

Chapitre 5 : Fiabilisation de la transmission

5.1 Introduction

Ce chapitre sera consacré à l'étude détaillée de la couche liaison de données, avec un focus sur les différents mécanismes et techniques de détection des erreurs et celles utilisées pour leur correction. Par ailleurs, les méthodes de transmission propres à cette couche seront également présentées, en mettant l'accent sur le protocole HDLC.

5.2 Mécanismes de détection et de correction d'erreurs

Les phénomènes perturbateurs peuvent entraîner des erreurs de transmission en inversant les bits de l'information transmise. Une liaison est caractérisée par son taux d'erreurs T_e appelé aussi **BER (Bit Error Rate)** donné comme suit :

$$T_e = \frac{\text{nombre bits erronés}}{\text{nombre bits total}}$$

Exemple

Info :transmise : 1110001100111100

Info. reçue : 1110101100101100



$$T_e = 2/16 = 12.5\%$$

T_e varie pratiquement entre 10^{-4} et 10^{-6} . Au fait, plusieurs mécanismes sont utilisés pour détecter et éventuellement corriger les erreurs de transmission à savoir la détection par echo, par répétition, par code de parité, CRC et Hamming

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