SERVICES
HEALTHHUB™
MAXIMISING RAILWAYS PERFORMANCE

PRODUCT SHEET

HealthHub™ is Alstom's approach to allow predictive maintenance using powerful algorithms and continuously monitoring the state of the assets. HealthHub™ allows zero in-service breakdowns, maximizing availability and optimizing the life-cycle-cost. It is your personal and on-demand technical advisor that provides customized maintenance orders.

GENERAL DESCRIPTION

HealthHub is an integrated decision support tool providing deeper insight to rail systems including trains as well as infrastructure networks. Operators or infrastructure managers are made instantly aware of any major malfunction, while maintenance crews can be ready and anticipate any spare parts orders. Natively compatible with Alstom's innovative monitoring services as TrainTracer or TrainScanner, it can be also integrated with third party environment data.

CUSTOMER BENEFITS

Find the failure before it happens and solve it with no impact on availability

Diagnosing the problem, ordering replacement parts, troubleshooting: all of these time consuming activities are the greatest impediments keeping operators from peek efficiency. Changes in information and communication technologies have revolutionized support techniques for rail equipment maintenance. Alstom has harnessed these technologies with the expertise of its engineers to offer operators and maintainers high value added services and real-time troubleshooting of faults, failures and incidents, and help customers achieve optimum fleet and infrastructure management.

Asset health monitoring at-a-glance

HealthHub shows the relevant data to various parties through user-friendly interfaces. Real-time health data of th assets comes from various sources so that their status can be displayed at-a-glance thanks to advanced analytics. Its interactions with the MMIS (Maintenance Management Information System) are enhanced through a rule engine can trigger service orders. This new access to predictive maintenance greatly increases the rail system availability.

KEY BENEFITS / KEY FIGURES

- Real time access to information on-line

- Decision-making assistance for operators and infrastructure managers

- Reduced downtimes through anticipated interventions

- Integration of business process management workflows

- Native Interface with TrainTracer™: Real-time train data transmission solution

- Service Order generation

ALSTOM

HEALTHHUB™

STREAMLINE OPERATION PROCESS

Railway assets	Data acquisition tools
Rolling Stock	• TrainTracer: On-board data analysis and train to ground connectivity • TrainScanner: For automatic train inspection of wheelsets, brake pads, pantograph • and train integrity • The Motes: To monitor vibration temperature and pressure of several components
Track	• Track tracer • Catenary Tracer Measure & diagnose: cracks, radius, geometry, corrugation on tracks and wear of wire, height and stagger of catenary
Signalling	Point Machines

MAIN FEATURES

- Process data on a ground IT configuration using business rules based on expert knowledge
- Trigger alerts triggered using business rules
- Notify users through e-mails and reports
- Can trigger work orders on Maintenance Management Information System

POWERED BY ANALYTICS: AUGMENT INTELLIGENCE

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PROVEN SOLUTION

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