

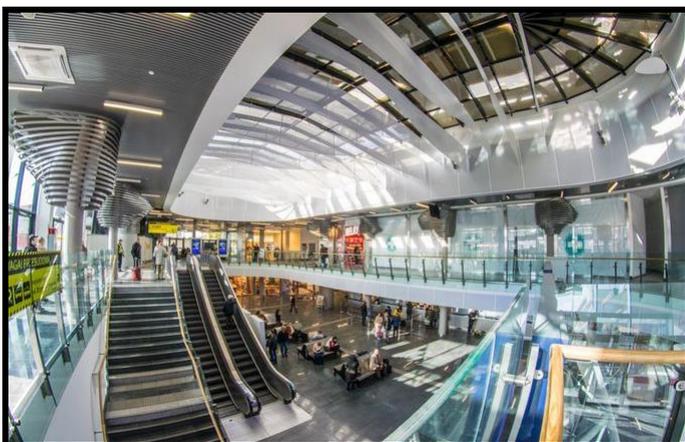
## Bydgoszcz Main Railway Station



This is one of the biggest railway stations in Poland and the largest in the Kuyavian-Pomeranian Voivodship. According to PKP classification, it has the highest Premium category. In the years 2014-2015 a comprehensive reconstruction was made according to the project developed by Allplan Sp. z o.o. An old island station was restored and a new 5-storey external building with glass facade, the surface of 3409 m<sup>2</sup> and the capacity of 40,065 m<sup>3</sup> was built at Zygmunt Augusta street. Between the floors there is clearance, revealing the restored building of the old 'island' station.



On the top floor of the new railway station, there are offices and on the lowest floor, there are nine ticket offices and an underground tunnel leading to the platforms, which have been raised to the height of 55 cm and the platforms 3 and 4 located at the historic building of the island station have been raised to the height of 10 cm.



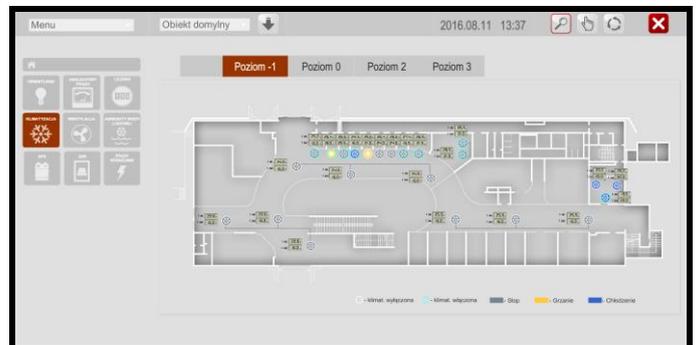
A new entrance to the underground passage with lifts was built at the bus and tram stops.



Transparent polycarbonate used in previous constructions was replaced by tempered greyish blue glass. Lighting of the check-in hall and entries, over which illuminated inscriptions appeared, is ensured by LED strips and luminaires. Renovated at the expense of PLN 1.4 million, a part of the underground passage was opened at the turn of 2015 and 2016.

### BMS

XBMS monitoring system, based on NEURON BMS Server was installed in the station building. The software was supplied with the DELL PowerEdge R220 server that was installed in the MDF room and connected to the backbone network with bandwidth of 50 Mbit.



Run-time and configuration works during the entire starting period, were conducted locally and concurrently remotely via the Internet in cooperation with a local installation company.

### Integration

Integration included ventilation system, air conditioning, hot spot, lighting and power supply of the building. Following communication buses were brought to the MDF room: LonWorks, Modbus RTU, M-Bus, BACnet MS/TP, DALI and Ethernet.

