

INTERNET OF THINGS

IoT

Spark is investing significantly into IoT networks and platforms to support the anticipated wave of 'connected things' to the internet, driving operational efficiencies and revenues across economies and industries.

Spark Wholesale are committed to providing an IoT product suite that will empower service providers to drive innovation across many 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.



Connectivity Management

Automated provisioning process eliminates dead on arrival scenarios to ensure seamless device deployments.



IoT device lifecycle management

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



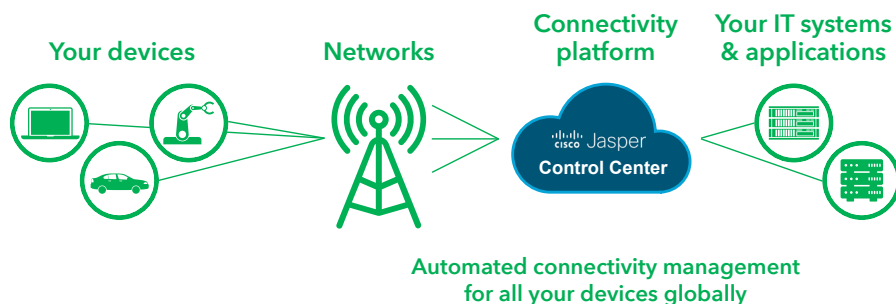
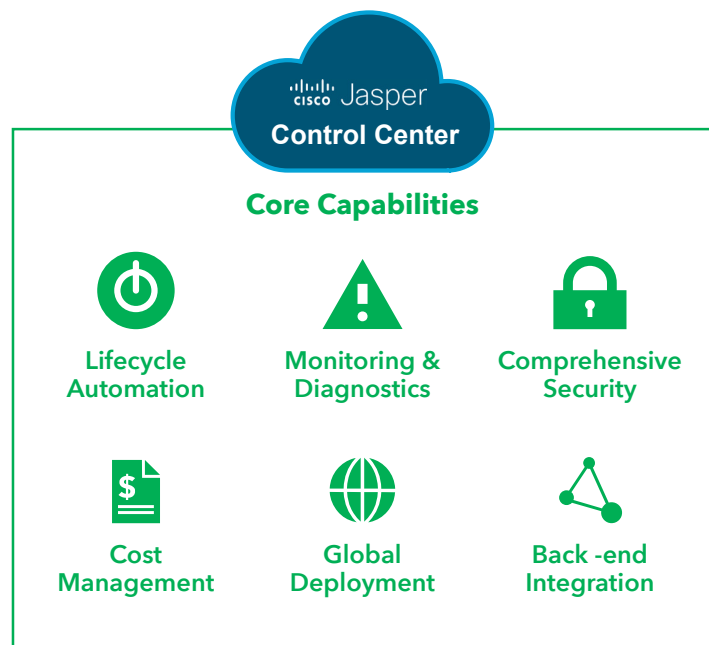
API Programmes

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 LoRa WAN and LTE Cat M1 to meet the requirements of your IoT applications.



Talk to your Spark Wholesale Account Manager about Control Centre Advanced and IoT trial kits or visit:

SPARKWHOLESALE.CO.NZ

Spark Connected Mobility powered by Cisco Jasper

Cisco Jasper is a global internet of Things (IoT) platform leader. Spark has partnered with Cisco Jasper to provide you with an automated connectivity management platform (Control Centre) to ensure the secure, reliable delivery of your mobile data services. Control Centre is a cloud-based platform that automates the connectivity of your devices and 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.

Spark's dual-network strategy

Spark is implementing a dual-network strategy for IoT, focussed on the current deployment of LTE Cat-M1 and the roll-out plan for the commercial launch of its low power LoRa network. This strategy has been deployed to provide network capability for a wide range of IoT use cases. This strategy involving both M1 and LoRa is consistent with the path of many European, Asian and US telecommunications companies.

LTE Cat-M1

Spark have commenced trials of a LTE Cat-M1 (M1) network ahead of delivering a commercial network early in 2018. This new Internet of Things (IoT) capability operates on our core 4G network, covering 95% of the places New Zealanders live, work and play. LTE Cat-M1 is a secure, high-quality network, ideal where sensors and devices are transferring data regularly and real-time access to that data is critical.

Spark are working with customers on a broad range of use cases for Cat-M1 including vehicle telematics, energy smart metering, smart cities and smart health applications.

LoRa WAN

As part of Spark's broader investment in IoT capability, we have begun deploying a national LoRa IoT network that will cover more than 70% of the NZ population by July 2018 and around 80% of the population by 2020. The LoRa network will suit IoT use cases that require low power consumption and long battery life at relatively low cost, complementing our LTE network which is designed to support higher bandwidth use cases.

Spark has been trialling LoRa technology for the past year via a trial network in the Matamata-Piako region, partnering with Farmlands, NIWA, Balance and Agri-Nutrients to test innovative rural IoT solutions. Other proof of concept use cases have included health & safety and asset management applications.

Spark is also engaged with Actility, the leading global platform provider for LoRa, to provide the network and device management platform that will enable our customers to leverage a global LoRa ecosystem.