

Internet of Things at Enterprise Scale



IoT Is Transforming Industries

By 2025, 75.4 billion devices will be connected to the Internet,^[1] transforming every industry around the globe.



IoT in health and wellness will generate a global economic impact of **\$1.6 trillion**

Remote patient monitoring
Supply and equipment tracking
Workflow optimization



Smart Cities are projected to save **\$4.6 trillion** with IoT globally^[2]

Real-time traffic management
Smart street lighting
Predictive crime prevention



The Industrial IoT will generate an annual economic impact of up to **\$3.7 trillion** globally

Predictive maintenance
Self-optimizing production
Automated inventory management

Enterprise IoT Is Hard

Connecting thousands of devices introduces new challenges to traditional operations environments.

SCALE



Managing, storing, directing large volumes of data

more than
1.6ZB
(zettabytes)

IoT data by 2020^[3]



Monitoring, operating and upgrading huge numbers of devices



Scaling projects up and down in response to business needs

33%

IoT value dependent upon multiple solutions working together^[4]

45%

Require high scalability from an IoT platform^[5]

COMPLEXITY



Incorporating diverse “things” and communication protocols

49%

Have difficulty integrating sensors/actuators into their IT infrastructure^[6]



Integrating sensor data in new formats

40%

IoT value to be unlocked by requiring multiple solutions to work together^[7]



Augmenting legacy systems with modern architectures

42%

Investing in cloud services for IoT^[8]

SECURITY



Expanding attack surface increases risk

over
25%

Enterprise attacks that will involve IoT by 2020^[9]



Increasing potential exposure of personal information

62%

Cite privacy as their top IoT concern^[10]



Adding insecure devices introduces vulnerability

70%

Connected IoT devices that lack basic security safeguards^[11]

Take Control of IoT

Six best practices for reducing IoT complexity and achieving **secure, enterprise scale IoT**.



As enterprises prepare for the onslaught of upcoming IoT use cases, VMware IoT solutions ensure your business is ready to support them. **VMware can help you simplify IoT complexity, improve the reliability and security of your IoT infrastructure, and accelerate the ROI of your IoT use case.**

With its core expertise in Device Management, Operational Analytics, Security, and Cloud Management, VMware is working with strategic IoT partners including Deloitte, ThingWorx, Fujitsu, Harmon, Eurotech, Atos, DELL, and many other IoT providers to help meet the requirements of IoT across things, edge, and platforms.

Manage Broader | Operate Smarter | Protect Better | Innovate Faster

^[1] Electronics360

^[2] Cisco White Paper

^[3] Forecast by ABI Research

^[4] IDG IoT Study Internet of Things

^[5] IDG IoT Study Internet of Things

^[6] IDG IoT Study Internet of Things

^[7] MGI: IoT: Mapping the Value Beyond the Hype

^[8] IDG IoT Study Internet of Thing

^[9] Gartner

^[10] Cisco White Paper

^[11] Global State of Information Security® Survey 2015

vmware

Pulse™