

Telstra's IoT Platform and Solutions



New ways to transform your business.

Today, the Internet of Things (IoT) has the potential to transform your business. You can benefit from cost reduction, business efficiencies and improved customer experiences. Not to mention highly innovative and profitable new business models.

We can offer you industry leading IoT and Machine-to-Machine (M2M) services – hosted in a secure Private Cloud environment – providing you with everything you will need to successfully implement an IoT solution.

At Telstra, we've been embracing the 'Connected Things' revolution since its inception. Our expertise in M2M solutions is well established, and now we're at the forefront of IoT.

How the IoT platform works

A fully integrated delivery and support model

Now you can effortlessly manage all your IoT devices from a single, centralised location and integrate them with back-end applications in near real-time. No matter how many IoT devices and sensors you have, you'll have full control over all devices, data, connections, back end and costs.

We've helped many businesses with innovative solutions – and in virtually every case, given them a compelling, competitive edge. We've achieved such results by carefully tailoring our approach to customers' specific business needs.

We're ready to help you do the same. You can tap into our broad-based skills in connectivity, data exchanges, applications, and best practice implementation. Our mobile network is the most extensive and advanced in Australia, and we have alliances with leading solution companies.

The benefits of IoT enabled capabilities are compelling, and the economics have never been better.

Plus you can reduce your administrative overhead significantly – without any technical know-how.

The platform utilises a highly modular, scalable and cost-efficient framework. It will help you meet your solution development demands quickly. With minimal complexity, you'll gain an advanced forward-looking capability of your business operations.

So let our global IoT enablers and capabilities connect your sensors, devices and machines. We'll make them all smarter, so you can keep track in near real-time and react accordingly – then reap the benefits of lower costs and optimised processes.



Try and Buy Telstra IoT Platform

We encourage you see for yourself the ease and speed at which your platform can integrate with your existing technology and provide visibility and control of your connected assets. Register for your 30-90 day complimentary trial at buyiot.telstra.com

IoT Platform Capabilities	Description
Device Connection	Communicates with the devices in the field. It can easily support any wireless and fixed network, and new device types by adding 'connectivity profiles'.
Information Processing	Processes data from the Device Connection layer. Enables configuration of business rules to translate data received from devices into business events that can be recognised by IoT applications for further actions.
Information Warehousing	Data from the Device Connection layer or business events from the Information Processing component can be stored by the IoT Platform for later retrieval and processing. You may use this information to create general or customised visualisations. Configurable reports can be generated based on the stored information.
Application Integration	The communication and common services backbone of the IoT platform. Applications can subscribe to information or services. It's responsible for providing the right application with the right platform capabilities through advanced application programming interface (API) capability.
Services	The IoT Platform provides multiple standard interfaces to the external world, using web services for integration. Applications can configure different elements (eg devices or environments, integrating with enterprise back office systems or common platform capabilities like geo-fencing) in the IoT Platform.
Portal	Allows users to configure the platform (user groups, permissions, business rules and visualisations) for specific needs. Using individual building blocks, components can be configured to view data in the information warehouse and manage the IoT Platform based on your requirements.

IoT Platform Features	Benefits
<p>Unified, easy to use interface Intuitive graphical user interface with multiple customisation levels, maps, data information and device parameters – display details such as:</p> <ul style="list-style-type: none"> • overview of single and grouped devices, transaction details and statistics, access to configurable reports • visualisation of device positions on maps, device data with direct link to device details • creation of configurable reports, export of reports, periodic sending of reports to subscribed users. 	A highly intuitive user interface simplifying the process of connecting and managing devices for the most experienced developers and beginners alike.
<p>High availability with a service level target of 99.95%</p>	Highly reliable platform. Service Level Targets of 99.95% for the Platform and Hosting Component.
<p>Near real-time alarms and notifications Offers standard and custom rules options for near real-time alarms and notifications, alerting misuse or malfunction of connected devices.</p>	Actionable data and insights can be relevant to your exact business needs.
<p>Zero touch device management Connect and access all of your devices, no matter where they are, with Over-the-air (OTA) functionality. Manage their life cycles individually or as groups – monitor, manage configurations, control settings, and automate software deployments.</p>	Future-proof your entire device management life-cycle – across all your access technologies and device types – with OTA verification of functions, testing of performance and software upgrades.
<p>Flexible user management Extensive built-in security capabilities to manage users, roles, user groups, device groups, with full integration with Microsoft Active Directory, and certain external LDAP (Lightweight Directory Access Protocol) data stores.</p>	Sophisticated authentication and authorisation that caters for any business security model.
<p>Powerful tools and web services for integration with 3rd party applications Seamlessly integration framework extends the IoT Platform into your own web and IP-based applications or other embedded devices. Using the latest industry web 2.0 HTTPS (Hyper Text Transfer Protocol Secure), MQTT (Message Queue Telemetry Transport), SOAP (Simple Object Access Protocol), XML (Extensible Markup Language), RESTful API standards, with mash-up capabilities, major vendor libraries and software development in C/C++/Java language.</p>	One platform with advanced integration capabilities – providing a one-stop-shop for you to build scalable, inter-operable, production-grade extensions to any IT system, eliminating time lost to working with disparate technologies.
<p>Seamless device integration Open platform – access technology-agnostic, with pre-configured or custom device communication profiles. Data transmission optimised based on network protocols and availability – supporting IPv4, TCP/UDP, LWM2M (Lightweight M2M), HTTPS, TLS and other industry leading communication standards.</p>	Connect any type of devices over any network protocol – today and in the future.
<p>Speed of deployment Architected on a scalable infrastructure – add, remove, and reconfigure platform services on the go.</p>	Easily scales from the from edge to cloud as your business needs change.
<p>Big data Intelligent information processing and storage A proven and comprehensive data model, purpose-built for handling large streams of continuous information, storing, managing and extracting value from IoT data – all fully encrypted.</p>	Efficiently store data in an easy to access high performance information format – moving you beyond monitoring the now, to assessing future events.
<p>Highly secure Built-in device identity management and HTTPS/SSL authentication, and encryption from the device to the platform. All data is stored locally in a fully redundant environment, so your IoT solutions are secure by design.</p>	Peace of mind with a comprehensive set of end-to-end connected device and network security tools, which can be trusted to cover all your security needs – all housed in a high availability Platform as a Service (PaaS) environment.

IoT Platform Features	Benefits
<p>'Pay-As-You Grow' pricing plans Flexible pricing models based on your business requirements.</p>	<p>Avoid the high cost of capital investment and in-house management – profit from a PaaS model which scales down your investment in IT infrastructure and operational resources. Combined on a single bill to make budgeting simpler.</p>
<p>Improve business capabilities Harness the real power of Internet of Things using our "out of the box" reports and analytics with minimal efforts that powers you with business intelligence to compete in the market place.</p>	<p>Near real-time data aggregation transforms data into proactive information that enables you to gain insights to the past, anticipate what will happen going forward and maximise opportunity.</p>

How IoT solutions work

You name it – we can make it smarter

Many organisations want to quickly address the need for increased performance and greater differentiation, while lowering total cost of ownership.

We'll tailor business-specific IoT Solutions to meet your needs.

We have IoT partners with broad industry expertise – employing a tried and true development process to custom-design IoT Solutions. Our partners collaborate with you to plan, develop, build, deploy and (if required) manage your IoT solution.

Our IoT capability set brings together core capabilities in a single, integrated delivery and support model.

IoT Solution Features	Benefits
<p>Experienced solution partners High calibre vendors, with experienced development professionals and expertise in many lines of business – with successful IoT track records.</p>	<p>They bring specialised industry knowledge and technology experience and become a seamless extension of your IT capability, adding value to your business from day one.</p>
<p>Best of breed technologies and methodologies Trained in best of breed IoT technologies and industry best practice methodologies in their respective fields.</p>	<ul style="list-style-type: none"> • Wide range of best-of-breed software development tools to suit every application • Ability to integrate legacy systems with new applications • Build functionality that precisely matches your unique business workflow • Changes functionality as your business requirements change.
<p>Experienced project managers Our partners are experienced at managing projects and programs of work for medium to large corporations.</p>	<p>Highly skilled project and program managers to successfully lead and deliver quality project outcomes.</p>

Why Telstra for IoT?

By partnering with Telstra you receive:

- a range on network options so you can implement a cost effective and scalable solution that works for you
- connectivity on Australia's best mobile network to help ensure your IoT Solution is connected
- integrated data and network security options for peace of mind
- end to end partner eco-system delivering a seamless IoT experience
- a range of Telstra approved IoT devices allowing for optimised coverage and performance
- leading-edge platforms to simplify connected SIM and device management (Telstra IoT Platform and Telstra Wireless M2M Control Centre) and data management
- IoT Solutions (optional) specific to your business
- highly skilled resources in IoT design, execution and implementation with over 17 years M2M experience

 [contact your Telstra account executive](#)

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 telstra.com/enterprise/iot

