

Réseaux Multimédia

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Toutes les illustrations

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Contenu

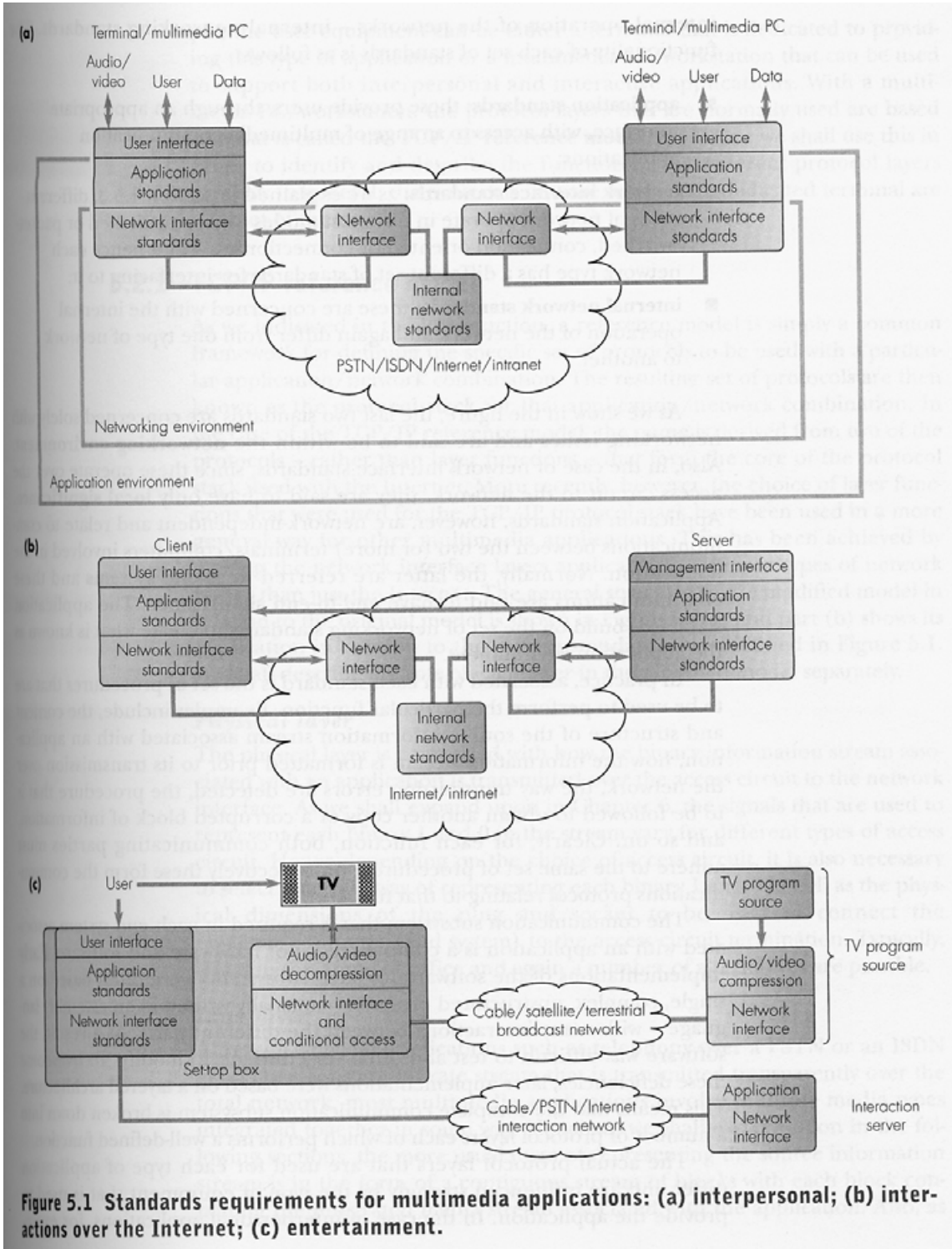
- Représentation des informations multimédia
 - Numérisation
 - Structure d'un encodeur
 - Structure d'un décodeur
 - Représentation du texte, des images et de l'audio/vidéo
- Compression du texte et des images
- Compression audio et vidéo
- Standards pour les communications multimédia

Partie 4

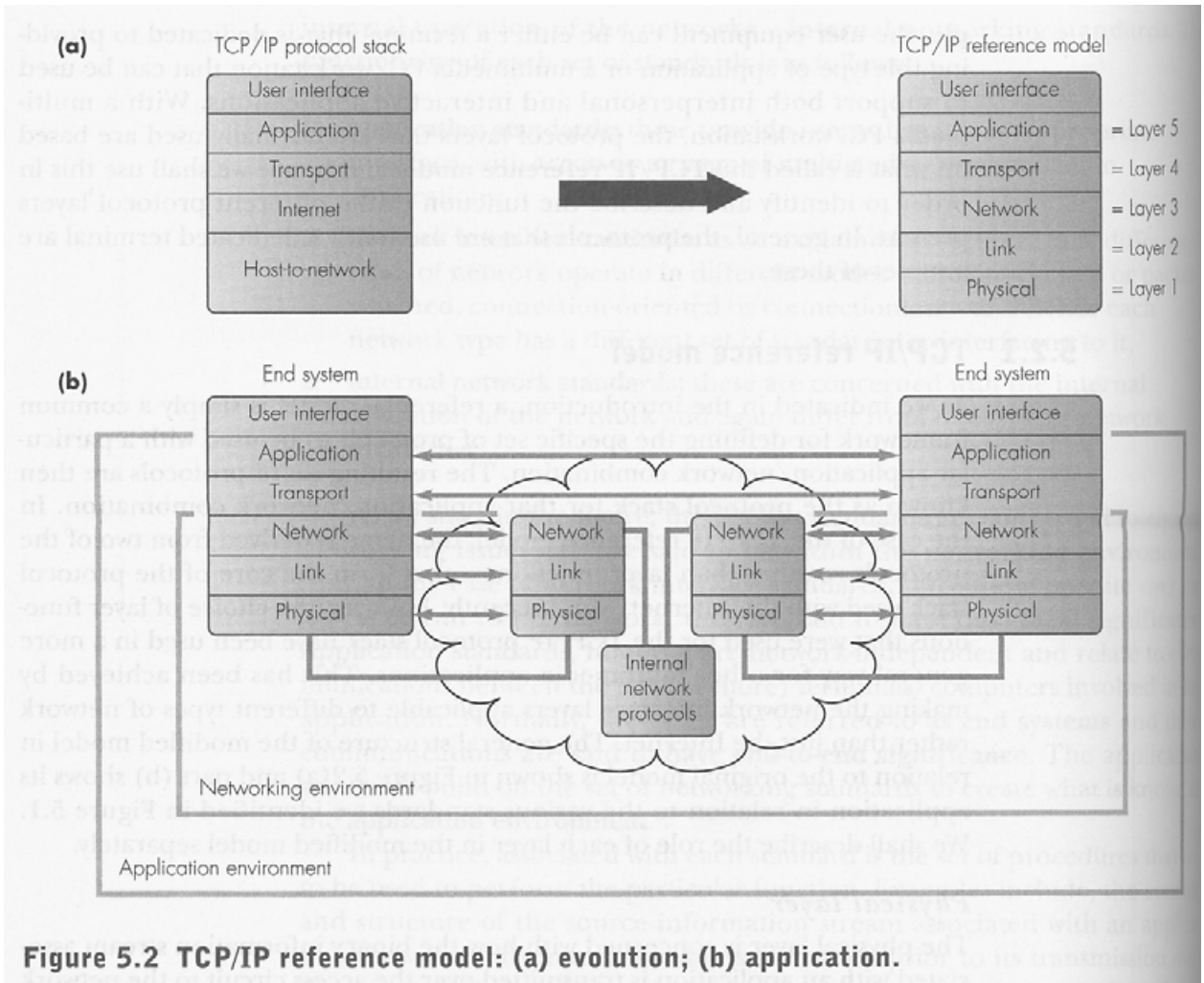
Standards pour les
communications multimédia

Architecture

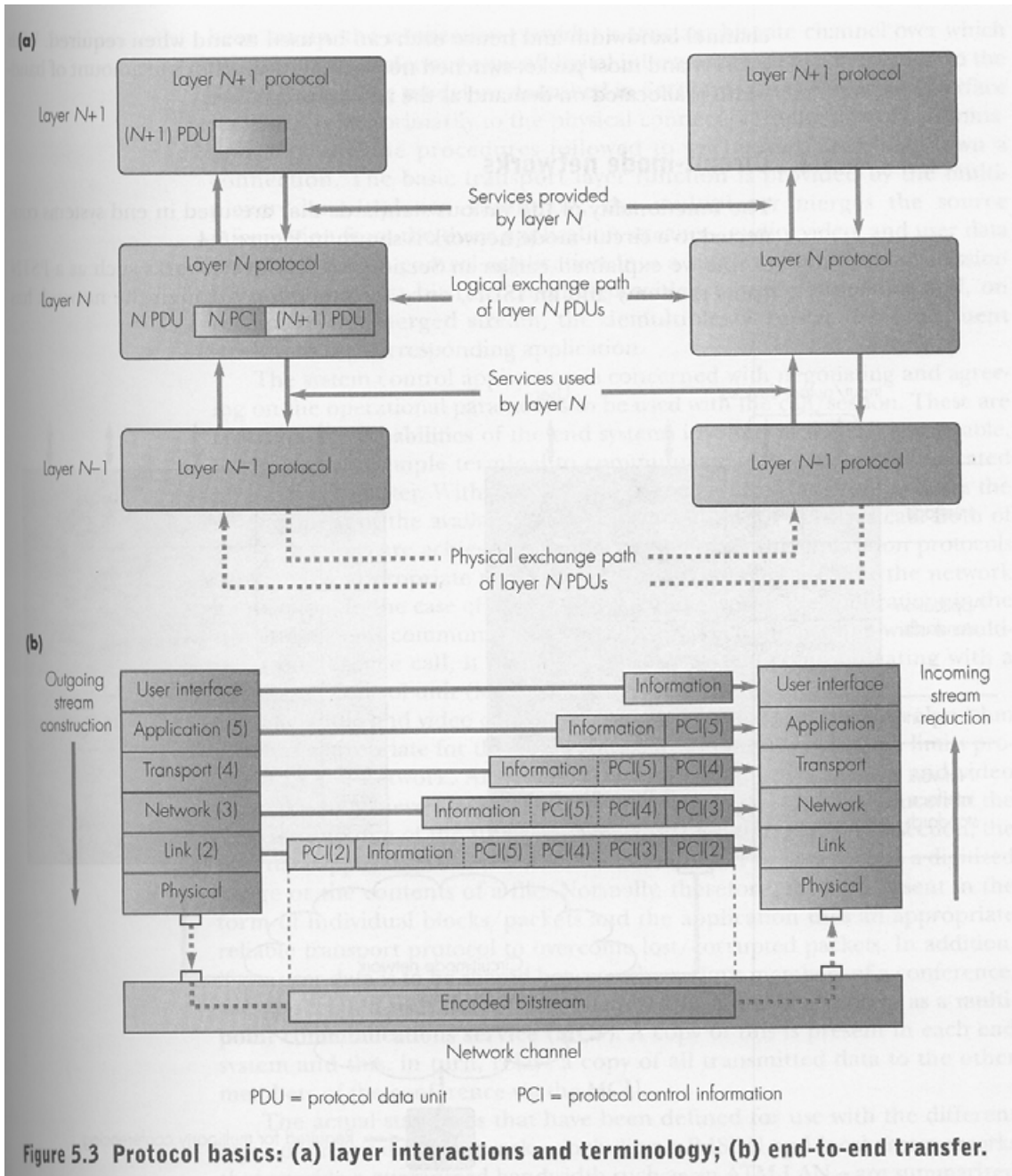
- Réseau de communication :
 - Téléphone (PSTN)
 - ISDN
 - Cable
 - Telediffusion terrestre/satellite
 - Radiodiffusion
 - Internet
- Applications multimedia
 - Audio
 - Video
 - Interactif
 - Données



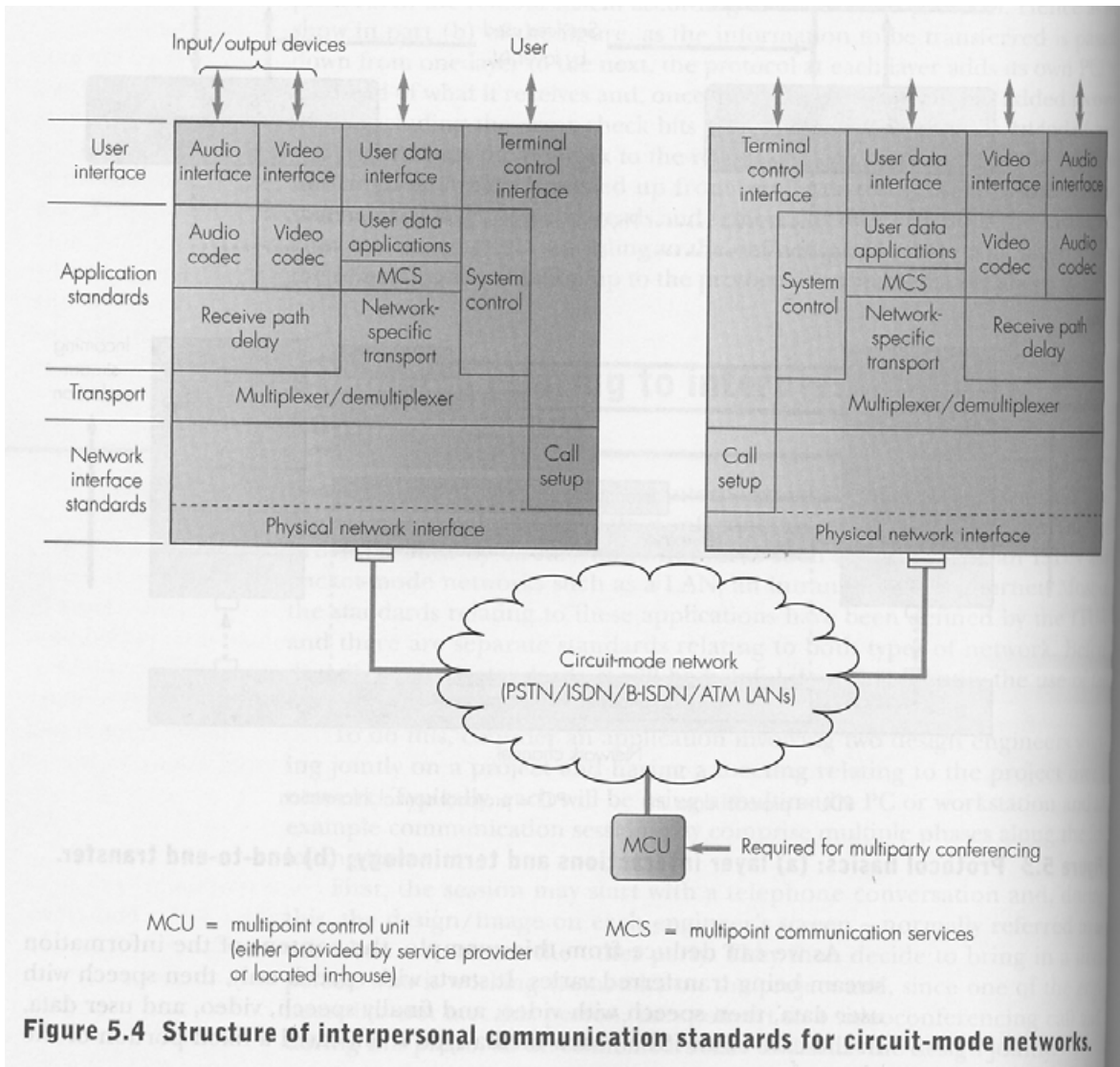
Modèle Internet et OSI



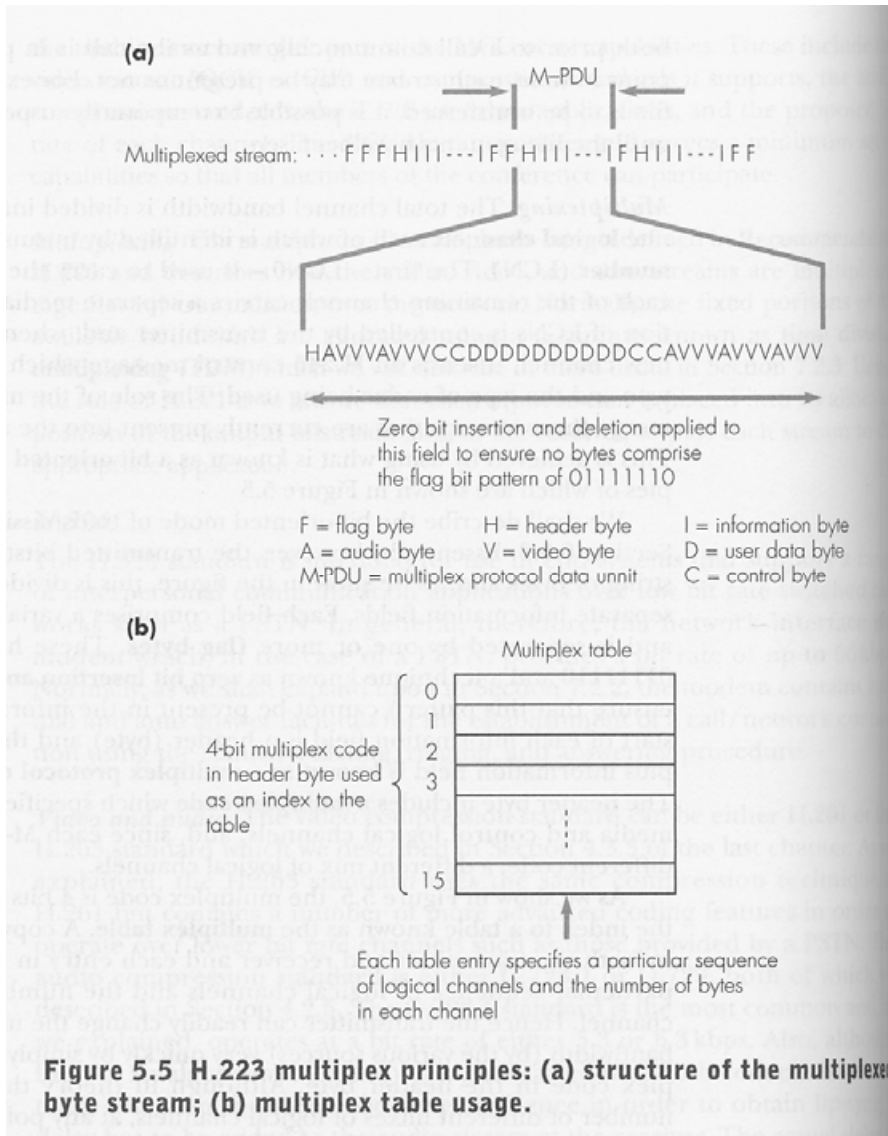
Modèle en couches



Architecture dans les réseaux à commutation de circuits



Protocole H.223



Protocole H.323

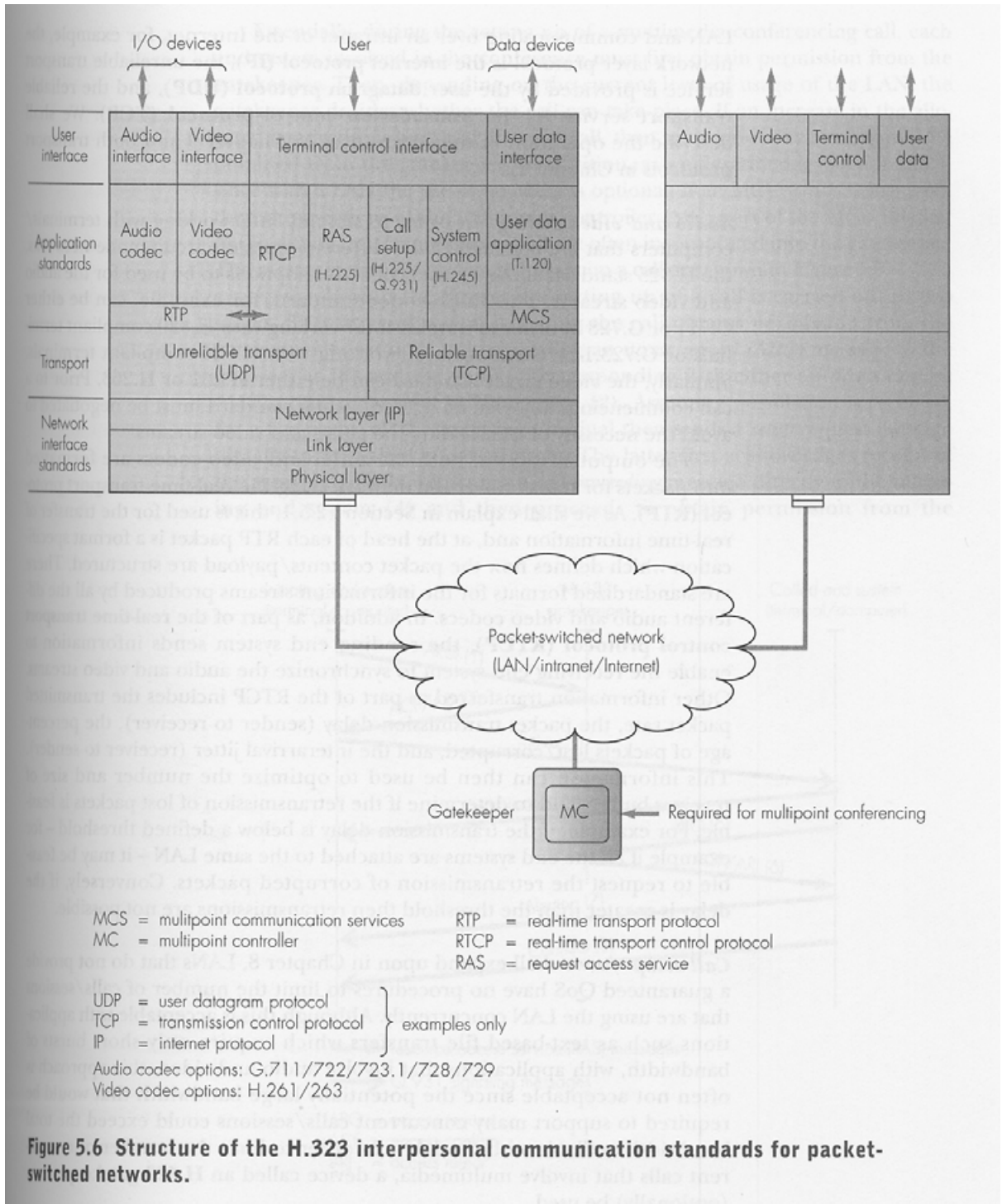
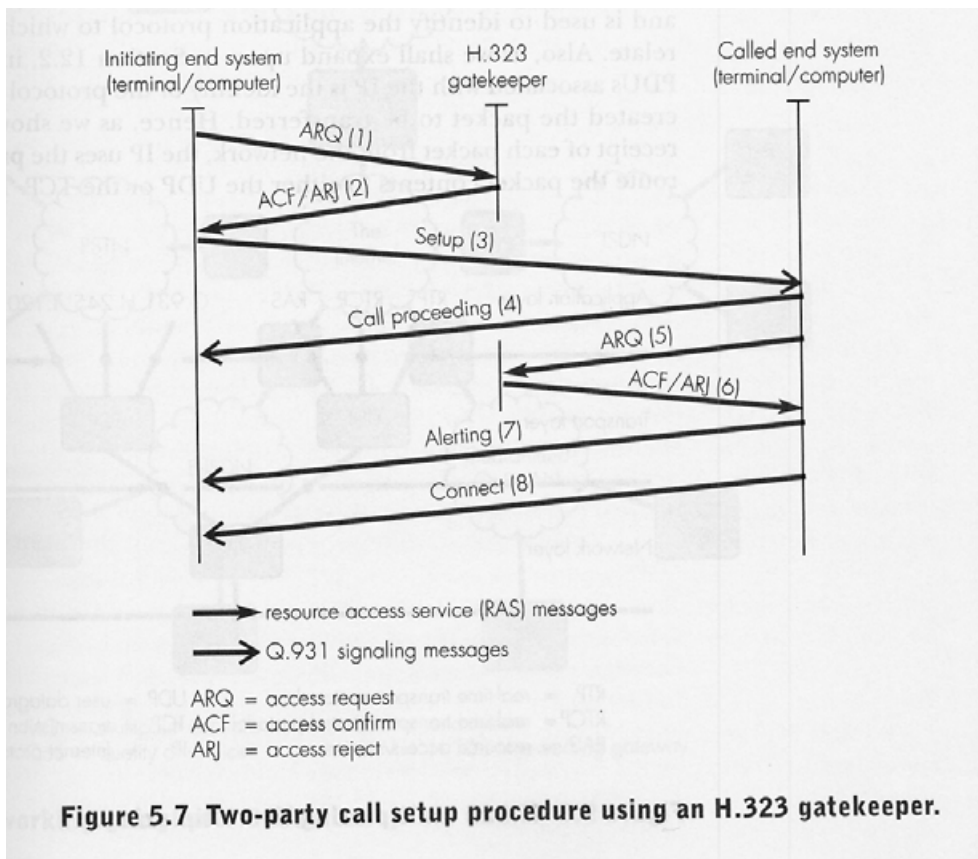
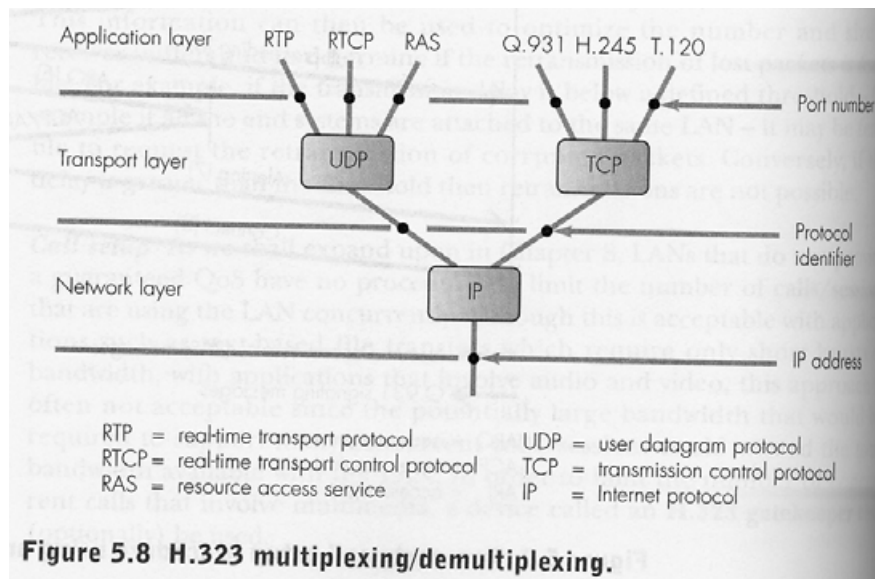


Figure 5.6 Structure of the H.323 interpersonal communication standards for packet-switched networks.

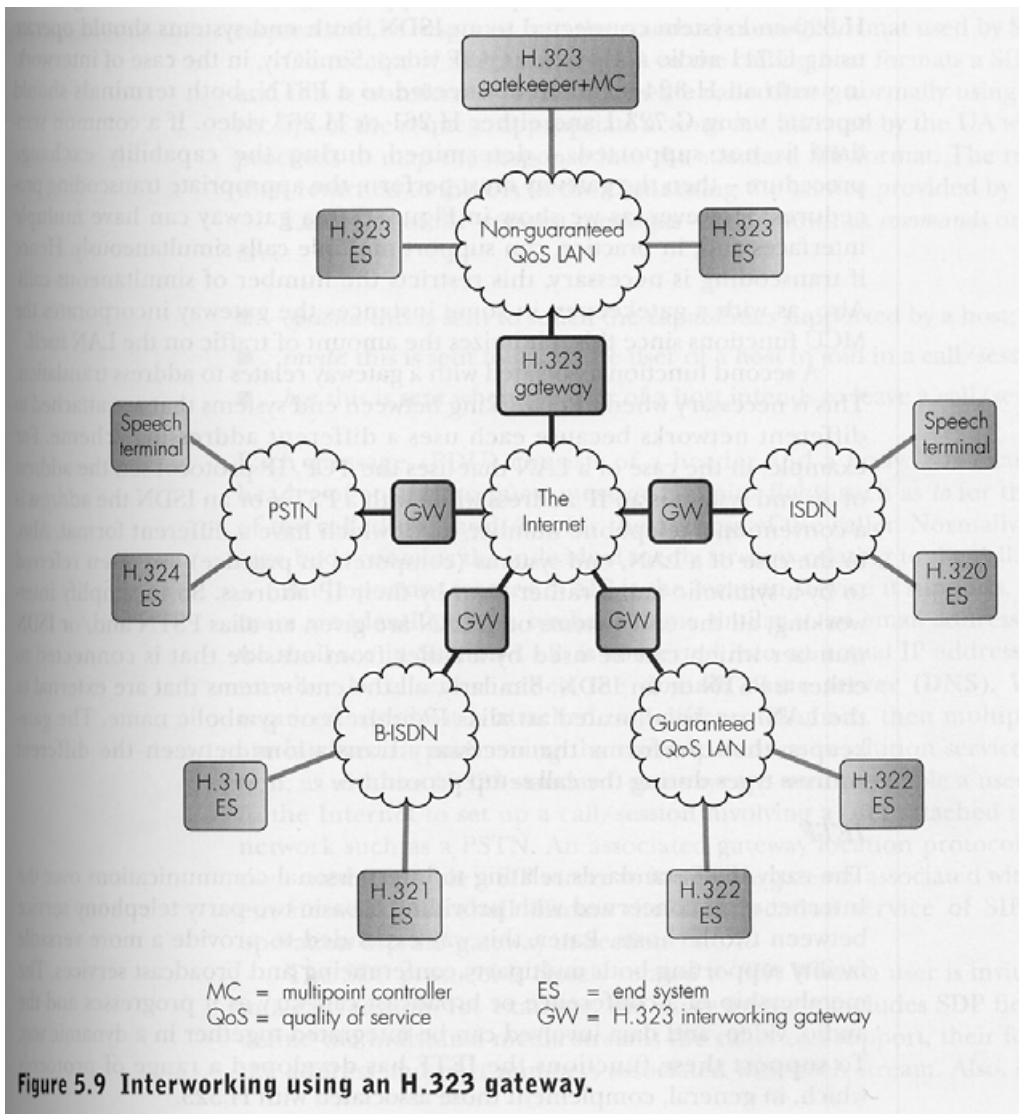
Procédure d'appel en H.323



Multiplexage applicatif



Architecture H.323



Courrier électronique

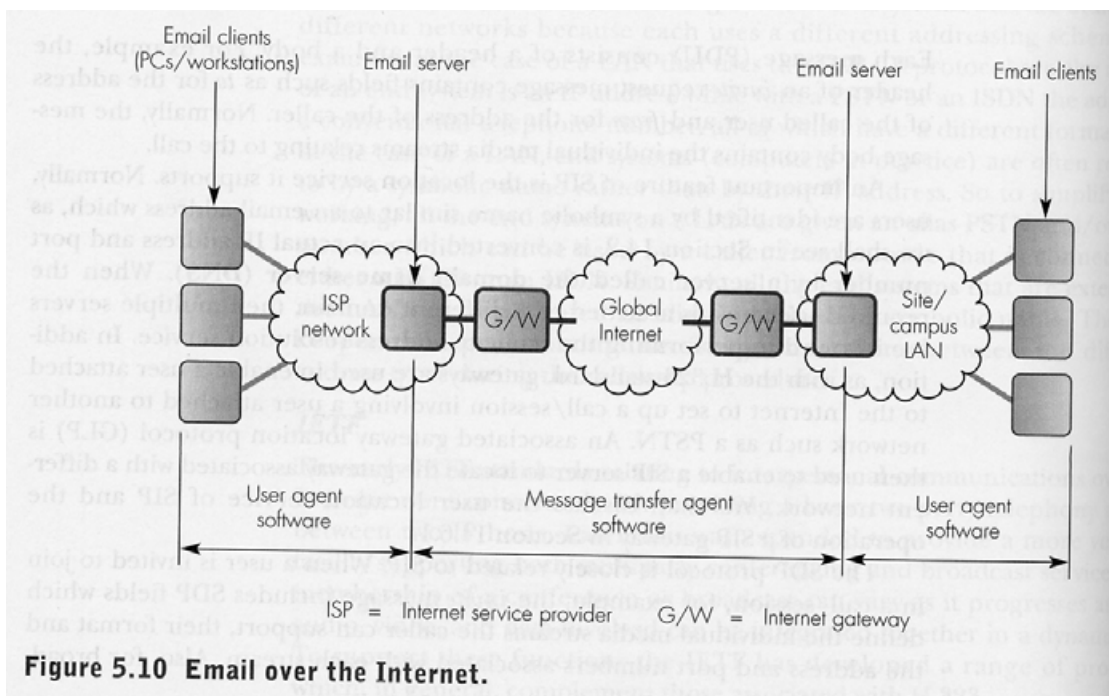
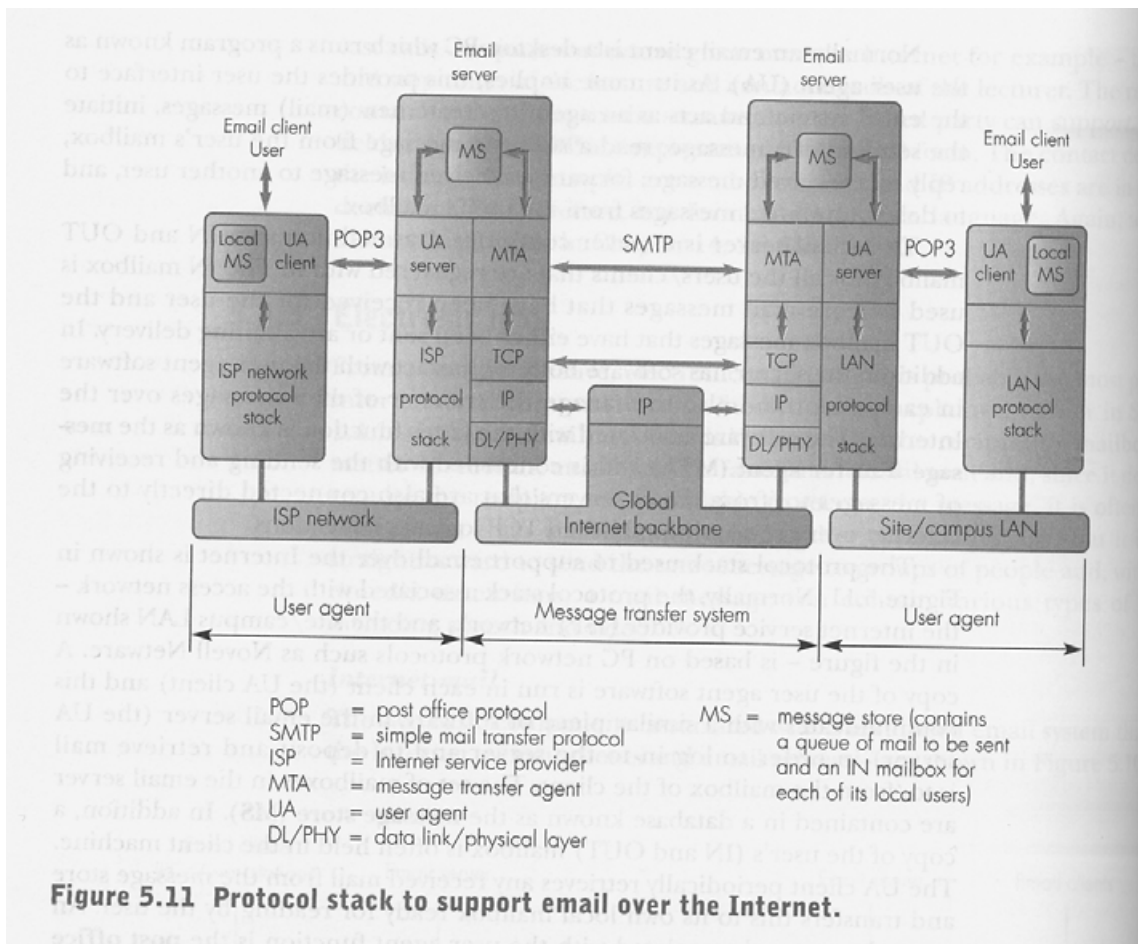
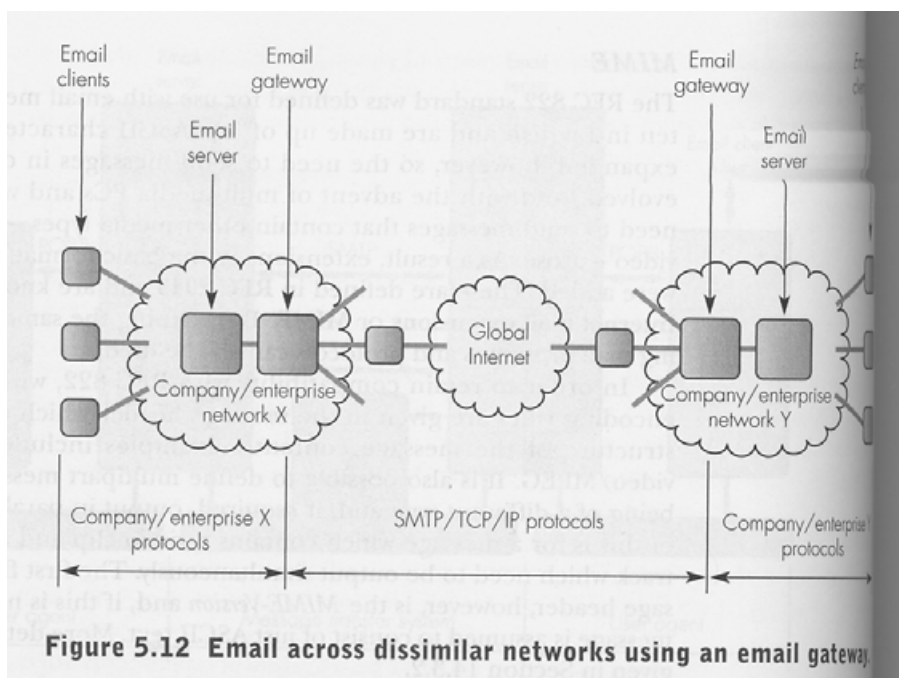


Figure 5.10 Email over the Internet.

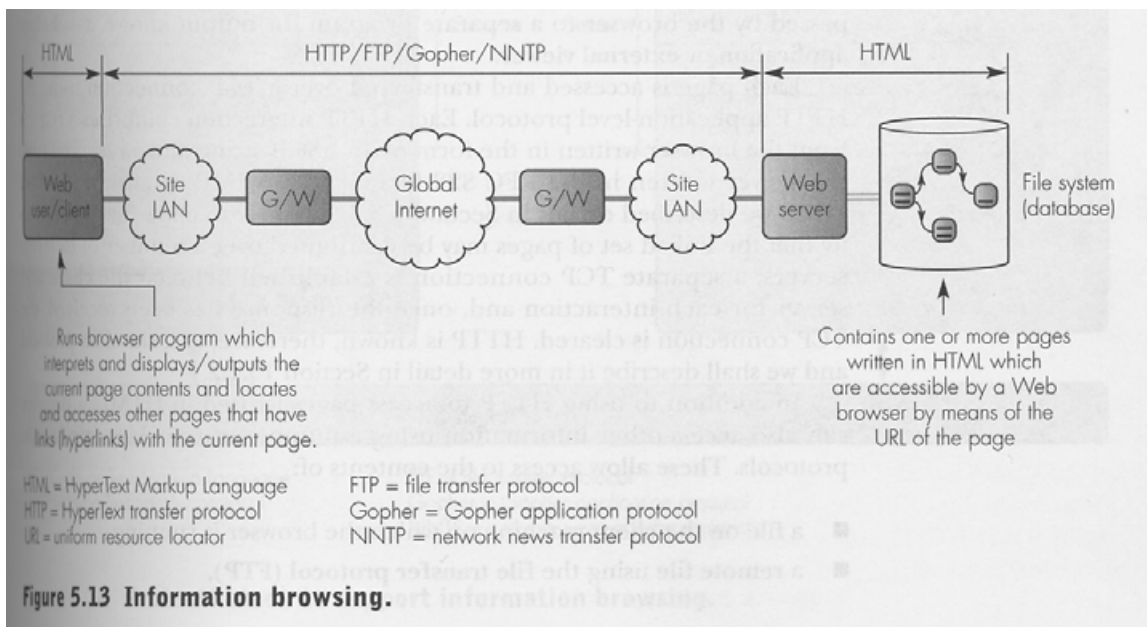
Protocoles utilisés pour le courrier électronique



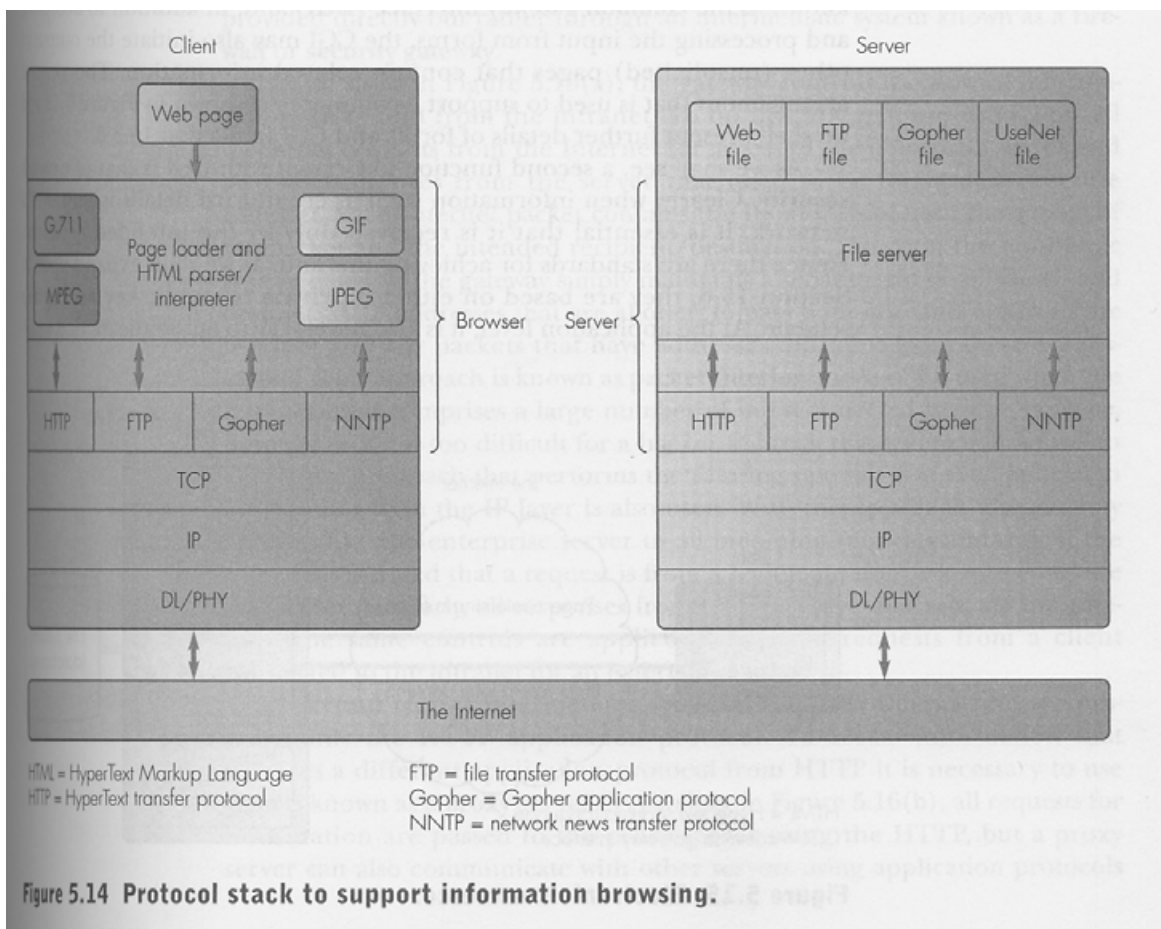
Passerelles de messagerie électronique



Recherche d'informations



Protocoles utilisés pour la recherche d'informations



Applets JAVA

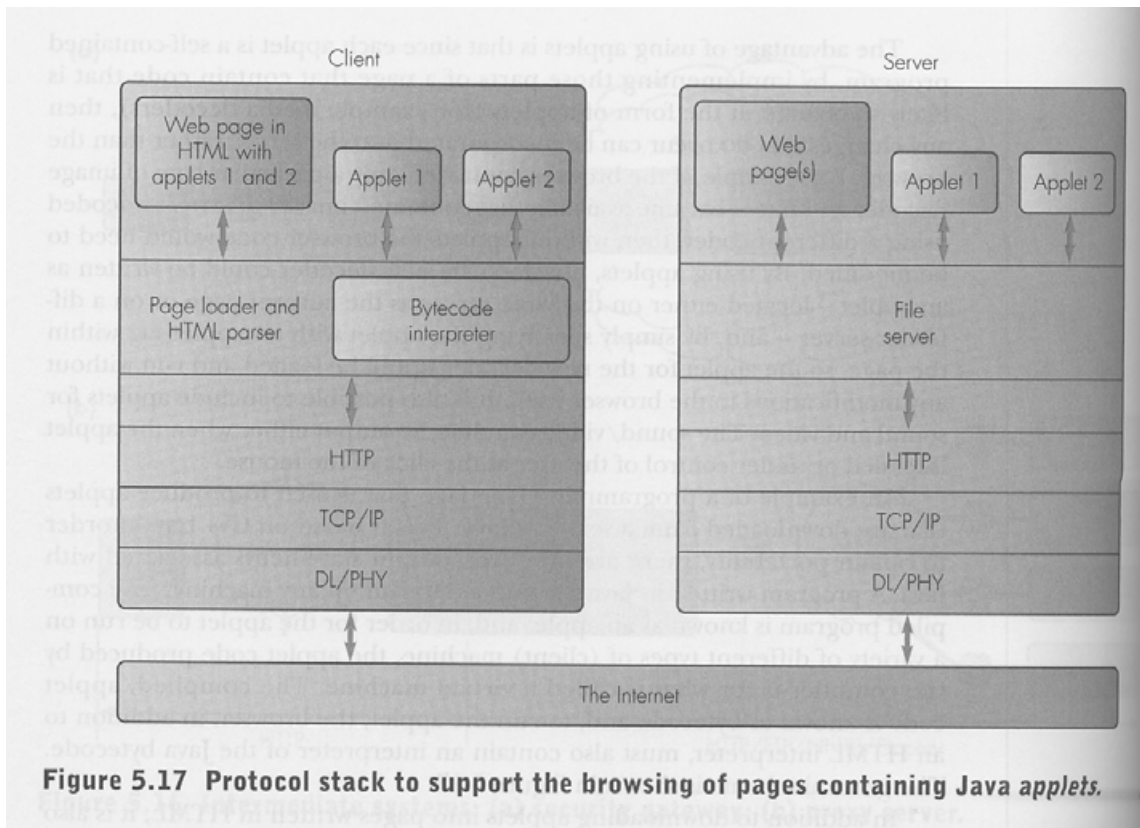
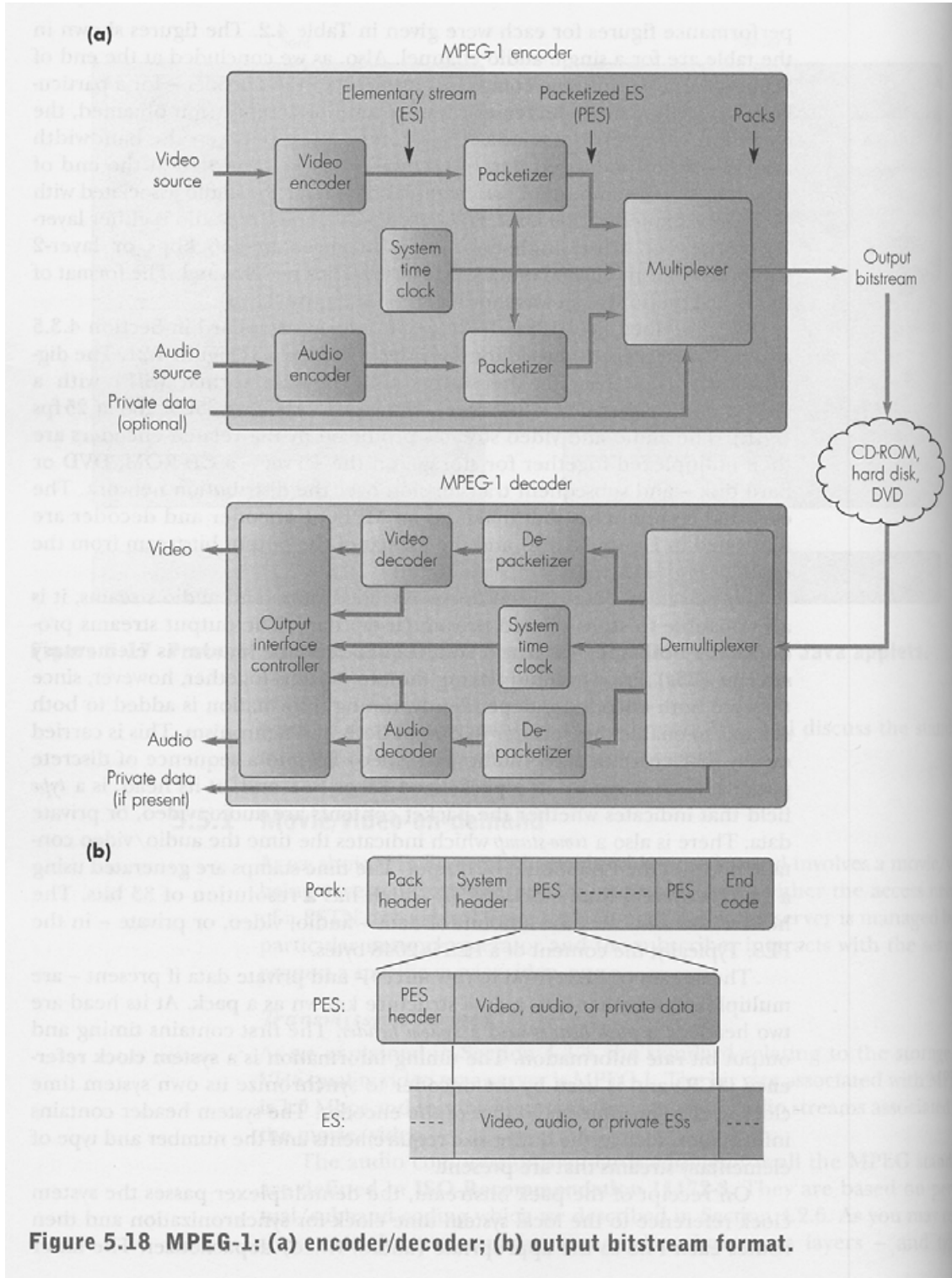
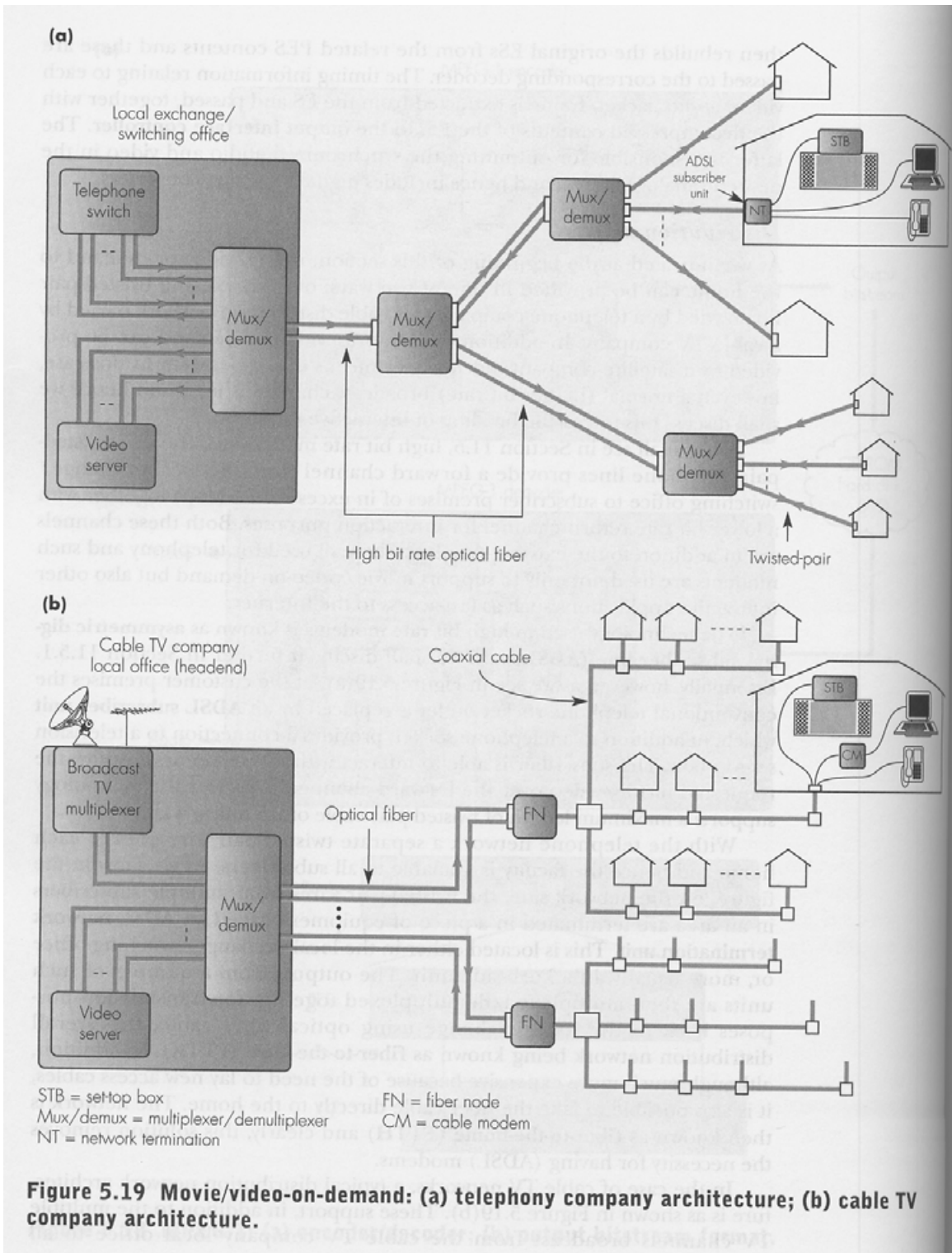


Figure 5.17 Protocol stack to support the browsing of pages containing Java applets.

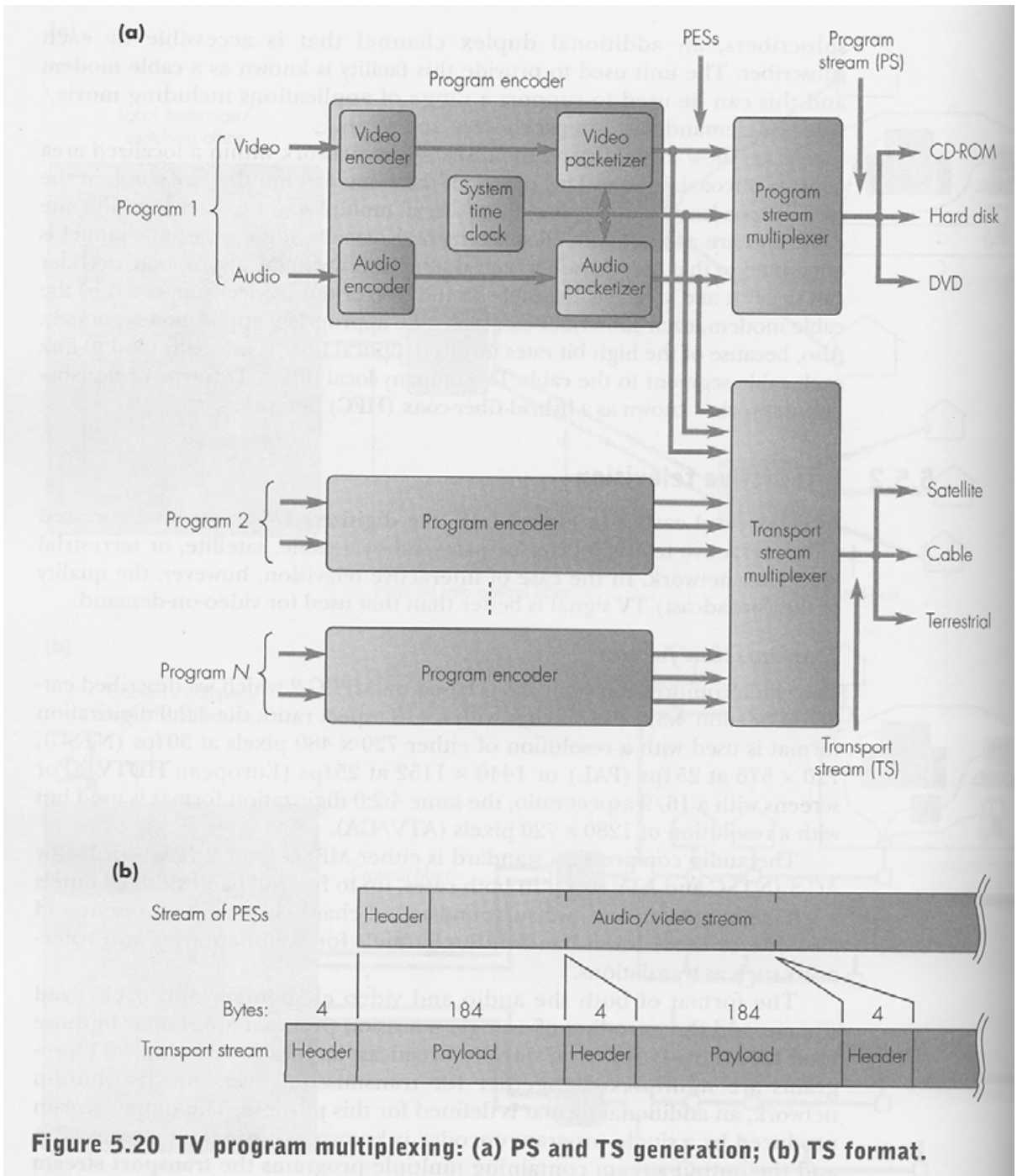
MPEG-1



Video à la demande



Multiplexage TV



Standards multimedia

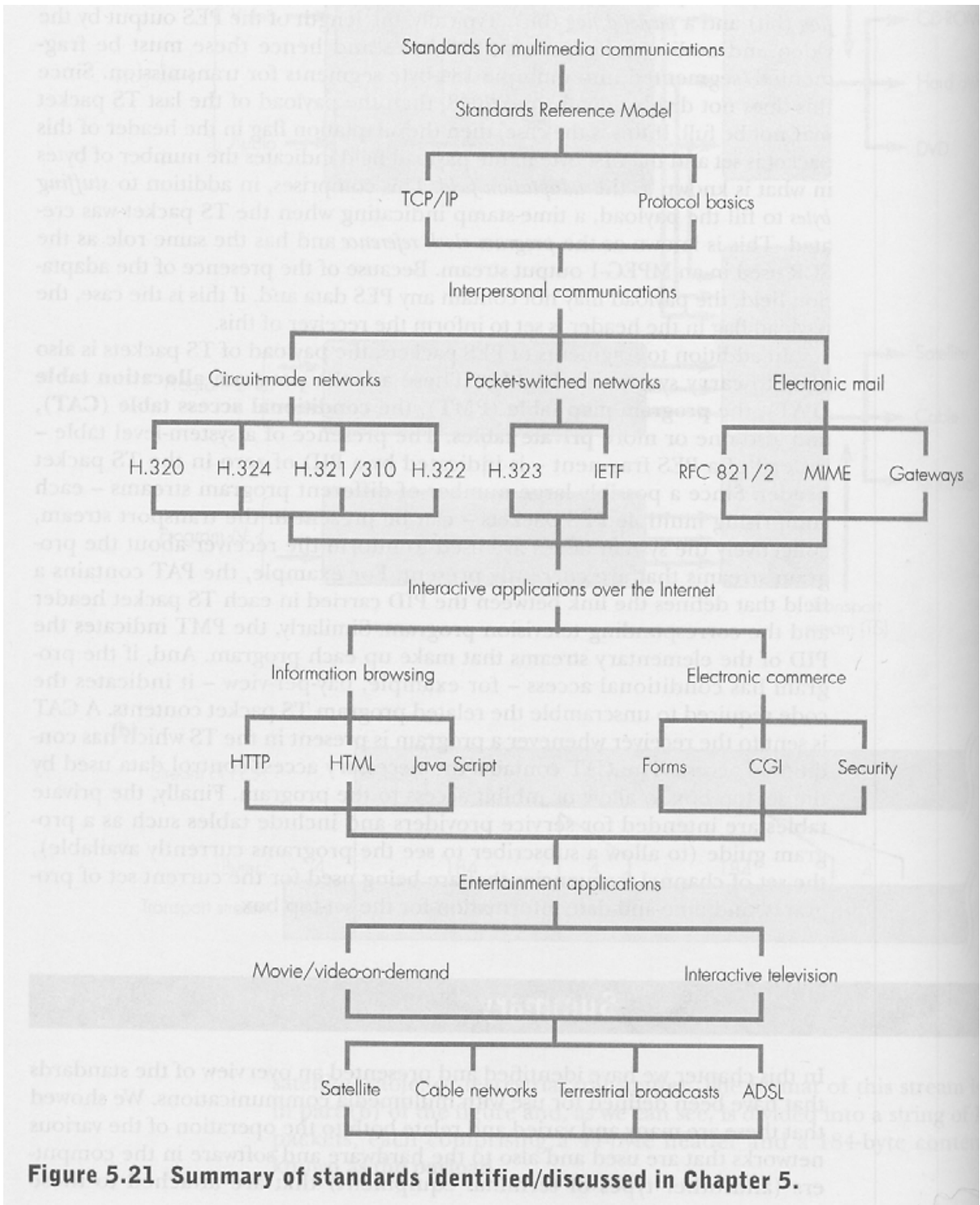


Figure 5.21 Summary of standards identified/discussed in Chapter 5.

Standards utilisés dans les réseaux à commutation de circuits

Table 5.1 Summary of the standards used with the different types of circuit-mode network.

<i>Standard</i>	<i>H.320</i>	<i>H.324</i>	<i>H.321</i>	<i>H.310</i>	<i>H.322</i>
Network	ISDN	PSTN	B-ISDN (ATM)	B-ISDN (ATM)	Guaranteed bandwidth LAN
Audio codec	G.711* G.722 G.728	G.723.1* G.729	G.711* G.722 G.728	G.711* G.722 G.728 MPEG-1*	G.711* G.722 G.728
Video codec	H.261	H.261* H.263*	H.261	H.261* MPEG-2*	H.261
User data application	T.120	T.120	T.120	T.120	T.120
Multiplexer/demultiplexer	H.221	H.223	H.221	H.221 H.222	H.221
System control	H.242	H.245	H.242	H.245	H.242
Call setup (signaling)	Q.931	V.25	Q.931	Q.2931	Q.931

* = mandatory