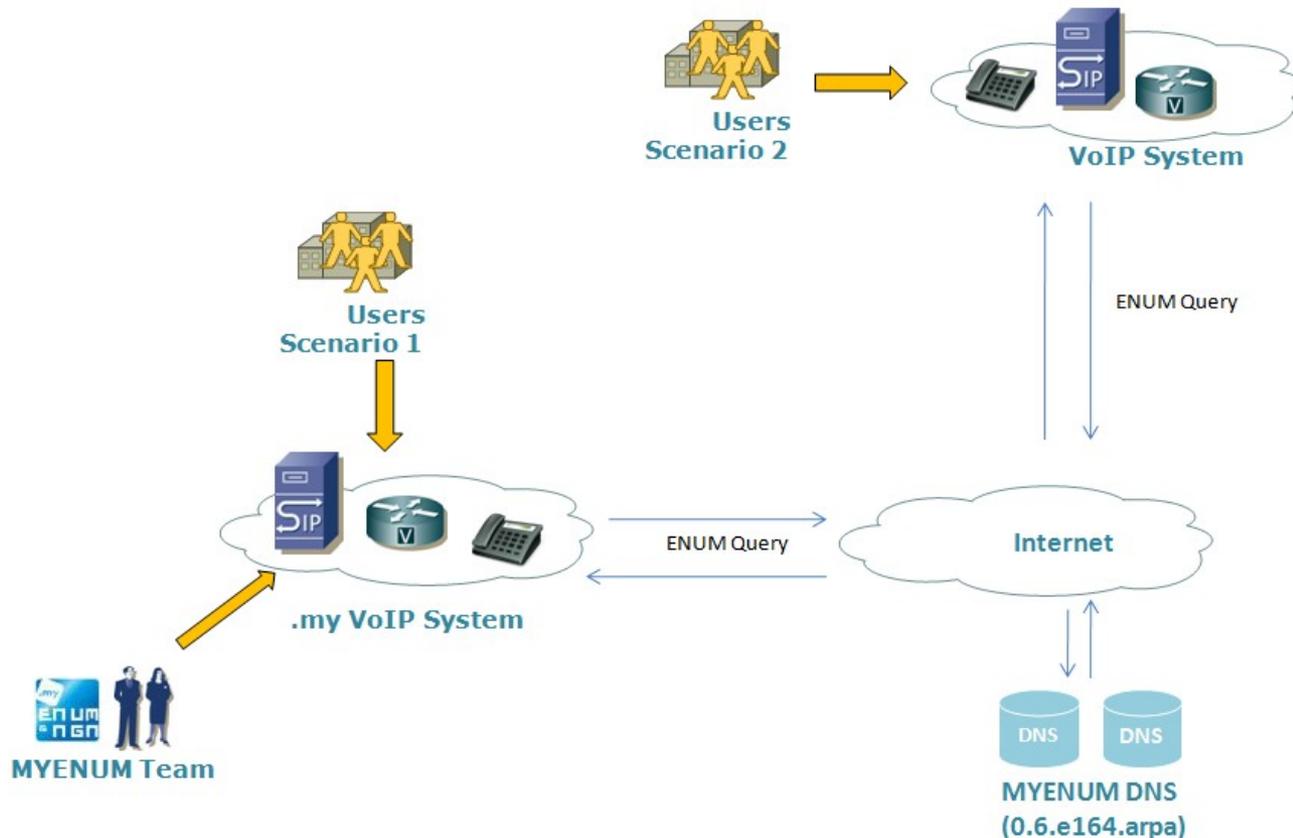
The Methodology

- Scenario 2: MYENUM Closed Testbed Phase 1 (after ENUM delegation)



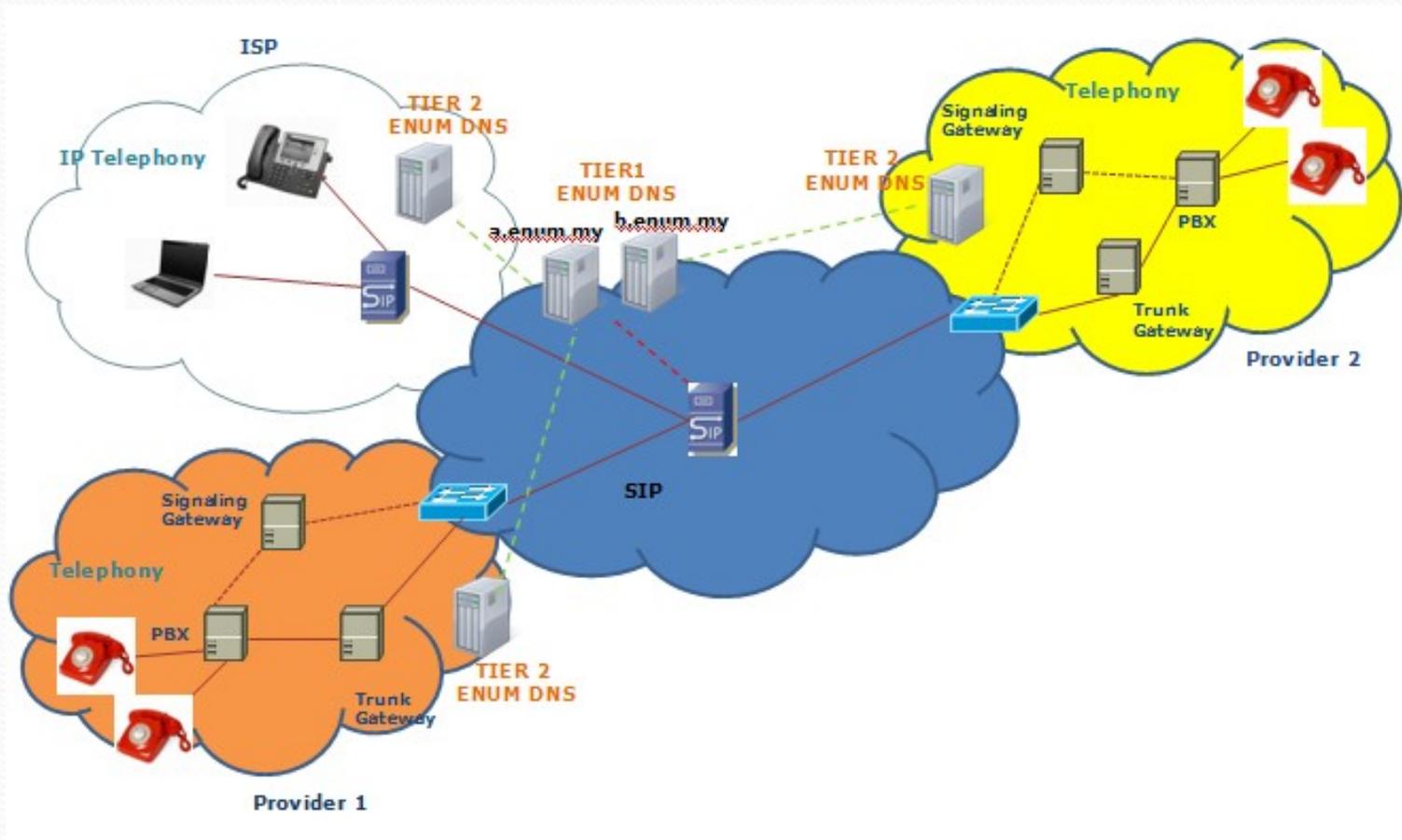
The Methodology

- Option 2: MYENUM Closed Testbed Registrar Phase 1 (after ENUM delegation)



The Methodology

- MYENUM Closed Testbed Phase 2



Updates from MYENUM Closed Testbed

Updates from MYENUM Closed Testbed

- MYENUM Closed Testbed (end for phase 1: 24 Feb 2010)
- Total Participants: 80

| Participants Category | Total Participants |
|--|--------------------|
| Telecommunication Service Companies | 16 |
| IP Telephone Service Providers | 0 |
| Internet Service Provider | 3 |
| Network Device Vendors | 2 |
| Network Solution Providers | 0 |
| Companies specializing in data sharing | 2 |
| Relevant Government Agencies | 25 |
| Professionals from universities/Academia | 19 |
| Public/End Users | 13 |

Updates from MYENUM Closed Testbed

- MYENUM Closed Testbed – Phase 1
 - 015 43x xxx number range (10,000 numbers in totals) by MCMC
 - Call to other people – can call other ENUM number (trial or production phase in other countries too)
 - Tools suggested:
 - Wifi Phone or Smartphone
 - SIP Client for PC or Phone
 - ENUM Delegation for Malaysia (0.6.e164.arpa) – Proceeded to RIPE NCC and ITU. Received the delegation from ITU.

Updates from MYENUM Closed Testbed

- MYENUM Closed Testbed
 - Regulatory issues:
 - Adequacy of current regulatory arrangements
 - Parties that responsible for the collection and keeping of Registrants information
 - Security of the registrants information database
 - Authority to access and the accuracy of Registrants database
 - Disclosure of Registrants information
 - Pricing schemes for ENUM services

Updates from MYENUM Closed Testbed

- MYENUM Closed Testbed
 - Recommendations:
 - We need a dedicated infrastructure
 - We need support from the related government agencies
 - Neutral bodies need to establish for ENUM implementation
 - ENUM countries should work together to support each others

Updates from MYENUM Closed Testbed

- MYENUM Closed Testbed
 - Services in Phase 1:
 - ENUM to VoIP
 - ENUM to EMAIL
 - Services in Phase 2 : July 2010 – September 2010
 - ENUM to VoIP
 - ENUM to EMAIL
 - ENUM to FIXED line
 - ENUM to MOBILE line
 - ENUM to FAX line

MYENUM Closed Testbed Website

MYENUM Closed Testbed Website

- MYENUM Closed Testbed Website
 - Go to www.enum.my...
- Phase 2 services – it is on the way now!!!