

EAI Deployment and Suggestion

**UASG 2017
Jiankang Yao
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EAI Promotion from CNNIC

优酷

BTV 北京卫视

综合

北京

香港

台湾

澳门

新加坡

马来西亚

澳大利亚

謝達安@互聯網註冊.香港

edmon@註冊.asia

edmon@註冊.mo

曾憲雄@台網中心.台

汉川@电邮.新加坡

aaron@注册.asia

联播快讯 本台记者 刘力

全球首封中文邮箱地址电子邮件发出

新闻联播
XINWEN LIANBO

Host APEC EAI 2014



APEC Projects:

- ✓ Deployment of Multi-Language Email Address Technology
- ✓ Research on Multi-Language Email Address Usage in E-Government



Asia-Pacific
Economic Cooperation

APEC workshop for the deployment of multi-language email address technology
Release of the world's first Chinese domain name email account registration platform

全球首个中文域名邮箱注册平台发布 暨APEC多语种邮件技术部署会议

APEC经济体代表联合签署呼吁书

指导：国家互联网信息办公室、工业和信息化部、中国科学院

主办：中国互联网信息中心

INITIATIVE 倡议书

Multi-lingual email address is one of the most important infrastructure and service of Internet. Prompted by the growth of I4.0 and accelerated with the economic globalization, all the countries of Multi-lingual Email address have been successfully used. Now it's time to deploy and apply the new technology.
The world's first Chinese domain name email account registration platform is a significant breakthrough. It will be used to promote the new Multi-lingual Email Address technology. APEC can give great support for the project for deployment of Multi-lingual Email Address, and ICANN has done a lot for it.
To achieve the goal, ICANN and its staff are willing to provide the necessary support!

多语种电子邮件地址是互联网最重要的基础设施和服务之一。随着工业4.0的兴起和加速，所有国家的多语种电子邮件地址都已被成功使用。现在正是部署和应用新技术的时候。
全球首个中文域名邮箱注册平台是一个重大的突破。它将用于推广新的多语种电子邮件地址技术。APEC可以为该项目的部署提供大力支持，ICANN也为此做了很多工作。
为了实现目标，ICANN及其工作人员愿意提供必要的支持！

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全球首个中文域名邮箱注册平台是一个重大的突破。它将用于推广新的多语种电子邮件地址技术。APEC可以为该项目的部署提供大力支持，ICANN也为此做了很多工作。
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Asia-Pacific
Economic Cooperation

CNNIC Provides Free EAI account Tasting with Coremail



The image shows a login interface for Coremail EAI accounts. On the left, there is a login form with the following elements:

- Language: 简体中文
- Username field: 乌镇@互联网.中国
- Password field: masked with dots
- Remember username: 记住用户名
- SSL secure login: SSL安全登录
- Login button: 登录

On the right, there is a promotional banner with the following text:

第一家支持 中文邮箱地址
全球邮件技术发展新高度

At the bottom right of the banner, there are two buttons:

- 购买咨询: 400-000-1631
- 试用 >



发件人: [Svancarek Mark](#) > 隐藏

收件人: UA-discuss@icann.org >

抄送: مارك@رسيل.السعودية >

微软测试@互联网.中国 >

[UA-discuss] EAI Addresses for Testing

今天 23:30

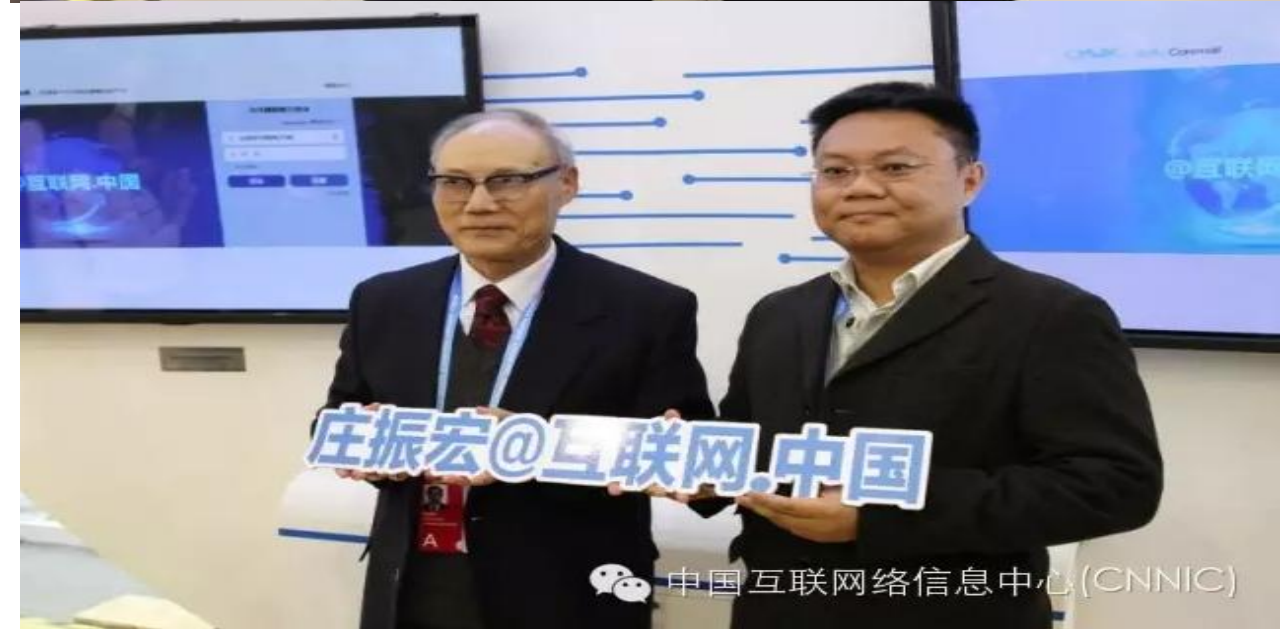
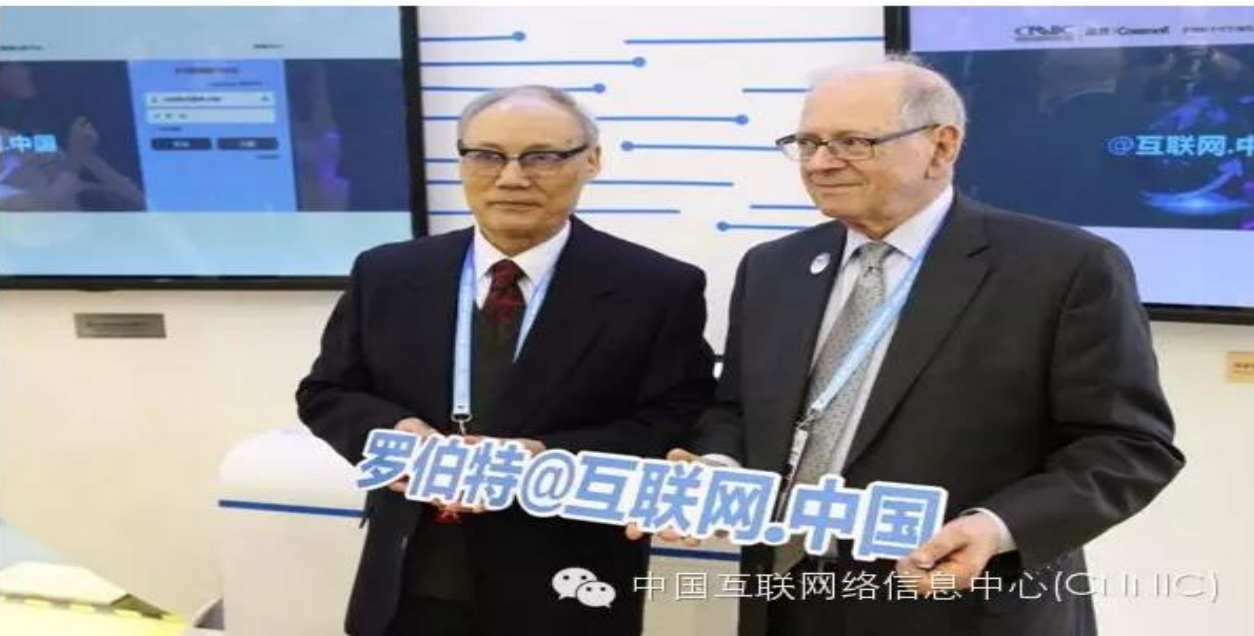
Here are two addresses for testing. Please send some messages to these addresses, then share back the results.

مارك@رسيل.السعودية

微软测试@互联网.中国



EAI Accounts as a Gift from Professor Qian



An EAI Email Sent by Robert E. Kahn

The screenshot shows a web-based email client interface. At the top, there are several tabs: 'Welcome', 'Inbox', '钱教师这个能...', '钱老, 您好!', and 'Congrats'. The 'Congrats' tab is currently selected. Below the tabs, there are two buttons: 'Check' and 'New'. On the left side, there is a sidebar with a folder list: 'Inbox(2)', 'Draft', 'Sent', 'My Folders', 'Contacts', 'Mail Center', and 'File Center'. The main content area displays an email with the following details:

Congrats [Flags] [Print] [Share]

From: 罗伯特 <罗伯特@互联网.中国>
Time: 12:57:53 Dec 17, 2015 (Thursday)
To: 钱华林@互联网.中国

I'm happy to participate in this historic event .
Congratulations on this achievement.
Bob Kahn

Representative of the National People's Congress Called for EAI support



Seminar in Peking University



IGF EAI meeting



ABOUT IGF 2016

VENUE

ACCOMMODATION & BEYOND

CONTACT

EN

ES

The Internet Governance Forum

- Enabling Every User with a Unique Internet Culture ID

December
6th - 9th
2016 (TBC)

Cultural Institute Cabañas,
Guadalajara, Jalisco, Mexico.

[Join as volunteer!](#)





we've actually made great progress becoming compatible, Pensri's presentation, which unfortunately you weren't able to see about an actual system that they've built, a hybrid solution for government use, but apparently, yeah, it didn't come through, and it didn't enable the conversation that you were hoping for, and I apologize.

>> AUDIENCE MEMBER: Din din our nature is to help the employment and



igf 2016
INTERNET GOVERNANCE FORUM





Suzhou EAI meeting





Open Source MTA

[<-previous](#)

[Chapter 59 – Internationalisation](#)

[next->](#)

Exim has support for Internationalised mail names. To include this it must be built with `SUPPORT_I18N` and the `libidn` library. Standards supported are RFCs 2060, 5890, 6530 and 6533.

1. MTA operations

The main configuration option `smtputf8_advertise_hosts` specifies a host list. If this matches the sending host and `accept_8bitmime` is true (the default) then the ESMTP option `SMTPUTF8` will be advertised.

If the sender specifies the `SMTPUTF8` option on a `MAIL` command international handling for the message is enabled and the expansion variable `$message_smtputf8` will have value `TRUE`.

The option `allow_utf8_domains` is set to true for this message. All DNS lookups are converted to a-label form whatever the setting of `allow_utf8_domains` when Exim is built with `SUPPORT_I18N`.

Both localparts and domain are maintained as the original UTF-8 form internally; any comparison or regular-expression use will require appropriate care. Filenames created, eg. by the `appendfile` transport, will have UTF-8 names.

HELO names sent by the `smtp` transport will have any UTF-8 components expanded to a-label form, and any certificate name checks will be done using the a-label form of the name.

Log lines and `Received-by:` header lines will acquire a "utf8" prefix on the protocol element, eg. `utf8smtp`.

The following expansion operator can be used:

```
${utf8 domain to alabel:str}
```





POSTFIX



Email Service Provider

Xgenplus beats Gmail, Office 365 and others to bring unicode support in email, to India

3 weeks ago Mudit Mohilay

The screenshot shows a web browser window with the URL 'मेल.अशोका.भारत'. The page features the XGEN PLUS logo with the tagline 'Most Advanced Enterprise E-mail'. Below the logo, the text reads 'एक कदम विकास की ओर' (One step towards development) and 'भारत' (India). There are logos for 'Digital India' and 'भारत' (India). A paragraph of text in Hindi discusses the government's digital India initiative and the need for unicode support in email. A login form is visible on the right side of the page, with fields for 'उपयोगकर्ता नाम:' (Username) containing 'अ@अशोका.भारत', 'पासवर्ड:' (Password) with masked characters, and a 'लोगिन' (Login) button. There is also a checkbox for 'याद रखना' (Remember me) and a language dropdown menu set to 'हिंदी'. The footer of the page says 'Powered by: www.xgen.in'.

मेल.अशोका.भारत

← → ↻ मे.ल.अशोका.भारत

XGEN PLUS
Most Advanced Enterprise E-mail

एक कदम विकास की ओर

भारत

भारत सरकार का डिजिटल इंडिया के तहत यह प्रयास है की तकनीकी विकास हो और हम तकनीक के द्वारा ज्यादा से ज्यादा लोगो को इससे जोड़े... और ज्यादा से ज्यादा भारतीयों को यदि हमें तकनीक से जोड़ना है तो भाषा को महत्वपूर्ण योगदान है इसलिए हम भारत में .भारत डोमेन पर ईमेल लाए है

उपयोगकर्ता नाम: प्राप्त ओटीपी
अ@अशोका.भारत

पासवर्ड: पासवर्ड भूल गए?
|.....

याद रखना **लोगिन**

हिंदी

Powered by: www.xgen.in

Good news

Yandex.Mail provides receipt and delivery for Cyrillic, Turkish alphabets and now for any other languages 😊

✓ вопросы@моypочта.рф

✓ კითხვები@ჩემოთიოთქმის.გე



Yandex

Yandex.Mail overview

- Over 300 M users
- 25 M MAU desktop users*
- 4 M MAU mobile users*
- ~ 200 M incoming emails daily

CNNIC Provides the 1st EAI platform with Coremail

CNNIC 中国互联网络信息中心
中国互联网络信息中心
China Internet Network Information Center

盈世 Coremail 全球首个中文域名邮箱注册平台

帮助中心

中文邮箱帐号登录

Language: 简体中文 ▾

👤 李晓东@互联网.中国 ✕

🔒 ✕

记住密码

登录 **注册**

[忘记密码](#)

Free EAI Account Application For All

网络邮局

用户名

@邮局.网络

密码

验证码



登录

注册

[忘记密码](#)

The screenshot shows a web browser window with the URL <https://mail.thnic.co.th/mail/#!/mail/nang@wilaiwan.in.th/INBOX/8>. The interface includes a 'Crossflow' logo and a search bar. The email list on the left shows a selected message from 'ยอด@สยามเมล.ไทย' with the subject 'Fwd: THNIC Nameservers updated [159444]'. The main content area displays the email headers in Thai:

Fwd: THNIC Nameservers updated [1

จาก: ยอด@สยามเมล.ไทย
ส่งเมื่อ: 16 มิถุนายน 2016 22:48 น.
ถึง: นาง@วิไลวัลย์.ไทย

Below the headers, it says 'Begin forwarded message:' followed by the original email's metadata:

From: staff@thnic.co.th
Subject: THNIC Nameservers updated [159444]
Date: วันอังคารที่ 14 มิถุนายน 2016 เวลา 15 นาฬิกา 0 นาที +07:00
To: ยอด@สยามเมล.ไทย
CC: registrar@thnic.co.th

A red circle highlights the Thai header information, with red lines pointing to the 'จาก:' and 'ถึง:' fields.

thMail service supports .ไทย EAI

Member Login supports .ไทย EAI

The image shows a screenshot of the THNIC member login and account details page. The login form on the left has the email 'นาง@วิไลวัลย์.ไทย' and a password field. The account details on the right show the following information:

ข้อมูลผู้ดูแลโดเมนเนม		Edit Account
ชื่อบัญชีผู้ใช้ (Username)	นาง@วิไลวัลย์.ไทย	
Password	*****	Change Password
ข้อมูลผู้ติดต่อ	วิไลวัลย์ พนารินทร์	
หน่วยงาน/บริษัท	ทีเอชเน็ต	
ที่อยู่	111 อวท. ห้อง พี 206 อ.คลองหนึ่ง จ.ปทุมธานี TH 12120	
โทรศัพท์	+66817735497	
อีเมล	นาง@วิไลวัลย์.ไทย	
วันที่สมัครสมาชิก	2016-06-16 17:20:37	

Additional information at the bottom of the account details page:

- ❗ ยังไม่ระบุข้อมูล ในการออกใบเสร็จรับเงิน/ใบกำกับภาษี
- 📌 ข้อมูลผู้ติดต่อของบัญชีผู้ดูแลโดเมนเนมนี้

Email Client

International email addresses

Applies To: Outlook 2016

Starting with Outlook 2016, email addresses no longer have to be written only in English. You can send mail to or receive mail from any email address regardless of the language of the email address. International email addresses (also known as EAI) work just like English email addresses, so you reply, send, and compose emails the same way.





Coremail 论客



Welcome Version 1.2

Roundcube webmail...

...is a browser-based multilingual IMAP client with an application-like user interface. It provides full functionality you expect from an email client, including MIME support, address book, folder manipulation, message searching and spell checking. [More information...](#)

DOWNLOAD
Version 1.2.2 (3.2 MB)

Features

- Multilingual capabilities
- Find-as-you-type address book
- Richtext/HTML message composing
- Searching messages and contacts
- Canned response templates **New!**
- [Int. domain names \(IDNA\)](#)
- Shared folders and ACL
- Full featured address book
- Extensible using the Plug-in API

[Complete list of features](#)

Latest News



Sympa is an open source mailing list manager. It provides advanced features with a rich and secure web interface.

Original features :

- scalable for big mailings lists (> 1.000.000 list members)
- list member provisioning using LDAP, SQL or other data sources
- various authentication method (SSO, LDAP, X509)
- S/MIME and DKIM
- web archive with access control, message removal etc
- virtual hosting for service providers.
- automatic bounce management
- easily customizable web interface
- SOAP interface for integration with other applications

More [features description](#).



Proudly developed in Perl!

It also supports some SMTP extensions several clones (and partly original one) have not been supported:

- DSN extension - As of Sympa 6.2, message tracking feature requires it.
- **SMTPUTF8** extension - As of planned Sympa 7.0, email address internalization (eai) feature presumes it.

To use smtpc as replacement of sendmail, add sympac.conf the lines:

```
sendmail      /path/to/smtpc
```

```
sendmail_args --esmtplib <host name of relaying server>
```

or with LMTP server:

```
sendmail      /path/to/smtpc
```

```
sendmail_args --lmtp <socket path of relaying server>
```



```
1:Fast ~ FredPg ~ CSpace~NextPg ~ View Attache... d:Del ~ Reply ~ Next ~ Help
624 @ Aug 03 I. Martinez | 177 Loans with tiny points are here now
625 @ Jul 01 R. Jackson | 1732 Loans with tiny rates are here now
626 @ Aug 05 Benjamin F. May | 580 Long time no hear...
627 @ Aug 17 Kristin Aarwe | 110 Long time no see....
628 @ Jun 03 Jessie House | 353 Looking for a hot date tonight, tomorrow, or next week?
629 Jul 03 Brigitte I. Hag | 633 Looking for a New H./Sex?
630 May 17 Joe Burns | 580 Looking for you
631 Jun 01 Save in a pair | 1453 Low Rate Consolidation Mortgage Loan
632 Jul 02 Igsel@virtoolig | 29 LowCost SoftWare D&D
* Mutt: Mail/peek/peek (Flags: 050 024.147 10M) ~ (cmd:peek/peek) (000)
Date: Sun, 17 May 2008 07:40:05 +0100
From: Kristin Aarwe <ikristin@eximinet@highstream.com>
Subject: long time no see....

! -- Autoview using: /usr/bin/edidm -force-html -dump ""/tmp/mutt.html" -- !
My name is Jen and I'm new to this dating thing. I've checked out your profile
you put up and it's interesting. :D I just want to get to know you a little
better if you don't mind. come check my profile out etc:

www.live.jen.com/chat.html

I also got a webcam so we can make it interesting. :D maybe hope you get back to
me.

bye :D

gnkxgndury jecrcudc jobcs
cccccrc lmbelghow
rnlfu jgqhlipk gszppfrccz
wzqskrb jppothliphpoidlp
bzshghvrtggfsczof nqch
hgzffafffalsklpzchfztt
ktpziffzqmwzslowq

6277950: Kristin Aarwe | long time no see.... (000)
Key is not bound. Press 'Y' for help.
```

1.6.0 (2016-04-04):

- + Enabled `utf-8` mailbox support for IMAP.
- + New expandos `%r` and `%R` for comma separated list of `To:` and `Cc:` recipients respectively.
- + Improved support for internationalized email and SMTPUTF8 (RFC653[0-4]). `$use_idn` has been renamed to `$idn_decode`.
- + `$idn_encode` controls whether outgoing email address domains will be IDNA encoded. If your MTA supports it, unset to use `utf-8` email address domains.

International Email Service Provider



Gmail™

by Google



Exchange





YAHOO! MAIL

Problems

欢迎注册无限容量的网易邮箱！邮件地址可以登录使用其他网易旗下产品。

注册字母邮箱

注册手机号码邮箱

注册VIP邮箱

* 邮件地址

建议用手机号码注册

@ yeah.net

6~18个字符，可使用字母、数字、下划线，需以字母开头

* 密码



21CN 邮箱
mail.21cn.com

手机客户端 企业商城 21CN首页 帮助

尊敬的用户，21CN免费邮用户、VIP邮用户（包括经济邮、商务邮用户）均可以在本页面登录使用邮箱。感谢

身蜕变 心如初见

21CN个人邮箱
全新改版·更美、更快、更安全

天翼帐号

21CN邮箱帐号

密码

一周内自动登录

登录

注册新帐号 | 找回密码

流量宝，免费流量轻松赚

·微邮，一个什么邮箱都能用的APP
·关于邮箱诈骗的提醒

欢迎来到美橙，开始您的互联网之旅！

购物车0

手机美橙

站长工具

付款方式

备案

登录 免费注册



on sale 本月特惠

域名

云虚拟主机

HOT 企业建站

5折 橙云主机

租用托管

企业邮箱

网络营销

商务合作

HOT 企业服务

企业邮箱

企业全球邮

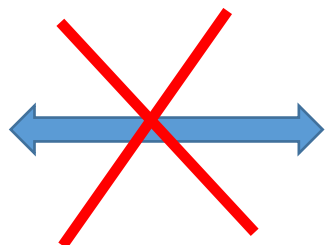
商务全球邮

橙邮 内防外御 从容面对

还在用免费邮箱，信息被泄露？
国际邮件转送不通畅，丢失邮件丢掉商机？
垃圾邮件太多，让人心烦意乱？
病毒邮件防不胜防？



Many big email service providers do not support EAI

名字@互联网.中国  zhongwenyoujiantest@qq.com

163 网易免费邮 mail.163.com 126 网易免费邮 www.126.com yeah.net 网易免费邮 中国第一大电子邮件服务商

欢迎注册无限容量的网易邮箱！邮件地址可以登录使用其他网易旗下产品。

注册字母邮箱 注册手机号码邮箱 注册VIP邮箱

* 邮件地址 @ yeah.net ▼
6~18个字符，可使用字母、数字、下划线，需以字母开头

* 密码

Mail QQ邮箱 mail.qq.com 企业邮箱 | 反馈意见 | 帮助中心 | 腾讯客服

QQ邮箱，常联系！
2500年前，人们飞鸽传书
170年前，莫尔斯发明了电报
37年前，第一封电子邮件发出
今天，QQ邮箱联系你、我、他

您可以用您的QQ号和密码直接登录QQ邮箱。
您还可以注册一个邮箱帐号（例如：chen@qq.com），并以此登录。
手机登录 m.mail.qq.com 随时随地收发邮件。

登录QQ邮箱

 记住登录状态 [忘记密码？](#)

还没有QQ邮箱？[立即注册](#)
[网络太慢？使用基本版](#)

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3 Phases to Support EAI

Phase One: Can Deal With EAI Message



Accept接受



Validate认证



Store存储



Process处理



Display显示



GMAIL enters Phase 1

Phase Two: Can Register with EAI accounts



Xgenplus beats Gmail, Office 365 and others to bring unicode support in email, to India

3 weeks ago Mudit Mohilay



Yandex

Good news

Yandex.Mail provides receipt and delivery for Cyrillic, Turkish alphabets and now for any other languages 😊

- ✓ вопросы@мояпочта.рф
- ✓ ჰოთბჯეზი@ჩემიოთიქობის.გე

Yandex.Mail overview

- Over 300 M users
- 25 M MAU desktop users*
- 4 M MAU mobile users*
- ~ 200 M incoming emails daily

Phase Three: EAI accounts as an Internet ID



Suggestion

Push Major Email Service Providers to Enter Phase 1

- Major Email service providers **do not refuse** to send or receive the EAI message

名字@互联网.中国



zhongwenyoujiantest@qq.com

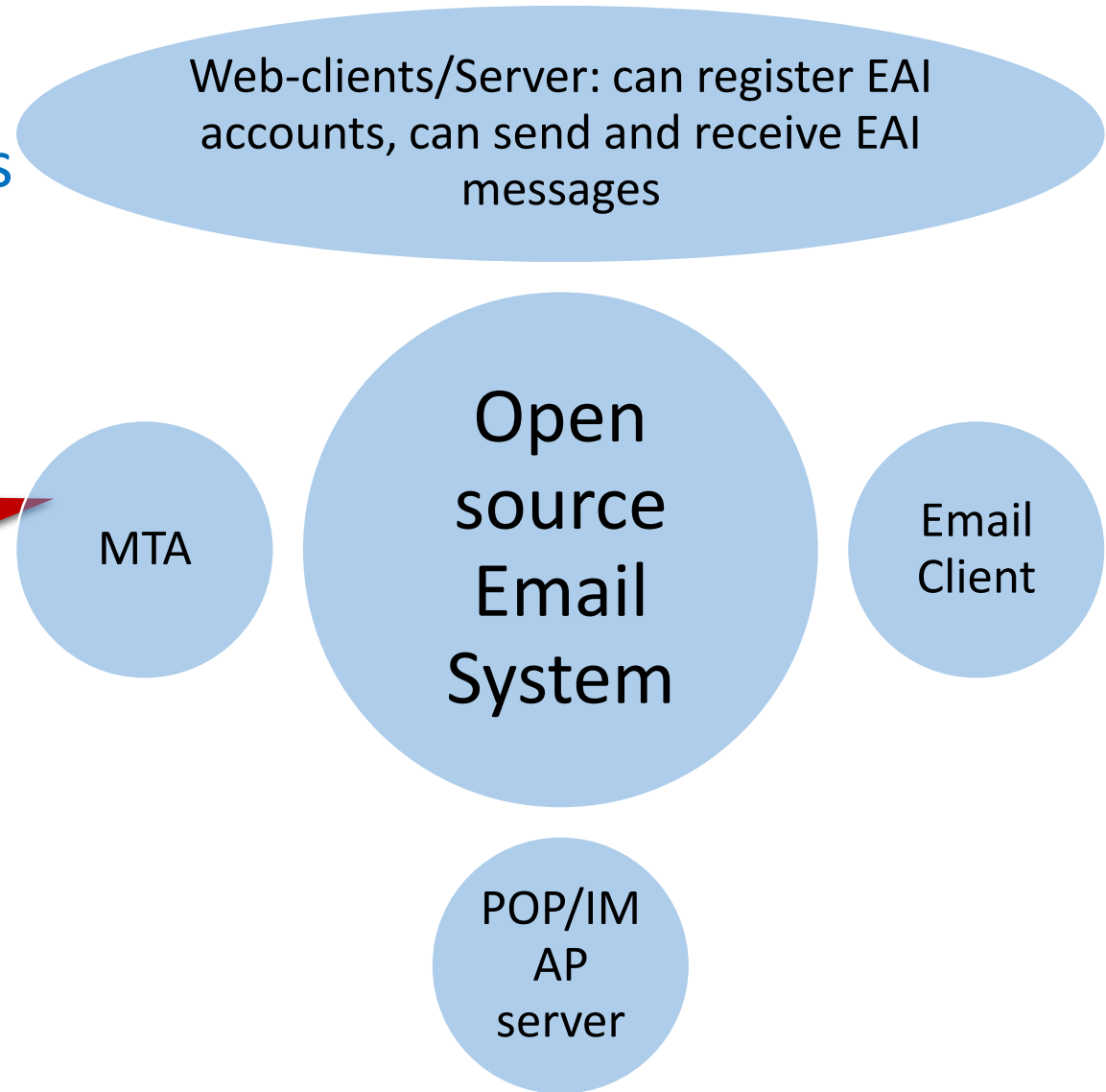


Outreach
Big Email
Service
Providers



Provide the guideline and demo for setting up an open source email system

- Integrate the current components



Funding or
Encourage the
current open
source
manager to do
so



Thanks for your kind attention!