

**iBS**

# CONTROL AND OPERATING TECHNOLOGY



**SCHEIDT&BACHMANN** 

# Integrated Control System (iBS)

As a part of DB Netz AG's new system architecture in the area of the control and signalling equipment (LST), Scheidt & Bachmann has developed the integrated control system (iBS). It enables the manufacturer-independent operation of modern DSTW and ESTW via the standard interface SCI-CC. The integrated control system does not contain any safety-related functions and integrates all applications required for the DB driveway service in a uniform look & feel.



**IBS – THE INTEGRATED CONTROL SYSTEM OF THE FUTURE: ERGONOMY AND ECONOMICAL**

The transparent connection of railway interlocking systems from different manufacturers is provided by the so-called iUZ. In addition to adaptation to the standardized SCI-CC interface, it also bundles important functions such as train describer, automatic route setting and documentation. For the railway interlocking system type ZSB 2000 it also enables the connection of all productive installations/systems in the field to the iBS.

The iBS offers significant improvements compared to the classic control systems:

#### **Attractive workplace:**

- Ergonomic, standardized control station with large 50" monitor
- Single sign-on and integrated control of LST, TC, MAS, and dispatching
- User interface according to web standard (window technology, drag & drop)
- Manufacturer-independent control of the DSTW/ESTW via iUZ standard interface SCI-CC
- High ease of use thanks to a wide range of support functions such as operator profiles and configurable time-of-day-dependent illumination of the screen background

#### **Economical efficiency and future-proof design:**

- Standardized display and input safeguarding procedure
- System concept without specific requirements on IT components
- Use of standard IT components („Commercial-of-the-shelf“ COTS)
- No proprietary, manufacturer-specific hardware
- Short release cycles using agile release processes
- Investment protection through iBS variants with migration capability

#### **Scalability, operational flexibility, migration:**

- Concept to equip railway operating stations (BSO) with 6 to 20 operator stations
- Switching from one to another operator station as required during operation
- Variants for adaptation to different application scenarios, e.g.:
  - iBS<sub>local</sub> – enables operation in the absence of a connection to the central services like bbIP and directory service
  - iBS<sub>compact</sub> – for space-saving accommodation, independent of central services, for smaller production areas
- Simple migration of iBS<sub>local</sub> and iBS<sub>compact</sub> into a BSO due to interface compatibility
- Variant and migration concept allows fast iBS introduction and ensures investment sustainability.

Since its piloting in 2020, the integrated control system iBS has proven successful operation in Germany at:

- ESTW Harz-Weser
- ESTW Kleve, Bedburg-Hau, Goch, Kevelaer
- ESTW Sondershausen.

**Scheidt & Bachmann System Technik GmbH**

Otto-Flath-Straße 4 ▪ 24109 Melsdorf ▪ Germany ▪ Phone +49 4340 4983-0  
info@scheidt-bachmann-st.de ▪ www.scheidt-bachmann-st.de

**#DIGITISE  
# YOURRAIL**