



Effective operation of railway stations and improved flow of passengers have a significant impact on the availability of mobility services, throughput 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 stringently aligns on 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

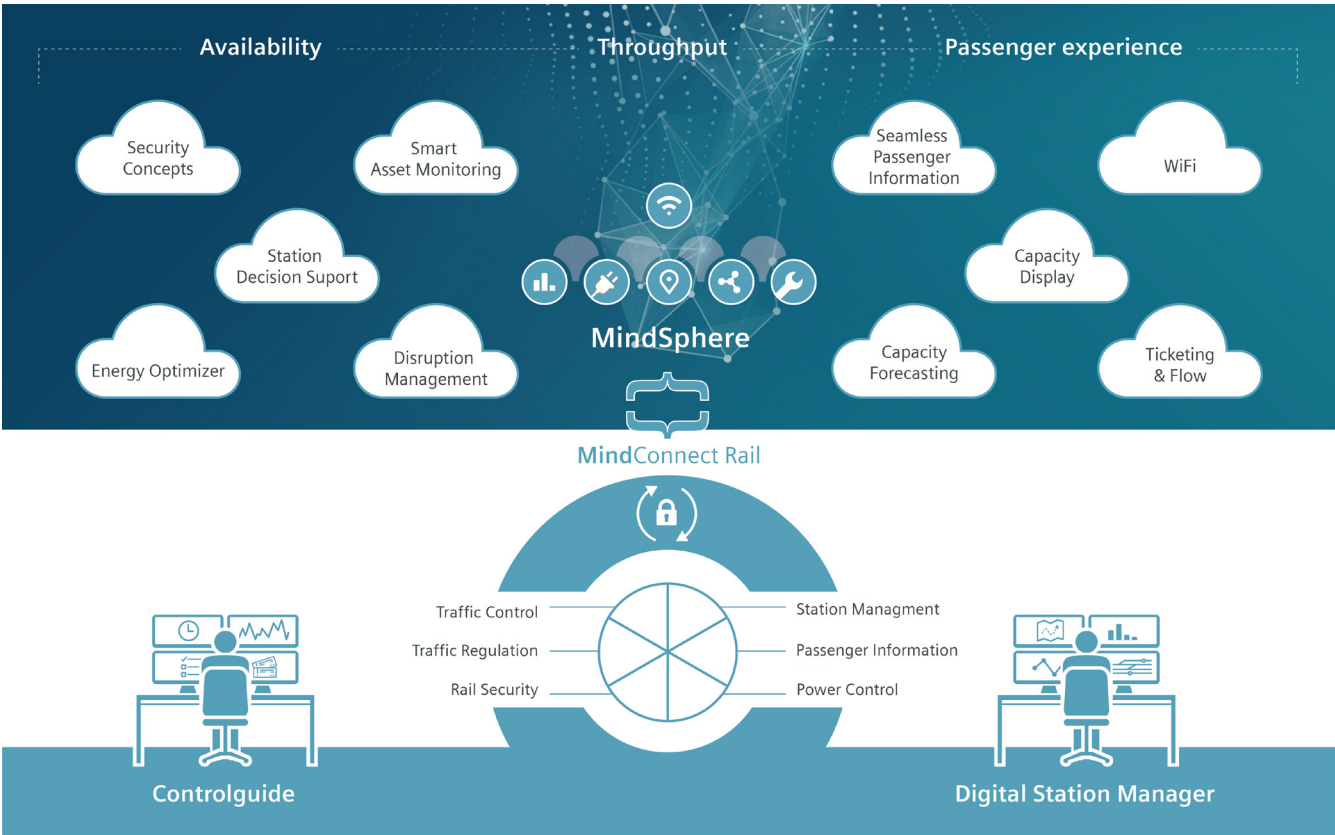
information up to data analytics solutions which self-learn and create constantly new insights for optimization. Examples are capacity forecasting and train load indication in real-time, passenger flow and energy optimization dashboards in combination with the Siemens IoT Operating System Mindsphere.

Siemens station solutions are fully integrated with existing systems and centrally managed by the Digital Station Manager software which can be locally 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 Traincom).

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 SaaS offering.



Benefit to Customer

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

Passenger	Operator	Infrastructure Owner
<ul style="list-style-type: none">Improved journey by timely and accurate information (in station and on smartphone app), mobile ticket booking and increased travel comfort on platformIn app guidance for stations and instant messaging in case of disruptionsWiFi connectivity in stations and during journey on train	<ul style="list-style-type: none">Option for integration operation control centre for signalling and station management for optimization of the entire passenger movement & flowDigital Station Manager (optional cloudbased) as software to integrate legacy and new station management systems for improved synchronization of station operationOptimized train load and capacity utilization as first step to demand responsive transportFewer station asset failures due to predictive maintenance	<ul style="list-style-type: none">Reduced CAPEX due to network and hardware optimized SCADA, PIS, CCTV and PA solution (e.g. higher degree of virtualization)Opportunity to replace local with cloud based solutions to further reduce CAPEX and OPEX and to immediately participate in new innovation cycles