

# RAILWAY DISPATCHING CENTRAL SYSTEM - SPDC

- Used for communication between traffic dispatchers, traffic and other personnel in all stations at exit signals, entry signals, pre-signals and spatial signals
- Selective calling (automatic) of each connection on the railway, i.e. station, in the direction dispatcher - railway and vice versa
- All the devices of this telephony are powered in the stations from a common battery that powers all the telecommunication devices of the station



The railway dispatching central system (hereinafter referred to as SPDC) is a modern system, developed in digital technology, and is intended to replace the existing railway dispatching centers in stations and CTC.

The SPDC system enables voice communication between dispatchers in stations, traffic dispatchers in CTC, as well as all railway dispatching telephones on one railway section: TIS, TUS, TAPB, TPP, PT and TCB, as well as LB and CB telephones in facilities on the railway.

The system enables operation via copper cables or via optical fiber, which enables mutual communication between all official stations on the railway in pre-defined lines, in accordance with regulations.

The system is manufactured to be compatible with the B14 protocol manufactured by Siemens or newer devices that use the same type of protocol.

All equipment on the railway is connected to a common LAN network, through which it is possible to add an unlimited number of peripheral devices, work consoles and railway dispatching telephones.



## Key features

Depending on the purpose, SPDC can be configured for the following operation:

- As a railway dispatching telephony central system, for the needs of the central traffic dispatcher CTC dispatcher, to which all stations on the associated section of the railway are connected with the associated railway dispatching telephones, as well as with all APB telephones
- As a railway central dispatching telephony central system, for the needs of the electric traction central dispatcher -ETCD, to which all stations on the railway are connected with the associated railway dispatching telephones and telephones in the facilities. As an additional option, SPDC offers the display of the calling user's identification from any railway dispatching telephone
- As a railway station dispatching telephony station system, for the needs of the dispatcher, to which all necessary railway connections are connected, all railway dispatching telephones in the area of one station, as well as all associated APB telephones
- As a railway temporary station dispatching telephony temporary station system for the purpose of securing connections during works or the similar needs

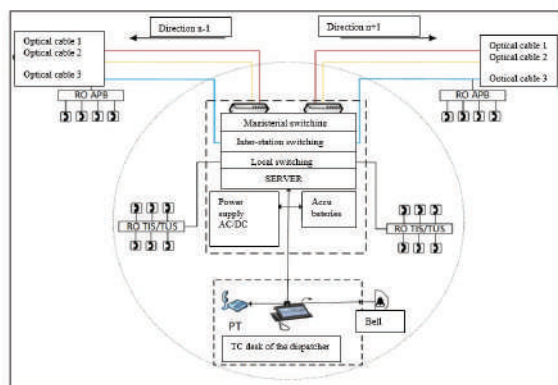


Figure 1: Block diagram of "SPDC"



In addition to the above mentioned basic devices, the SPDC system allows connection to the various additional devices that expand the set of the functionalities and applications of the system as a analogue telephone connection, RDV and GSMR.

## Technical characteristics

- System is placed in 19" standard rack
- System supports inbound and outbound voice calls
- Various calling groups and rules are supported
  - Call forwarding (back-up phone definition)
  - Conference rooms
  - Ring groups
  - Logical groups and restriction zones
- Voice server redundancy is supported
- All inbound and outbound calls are recorded and stored in central storage
- System can be connected with various external systems (e.g. PSTN, private PBX)
- System autonomy is designed according to user requirements (up to several hours)

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