

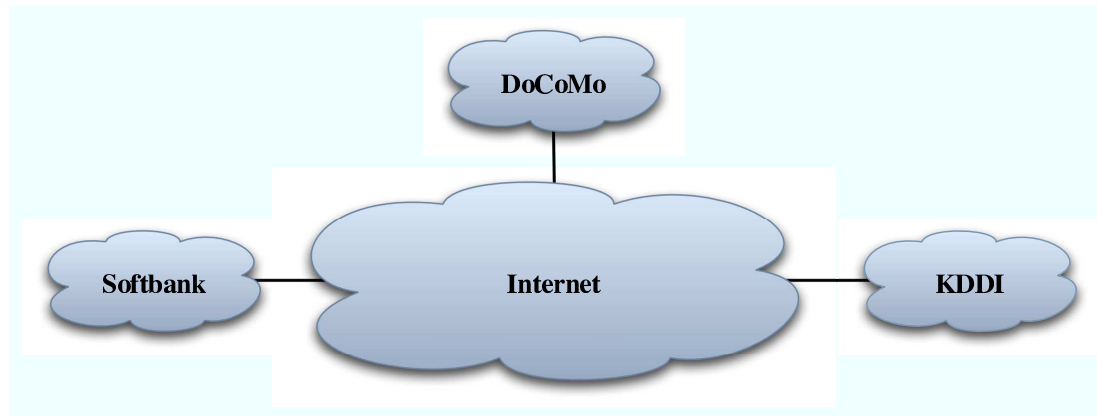
Anti-spam Activities and Legal Issues in Japan

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Cellular phones and the net



- Japan is a paradise for cellular phone users
 - Typical cellular phones can send e-mail messages
 - Cellular networks are connected to the net
 - Any cellular phones and PCs can exchange messages
 - Japanese use cellular phones much more than PCs for e-mail messages

Spams to cellular phones

- This WAS a big problem in Japan

宣伝メール配信にもっとも強力な新製品が出ました！！
携帯による携帯メール自動送信システム発売！！
ドメイン指定拒否されていても届きます。(悪用厳禁！)



AU by KDDI(CDMA)携帯電話1～20台接続型
通常価格2,300,000円を 特別価格898,000円

内容:送信システムインストール済PC1本体(モニター別)+携帯接続ケーブル10本(追加ケーブル1本3980円)

AU by KDDI(CDMA)携帯電話1～5台接続型
通常価格1,800,000円を 特別価格498,000円

内容:送信システムインストール済PC1本体(モニター別)、携帯接続ケーブル5本¥50000別売)

※お届けは入金後1～2週間程度になります。
他社AUシステムよりかなり安く最も高速なメール配信システム！ここでしか買えません！！
お電話はいますぐ！ 0909-5656-588 へどうぞ！！

メールなら info@hitbitweb.com

New! パケット定額WIN端末対応型完成！！

Fights against spams

- DoCoMo's press release
 - July 2003: 1.8 messages per person everyday
 - This is just average
 - Spam divide
 - Some does not receive, the others receive many
 - June 2005: 0.02 messages per person everyday
 - 99% had been reduced
- Spam measures by cellular phone companies
 - Rate control from the inside
 - Canceling contracts
 - Cellular phone companies can identify who sent spams
 - Lawsuits
 - Penalty for illegal use of the services
- Cellular phone networks are just a site on the net
 - Still massive spams from the net

Spams to PCs

- This IS the current problem in Japan
 - Spams on the net are increasing
- Unsolicited advertisement
 - URLs to adult contents, viagra, ...
- Trap to online dating
 - Starting with daily conversation
 - Continuing conversation leads the victim to an online dating system
 - He will result in paying much money
- Phishing
 - Minor
 - Probably because of "telephone phishing"
 - "Hello, it's me."
 - "Are you Jack?"
 - "Yes, I'm Jack. I'm in trouble and need money. Please transfer money to me."

Laws

- The constitution of Japan (Item 2 of Article 21)
No censorship shall be maintained,
nor shall the secrecy of any means of
communication be violated
- 日本国憲法 (21条2項)
検閲は☒これをしてはならない
通信の秘密は、これを侵してはならない
- Telecommunications Business Law
Article 3: No communications being handled
by a telecommunications carrier shall be censored.
Article 4: The secrecy of communications being handled
by a telecommunications carrier shall not be violated
- 電気通信事業法
3条：電気通信事業者の取扱中に係る通信は、
検閲してはならない
4条：電気通信事業者の取扱中に係る通信の秘密は、
侵してはならない

Procedure

- ISPes should ask MIC
 - Ministry of Internal Affairs and Communications
 - 総務省
- MIC approves it
 - A legitimate part of business
 - 正当業務行為
- Illegal
 - Spam filtering
 - ISPes have to ask each user whether or not he/she want to enable it
 - Refusing messages based on domain authentication
- Legal
 - Virus filtering
 - OP25B
 - Labeling messages based on domain authentication

Spam law

- The Law on Regulation of Transmission of Specified Electronic Mail (特定電子メール送信適正化法)
 - Enforced in 2002.7.1
- Obligation of advertisers
 - Subject: Unsolicited Advertisement (未承諾広告)
 - Body: name, address, e-mail address, e-mail address to opt out
- Prohibiting advertisement to random addresses
- Penalty
 - Fine of up to 500,000 JPY

Is the spam law effective?

- Procedure for penalty
 - End users report
 - MIC sends a warning message to the advertiser
 - If ignored, MIC issues an administrative order
- Only 3 instances of administrative order!
 - for 3 years
 - No instance of fine!

Revising the spam law

- The Law should be revised after 3 years
- "Study group on a framework to handle spam" pointed out
 - Does not cover SMS(Short Message Service)
 - SMS is not based on SMTP
 - Does not prohibit harvesting
 - Messages which have empty body are not advertisement
 - Not practical
 - Police should take an action when an end user reports
- Revised in May 2005, enforced in Nov
 - Resolving the problems
 - Direct punishment
 - if a sender address is faked
- One spammer was arrested on 25 May 2006!
 - who faked his sender address

Police and phisher

- Phishing 110 (フィッシング 110 番)
 - "110" is the call number of police in Japan
 - Police's special office against phishing
 - <http://www.npa.go.jp/cyber/policy/phishing/phishing110.htm>
- Police tries to arrest phishers when reported
 - as obstruction of business (業務妨害罪)
 - as violation of the copyright law (著作権法違反)
- We should report when find

Honey pot by government(1)

- Feb 2005
 - <http://www.meti.go.jp/press/20050121003/20050121003.html>
- Capturing spams as end users
 - Analyzing spams and telling Ministries
 - Denkyo (日本データ通信協会)
 - <http://www.dekyo.or.jp/>
 - Japan Industrial Association (日本産業協会)
 - <http://www.nissankyo.or.jp/>
- Telling ISPes/banks
 - MIC (総務省)
 - Telling abused e-mail addresses to ISPes
 - Ministry of Economy, Trade and Industry (経済産業省)
 - Telling abused accounts to banks
- ISPes could cancel the contract
to prevent the bad guy from sending spams
- Banks could close the accounts
to prevent the bad guy from withdrawing cash

Honey pot by government(2)

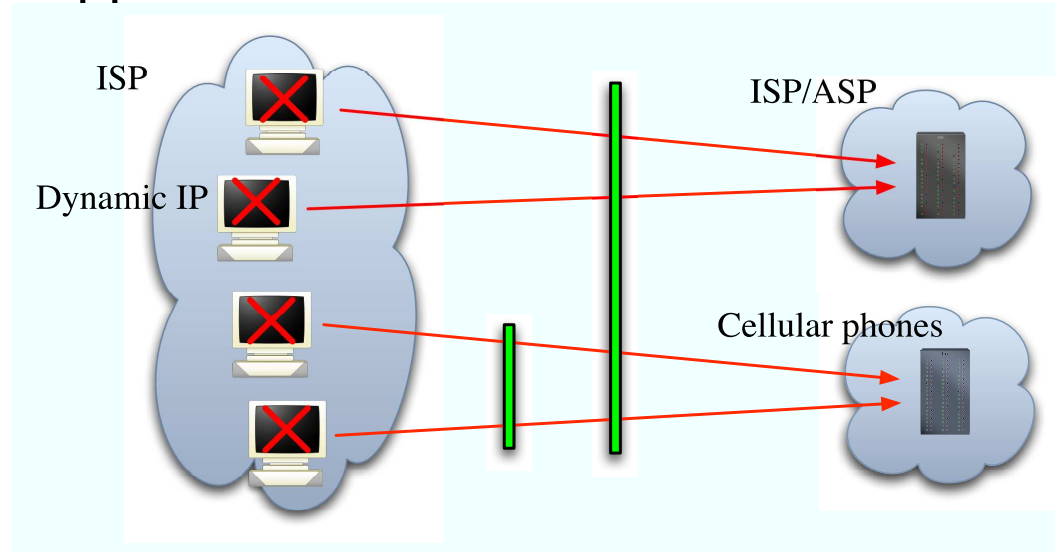
- ISPes welcome this project
 - Some ISPes hesitate to cancel contracts
 - e.g) When an ISP canceled the contract of a spammer, he started boycott of products made by its parent company. So, the parent company complains to the ISP.
 - If the government says it's OK, most Japanese think it's a right way to do
 - i.e) The parent company does not complain to the ISP.
- This project would be effective to
 - spams from cellular phones
 - spams from ISPes with correct addresses
- This project would not be effective to
 - spams from ISPes with faked addresses (e.g BOTs)
- We need a framework to trace e-mails

JEAG

- Japan Email Anti-Abuse Group
 - ISPes, ASPes, and vendors
 - <http://jeag.jp/>
- Three recommendations
 - OP25B
 - Domain authentication
 - Cellular phones

OP25B

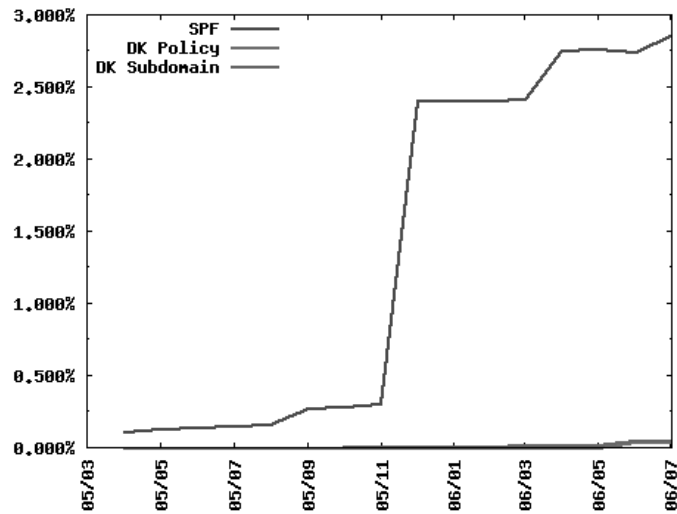
- MIC approves OP25B



- Source
 - Dynamic IP only
- Destination
 - Cellular phones only
 - hi-ho, KDDI, IJ, NTT Com, DTI, Willcom, ...
 - All
 - Plala, WAKWAK, Nifty, NTTPC, So-net, Softbank BB, ...

Domain authentication

- Deployment status
 - The WIDE project and JPRS monthly measures how many domains under ".JP" install domain authentications
- July 2006
 - SPF: 2.86 %
 - DKIM: 0.04 %



<http://member.wide.ad.jp/wg/antispam/stats/index.html.en>

Mailreaders

- Japan is also a paradise for mailreaders
 - Webmail is not so popular in Japan
- It's difficult to ask users to configure mailreaders
 - Password for submission
 - Submission port
 - TLS
- An example solution
 - IIJ provides customized Thunderbird
 - What a user should do is just type his/her name and account name
 - IIJ also provides an extension (plugin)
 - When a user download an XML based extension, his/her Thunderbird is customized

Next step

- RBL(Realtime Black List)
 - Quality of RBLs is not so high
 - Mis registrations often occur
 - Mis registrations remain for a long time
 - Difficult to cancel them
 - Many sites use them thoughtlessly
 - Legitimate message are rejected
- Mail magazines
 - Mail magazines are using old delivery systems
 - They send massive messages in a short time
 - Their activities are recognized as sending spams
 - Mail Magazine should move to blog!
- Reputation based on domain
 - We need it but no idea at this moment