rmSDO
SYSTEM FOR OBJECT DETECTION
IN THE DANGER ZONE
rmSDO was developed based on the RAIL-MIL modules. The basic task of the system is to detect dangerous situations such as the approach of a person to the edge of the platform and their fall on the tracks.

The rmSDO system is limited to the installation area. Other supervised areas do not require interactions. Operator consoles and service consoles can cover many objects.

The rmSDO system is fully autonomous; Any information that is presented to the Operator is intended to facilitate their work.

**INTEGRATION WITH OTHER SYSTEMS**

rmSDO can work with other station systems such as:

- digital audio-visual systems (such as DSO - Voice Alarm System) and building automation systems (BMS - Building Management System)
- ability to integrate with existing CCTV infrastructure
- a safe exit from the system to be used to alarm and / or stop the trains.

**FLOW OF INFORMATION OF THE SDO SYSTEM**

[Diagram of information flow]

- **Information system**
  - SDO Processing server #1
  - SDO Processing server #N
  - SDO Analysis server

- **Safety system**
  - SDO Processing server Channel A
  - SDO Processing server Channel B
  - SDO Controller
  - Lasers of channel 1
  - Lasers of channel 2
  - Railway traffic control, wheel sensors, other track devices

- **Output**
  - System operator computer
  - Voice Alarm System (DSO)
  - Safe system output
The system is divided into two independent sets of sensors and processing computers. Logic is the common part.

The part of the system responsible for the protection of the track has a fully redundant set of equipment. A failure of individual sensors or computers does not result in the loss of protection on any part of the supervised area.

**rmSDO** is characterized by the registration of device state data and algorithm outputs. It is possible to replay archival situations.

The **rmSDO** console provides the current:
- preview
- warning
- device state indication.

Graphical presentation of the entire system in one place allows, among others, a rapid verification of the risk and failure.
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“Tailored to our Clients’ needs”.

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