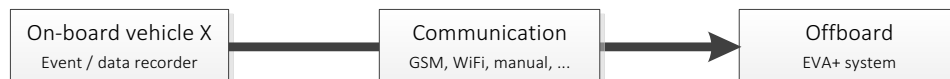# Feature Fleet Management

EVA+ supports Fleet Management

EVA+ provides rail operators with a live, fleet-wide view of the performance of their rolling-stock assets. Fleet management can include a range of functions, such as vehicle financing, vehicle maintenance, vehicle telematics (tracking and diagnostics), driver management, speed management, fuel management and health and safety management. Fleet Management allows the removal or minimization of the risks associated with vehicle investment, improving efficiency, productivity and reducing overall transportation and staff costs, providing 100% compliance with government legislation (duty of care) and much more.

HaslerRail can offer operators quick and efficient access to live data and knowledge extraction, avoiding the need for physical data downloads and enabling the combination of railway engineering knowledge with remote condition monitoring, through the intelligent use of both current and historical information.

Data collection process:

On-board vehicle X		Communication		Offboard
Event / data recorder	→	GSM, WiFi, manual, …	→	EVA+ system

Fleet Management

On-line fleet management is a growing trend within the rail industry. HaslerRail's EVA+ software provides the relevant information for train operators and owners in order to manage rolling stock missions more efficiently. This enhanced and in-depth intelligence allows train operators to be more proactive in managing and developing their operational and maintenance regimes by using the remote monitoring and reporting functionality and advanced data analytics.
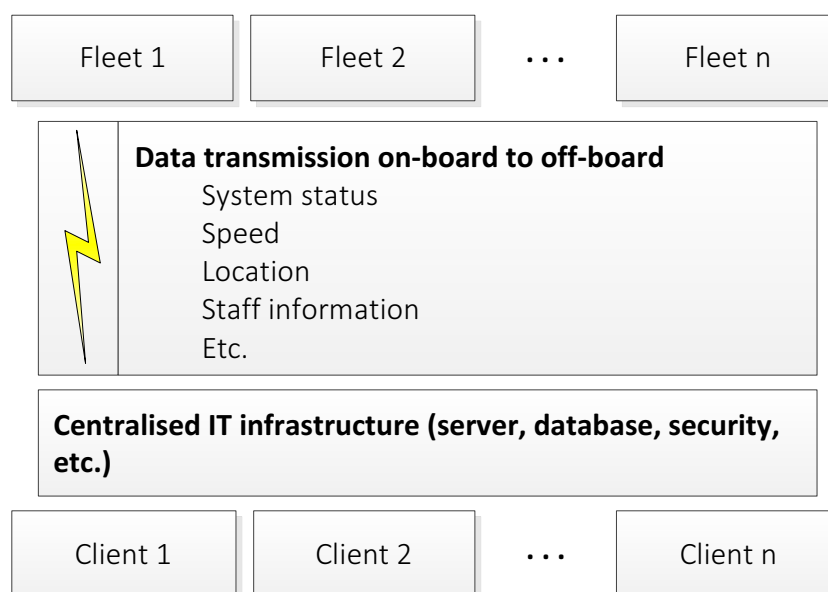
The combination of HaslerRail's fleet connectivity and operational maintenance solutions addresses the significant increase in global demand from passenger and freight train operators for improvements in operational efficiency, vehicle availability and reduced life cycle costs.

HaslerRail's 125 year long history in data acquisition provides the remote connectivity to previously offline digital and analogue legacy systems. In addition HaslerRail brings the know-how and tools to extract and interpret critical operational data and gather information.

Different possibilities are supported to perform timely data analysis of onboard systems. Alerts are automatically issued on configurable events and the relevant information is fed into the operations departments and maintenance depots.
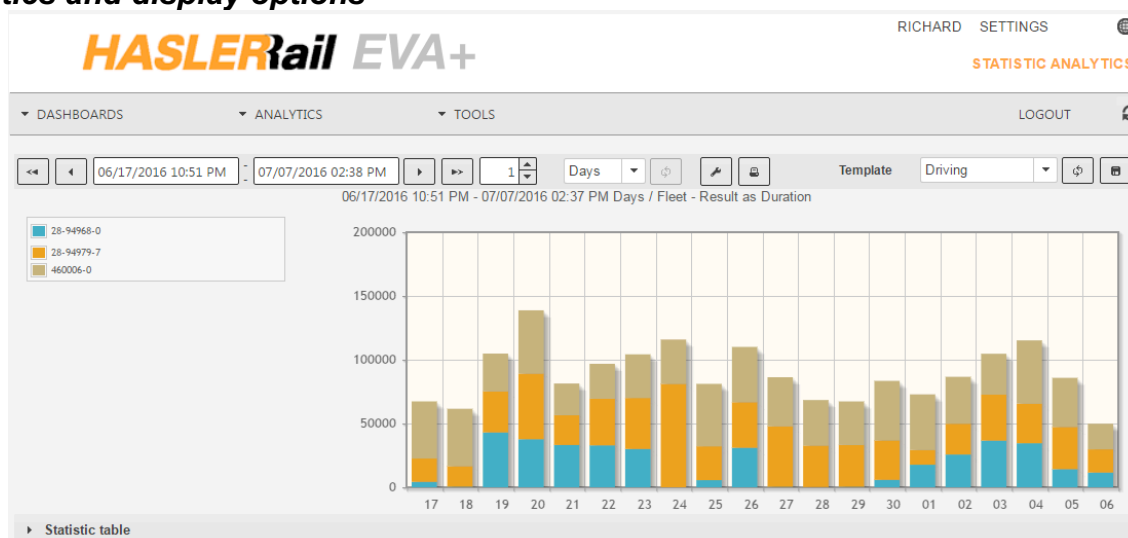
HaslerRail's EVA+ is a multi-tier-client based off-board application. It makes historical diagnostic data ~~is~~ available for analysis at any time in order to support improved decision making.

Basic EVA+ system architecture:

Fleet 1	Fleet 2	· · ·	Fleet n

Data transmission on-board to off-board
System status
Speed
Location
Staff information
Etc.

Centralised IT infrastructure (server, database, security, etc.)

Client 1	Client 2	· · ·	Client n

Author	J. Richard	22/07/2016	**Content Haslerrail Portal**		
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Released	**C. Schott**		We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express prior consent is strictly forbidden. © Hasler Rail AG	**Marketing /EN**	1/2
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Analytics and display options

Shown above is a screen shot example of a small fleet and its mileage summary over a certain time period.

Key benefits

Enhanced customer experience

Minimise delays for passengers with smart and self-learning tools for real-time dispatching and detour management. Integration with 3rd Party Systems enables operators to deliver accurate and timely information on service changes, delays and connection updates to passengers.

More business insight

The EVA+ user can use data analytic features in EVA+ to gain new insight into reliability and availability versus targets and objectives, supporting them in making smart, evidence-based decisions. It will become evident that fleet performance is a key performance indicator for strategic planning.

Planning

Improving short-term planning for rolling-stock and staff productivity with EVA+ as a basis to react with short-term changes to schedules and routes.

Streamlined operations

EVA+ allows operations to be streamlined based on an accurate and real-time view of service disruptions and bottlenecks in the technical availability of assets and resources.

Service monitoring

EVA+ with its different views of services in the GUI can be tailored to be based on vehicle classes, specific lines, network map or other customised dimensions.

Scalability

EVA+ is suitable for all types of operators. Solutions can be easily scaled and customised to meet the needs of small or large, urban or regional, passenger or maintenance operators and infrastructure managers.

Lower TCO

As an overall result operators can reduce operational costs with EVA+ functionalities delivered on a single, cost-effective hardware and software platform or in the cloud as a fully service based approach (SaaS).

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