



L 'API JavaMail

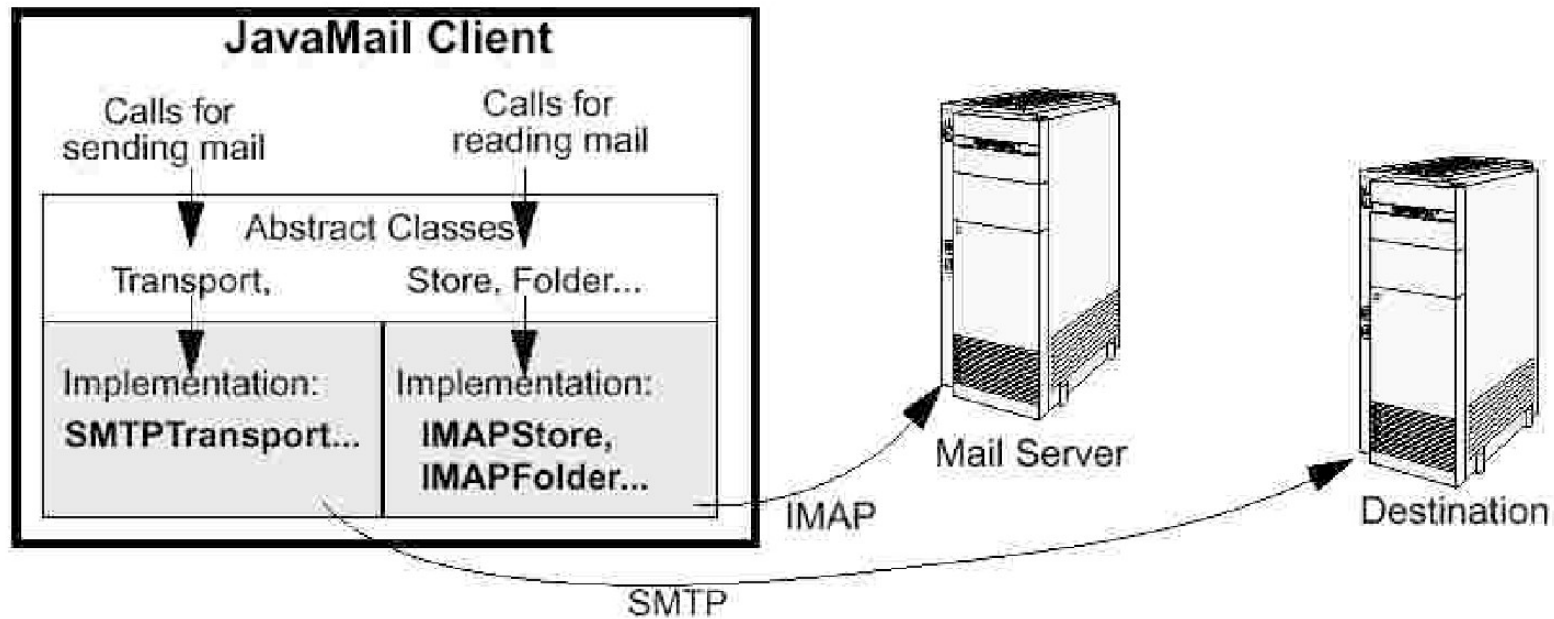


L'API JavaMail

Les classes

■ Couche d'abstraction

- indépendantes des protocoles (i.e. Provider) utilisés (SMTP, POP, IMAP, ...)



JavaMail

Exemple

■ Ouvrir une session

```
Properties props = new Properties();  
props.put("mail.smtp.host", _smtpHost);  
Session session = Session.getDefaultInstance(props, null);
```

■ Créer un message

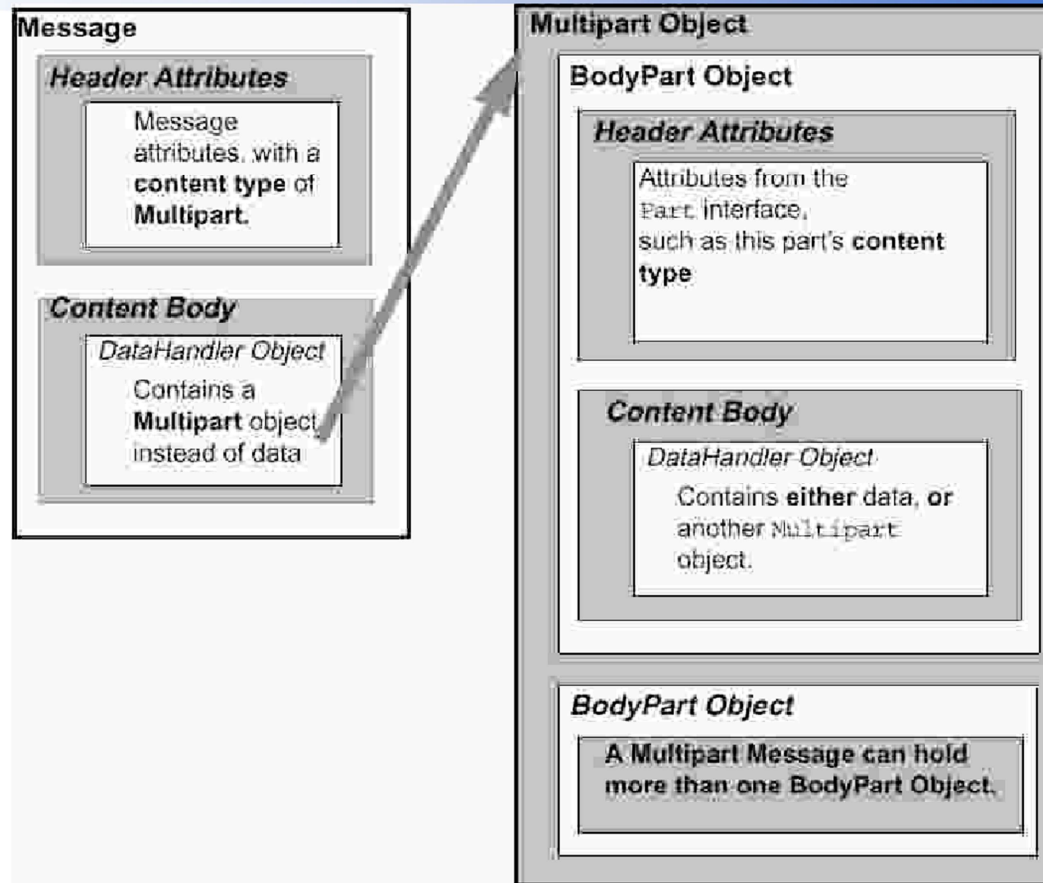
```
Message msg = new MimeMessage(session);  
msg.setFrom(new InternetAddress("SantaClaus@christmas.org"));  
msg.setRecipient(Message.RecipientType.TO, new InternetAddress(_toList));  
msg.setSubject(" Happy Christmas");  
msg.setText(" Dear "+emailaddress+"\nHappy Christmas !");
```

■ Envoyer un message

```
Transport transport = session.getTransport(SMTP_MAIL);  
transport.connect(_smtpHost, _user, _password);  
transport.sendMessage(msg, _toList);
```

JavaMail

Les Messages



JavaMail

Exemple

■ Création d'un message

```
MimeMessage createMessage( Session session, String emailaddress) {  
    MimeMessage msg = new MimeMessage( session);  
    msg.setFrom("SantaClaus");  
    msg.setSubject(" Happy Christmas");  
    InternetAddress a = new InternetAddress(emailaddress);  
    msg.setRecipient(Message.RecipientType.TO, a);  
    msg. setText(" Dear "+emailaddress+"\nHappy Christmas !");  
    return msg;  
}
```

JavaMail

Exemple

■ Creation d 'un message multipart

```
MimeMessage createMultipartMessage(Session session) {  
    MimeMessage msg = new MimeMessage( session);  
    ...  
    ...  
    MimeBodyPart bp1 = new MimeBodyPart();  
    bp1. setText(" Bodypart 1");  
    MimeBodyPart bp2 = new MimeBodyPart();  
    bp2. setText(" Bodypart 2");  
    MimeMultipart mp = new MimeMultipart()  
    mp. addBodyPart( bp1);  
    mp. addBodyPart( bp2);  
    msg. setContent( mp);  
    return msg;  
}
```

JavaMail

Exemple

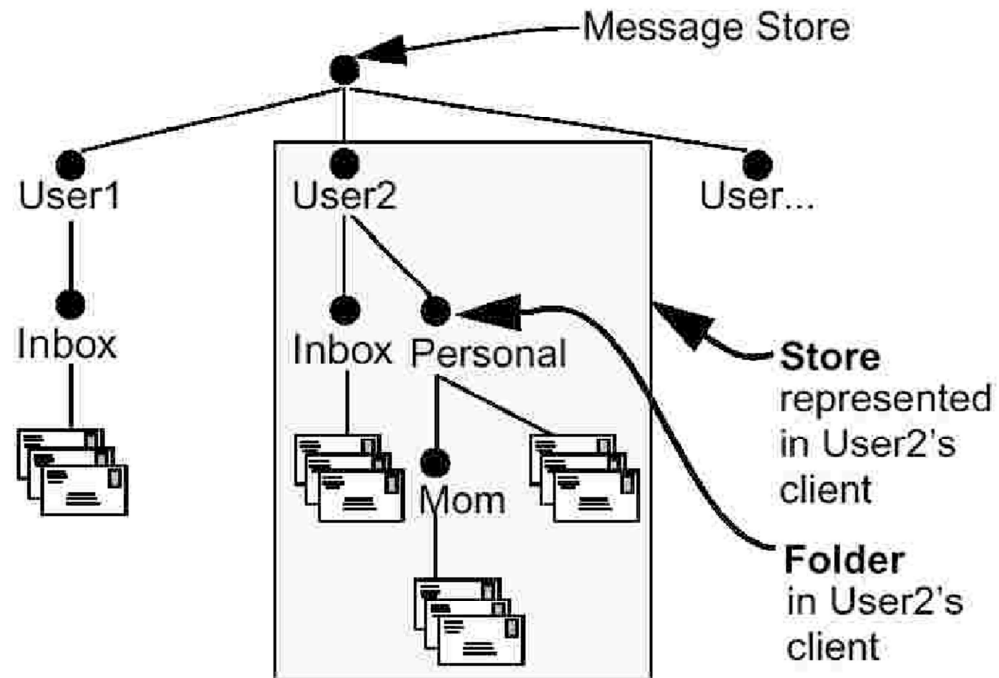
■ Affichage d'un message

```
void displayMessage( Message msg) {
    printString( msg.getSubject() );
    printAddress( msg.getFrom() );
    displayPart( msg);
}

void displayPart( Part p) {
    printString( p. getContentType());
    if (p. isMimeType(" multipart/*")) {
        Multipart mp = p. getContent();
        for (int i = 0; i < mp. getCount(); i++)
            displayPart( mp. getBodyPart( i) ); // Récuratif
    } else {
        InputStream is = p. getInputStream(); printStream(is);
    }
}
```

JavaMail

Les Folders



JavaMail

Exemple

■ Consultation des messages d'un dossier

```
void fetchMessage( Session session, URLName urlName, String foldername) {  
    Store store = session. getStore(urlName);    store. connect();  
    Folder folder = store. getFolder(foldername);  
    folder. open( Folder. READ_ ONLY);  
    int count = folder. getMessageCount();  
    for (int i = 1; i <= count; i++) {  
        Message msg = folder.getMessage( i); displayMessage( msg);  
    }  
    folder. close( false); store. close();  
} ...  
URLName url = new URLName("pop3", "pop.myisp.com", 110, "", user, password);  
fetchMessage(session, url, "INBOX");
```

JavaMail

Exemple

■ Effacement des messages d'un dossier

```
void deleteMessage( Session session, URLName urlName) {  
    Store store = session.getStore(urlName);  
    store.connect();  
    Folder inbox = store.getFolder("DRAFT");  
    inbox.open(Folder.READ_WRITE)  
    int count = inbox.getMessageCount();  
    for(int i = 1; i <= count; i++) {        Message m = inbox.getMessage(i);  
                                            m.setFlag(Flags.Flag.DELETED,true);  
    }  
    inbox.expunge();  
    inbox.close(true);  
    store.close();  
}
```

JavaMail

Exemple

■ Recherche de messages sur le serveur

```
// public Message[] Folder.search(SearchTerm term)
SearchTerm term=new AndTerm(new SubjectTerm("Deadline"),
                             new FromTerm("Manager"));
Message[] msgs=folder.search(term);
```

JavaMail

Exemple

■ Récupération du contenu partiel des messages sur le serveur

```
Message[] messages = folder.getMessages();
FetchProfile fp = new FetchProfile();
fp.add(FetchProfile.Item.ENVELOPE);
    // principaux attributs From, To, Cc, Bcc, Reply-To, Subject, SentDate.
fp.add(FetchProfile.Item.FLAGS);
    // ANSWERED, DELETED, DRAFT, FLAGGED, RECENT, SEEN, USER.
fp.add("X-Mailer");
folder.fetch(messages, fp);
```