Post Office Protocol

The Post Office Protocol (POP) server is the i5/OS implementation of the Post Office Protocol Version 3 mail interface.

The POP server provides electronic mailboxes on this operating system from which clients can retrieve mail. Any mail client that supports the POP3 protocol can use this server, such as Netscape Mail, Outlook Express, or Eudora. Clients might be running on any platform, such as Windows, Linux, AIX®, or Macintosh.

The POP server serves as a temporary holding area for mail until it is retrieved by the mail client. When the mail client connects to the server, it queries the contents of its mailbox to see if there is any mail to retrieve. If there is, it retrieves one mail message at a time. After a message has been retrieved, the client instructs the server to mark that message for deletion when the client session is complete. The client retrieves all of the messages in the mailbox and then issues a command that tells the server to delete all of the messages that are marked for deletion and to disconnect from the client.

POP mail clients use *verbs* to communicate with the POP server. Verbs supported by the POP server for this operating system are described in the Post Office Protocol topic.

The Post Office Protocol has been updated two times since it was first published. A rough history of POP is

1. POP: Post Office Protocol (POP1); published 1984
2. POP2: Post Office Protocol, Version 2; published 1985 and
3. POP3: Post Office Protocol, Version 3, published 1988.

So, POP3 means "Post Office Protocol, Version 3." This version includes mechanisms to expand the protocol for new actions and, for example, authentication mechanisms. Since 1988, these have been used to update the Post Office Protocol, and POP3 is still the current version.

Web Based Email

Web based Email accounts are usually free email accounts that are operated from a website unlike Outlook Express, Netscape Communicator or Eudora, installed on your hard drive. They are World Wide Web interfaces that allows users to read and write E-mail using a Web browser. Webmail is commonly offered as a service by Internet companies, often in exchange for providing personal information for marketing purposes.

They usually offer some email services such as signature, vacation reply and filters, but do not include features such as catch-all and aliases and usually provide less disk space to store messages.

Since they are web based, they are slow and cumbersome using a browser and require an Internet connection to read and compose messages, but useful in the case where you need additional email accounts on a long or short term basis. Web based email accounts are used extensively by spammers which is a reason why you can rarely find the name you prefer. A clear disadvantage of web based email accounts is that you can not read old email or prepare new email offline. You need to be connected to the Internet to retrieve, read, and send your email messages.

General webmail service features:

- Multiple Folders
- Trash folder
- Address book / Contact list
- Filtering the incoming email to dispatch to related folder
- Spam detection and blocking measures (reject/bounce email to sender with note)
- Ability to send back the emails with suspecious attachments to the sender.
- POP3 mail retrieval
- Antivirus for mail attachements
- Dictionary and thesaurus for composed messages
- Online Spell checker (gmail has best)

Advantages of webmail services

- Email can be read and composed anywhere a person has access to a web browser.
- Messages do not have to be downloaded.
- Many services allow anonymous sign-ups.

Disadvantages of webmail services

- The user must stay online to read and write email.
- Commercial webmail services often offer only limited email storage space and deliver advertisements.
- Heavy use of webmail over a slow network connection can be tedious.

A bit of History

Historically, the first webmail service was Hotmail. Hotmail (http://www.hotmail.com) was Created by Sabir Bhatia in India. Hotmail became very popular, and was later bought by Microsoft and rebranded MSN Hotmail. There are now many other webmail services available.

When choosing a good, free web based email provider, you should find one that will allow you to send and retrieve your email using an email client such as Outlook Express or Netscape Navigator. This way your emails don't get stucked on server.

Comparison Chart

BASIS FOR COMPARISON	SMTP	POP3
Basic	It is message transfer agent.	It is message access agent.

BASIS FOR COMPARISON	SMTP	POP3
Full form	Simple Mail Transfer Protocol.	Post Office Protocol version 3.
Implied	Between sender and sender mail server and between sender mail server and receiver mail server.	Between receiver and receiver mail server.
work	It transfers the mail from senders computer to the mail box present on receiver's mail server.	It allows to retrieve and organize mails from mailbox on receiver mail server to receiver's computer.

Advantages and Disadvantages of Email

10 Advantages of Email

1. It's free!

Once you're online, there is no further expense.

2. Easy to reference

Sent and received messages and attachments can be stored safely, logically and reliably. It's a lot easier to organize emails than paper.

3. Easy to use

Once you're set up, sending and receiving messages is simple. That goes for a host of other email functions. Data storage and contacts can be accessed quickly and easily.

4. Easy to prioritize

Incoming messages have subject lines that mean you can delete without opening. How much time does that save compared to 'snail mail?'

5. Speed

Message to send? Done, under a second! Email is as fast a form of written communication as any.

6. Global

Web based email means you can access your messages anywhere online. Going overseas? Before you go, mail yourself a copy of your passport number, travel insurance details or your accommodation details.

7. Good for the planet

Actually the advantages *and* disadvantages of email are clear here. Computers themselves aren't 'green', but email offsets some of the damage by reducing the environmental cost of contact.

8. Info at your fingertips

Storing data online means less large, space taking file cabinets, folders and shelves. You can access information far quicker if you learn how to use email this way.

9. Leverage

Send the same message to any number of people. Adaptations are simple, too. If you have a product or service to sell, email is an effective medium to get your message out.

10. Send reminders to yourself

Do you use more than one account? Email yourself messages from work to home or vice versa. Does the idea of two or more accounts seem complicated? It's not if you know how to manage multiple accounts.

10 Disadvantages of Email

1. Emotional responses

Some emails cause upset or anger. A reply in the heat of the moment can't be easily retracted, but it can cause lasting damage.

2. Information overload

Too many people send too much information. They cover their backs citing 'need to know' as the justification. Learn how to use email effectively and you'll reduce time wasted on this.

3. Lacking the Personal Touch

Some things are best left untyped. Email will never beat a hand written card or letter when it comes to relationships.

4. Misunderstandings

Emails from people who don't take the time to read what they write before clicking 'send'. Time is wasted, either to clarify or, worse, acting on a misinterpretation of the message.

5. No Respite

Your email inbox is like a garden; it needs to be constantly maintained. Leave it and will continue to grow. Ignore it at your peril!

6. Pressure to Reply

Once it's in your inbox, you feel an ever increasing obligation to act on it. Procrastinating doesn't making it go away. Do it, dump it or delegate it.

7. Spam

Having to deal with spam and spoofs is one of the worst avoidable time wasters online. Use some anti spam software.

8. Sucks up Your Time

Over checking messages is so common, but it is time wasted on a low value, passive activity. Better to check once or twice a day.
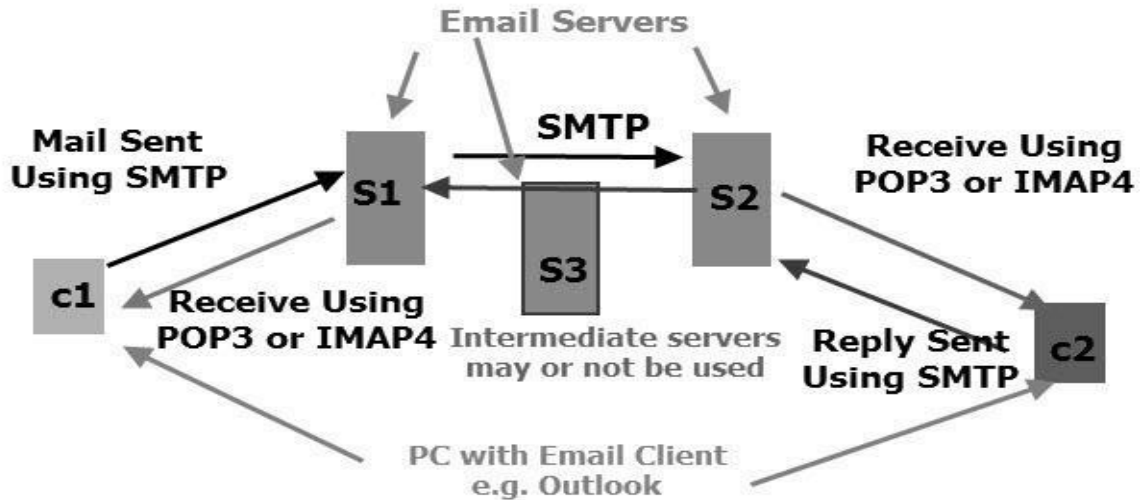
9. Too Long

How long *is* too long? It's hard to say exactly, but the longer it goes on, the harder it is to take in. Email is suited to brevity - keep it short and sweet.

10. Viruses

A virus could seriously affect your computer. If you want to know how to use email effectively, it's worth learning how to deal with these.

Basic of Sending and Receiving E – Mail

Email Servers

Mail Sent Using SMTP

SMTP

S1

S2

S3

Receive Using POP3 or IMAP4

c1

Receive Using POP3 or IMAP4 Intermediate servers may or not be used

Reply Sent Using SMTP

c2

PC with Email Client e.g. Outlook

Sending and Receiving Email On Internet Using Desktop Email Clients

Mailing list

A mailing list is simply a list of addresses to which the same information is being sent. If you were a magazine publisher, you would have a list of the mailing addresses of all the subscribers to the magazine. In the case of an electronic mailing list, we use a list of email addresses from people interested in hearing about or discussing a given topic.

Two common types of email mailing lists are announcement lists and discussion lists.

Announcement lists are are used so that one person or group can send announcements to a group of people, much like a magazine publisher's mailing list is used to send out magazines. For example, a band may use a mailing list to let their fan base know about their upcoming concerts.

A discussion list is used to allow a group of people to discuss topics amongst themselves, with everyone able to send mail to the list and have it distributed to everyone in the group. This discussion may also be moderated, so only selected posts are sent on to the group as a whole, or only certain

people are allowed to send to the group. For example, a group of model plane enthusiasts might use a mailing list to share tips about model construction and flying.

Some common terms:

- A "post" typically denotes a message sent to a mailing list. (Think of posting a message on a bulletin board.)
- People who are part of an electronic mailing list are usually called the list's "members" or "subscribers."
- "List administrators" are the people in charge of maintaining that one list. Lists may have one or more administrators.
- A list may also have people in charge of reading posts and deciding if they should be sent on to all subscribers. These people are called list moderators.
- Often more than one electronic mailing list will be run using the same piece of software. The person who maintains the software which runs the lists is called the "site administrator." Often the site administrator also administrates individual lists.

Free E-Mail Services

Freemail is a service that provides free e-mail delivery to anyone in exchange for exposure to advertising on the site where you request your e-mail and, in some cases, for some personal information.

Free E-mail Service Providers

1. Gmail
2. Outlook.com
3. iCloud Mail
4. Yahoo! Mail
5. AOL Mail
6. Zoho Mail
7. GMX Email
8. Yandex Mail
9. Mail.com
10. Lycos.com