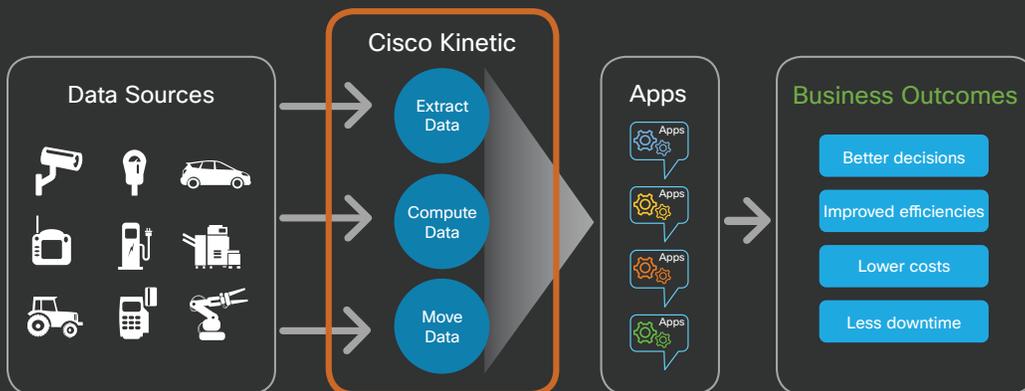cisco Kinetic

Unlock the value of your IoT data

Get real business value from all of your IoT data. Use the power of the Cisco® Kinetic platform to extract, compute, and move data from your connected things to various applications – and get maximum business benefit.

Realize the full potential of your IoT data to drive better business outcomes

The data produced by all your things is a high-value asset that can change the trajectory of your business — if you can make full use of it. But that can be challenging when you're working with disparate things and a variety of applications that may live in edge or fog nodes, your data center, private clouds and/or public clouds.
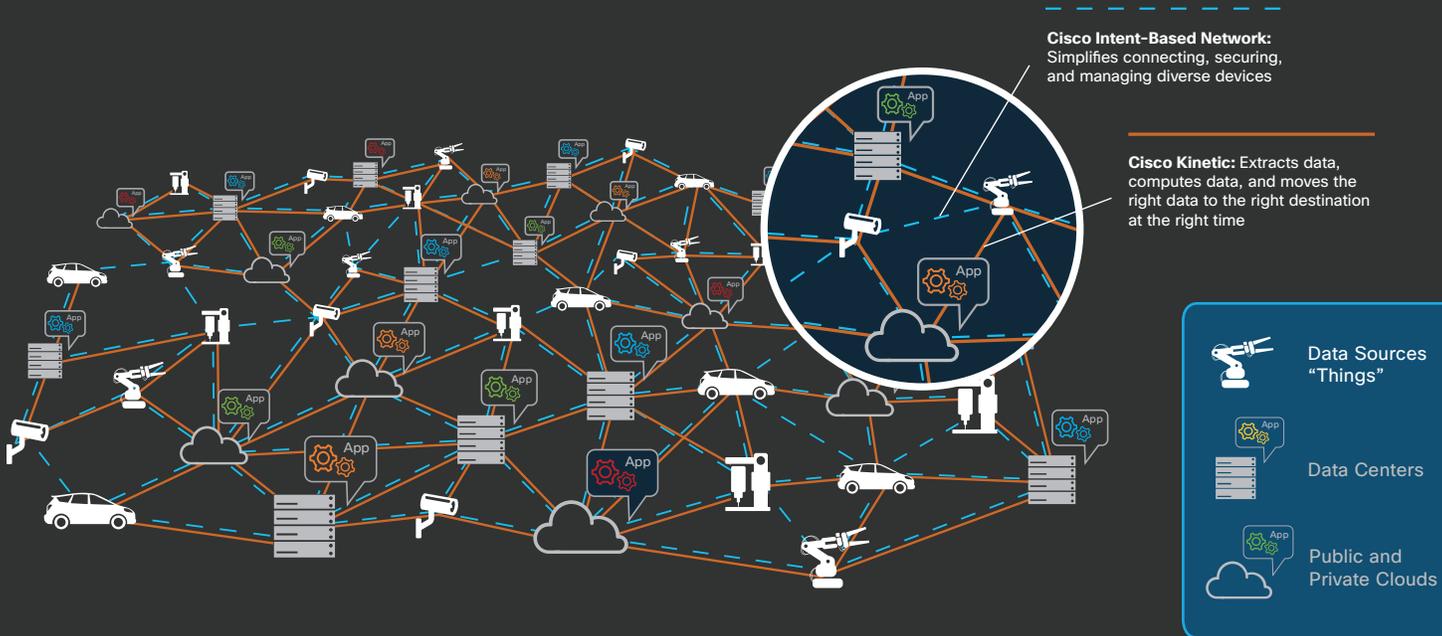
Move the right data to the right applications at the right time with Cisco Kinetic.

Cisco Kinetic makes it easy to connect distributed devices ("things") to the network — then extract, normalize, and securely move data from those devices to distributed applications.

Plus, this platform plays a vital role in enforcing policies defined by data owners, as to which data goes where, and when.

Meet the challenges of your highly distributed IoT ecosystem

Cisco Intent-Based Network: Simplifies connecting, securing, and managing diverse devices

Cisco Kinetic: Extracts data, computes data, and moves the right data to the right destination at the right time

App

Data Sources "Things"

Data Centers

Public and Private Clouds

Cisco Kinetic is a new class of platform – an IoT data fabric. This distributed system of software streamlines your IoT operations by performing three key functions. Cisco Kinetic will:
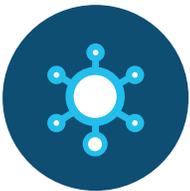
Extract data from disparate sources ("things"), regardless of protocol and transform it, making it usable by the applications that provide business value.

Compute data anywhere from edge to destination to provide processing where it's needed. This enables fast decisions at the point of action, dramatically reduces latency, and makes most efficient use network resources.

Move data programmatically to get the right data to the right applications at the right time. The platform serves the need for data distribution in multi-cloud, multi-party, and multi-location situations — executing policies to enforce data ownership, privacy, and security.

CISCO

Connect, automate, scale

The Kinetic platform is a scalable, open system, adaptable for a variety of use cases across a broad ranging of industries. Its modular design is well suited for companies who want to get a fast start on their IoT journey and grow.

Key features:

Software connectors	Extract data from disparate sources using wide variety of protocol adapters.
Data transformer	Converts data from disparate sources to a common format and precision to simplify the construction of and ingestion by applications.
Edge & fog processing	Performs complex rules on data in motion to intelligently reduce, compress, and transmit data in an optimal way. Adds compute power anywhere in the network (both at the edge, and consolidating and processing data from multiple edge nodes to further reduce it before sending it on to next destination, for example.) Enables critical decisions to be made and appropriate actions taken without the expense and delay involved in processing everything at a higher location in the data flow topology.
Data models	Enable you to define structure for various data types and collections of data you want to share.
Data controls	Enable you to define data flow policies – which data goes to which apps at which time.
Northbound application connectors	Allows for subscription to data by authorized applications and services.
Cloud-based gateway management	Instantly provision remote Cisco 8x9 Industrial Integrated Services Routers (IR8x9) gateways. Monitor and maintain health on an ongoing basis. Manage Cisco IOx application environment configuration and software at scale from a single pane of glass. Deploy micro-services to Cisco containers on Cisco gateways and manage application lifecycle, bulk updating when needed.

CISCO

The Cisco Kinetic platform includes three key modules

	Gateway Management Module (GMM) – to provision, monitor, and manage gateways at scale
	Edge & Fog Processing Module (EFM) – to enable computing on distributed nodes of the network
	Data Control Module (DCM) – to enforce policy and get the right data to the right apps at the right time

Count on Cisco for comprehensive IoT solutions

Kinetic layers on top of the Cisco intent-based network, which simplifies the process for securely connecting and managing a diverse set of devices, an essential foundation for IoT. Cisco security technologies are integrated across the stack, at both the network and the software layer.

Intent-Based Network + Cisco Kinetic for a distributed environment	Neutral Data Custodian Trusted Rule Enforcer	Trusted Cisco security at both network & software level across the stack

Learn more

Visit www.ciscokinetic.com

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