



STANDARDS ORGANIZATIONS A "standard" is an agreed upon method for accomplishing a given task In data communications standards are used to define interfaces, tasmission methods, protocols, etc. Standards can arise in different ways Manufacturer's product becomes default standard. Federal government develops a requirement that becomes a standard . Organizations can adopt similar standards and "rename" them using a different nomenclature.















































INFORMATION CONTENT		
MESSAGE TYPE • A typical airline reservation • A typical telegram • A typical electronic funds transfer • A videophone frame • A newspaper-quality photograph • A document page in facsimile form • A brief telephone voice message	BITS 200 400 500 100,000 100,000 200,000 1,000,000	
 A color television frame A high-quality color photograph 	2,000,000	







CON	1MON N	NODEN	1 STANDARD	S	
	Speed	Standard	Modulation method	Maximum baud rate	
	300 bps	Bell 103/113	Frequency modulation	300 baud	
	1200 bps	Bell 212A	Phase modulation	600 baud	
	2400 bps	V.22bis	Quadrature amplitude modulation	600 baud	
	4800 bps	V.32	Quadrature amplitude modulation/trellis coding	2400 baud	
	9600 bps	V.32	Quadrature amplitude modulation/trellis coding	2400 baud	
	14.4 kbps	V.32bis	Quadrature amplitude modulation/trellis coding	2400 baud	
	28.8 kbps	V.34	Quadrature amplitude modulation/trellis coding	3429 baud	
	33.6 kbps	V.34	Quadrature amplitude modulation/trellis coding	3429 baud	
	56 kbps	V.90	Digital: G.711 Analog: Ouadrature amplitude	Digital: 8000 baud	
			modulation/trellis coding	Analog: 3429 baud	

