ThingSpace Services are a set of tools that simplify device lifecycle management for our wireless Internet of Things (IoT) customers. We provide cellular IoT connectivity services, making it simpler for customers to implement, secure and manage their solutions.

End-to-end IoT solutions.
Unlike many solutions that require new network infrastructure and on-premises equipment that is costly to set up and maintain, Verizon offers a cloud-based platform-as-a-service (PaaS) alternative that reduces the barriers to change. By removing the headaches of supporting expensive new networks and servers, Verizon enables you to focus on your core competencies.

Coarse Location Services.
Keep track of your IoT devices wherever they work. Location data is a key element to a comprehensive IoT solution. However, knowing the precise location of your devices or machines isn’t necessary for many IoT applications. For example, in IoT applications where assets are fixed or have limited movement, asset location is used more to validate the asset position than to track its movement. In many cases, a coarse or rough estimate of where your devices are located will meet the needs of your application or use case.

Using ThingSpace Device Location Services to collect coarse location data can also be less expensive, use less energy and eliminate the need for incremental chipsets or sensors. This is what Device Location Services can provide by helping you keep track of your IoT devices virtually anywhere they’re operating on our network.

You get actionable data, while preserving device power, lowering deployment and data collection costs, and simplifying maintenance. You’ll be able to not only identify and locate all of your 3G and 4G devices on the network but provide more context to the device data you collect and use for reports, maps and websites.

Our Device Location Services can help you:
- Locate IoT devices anywhere on the Verizon network
- Generate location reports to review and share
- Manage consent and privacy requirements
- Report and log the last known location of devices

Benefits:
- Increase visibility to IoT assets
- Lower cost of locating and retrieving devices

Diagnostics Services.
The complexity of IoT ecosystems can make it difficult to identify device or network performance issues without the right tools to detect anomalies and investigate the root cause. From activation and provisioning to remote maintenance of devices, Diagnostics Services support customers’ operations at scale for improved efficiency. With Diagnostics, you can:
- Monitor device network connection status
- Monitor device RF performance, either in real time or historical
- View device ID and provisioned state
- View device software and firmware version

Benefits:
- Troubleshoot suspect devices without need to call Verizon Care
- Determine course of action to fix device problems

Power your IoT development and innovative solutions with the network more people rely on.
SIM-Secure

SIM-Secure protects IoT devices from unauthorized use of SIMs on devices. The service offers a customer-controlled, easy-to-use, over-the-air solution for protecting IoT assets and controlling unwanted expenses by locking a specific SIM to a customer-specific device.

Benefits:
- Reduce fraud or unauthorized use of SIMs
- Greater control over device and data

ThingSpace Services Bundle.

To get more out of your IoT connectivity and simplify management, Verizon offers the Protect, Detect and Respond bundle, a collection of value-added services to enable security protection, detection of issues and a means to respond to those issues. The ThingSpace Services Bundle provides access to software management for modules, coarse location and network diagnostics tools, and SIM security.

For a fixed cost per line, you can:
- Protect your SIMs from unauthorized use by binding the SIM to the device
- Host, manage, schedule and distribute baseband firmware updates to devices already deployed in the field
- Locate 3G and 4G devices, using location data for reports, maps, websites
- Monitor device network connection status and provisioning state

Benefits:
- Complete a tool set for IoT device lifecycle management
- Improve efficiencies for IoT device lifecycle management
- Improve visibility and security for IoT assets

Software Management Services.

IoT solutions can range in size and scope with up to thousands of connected devices spread across a building, plant or large geographical area. High-touch truck rolls and technician dispatches to troubleshoot or upgrade these devices can be time-intensive and costly. ThingSpace Software Management Services can help you monitor, configure and update your IoT devices using firmware-over-the-air (FOTA) technology. This will help you prevent downtime and maintain the compliance of your Open Mobile Alliance Device Management (OMADM) and Lightweight Machine-to-Machine (LWM2M) devices.

Through the ThingSpace Manage portal and/or the ThingSpace application programming interfaces (APIs), you can:
- Host firmware versions
- Manage device licenses and subscriptions
- Schedule firmware upgrades and run campaigns
- Report firmware history and campaign status

Benefits:
- Improve product performance
- Increase coverage and operational speed
- Reduce truck rolls
- Quickly address security vulnerabilities
- Easier remote management
- Fast & reliable connection

Learn more.

Contact your Verizon Wireless business specialist to discover how ThingSpace Services can streamline the way you manage your IoT deployments. Or, visit thingspace.verizon.com.

To learn about certified devices or modules on the Verizon Network, please visit opendevelopment.verizonwireless.com.