Implementation of IDN Email

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1. Introduction of Coremail
2. What is IDN Email
3. Problems and Solutions
   - What system have to done to support standards
   - How to deal with IDN email and Non-IDN email
   - How to know who support IDN email
Introduction of Coremail

During 14 years,
We only do Email
Concentration makes profession

Overall email system solutions to government, institutions and enterprises.

The most authoritative mail system
Introduction of Coremail

We are

The First Chinese Email System.
The broadest used Email system in China.
The first commercial IDN Email System
What is IDN Email

Introduction

IDN emails are emails with Internationalized Domain Name (IDN).

Internationalized email address (IEA) contains non-English characters.

e.g. “张先生@盈世.中国”. sophie@lancôme.fr
김희선@항성.한국; あたりこうすけ@とうしば 日本

Internationalized email address is a kind of personal ID with national and ethnic characteristics.
What is IDN Email

IDN Email

From: 张三@盛世.中国
To: 王五@盛世.中国, sophie@lancome.fr, 韩语
Subject: 你好!

你好！
Bonjour
안녕하세요
こんにちは

Quick Reply

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Q 1-system reconstruction

Protocol & Standards

- RFC 6531 When using SMTP for sending email, UTF8 SMTP is able to accept email with UTF-8 heading
- RFC 6532 direct use UTF-8 code in mime
- RFC 6855 IMAP support UTF-8
- RFC 6856 POP3 support UTF-8
Q 1-system reconstruction

System Reconstruction

- MD
- UD
- MS
- Database
- MTA/DA
- File Structure
- POP3
- Output Logs
- IMAP
- System tools
- WEB
- Profile
Q2-How to deal with IDN email

Double Email Accounts

Main Account (UTF-8): Log in, Email receipt and sending with IEA

Alias Account (ASCII): Log in, Email receipt and sending with English Email address

张三@互联网中心.中国
ZhangSan@cnnic.cn

用户

张三@互联网中心.中国
ZhangSan@cnnic.cn

接收
发送

发送
张三@互联网中心.中国
张三@互联网中心.中国
王五@盈世.中国

ZhangSan@cnnic.cn
lisi@mailtech.cn

The most authoritative mail system
Q2-How to deal with IDN email

Receive Email

Coremail will classify Emails receipt with different standards.

IDN Email?

YES

Receive Email by RFC6531

NO

Receive Email by RFC2821

Send Email
Q2 - How to deal with IDN email

Send Email

- Log in with IDN
- Send Email

Receiver support IDN email?

- YES
  - Formed by RFC 6532
  - Send mail by RFC 6531

- NO
  - Formed by RFC 2045
  - Use alias account
  - Send mail by RFC 2821
Q3- Who support IDN email?

System and service solution

Coremail Solution

1. Same system. System return code can contain IDN information.
2. Different systems. System return code would often be shield.
   Base on cloud service platform, Coremail automatically updates IDN list

Suggestion

All IDN email supported system suppliers release and share their domain record.
Thank you!