Effective operation of railway stations and improved flow of passengers have a significant impact on the availability of mobility services, throughout of passengers and journey experience. Key aspects which highly influence a traveler's selection of mode of transport, passenger satisfaction and cost competitiveness of mass transit operations.

Siemens' Digital Station portfolio strategically aligns with these railway operator's key performance indicators and combines Siemens products and services for railway stations, with one target of providing the greatest customer value based on strong integration of signaling and station management systems. Siemens has the capability to offer railway operators a complete solution suite. Ranges from station control systems over platform and mobile passenger information up to data analytics solutions which self-learn and create constantly new insights for optimization. Examples are capacity forecasting and train load indication in real-time, passenger flow and every optimization dashboards in combination with the Siemens IOT Operating System Saphire.

Siemens station solutions are fully integrated with existing systems and centrally managed by the Digital Station Manager software which can be fully installed or cloud-based. Besides passenger oriented features like WiFi on stations and trains as well as mobile ticketing solutions, Siemens designs and implements jointly with our customers station solutions which have a high focus on reduction of operational expenditures.

Siemens Digital Station

Based on signaling and railway station systems, managed by the Siemens Digital Station Manager further innovative products and services are available which provide direct value-add for operators to increase availability (e.g. by predictive station asset monitoring), throughput (e.g. train capacity forecasting) and customer experience (e.g. WiFi everywhere by Tyco/OnSite).

Siemens design enables a modular, tailored implementation of the Digital Station Solution Suite which enables easy integration of existing legacy products while maintain focus on reduced capital expenditures e.g. by Säh offering.

Benefit to Customer

Siemens Digital Station offers vast benefits for operators, infrastructure owners and most importantly the passenger:

- Improved journey by timely and accurate information (in station and on smartphone app), mobile ticket booking and increased travel comfort on platform
- In-app guidance for stations and instant messaging in case of disruptions
- WiFi connectivity in stations and during journey on train
- Option for integration operation control center for signaling and station management for optimization of the entire passenger movement & flow
- Digital Station Manager (optional cloud-based) as software to integrate legacy and new station management systems for improved synchronization of station operation
- Optimized train load and capacity utilization as first step to demand responsive transport
- Fewer station asset failures due to predictive maintenance
- Reduced CAPEX due to network and hardware optimized SCADA, PIS, CCTV and PA solution (e.g. higher degree of virtualizations)
- Opportunity to replace local with cloud based solutions to further reduce CAPEX and OPEX and to immediately participate in new innovation cycles

Digital Station Solutions and Railway Communication

siemens.com/mobility

Availability

Passenger experience

MicroSphere

Traffic Control
Traffic Regulation

MindSphere Rail

Stat Manag

Station

Manager

Digital
Station
Manager

Control guide

Digital Station Manager

Operator

Infrastructure Owner

Passenger

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