

Network Communications

Chapter 17

Synchronous Optical Network
SONET

SONET Components

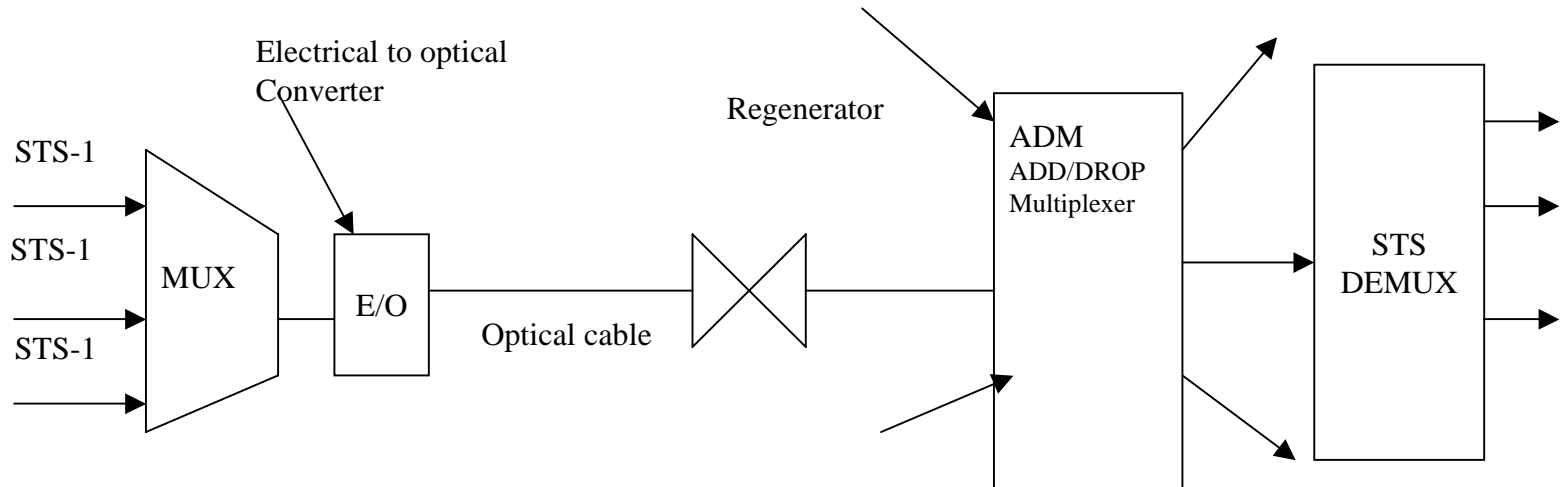


Figure 17.1

SONET Data Rates

Table 17.1

OC Level	STS Signal	Mux	Data Rate Mb/s
OC – 1	STS – 1	-	51.84
OC – 3	STS – 3	3 OC-1	155.52
OC – 9	STS – 9		446.56
OC – 12	STS – 12	4 OC-3	622.08
OC – 18	STS – 18		933.12
OC – 24	STS – 24		1244.16
OC – 36	STS – 36		1866.23
OC – 48	STS – 48	4 OC-12	2488.32
OC - 192	STS - 192	4 OC-48	~9600

STS – 1 Frame Format

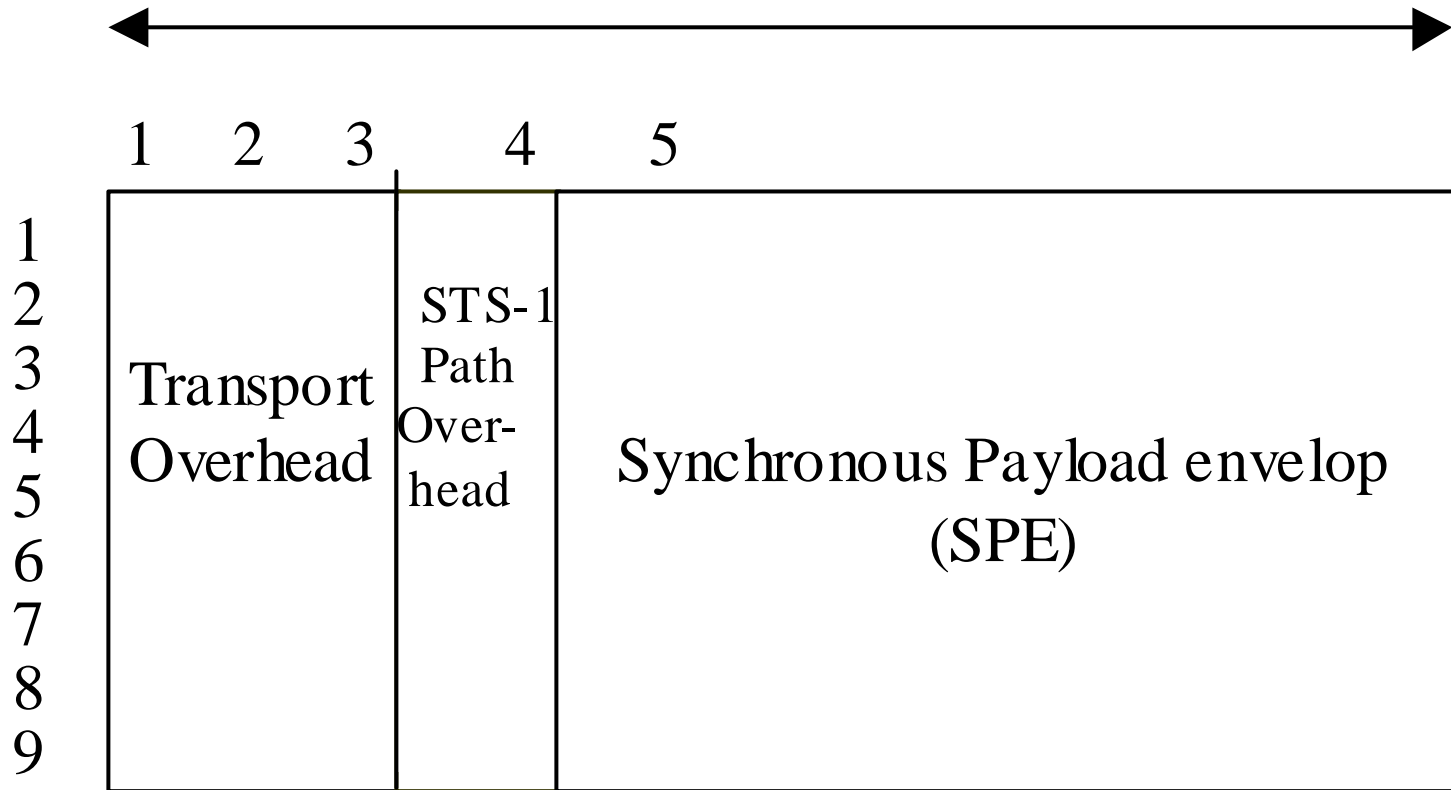


Figure 17.2

Generating STS-3

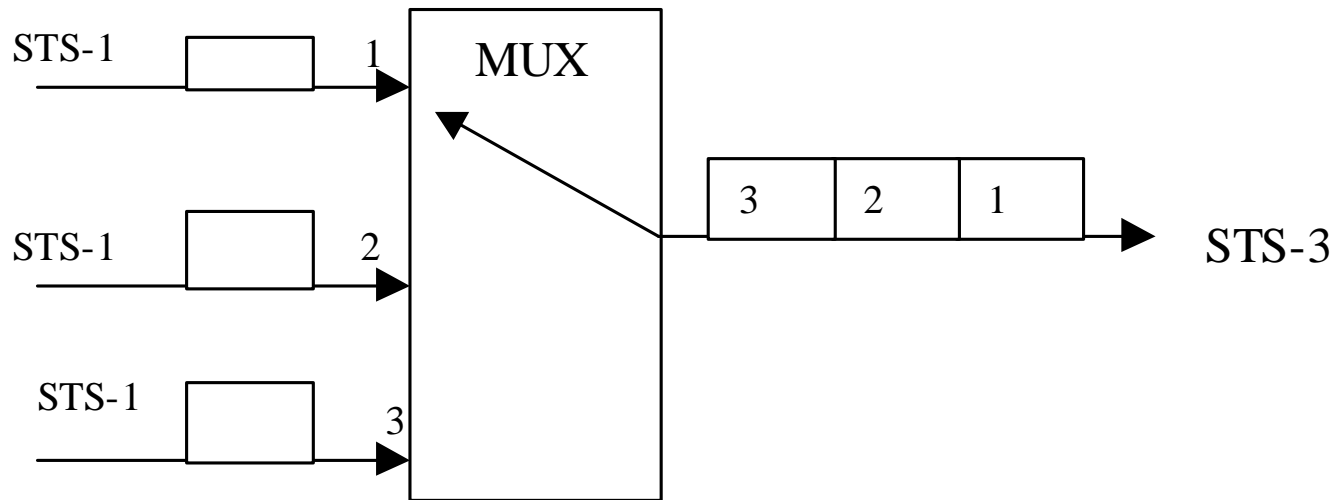


Figure 17.3

STS – 3 Frame Format

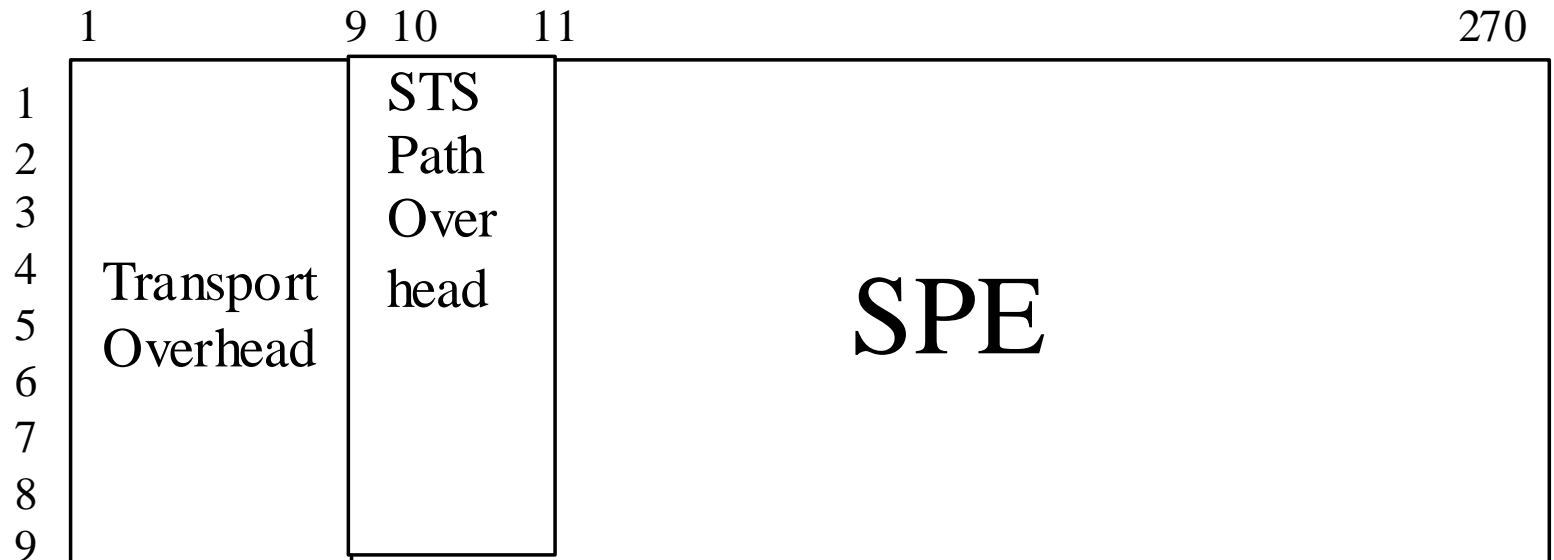


Figure 17.4

Generating OC-9

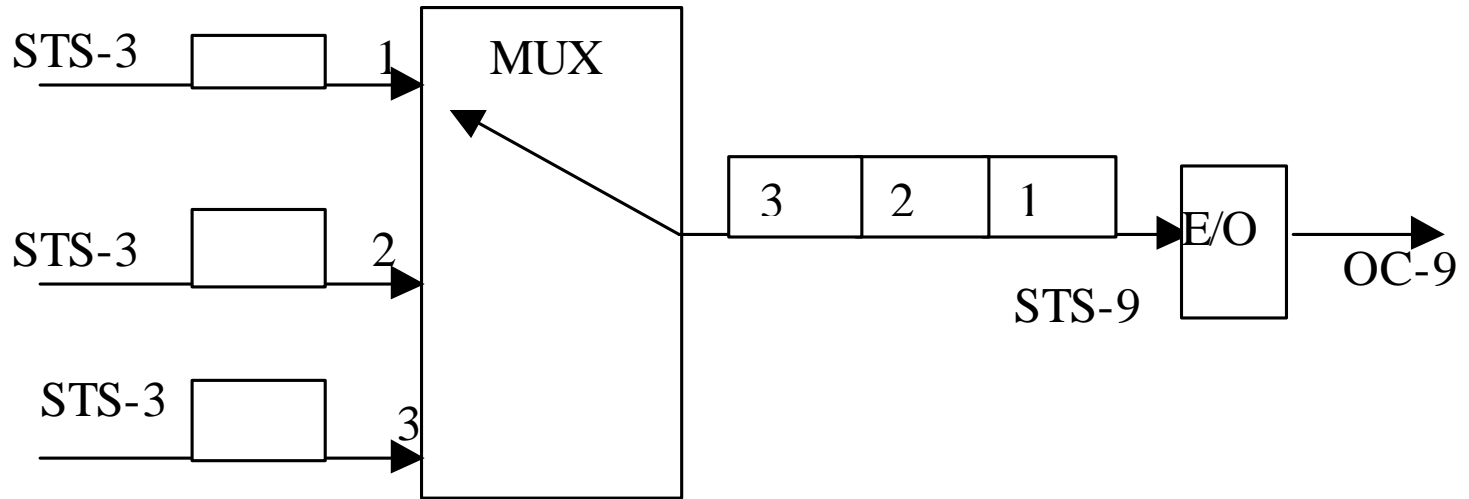


Figure 17.5

Virtual Tributaries

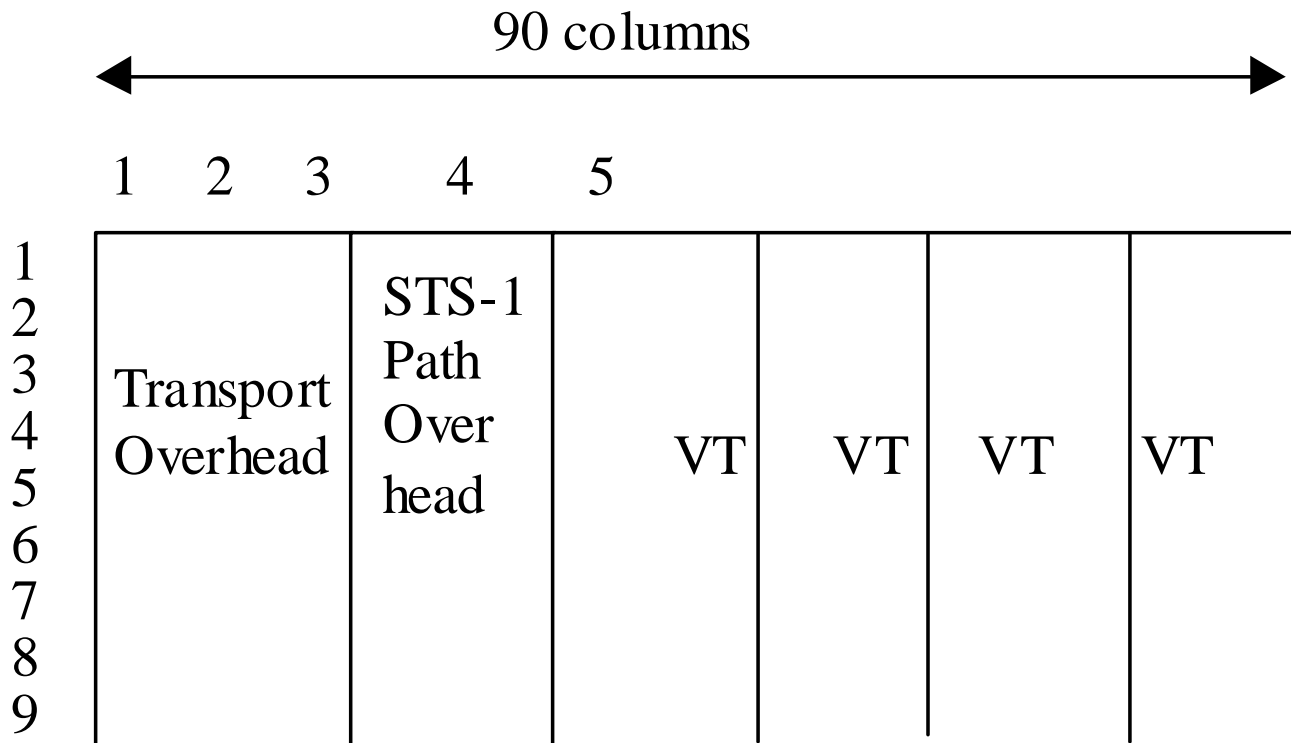


Figure 17.6

