

# INTERNET OF THINGS

## IoT

Spark is investing significantly into IoT networks and platforms to support the anticipated wave of 'connected things', enhancing operational efficiencies, improving productivity and driving new revenue opportunities across various industries.

Connected car, smart cities, asset management and smart metering are examples of IoT use cases where our capabilities are enabling exciting innovation and solutions.

Our IoT capabilities are focussed across device solutions, connectivity management, and IoT networks.



### IoT Devices

Extensive range of devices including modules and sensors across LTE and low power network options, via our supplier network.



### Connectivity Management

Automated provisioning process ensuring seamless IoT device deployments.



### IoT device lifecycle management

Management of connection profiles, diagnostic tools for fault management and automation rules to control device behaviours.



### API Programmes

Leverage API functions to automate and streamline your business processes to support your IoT programmes.



### Dual IoT Network Strategy

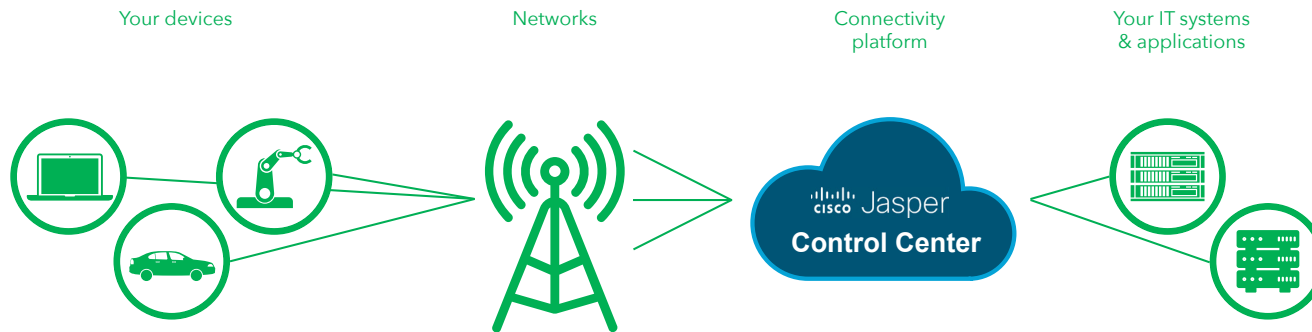
Leverage the unique network characteristics of LoRaWAN™ and LTE Cat M1 to meet the requirements of your IoT applications.



### Analytics

Gain better insights and understanding of your IoT deployments through service and usage analytics.

## Automated connectivity management for all your devices globally



### Spark Connected Mobility powered by Cisco Jasper

**Cisco Jasper is a global Internet of Things (IoT) platform leader. Spark partners with Cisco Jasper to provide you with an automated connectivity management platform (Control Centre). This ensures the secure and reliable delivery of your mobile data services.**

#### Control Centre:

A cloud-based platform that automates the connectivity of your devices. This will enhance customer experiences and drive revenue.

#### Lifecycle Automation:

A complete automation engine that lets you manage your devices by exception, reducing headcount and costs - both for initial deployments and ongoing operational support.

#### Monitoring and Diagnostics:

Near real-time diagnostics and analytics allow you to identify and respond to unusual device behaviour before it becomes a problem.

#### Comprehensive Security:

Multi-Layered security controls to safeguard customer data, your devices and IT systems.

#### Cost Management Controls:

Near real-time cost monitoring and controls lower your TCO and eliminate unexpected spend.

#### Back-end Integration:

A large application programming interface (API) library to manage devices, change rate plans, and much more. Automate your critical business processes and leverage the Cisco Jasper partnerships with technology platforms from Microsoft, IBM, SAP, Salesforce, and more.

#### Analytics:

Service and Usage analytics providing insights from device, network and service platforms data - detecting trends, patterns and events.

## Connected IoT Low Power

Our low power network uses LoRaWAN™ technology for solutions where device battery life is important.

Key features include:

- Supporting both uplink and downlink communications
- Up to 10 year battery life on devices
- Unlicensed spectrum makes it easier to extend coverage
- Affordable connectivity for SMS-type data packets

\*LoRaWAN™ is a trademark used under license from the LoRa Alliance™

## Connected IoT Mobile Lite

Our power efficient, low bandwidth data network uses Cat-M1 technology for more regular transfer of data.

Key features include:

- Lower modem and connectivity costs than LTE connections
- Power saving mode extends battery life
- Nationwide rollout completed providing 98% of population coverage

## Connected IoT Mobile

Continuous connectivity for real-time or data intensive solutions using 3G/4G technology.

Key features include:

- Real-time diagnostics
- Carrier-grade coverage
- Reputable Jasper management platform
- Automated inventory management
- Self-service centre allows you to optimise and automate your connected service lifecycle

Talk to your Spark Wholesale business manager about Control Centre Advanced or IoT trial kits, or visit:

[SPARKWHOLESALE.CO.NZ](http://SPARKWHOLESALE.CO.NZ)

\*\* See [sparkwholesale.co.nz/IoT](http://sparkwholesale.co.nz/IoT) for coverage maps.