

Typical GSM-R Network Structure

Star Connection-

- ▶ The BTS are connected to the BSC in star connection
- ▶ This connection applies especially for sectorised BTS with several carriers

Chain Connection-

- ▶ The BTS are connected to the BSC in a chain connection via multidrop.
- ▶ Whenever a BTS fails or the link interface for the A-bis connection is defect, a relas switches the PCM30 through to the next BTS. The switchover will be seamless for the connection

Star Chain Connection-

- ▶ The BTS are connected to the BSC in a Star Chain connection via multidrop.
- ▶ The first two BTS are connected chain, after BTS we split up into star chain.
- ▶ The advantage is a better usage of existing railway communication cables.
- ▶ Functionality in case of BTS or link failure is equal to the first prescribed connection types.

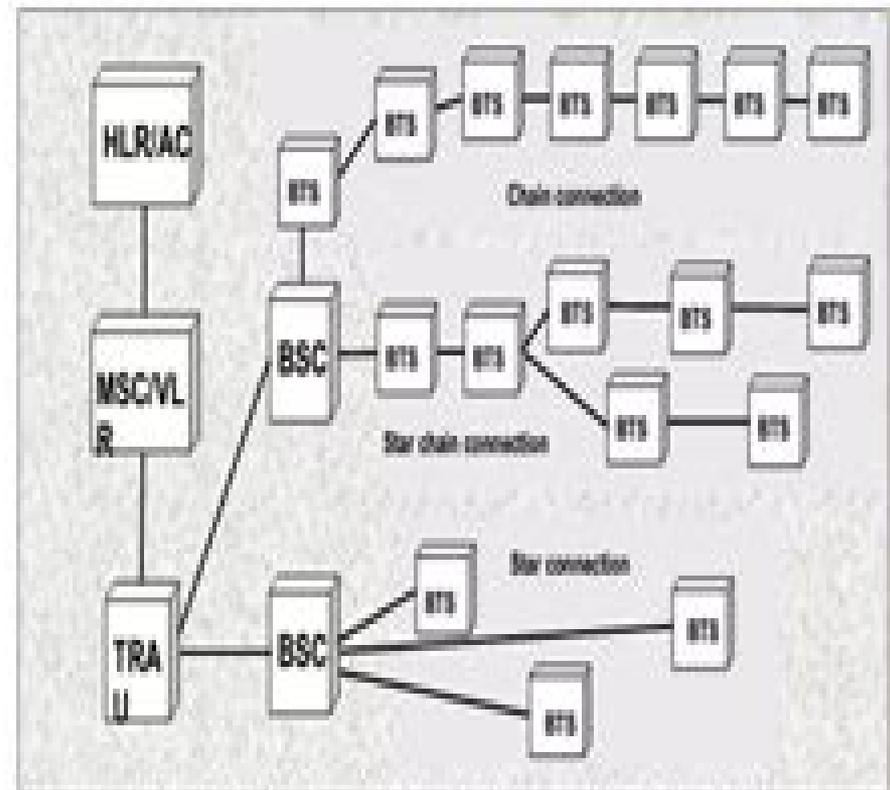


Figure 8 GSM-R architecture for low speed tracks and rural areas

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