

STRENGTHEN YOUR CONNECTION TO THE INTERNET OF THINGS WITH RED HAT

BROCHURE

“We consider innovation and customer service to be of the utmost importance, which is where we see how the Internet of Things can play a crucial role. With Red Hat as our partner, we have succeeded in creating an enhanced customer experience through improved device connectivity.”

MICHAEL HOSSE
SENIOR MANAGER OF DIGITAL
ARCHITECTURE, VORWERK

“The main benefit of [Red Hat] Fuse is that it gives us a standard integration architecture approach and a single point of integration with our systems, rather than point-to-point solutions that can be harder and more time-consuming to maintain.”

LEAD SOLUTIONS ARCHITECT, EDM¹

THE BENEFITS AND CHALLENGES OF THE IoT

The Internet of Things (IoT) connects the physical world of things to the digital world of IT infrastructure to gather data never previously available. However, the massive volume of raw data generated by hundreds, thousands, even millions of endpoint devices has created challenges for enterprises. Red Hat helps enterprises and partners use new and existing data streams to create unique value, improve customer engagement, and generate new business opportunities. Red Hat's technology solutions help enterprises and partners collect, communicate, transform, store, and act on critical data generated by the IoT.

OVERCOMING IoT OBSTACLES

IoT projects can be complex. Red Hat can help you:

- Seamlessly manage and connect disparate devices.
- Integrate and transform data reliably and securely.
- Connect operational technology to enterprise IT.
- Store, manage, and act on analyzed data.

Red Hat provides an extensible, security-focused, consistent foundation for IoT that:

- Is mature, flexible, scalable, and easily manageable.
- Enables connectivity, interoperability, and services.
- Supports open standards.
- Assists with regulatory compliance.

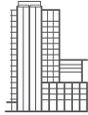
From edge devices to gateways, datacenters, and the cloud, Red Hat's foundational technology assists across the IoT life cycle from development to production.

Additionally, in conjunction with its partners in the open source community, Red Hat has built an enterprise-ready, end-to-end architecture for IoT that:

- Securely connects and manages distributed IoT devices and gateways.
- Simplifies data flow management with intelligence and analytics at the edge.
- Provides a comprehensive analytics and data management platform.
- Enables modern cloud-native application development, delivery, and agile integration.

To learn about the end-to-end architecture, read the technology overview at <https://www.redhat.com/en/resources/open-source-architecture-iot-cloudera-eurotech-technology-overview>.

¹ “EDMI Europe transforms logistics management with Red Hat Fuse.” Red Hat. 2017.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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TECHNOLOGY SOLUTIONS

Solid foundation. Red Hat® Enterprise Linux® provides the security, reliability, and performance needed for IoT environments. You can simplify the deployment and operation of your IoT system by standardizing on a single operating system for datacenter, cloud, gateway, and x86 or Atom-based devices.

Enterprise integration. IoT implementations require data, devices, applications, and processes to be integrated with each other and with back-end systems. Red Hat Fuse is a flexible integration platform that enables rapid integration across the extended enterprise. It facilitates data transformation, handles large volumes of data generated at the edge, and processes summary data to be used for deep analysis.

Data transport middleware. Red Hat AMQ enables real-time messaging to integrate applications, endpoints, and devices. This flexible, high-performance messaging platform delivers information easily, reliably, and safely.

Business rules middleware. Red Hat Decision Manager determines the triggers for field-level information analysis, prompting action based on predefined parameters. Summary data is culled in conjunction with real-time data caching in Red Hat Data Grid, avoiding transmittal of extraneous device information and sending only streamlined data to the datacenter.

Data storage. IoT solutions require a data storage layer to intermediately store data that may be needed for tactical analysis, regulatory requirements, and long-term analysis. Red Hat Storage manages data in physical, virtual, and cloud environments, combining file and object storage with a scale-out architecture to manage petabyte-scale data growth in a cost-effective manner.

Design modularity. Container technology allows you to host multiple applications on a single device, on a gateway, or in the cloud, and repurpose those applications across architecture tiers. Red Hat OpenShift® is a flexible container application platform solution that lets you quickly develop, host, and scale IoT applications across private, public, and hybrid cloud environments.

Automation and management. Configuration management and application deployment capabilities are needed to provision, update, and apply security patches across IoT devices. Red Hat Ansible® Automation reduces the complexity of managing components in distributed, multi-tier IoT systems.

Mobile applications. Mobile applications bring the IoT closer to users, providing visibility to the IoT system and enhancing the user experience. Red Hat Mobile Application Platform allows developers to develop and deploy mobile apps in an agile and flexible manner with open technologies and standard toolkits.

CONCLUSION

Red Hat open source solutions keep you current in the changing environment that is the IoT, helping you avoid locking into proprietary technology that could hinder future innovation and flexibility. Red Hat can help:

- Bring intelligence to the edge for real-time decision making.
- Bridge the gap that exists between IT and operational technology.
- Build an IoT platform to deliver internal or external services.
- Provide an open source foundation on which to build your IoT solution.
- Offer, with its partners, an end-to-end architecture for the IoT.

Visit <https://www.redhat.com/iot> to learn more about Red Hat and the IoT, or contact the Red Hat Global Sales team at iotquestions@redhat.com.