





Owner/Client	Location	Completion date	Final Contract Amount
Macedonian Railways	Macedonia, Skopje	30.7.2010	1.500.000 €

TRIS CTC system is used to control and optimize train traffic at 27 stations on corridor X in Macedonia. System includes all advanced functions of modern rail traffic systems such as automated route settings, scheduling, traffic optimization, train detection and train optimization, train describer, simple automated functions, train numbering, train graph, passenger information system, autopilot, overview and detailed pictures of stations, zoning function is enabled, black zone function is enabled, simulation, replay.

Project included design, delivery, installation and commissioning services of centralised traffic control system in Tabanovci – Macedonia. Stations were upgraded with new RTU connections and changes were made on the Ericsson interlocking equipment.





Owner/Client

TCDD – Turkish Railways

Location

Turkey, Sivas

Completion date

15.3.2010

Final Contract Amount

1.650.000 €

TRIS CTC system is used to control and optimize train traffic at 29 stations on Hanli – Divrigi line in Sivas region in Turkey. System includes all advanced functions of modern rail traffic systems such as automated route settings, scheduling, traffic optimization, train detection and train optimization, train describer, simple automated functions, train numbering, train graph, passenger information system, autopilot, overview and detailed pictures of stations, zoning function is enabled, black zone function is enabled, simulation, replay.

Project included design, delivery, installation and commissioning services of centralised traffic control system in Sivas – Turkey. Project also included delivery of rear projection unit for videowall installation.




Owner/Client

Kosova Railways

Location

Kosova, Pristhina

Completion date

28.10.2009

Final Contract Amount

1.450.000 €

TRIS CTC system is used to control and optimize train traffic at 14 stations on Leshak – Hani i Elezit line in Kosova. System includes all advanced functions of modern rail traffic systems such as automated route settings, scheduling, traffic optimization, train detection and train optimization, train describer, simple automated functions, train numbering, train graph.

Project included design, delivery, installation and commissioning services of centralised traffic control system in Pristine – Kosovo with all necessary station upgrades and changes. All 14 stations are equipped with new RTU connections and advanced interfaces towards Eriksson interlocking equipment.




Owner/Client

CDR - Iran

Location

Iran, Sirian

Completion date

28.9.2008

Final Contract Amount

2.650.000 €

TRIS CTC system is used to remotely control and optimize train traffic at 25 stations on Railway Line Shahrood-Mashad in Iran. The total length of track is 500 km and includes two lines. Project included design, delivery, installation and commissioning services of centralised traffic control system with all necessary station upgrades and changes.

All 25 stations are equipped with new RTU connections and advanced interfaces towards Siemens interlocking equipment. The scope of supply was also design, delivery, installation and commissioning of telecommunication equipment power supply equipments and ATP equipment for train protection.





Owner/Client	Location	Completion date	Final Contract Amount
Slovenian Railways	Slovenia, Kamnik	28.9.2009	500.000 €

TRIS CCD is a computerized control desk for LOCAL control of train stations. CCD is a member of TRIS family and it is a perfect product to replace local command desks at train stations. It is a product which is used as an upgrade of existing relay based interlocking equipment and it is a modern human machine interface developed for several types of interlocking equipment. Configuration offers several levels of SIL functionality in range from SIL 0 to SIL4. Product is fully adaptable and it can be used for small and large stations.

Project included design, delivery, installation and commissioning of Iskra SPDL30 relay based interlocking equipment upgraded with TRIS CCD and other interlocking equipment. TRIS CCD offers state of the art HMI with full range of electronic interlocking functionality (automated route settings, pre-defined commands, pre-defined routes, train graph, alarm list, event list, train number list, scheduler, collision warnings,...)



Level crossing project – NPr Fiprom Jesenice 0.4 km



Owner/Client	Location	Completion date	Final Contract Amount
Cestno podjetje Kranj, SŽ	Slovenia, Jesenice	21.6.2009	289.000 €

Level crossing 0.4 Fiprom was build during reconstruction of old industrial region of Jesenice city, where Iskra Sistemi, d.d. Was supplier of level crossing indoor and outdoor signalling and interlocking equipment. Due to main road in parallel on one side of the track and parking place on other side, positioning of level crossing equipment presented quite a challenge. Level crossing operation is track and station dependent. Level crossing was connected to station interlocking and station operator desk assuring automatic (by route) or manual operation. Relay interlocking control devices are equipped with remote supervision system enabling remote logging of level crossing operation states. On 0.4 Fiprom project Iskra Sistemi demonstrated qualitative and rapid installation and commissioning where time from beginning of works till technical assessment took less than two months.

Relay interlocking developed by Iskra Sistemi, d.d. represent's proved methods for level crossing control which offers perfect integration with mature interlocking station systems and long term reliable and safe operation.




Owner/Client

SŽ, Slovenian railways

Location

Slovenia, Cikava Sela

Completion date

23.10.2010

Final Contract Amount

500.000 €

The new level crossing Cikava Sela 22.007 km on the line Ljubljana-Grosuplje was one of the 12 level crossings designed, delivered, installed and commissioned by Iskra in the year 2009. This level crossing is holding the latest electronic level crossing protection equipment of the safety level SIL4 and it operates in the configuration 2 out of 2. The level crossing is controlled with control signals and it is fully autonomous.

The project also included delivery and installation of STRAIL rubber plates between the tracks and the road. This level crossing went into the operation on 23.10.2009 and it is a standard for all future level crossings in Slovenia.

