

2/2/2



4/4/4

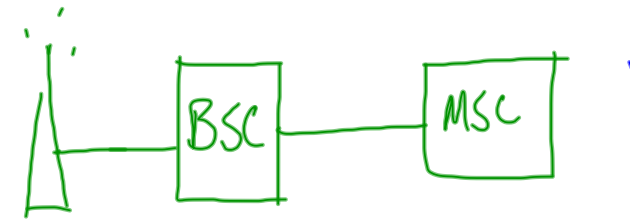


MTP - Message Transfer part

SS7 →

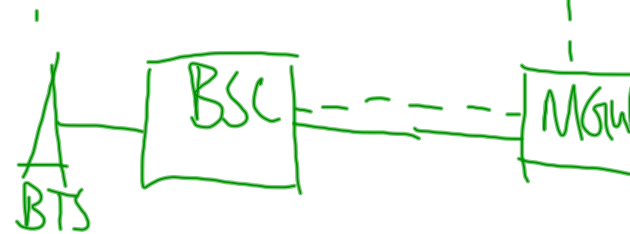
SIGTRAN

→ SS7 over IP



BTS

R99



BTS

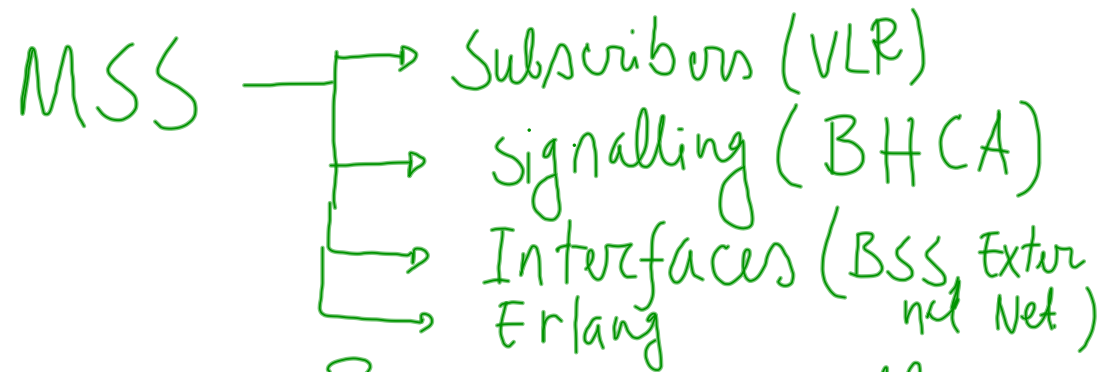
$26 \times 51 =$
 $51 \times 26 =$

Interleaving:

$$\begin{bmatrix} a_1 & a_2 & \dots & a_{15} \\ b_1 & b_2 & \dots & b_{15} \\ \vdots & \vdots & \dots & \vdots \\ n_1 & n_2 & \dots & n_{15} \end{bmatrix} \begin{matrix} \rightarrow s_1 \\ \rightarrow s_2 \\ \\ \rightarrow s_n \end{matrix}$$



$$\begin{bmatrix} a_1 & b_1 & \dots & n_1 \\ a_2 & b_2 & \dots & n_2 \\ \vdots & \vdots & \dots & \vdots \\ a_{15} & b_{15} & \dots & n_{15} \end{bmatrix}$$



BHCA = Busy Hour Call Attempt

MGW → Same as MSS (except subscribers)

$$\text{Erlang} = \frac{\text{BHCA} \times \text{MHT}}{3600}$$

MHT = Mean Holding Time