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## **Design, Build, Maintenance and Operation of the Supporting Systems (SuSy) including Equipment for S-Network (Future S-trains)**

I.D.: 91213862

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		CPV	45000000	45310000	45311000	48000000	48140000	50711000
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Descriere: DSB seeks to acquire Supporting Systems (SuSy) for the S-network and a variety of interconnected deliverables that are needed in connection with the change of the S-network from the current GoA2 based operation (semi-automatic operation) to a future GoA4 based operation (fully automatic operation). The objective of the procurement is to provide an overall solution for Supporting Systems and to operate, maintain and support the solution that will ensure e.g. obstacle detection at the platforms as well as provide the passengers with up-date and accurate traffic information and means to get in contact with the Traffic Control Center (TCC) and Back-up TCC. The supplier shall in that regard design, build, test and deliver the solution for Supporting Systems and provide all equipment necessary. The contract has a particular focus on establishing a close cooperation between the supplier and DSB and DSB's other suppliers. The scope includes full end-to-end responsibility for delivering continuing services, including operation, maintenance and support as well as hereunder providing spares and equipment and obsolescence management. The supplier shall also deliver cross-functional services, including documentation, information security, processing of personal data, railway safety and testing. The solution comprises of systems supporting the GoA4 based operation, including the systems: - Passenger Information System (PIS)/Public Announcement System (PAS) - Video Surveillance System (CCTV) - Passenger Call Point (PCP)- ODS-P (obstacle detection and surveillance) - Platform Emergency Stop Button (PESB) and - An integrated control system (SCADA) The solution also comprises of transverse systems for supporting the operability of the systems mentioned above such as (not limited to): - Master Clock- MMS- Data communication network- Technical Object Buildings The procurement is a part of the Future S-network Programme, see the tender conditions, section 2.1. DSB will require the supplier to manage interfaces to other contracts and thereby contribute to secure successful implementation, integration and safety demonstration of the Future S-network Programme. The supplier shall ensure interoperability and TCC management of PIS/PA, CCTV and PCP equipment onboard the new trains for GoA4 based operation that are to be delivered and maintained by the rolling stock supplier. The SCADA system shall allow DSB to monitor, control and operate functionality of all Supporting Systems via an integrated user interface from both TCC or BTCC both on platforms and from corresponding systems in trains as well as monitoring existing DSB applications requested integrated into SCADA. The supplier is responsible for the dataflow between supporting systems and relevant DSB premises such as TCC, BTCC and DSB integration platforms/datacentre. This includes establishment of LAN network at stations and the active part of a data communication network (DCN) by configuration of optical fibre provided by DSB. DSB will also provide cable routes at stations in which the supplier can pull power and relevant data cables. The supplier shall install the solution and deliver the necessary installation works at the stations as well as implementing the solution in TCC/BTCC. The supplier will be responsible for delivering and organising installation work and in that regard to minimise the need for track possessions and provide sufficient documentation to obtain installation approvals and approvals for placing in service (APIS). The solution shall comply with performance targets. Furthermore, the supplier shall - if ordered - deliver further development, consultancy services, options and standard service requests (ordered services). In addition the supplier shall deliver termination services in connection with the termination of the contract.

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