

用java开发WebMail指南

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提纲

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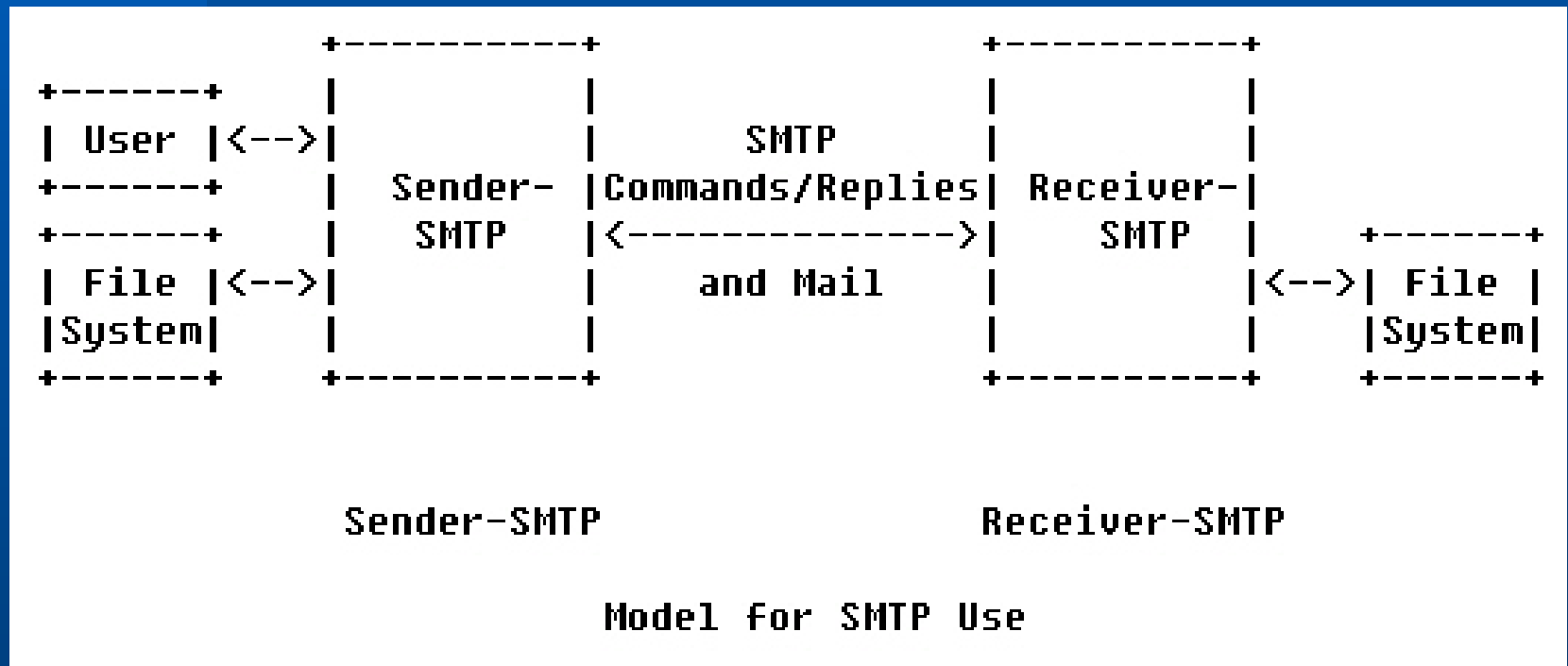
相关协议

- SMTP
- POP3
- IMAP

Simple Mail Transfer Protocol

- RFC821

在服务器之间建立双向数据通道



一个简单例子

```
S: MAIL FROM:<>
R: 250 ok
S: RCPT TO:<@HOSTX.ARPA:JOE@HOSTW.ARPA>
R: 250 ok
S: DATA
R: 354 send the mail data, end with .
S: Date: 23 Oct 81 11:22:33
S: From: SMTP@HOSTY.ARPA
S: To: JOE@HOSTW.ARPA
S: Subject: Mail System Problem
S:
S:   Sorry JOE, your message to SAM@HOSTZ.ARPA lost.
S:   HOSTZ.ARPA said this:
S:     "550 No Such User"
S: .
R: 250 ok
```

SmtP 命令

HELO <SP> <domain> <CRLF>

MAIL <SP> FROM:<reverse-path> <CRLF>

RCPT <SP> TO:<forward-path> <CRLF>

DATA <CRLF>

RSET <CRLF>

SEND <SP> FROM:<reverse-path> <CRLF>

SOML <SP> FROM:<reverse-path> <CRLF>

SAML <SP> FROM:<reverse-path> <CRLF>

URFY <SP> <string> <CRLF>

EXPN <SP> <string> <CRLF>

HELP [<SP> <string>] <CRLF>

NOOP <CRLF>

QUIT <CRLF>

TURN <CRLF>

Post Office Protocol (pop3)

- RFC1939

Minimal POP3 Commands:

```
USER name
PASS string
QUIT

STAT
LIST [msg]
RETR msg
DELE msg
NOOP
RSET
QUIT
```

例子

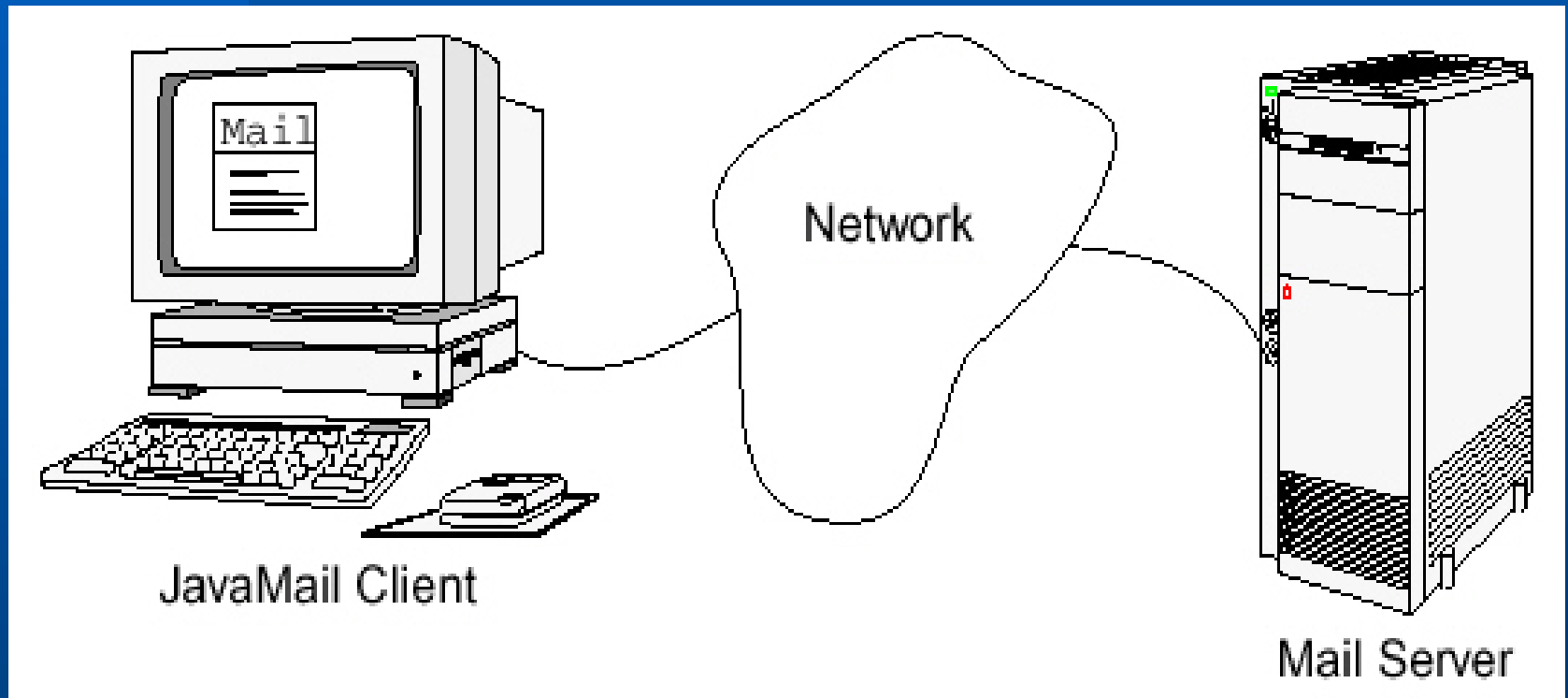
```
S: <wait for connection on TCP port 110>
C: <open connection>
S: +OK POP3 server ready <1896.697170952@dbc.mtview.ca.us>
C: APOP mrose c4c9334bac560ecc979e58001b3e22fb
S: +OK mrose's maildrop has 2 messages (320 octets)
C: STAT
S: +OK 2 320
C: LIST
S: +OK 2 messages (320 octets)
S: 1 120
S: 2 200
S: .
C: RETR 1
S: +OK 120 octets
S: <the POP3 server sends message 1>
S: .
C: DELE 1
S: +OK message 1 deleted
C: RETR 2
S: +OK 200 octets
S: <the POP3 server sends message 2>
S: .
C: DELE 2
S: +OK message 2 deleted
C: QUIT
S: +OK dewey POP3 server signing off (maildrop empty)
C: <close connection>
S: <wait for next connection>
```


INTERNET MESSAGE ACCESS PROTOCOL(imap)

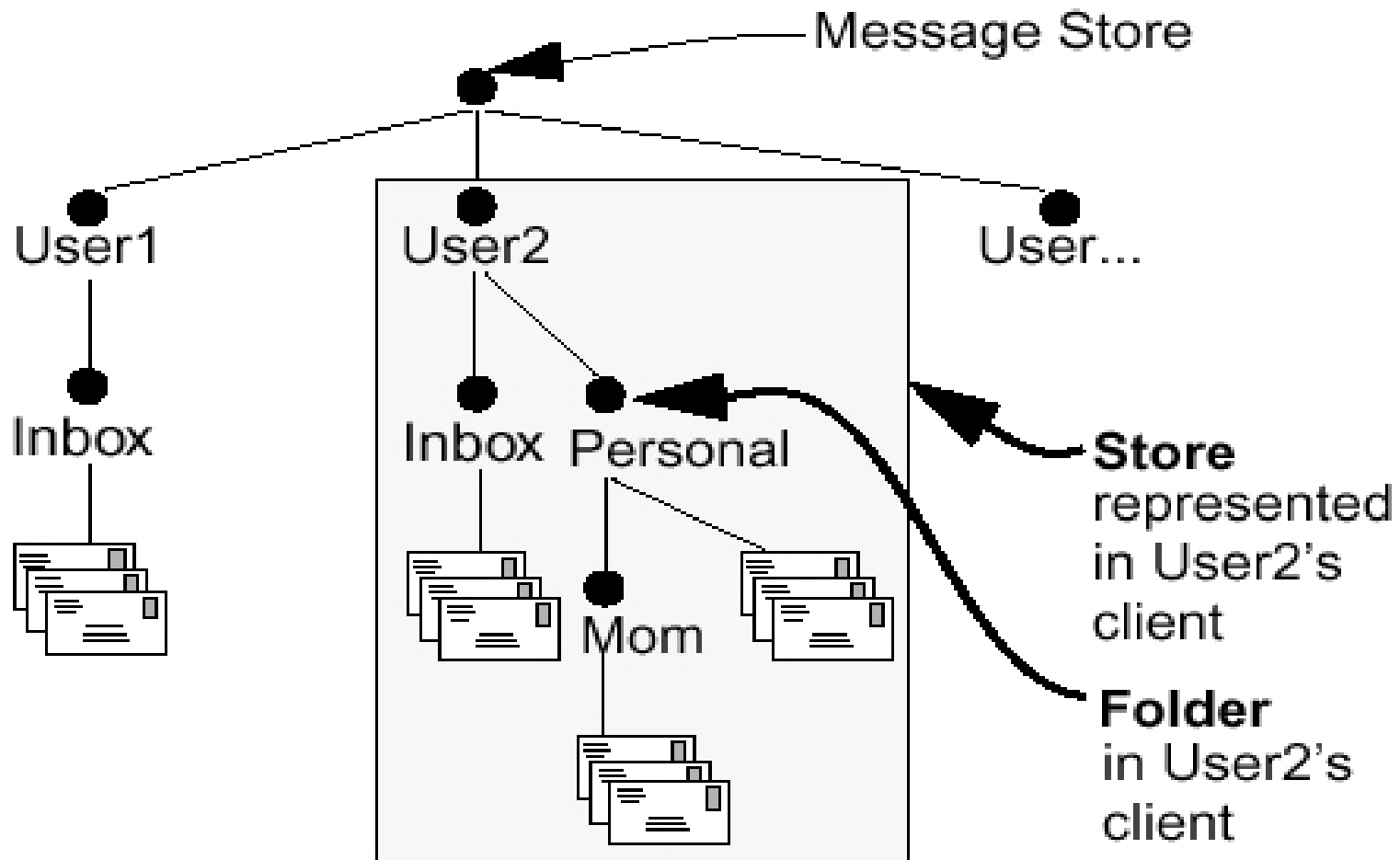
- RFC1730
- RFC2060

远程管理邮件和邮件夹

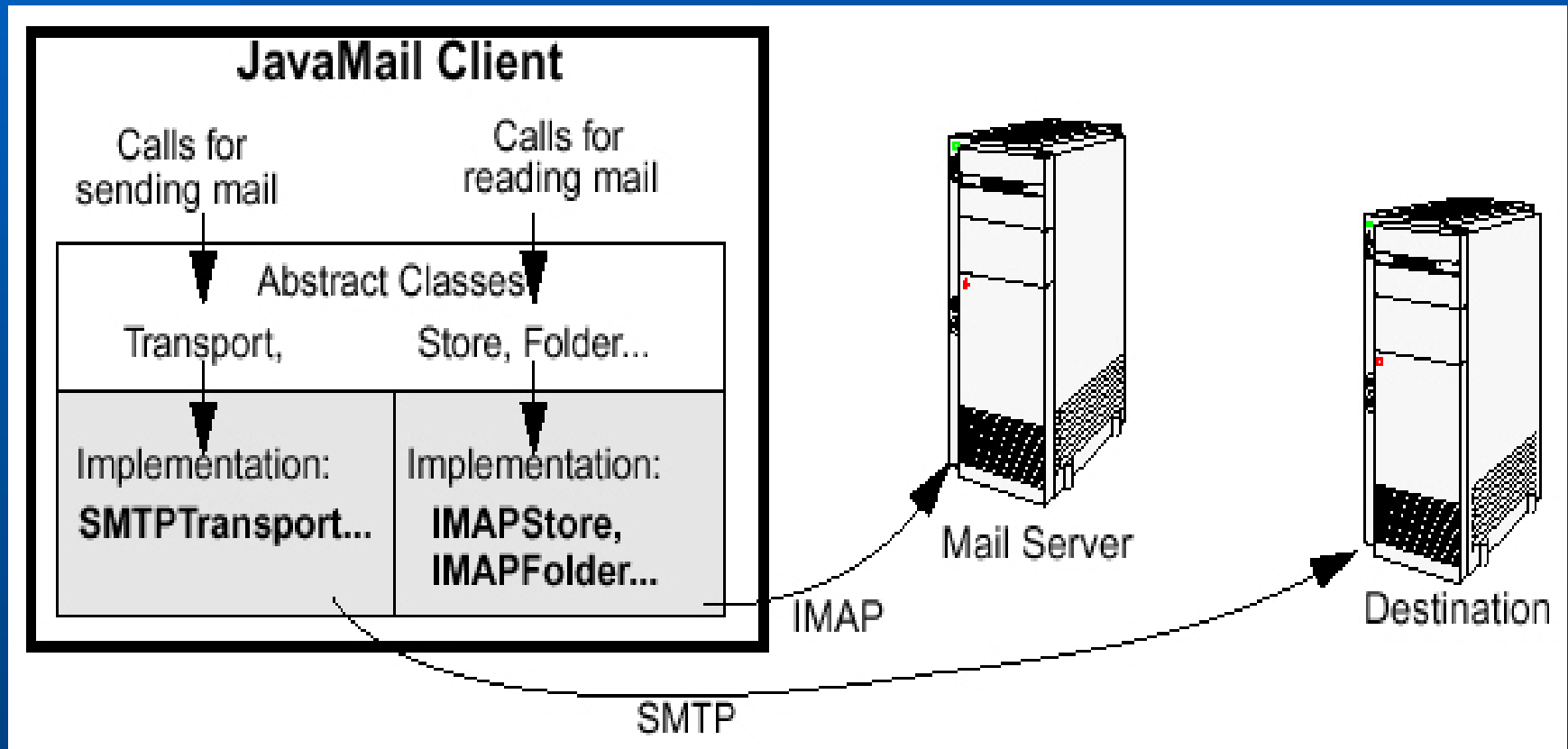
Java Mail Client



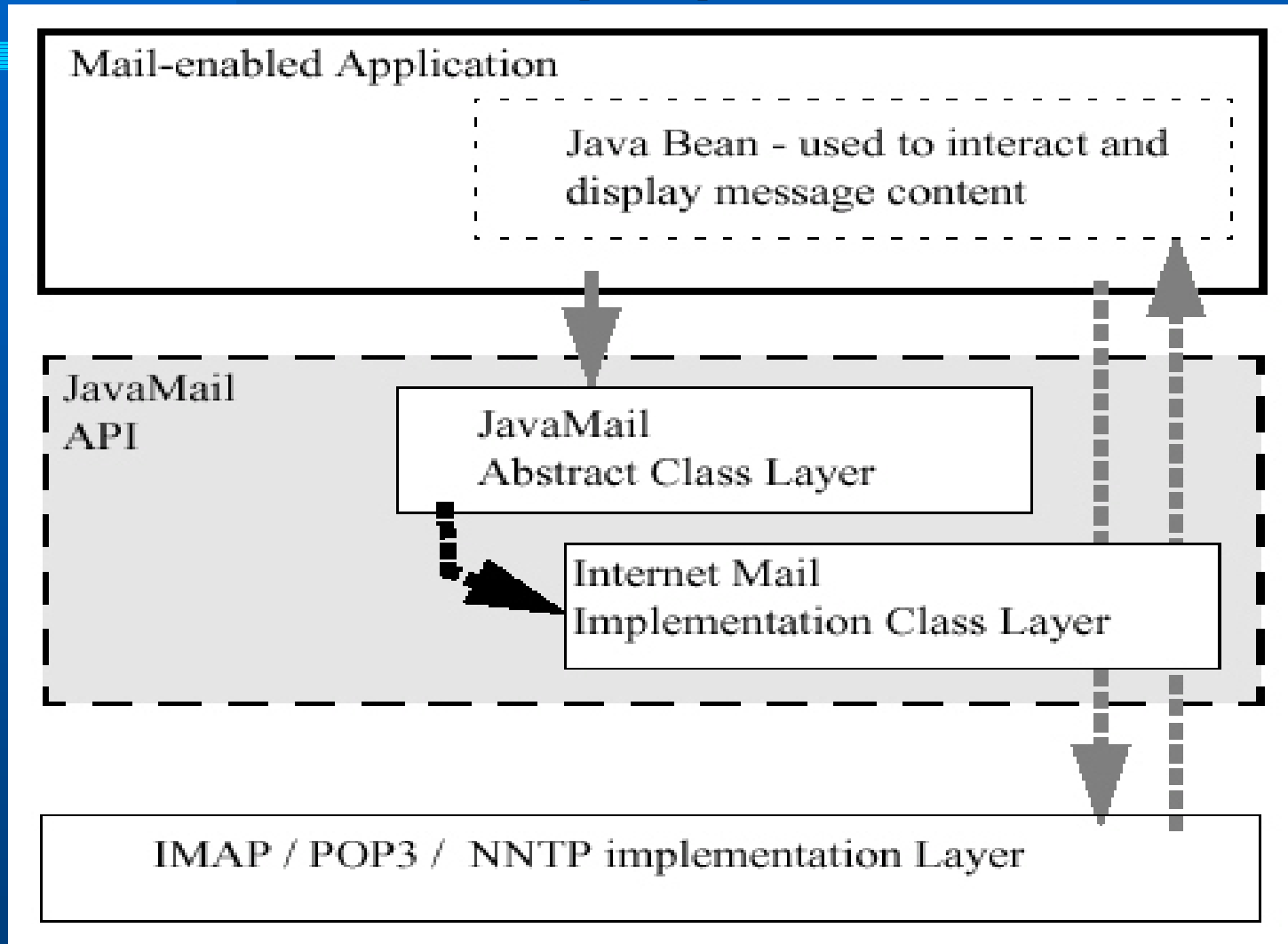
Store, Folder, Message



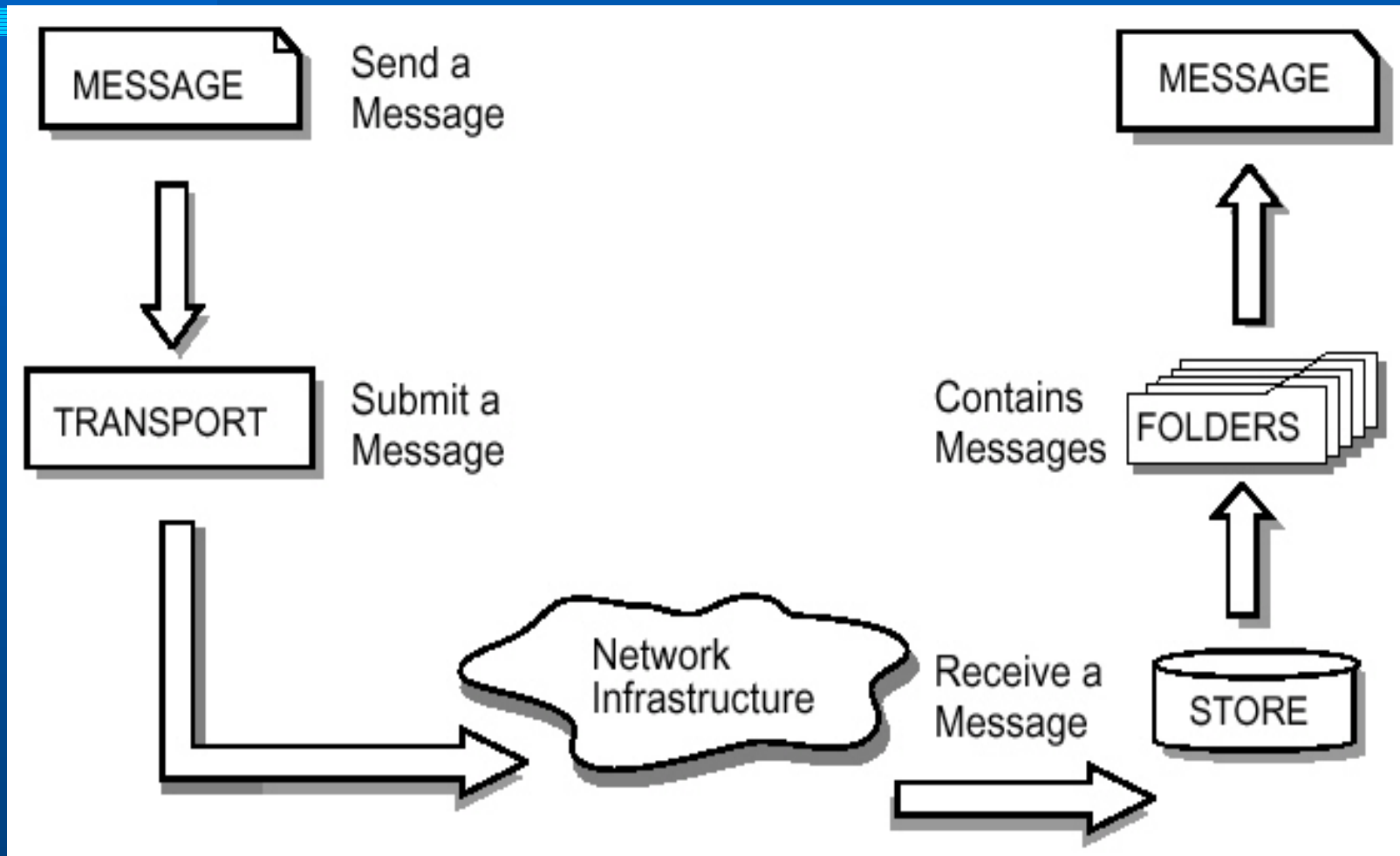
Java mail (1)



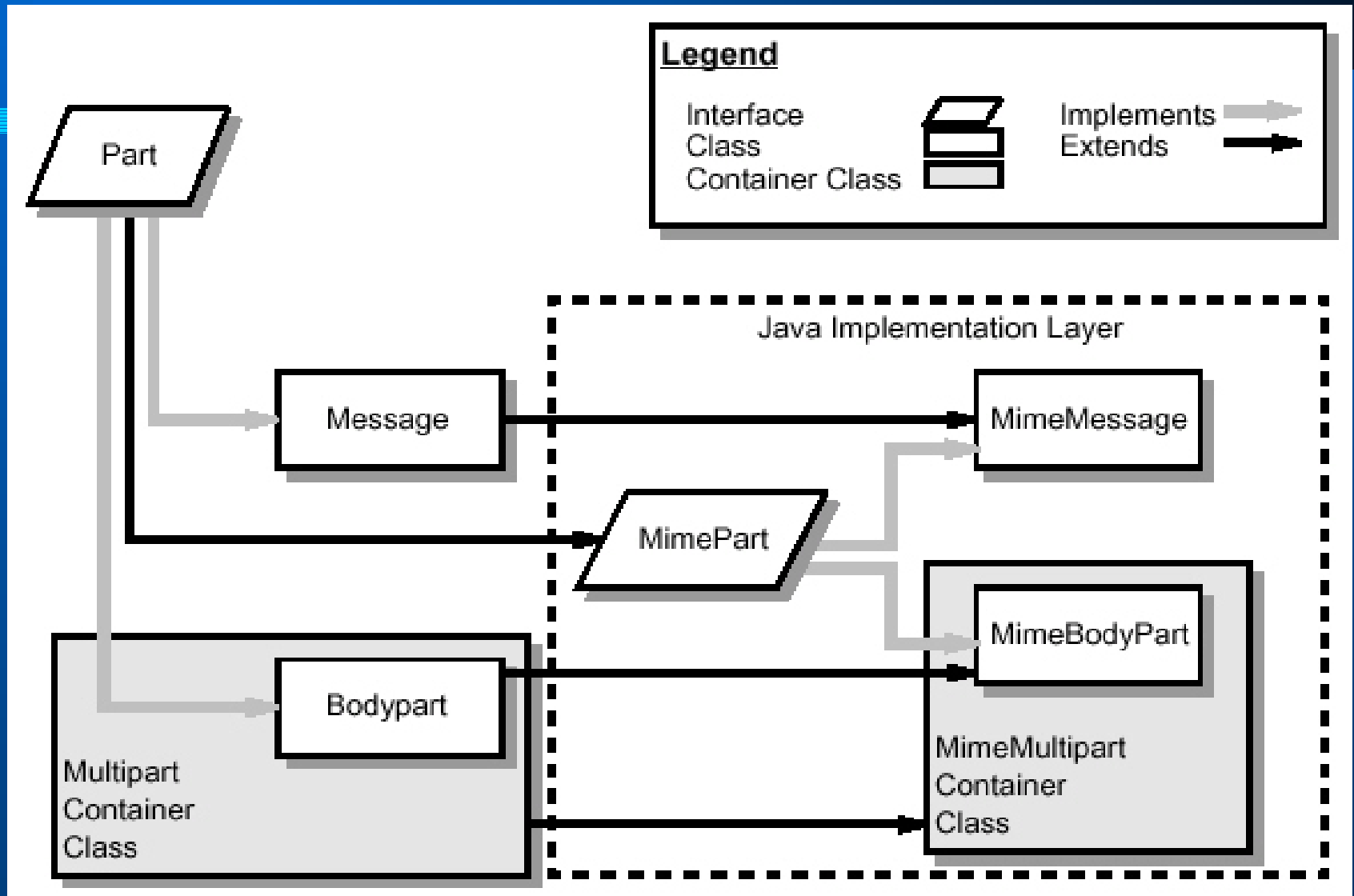
Java mail (2)



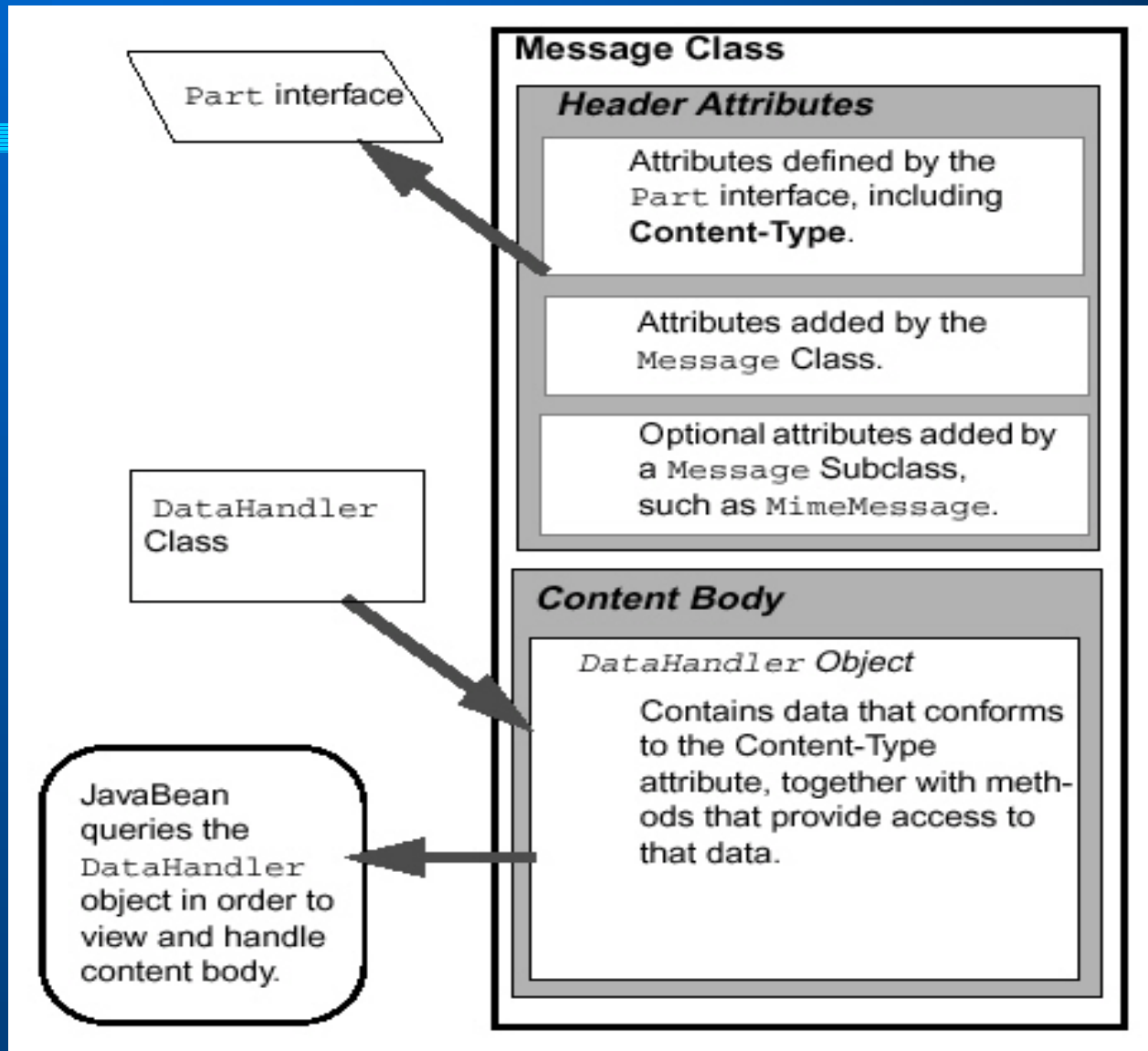
邮件处理过程



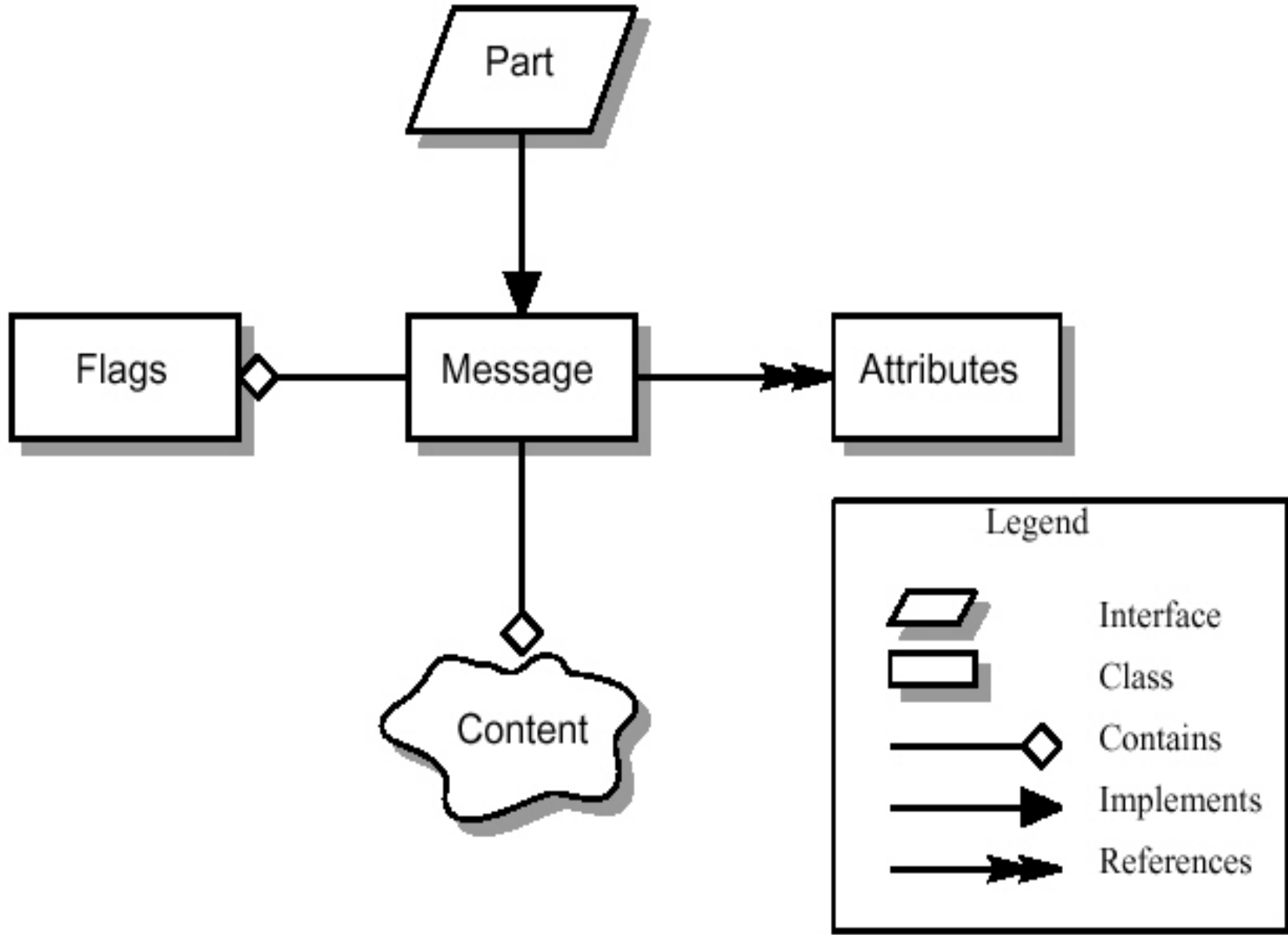
JavaMail 类的层次结构



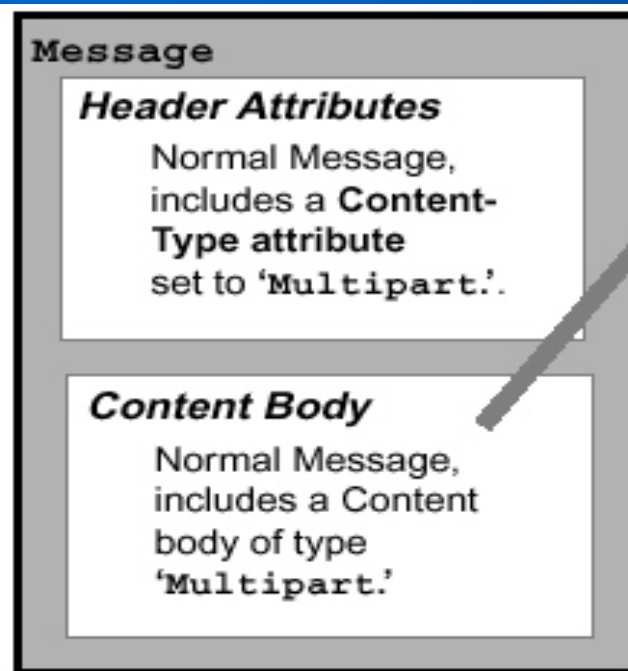
Message结构



Message层次关系

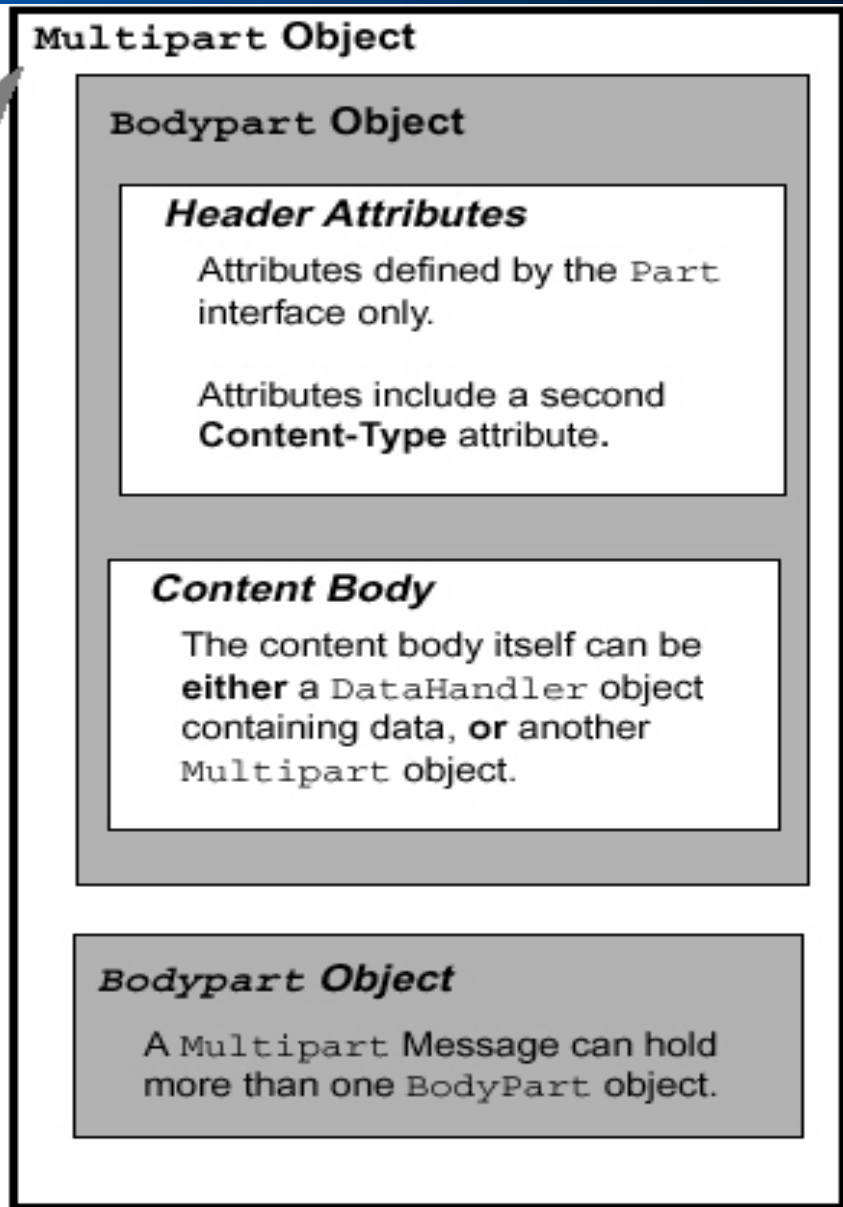


Multipart 结构

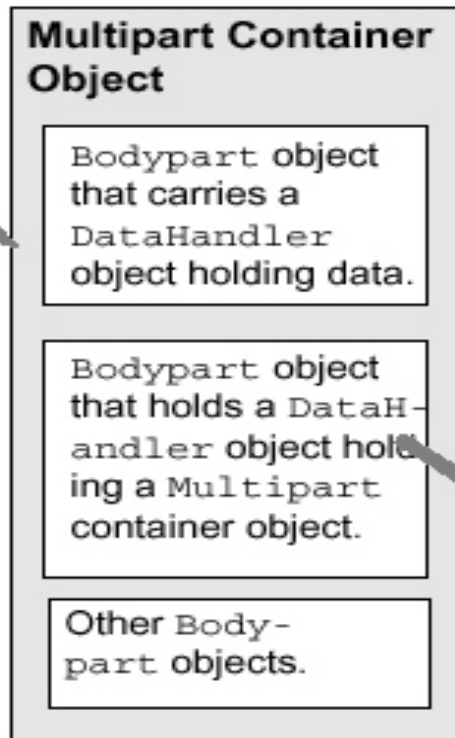
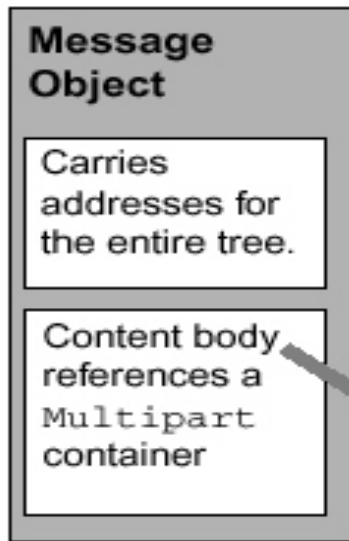


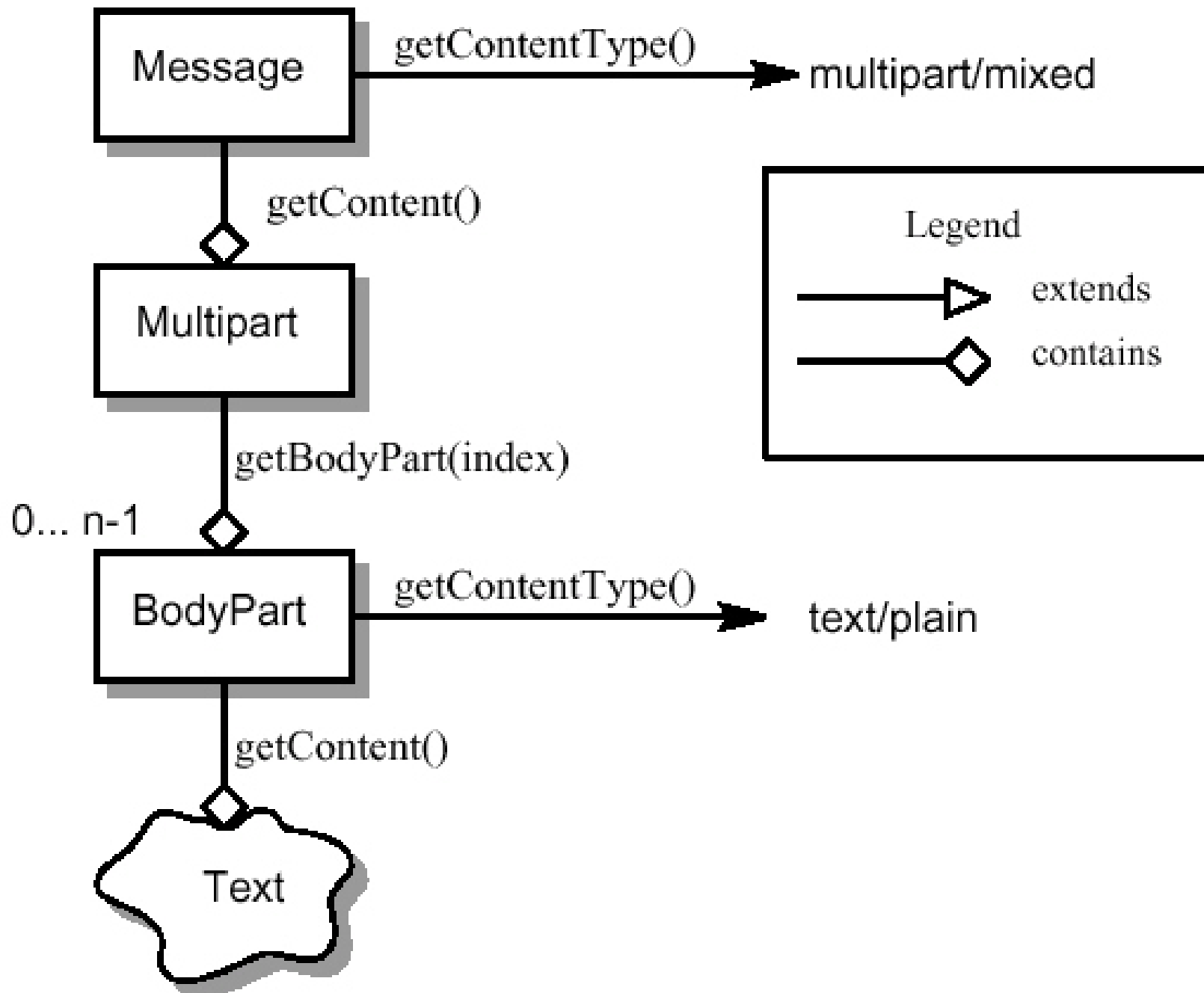
A **multipart message** is a simple message object where the Content-Type is set to 'multipart,' and the Content Body carries a reference to a **Multipart object**.

A **Multipart object** is a container of **Bodypart** objects, where each **Bodypart** can contain either a **DataHandler** object, or another **Multipart** object.

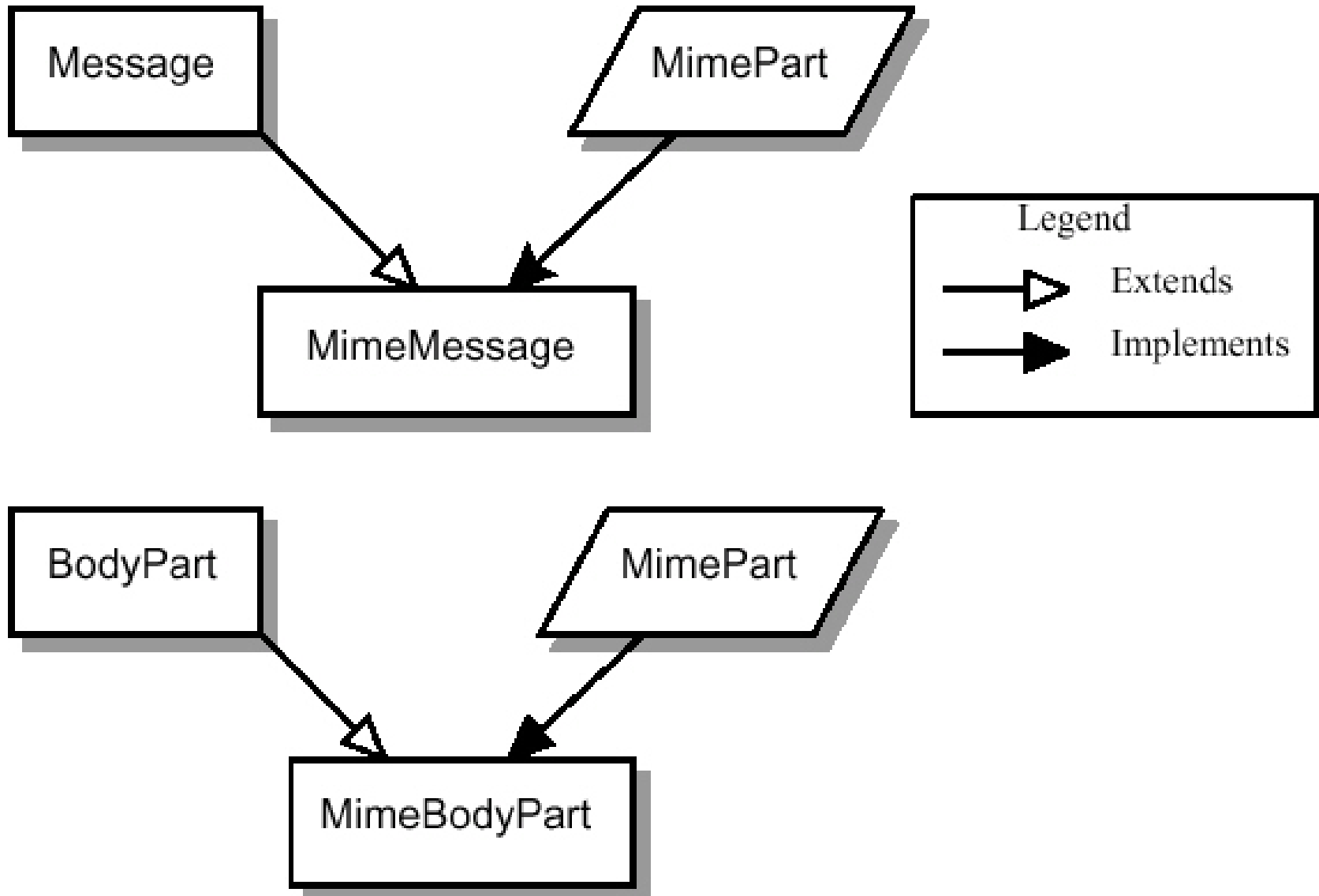


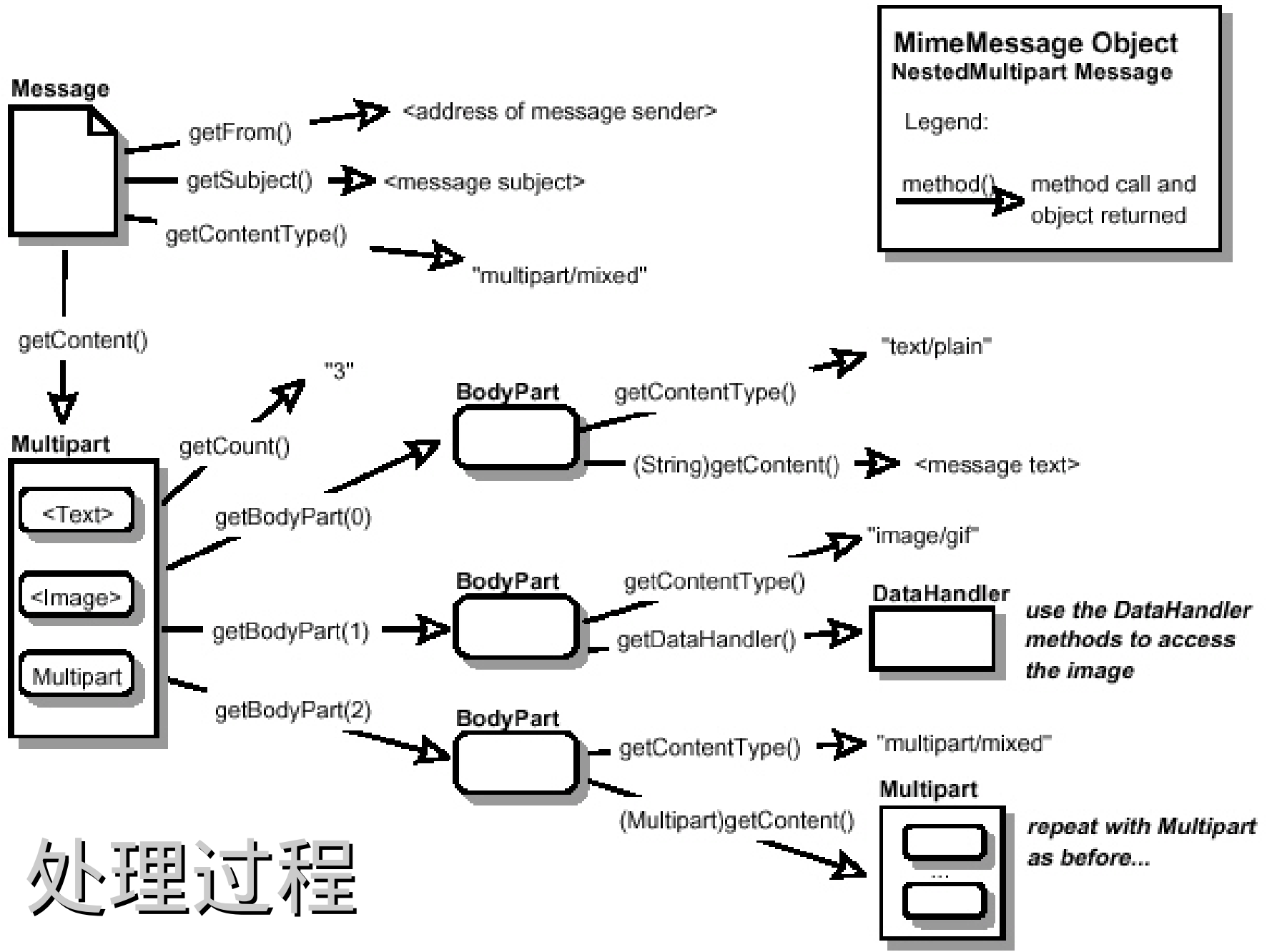
Multipart结构 (2)





MimeMessage



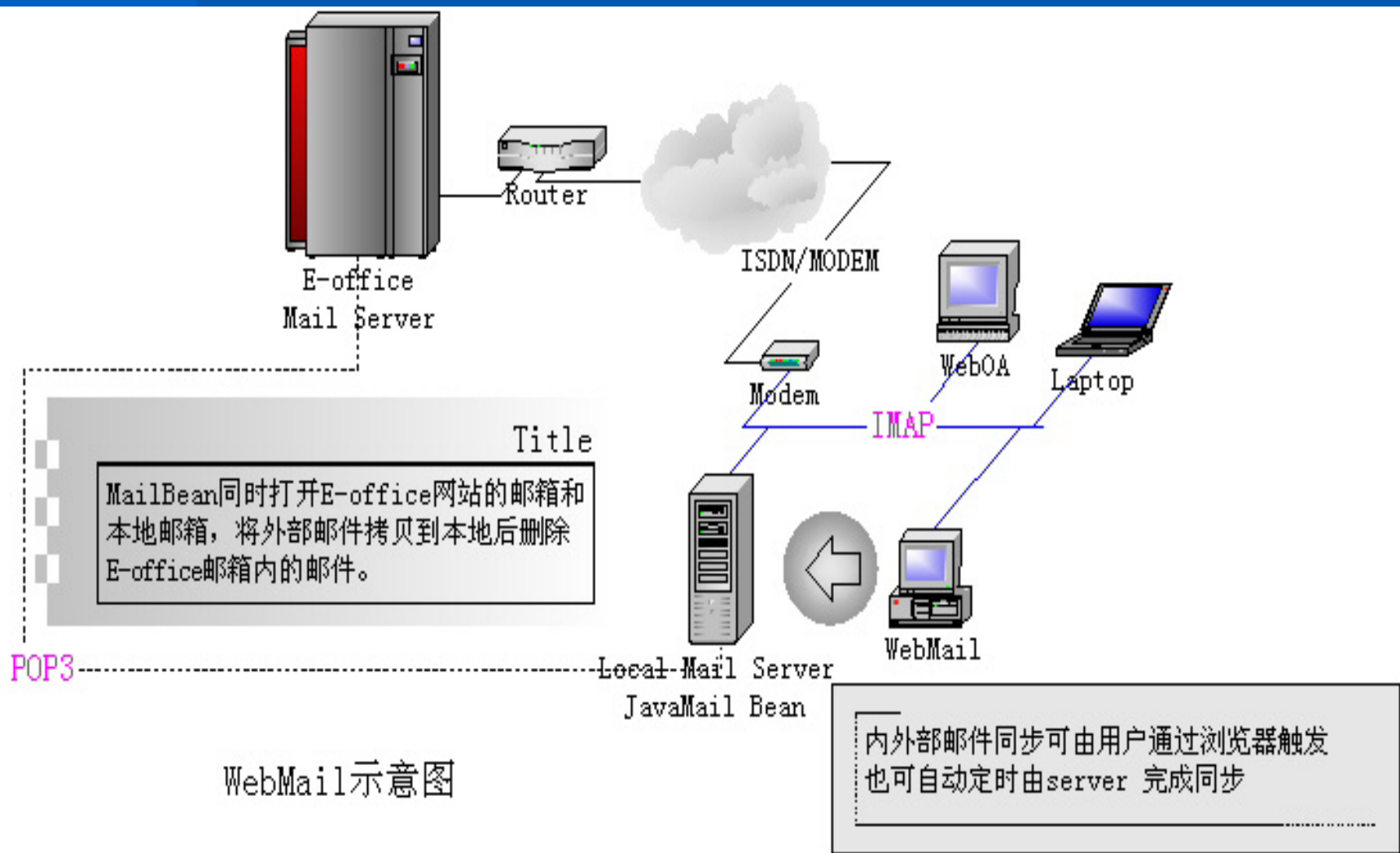


处理过程

Example



WebMail示意图



WebMail示意图

WebOA1.0 E-mail同步

