

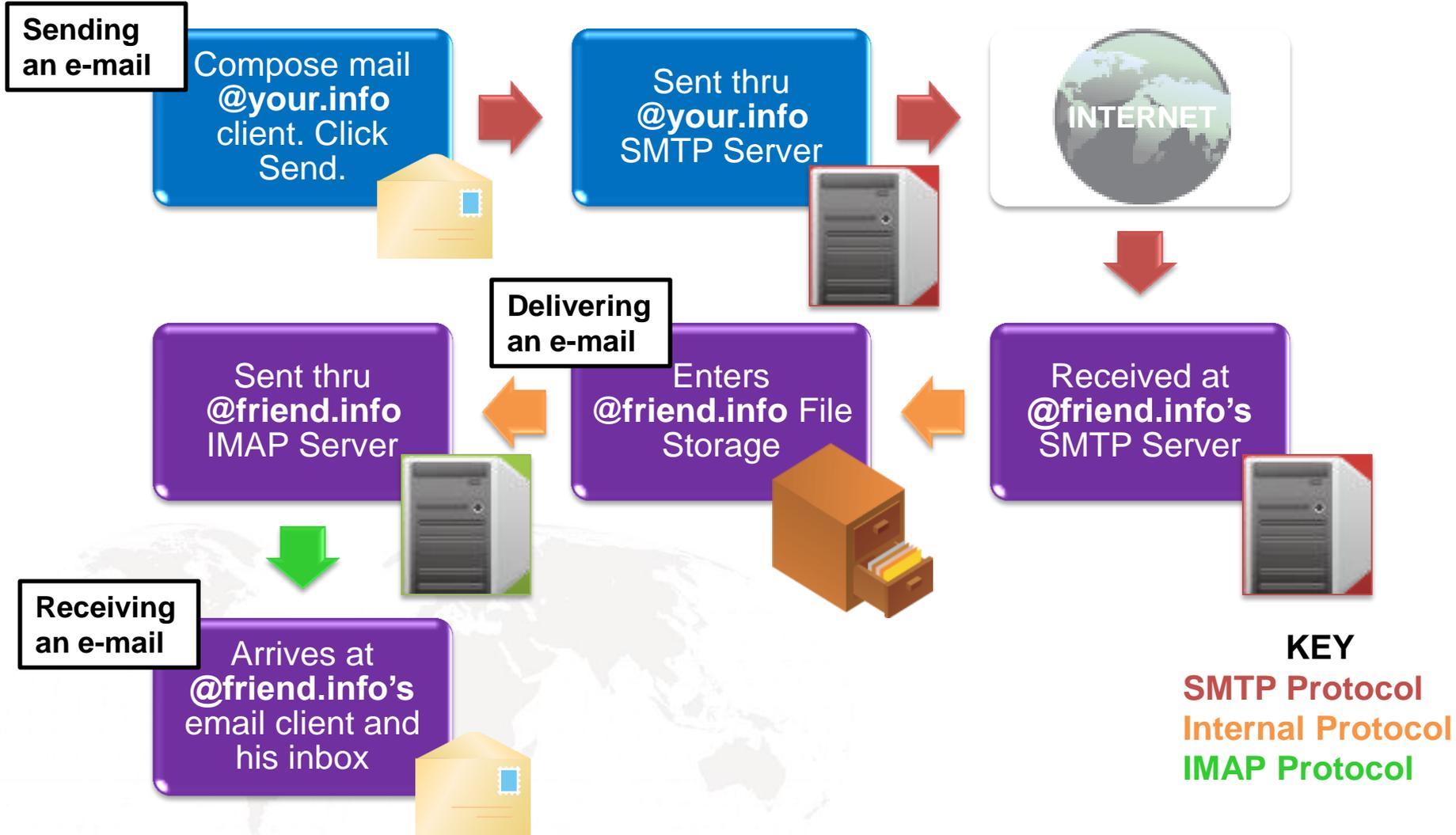
A horizontal blue banner with a globe on the left and binary code (0s and 1s) curving across the background.

IDN Email Experiences

A large, faded, light-colored globe graphic in the background of the lower half of the slide.

Dr. James Galvin
ICANN Singapore
21 June 2011

Standard E-mail Today





IDN (EAI) E-mail Tomorrow

IETF E-mail Address Internationalization (EAI) standard

<https://datatracker.ietf.org/wg/eai/charter/>

Valid e-mail addresses are extended from 7-bit ASCII to UTF-8.

for example, εδαινος@αφιλαισ.ινφο

This changes the underlying protocols SMTP, IMAP.

These servers and all components that interface to them need to be revised.

Afilias has built IDN versions of all components:

- E-mail clients (web mail, mobile), SMTP server, IMAP server.
- Plus an Afilias proprietary management console.



Afilias' IDN E-mail Solution

Deployed solutions available today include:

IDN E-mail Sandbox (version 1)

- Launched in Jan 2008, used for public beta testing.
- Supports 14 languages including: *Arabic, Chinese (simplified and Traditional), Greek, Hebrew, Hindi, Japanese, Korean, Persian (Farsi), Russian, Tamil, Ukrainian and Urdu*

IDN E-mail Cloud (version 2.0)

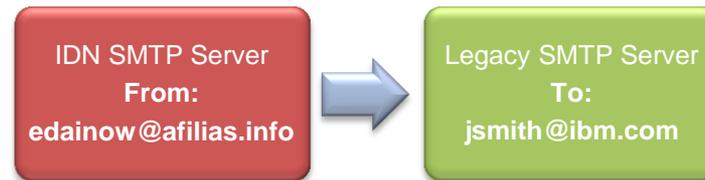
- Amazon cloud for rapid setup trials and new customer installs
- Webmail for any mobile client with a web browser
- Security – SSL on all protocols.

IDN E-mail Mobile

- Optimized mobile experience for smart phones.
- Native apps for iPhone, Nokia, Android.
- Works with Afilias Sandbox, Cloud or other standards based IDN E-mail systems.

What we learned: Standards incompatibility

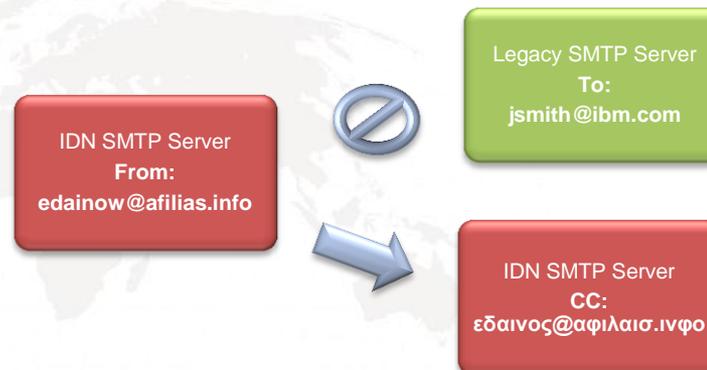
An e-mail sent from an IDN server that has all ASCII addresses can be delivered to a legacy server.



Email that has *any* IDN addresses cannot be delivered to a legacy server and will bounce.



In the following case, mail is delivered to εδαινος but bounces from jsmith if ibm.com is on a Legacy server.

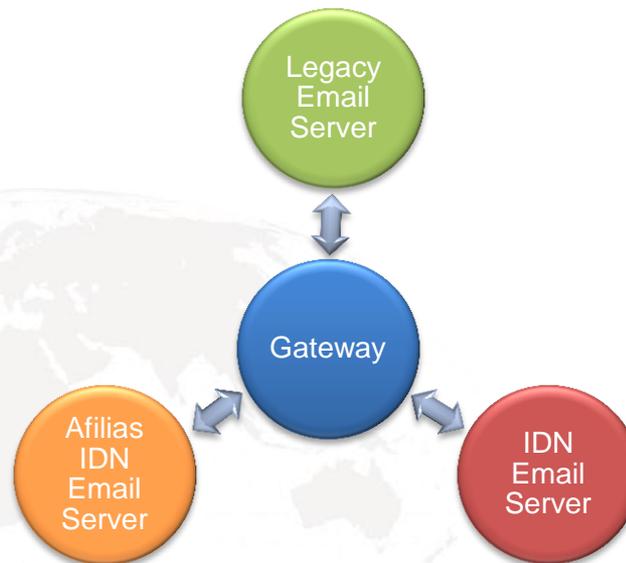


IDN E-mail Gateway

The Gateway provides a transparent solution for all cases of incompatibility between IDN E-mail and Legacy email.

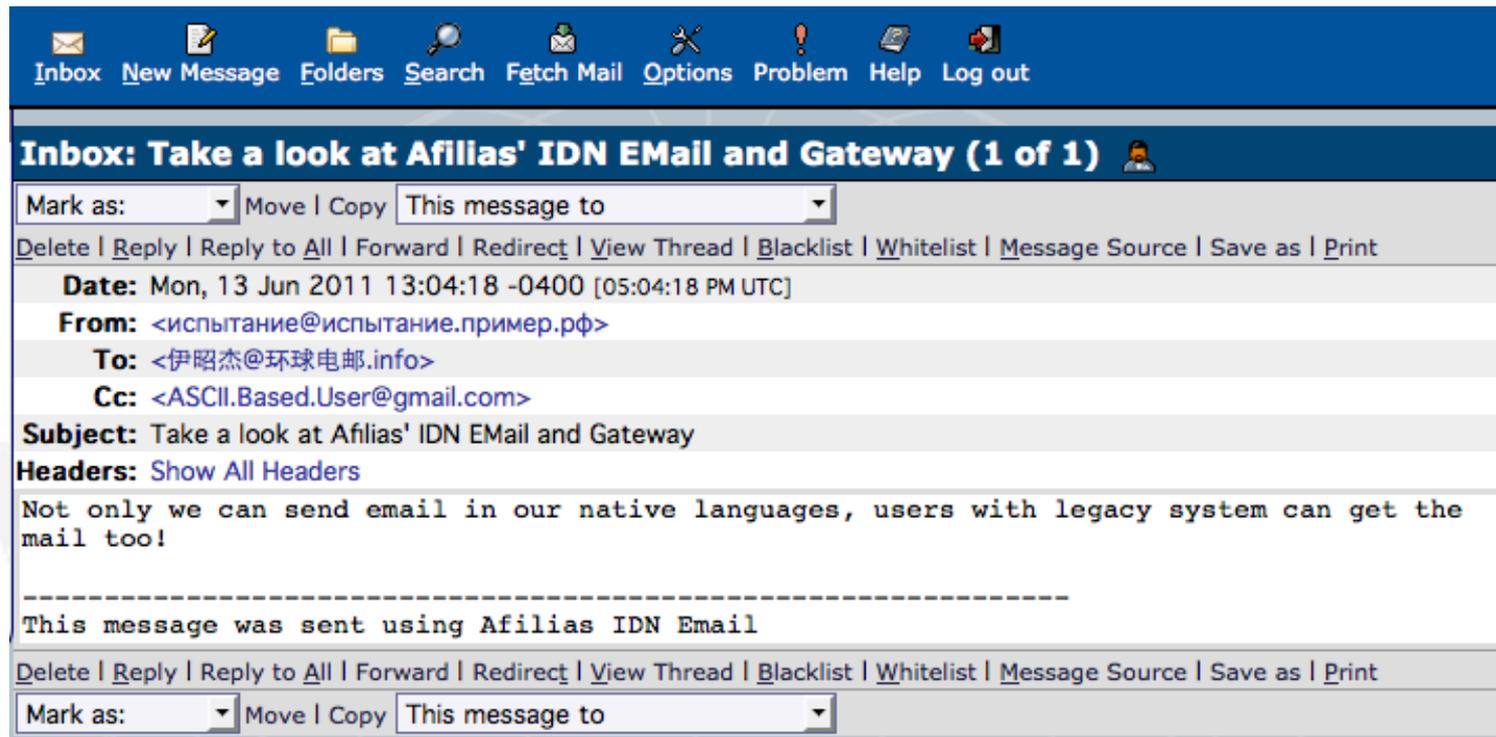
When delivering an IDN e-mail to a Legacy Server, the Gateway, acts as an intermediary and matches the IDN address to an ASCII address that can be recognized by the Legacy Server. It then matches the ASCII e-mail address back to the original IDN addresses when the user replies.

It can be deployed alongside an Afilias IDN E-mail Server, or separately for organizations using other standards based IDN e-mail servers within their own e-mail infrastructure.



See Gateway working!

Afilias' Gateway solution allows you to send and receive email addresses in ASCII, IDN, or a combination of both in the same email.



The screenshot shows an email client interface with a blue header bar containing navigation icons and labels: [Inbox](#), [New Message](#), [Folders](#), [Search](#), [Fetch Mail](#), [Options](#), [Problem](#), [Help](#), and [Log out](#).

The main content area displays an email with the following details:

- Inbox: Take a look at Afilias' IDN Email and Gateway (1 of 1)**
- Mark as:** [dropdown] **Move | Copy** **This message to** [dropdown]
- Delete | Reply | Reply to All | Forward | Redirect | View Thread | Blacklist | Whitelist | Message Source | Save as | Print**
- Date:** Mon, 13 Jun 2011 13:04:18 -0400 [05:04:18 PM UTC]
- From:** <испытание@испытание.пример.рф>
- To:** <伊昭杰@环球电邮.info>
- Cc:** <ASCII.Based.User@gmail.com>
- Subject:** Take a look at Afilias' IDN Email and Gateway
- Headers:** [Show All Headers](#)

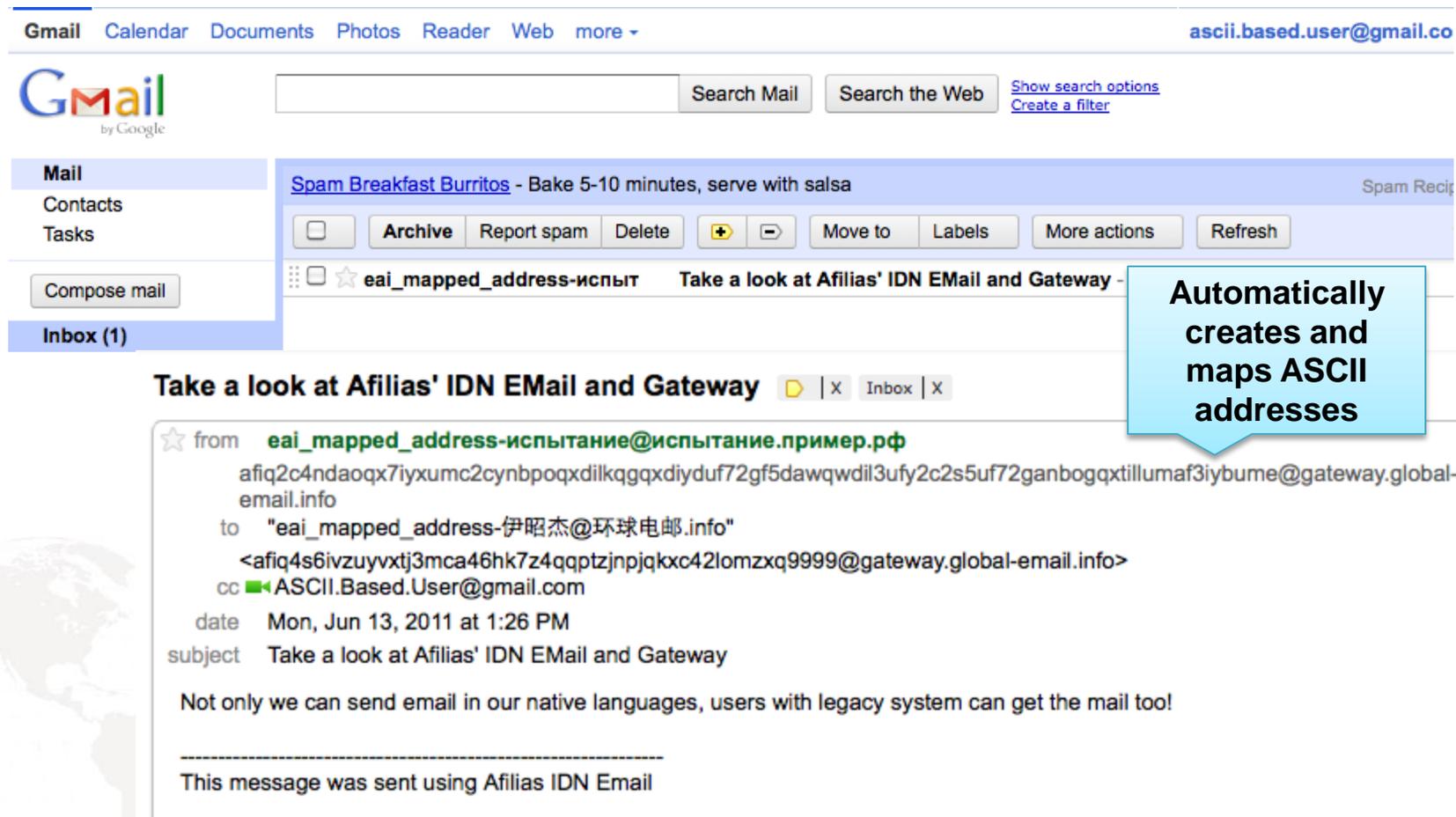
The email body contains the following text:

Not only we can send email in our native languages, users with legacy system can get the mail too!

This message was sent using Afilias IDN Email

At the bottom, there is another set of navigation controls: **Delete | Reply | Reply to All | Forward | Redirect | View Thread | Blacklist | Whitelist | Message Source | Save as | Print**, and **Mark as:** [dropdown] **Move | Copy** **This message to** [dropdown].

IDN Gateway mapped address



The screenshot shows a Gmail interface with the following elements:

- Navigation bar: Gmail, Calendar, Documents, Photos, Reader, Web, more -
- User profile: ascii.based.user@gmail.co
- Search bar: Search Mail, Search the Web, Show search options, Create a filter
- Left sidebar: Mail, Contacts, Tasks, Compose mail, Inbox (1)
- Spam filter: Spam Breakfast Burritos - Bake 5-10 minutes, serve with salsa
- Spam filter actions: Archive, Report spam, Delete, Move to, Labels, More actions, Refresh
- Selected email: eai_mapped_address-испыт Take a look at Afilias' IDN EMail and Gateway
- Callout box: Automatically creates and maps ASCII addresses
- Email content:
 - from: eai_mapped_address-испытание@испытание.пример.рф
 - to: "eai_mapped_address-伊昭杰@环球电邮.info"
 - cc: ASCII.Based.User@gmail.com
 - date: Mon, Jun 13, 2011 at 1:26 PM
 - subject: Take a look at Afilias' IDN EMail and Gateway
 - body: Not only we can send email in our native languages, users with legacy system can get the mail too!
 - signature: This message was sent using Afilias IDN Email

IDN gateway response

Reply Reply to all Forward

Send Save Now Discard Draft autosaved at 1:29 PM (0 minutes ago)

To: "eai_mapped_address-испытание@испытание.пример.рф" <afiq2c4ndaqx7iyxumc2cynbpoqxdilkqgqxdiyduf72gf5dawqwdil3ufy2c2s5uf72ganboggxtillumaf3iybume@gateway.global-email.info>

Cc: "eai_mapped_address-伊昭杰@环球电邮.info" <afiq4s6ivzuyvxtj3mca46hk7z4qqptzjnpjqkxc42lomzxq9999@gateway.global-email.info>

Inbox: Re: Take a look at Afilias' IDN Email and Gateway (1 of 2)

Add Bookmarks Mark as: Move | Copy This message to

Delete | Reply | Reply to All | Forward | Redirect | View Thread | Blacklist | Whitelist | Message Source | Save

B I

Not only I can receive, and I can reply them to both of you, this gateway is great!

ASCII User

2011/6/13 eai_mapped_address-испытание@испытание.пример.рф <afiq2c4ndaqx7iyxumc2cynbpoqxdilkqgqxdiyduf72gf5dawqwdil3ufy2c2s5uf72ganboggxtillumaf3iybume@gateway.global-email.info>

Not only I can receive, and I can reply them to both of you, this gateway is great!

ASCII User

2011/6/13 eai_mapped_address-испытание@испытание.пример.рф <afiq2c4ndaqx7iyxumc2cynbpoqxdilkqgqxdiyduf72gf5dawqwdil3ufy2c2s5uf72ganboggxtillumaf3iybume@gateway.global-email.info>

[Hide Quoted Text]

Alternative parts for this section: unnamed [text/html] 0.93 KB

All replies get sent to their proper Recipient's inbox



Quick Video





Want to find out more?

- Visit Afilias at booth #13 to speak with us about Afilias' IDN Email solutions
- Visit us online at www.afilias.info/idnemail