



# Managing Windows 10 IoT Devices

Published July 15, 2016  
Version 2.0

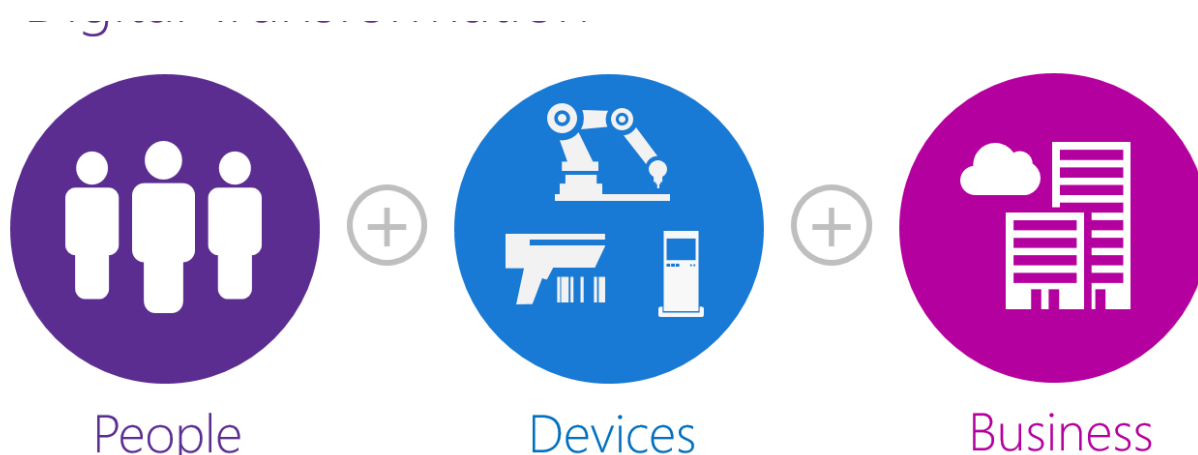
# Managing Windows 10 IoT Devices

## Modern business digital transformation

It is an exciting – and pivotal – time in business. We are witnessing the rapid digitization of assets, unprecedented connectivity between people and technology, and revolutionary ways of doing business and interacting with customers.

Our digital climate is evolving as the number and types of devices continues to expand. We have advanced from being constrained only to traditional devices, such as desktops, laptops, and servers, residing within the four walls of our organizations, to a surging proliferation of mobile and other innovative intelligent devices connecting at the edge of enterprise networks.

This progression is revolutionizing how people connect, communicate, discover information, and take action. We call this “digital transformation.” This new era presents great opportunities, but also new challenges in streamlining device mix complexity and the management experience. Digital transformation demands a user-centric operating system designed to scale across devices. It demands robust capabilities to control and protect the data and configuration settings for your devices. It demands a scalable approach to device management that provides a way to uniformly notify all applications and systems features of changes that may affect their operation or access to resources. As businesses transform, it will become not only impractical, but impossible, to manage each device individually via its own app or to manage small groupings of devices via disparate management stacks. It will become increasingly vital to have uniform management across environments – on-premises, service provider, and Azure. Success will hinge on deploying feature-rich devices on a converged, single platform for management, security, and application development.



Businesses are realizing that they must evolve and invest in change to keep up with, and ultimately lead, this new digital era. To stay competitive, you must plan your digital

transformation. As your device mix grows, how will you power your devices and scale your deployment, security, and management approaches?

## Success in an era of digital transformation

Digital transformation is the future, but perhaps the best way to understand its impact is to look to the past. Success in business has always been about information and timely action; those with the most information have been best equipped to predict the world ahead and act quickly to take advantage of opportunities. To stay competitive, modern businesses must have up-to-the-minute information and the ability to act on that information quickly – or even automatically.

---

To stay competitive, modern businesses must have up-to-the-minute information and the ability to act on that information quickly – or even automatically.

---

In the past, this up-to-the-minute information either was not provided by devices or was provided by a siloed device within an enterprise's ecosystem. Separate assets resulted in fragmentation, low cross-organizational visibility, and lack of insight. Efficiency was reduced, and the disparate lines of data did not deliver as much insight as they could have, given a better, connected system.

In today's enterprises, almost all things can be connected and work together to provide up-to-the-minute information. Devices such as computers, vehicles, machines, or even entire buildings might seem disparate, but when linked together, these assets are the first key to advancing your digital business strategy.

And imagine the potential as your business continues to transform - with an ecosystem of interconnected devices all in constant communication with one another, connections between data-points are almost infinite, allowing you and your business to see problems and opportunities from new angles. Today's number-crunching is amplified by the muscular processing power of the cloud, giving you real-time views of your macro- and micro-environments, as well as critical predictive analysis of future trends.

But digital transformation isn't solely about big-picture forecasting and modeling. It's about components on your production floor reporting on their health before a failure, helping avoid costly production delays. It's about logistics, knowing exactly how much inventory is in each storefront, and having the distribution network replenish automatically without error or delay. It's about smart buildings and offices regulating temperature, lighting, and deliveries based on occupancy and usage in real-time. It's about enabling new mobility and insights scenarios for your workers by making the devices they interact with more intelligent, intuitive, and secure. It's about unlocking new consumer experiences like self-service retail kiosks and interactive digital signage. And we're still only beginning to scratch the surface of what technology will empower

us to do. With so many devices working in concert, digital transformation offers us an unprecedented ability to understand and reimagine the world around us.

---

Digital transformation improves efficiency, enables innovation, and transforms your business.

---

When you connect the intelligent devices your people use with your service infrastructure, you can change the trajectory of your business in real-time. Improve efficiency by monitoring and tracking the health of your investments. Enable innovation by analyzing data from multiple devices or sources in real time. Transform your business by creating new business models and revenue streams.

## Your digital transformation

As your business digitally transforms, you can connect people, processes, assets, and data across your business and operations. This is the essence of the Internet of Things (IoT), shorthand for our rapidly evolving world of smart connected devices. With the Internet of Things, you can better harness data and manage your devices to improve efficiencies, enable innovation and transform your business. Everything is made smarter with connected intelligent devices, working in concert with sensors, a peripherals ecosystem, and applications.

---

Digital transformation starts with creating your Internet of Things by building on the infrastructure you already have in place, using familiar devices and services in new ways, and incorporating the right technology.

---

To be successful in your digital transformation, your business must choose a platform designed for the key attributes of intelligent devices. Intelligent devices must possess natural and intuitive user interfaces to enable ease of interaction for the users. They must have robust security with the systems they connect to and strong protection of the data stored on the device and the data transmitted to and from the device. In order to be able to communicate with a multitude of other devices effectively, an intelligent device must also be interoperable and service-enabled. And it has to be easy to deploy and manage without extra burden.

---

To truly harness the power of your digital transformation, you must be able to easily and efficiently manage the devices you add to your environment, as well as your existing devices.

---

In particular, as demand for devices grows, the management of that growth becomes increasingly impactful. To truly harness the power of your digital transformation, you must be able to easily and efficiently manage the devices you add to your environment, as well as your existing devices. With a variety of device types in your environment – from small sensors to enterprise desktops to purpose-built industry devices – it will be too time- and labor-intensive to manage each device type independently. How will you manage such a diverse mix of devices? How will you apply the correct user roles and policies? How will you ensure predictable user experiences and use of the latest apps? How will you service and update the devices remotely? Will your IT staff need specialized management knowledge and training for each type of device?

A unified management platform is key to your digital transformation strategy. Each device requires consistent management and updating – on its own and in concert with your technology ecosystem – to ensure a predictable, seamless experience. Effective device management demands a way to uniformly notify all applications and systems features of changes that may affect their operation or access to resources. And a robust device management approach allows you to control and protect the data and configuration settings for your devices.

It is imperative to avoid the cost and complexity associated with many discrete management infrastructures. Without a common management platform, digital transformation efforts get stuck in silos, undercut business impact, increase IT burden and exposure to risk, and prevent true scale.

Your platform should also provide you flexibility to fit your unique business needs and roadmap. Your business will need to evolve as devices continue to evolve. Your platform should empower you to manage devices on-premises and in the cloud, and should adhere to standardized protocols to empower you to use third-party management tools. The right platform will support your business's growth and help keep you competitive.

Windows 10 is built to help uncomplicate your digital transformation. Your digital transformation can begin by making your current devices smarter and progress by adding one device at a time. However, it is key to plan for device management scenarios that will continue to empower your digital strategy for years to come. Your business needs a Microsoft platform that helps streamline your device mix complexity and your management experience.

## Microsoft enables business transformation with Windows 10

By choosing Windows 10, you can enable intelligent device capabilities to make a big impact. Windows 10 brings one converged Windows operating system that powers your Internet of Things (IoT) devices and provides an optimized platform for management, security, and application development.

Windows 10 IoT is the family name for the Windows 10 operating systems that run on a wide range of devices – from small intelligent devices to industry machinery.

**WINDOWS 10 IoT ENTERPRISE** is a full version of Windows 10 with advanced lockdown capabilities to enable industry specific device scenarios. Windows 10 IoT Enterprise devices run powerful line-of-business applications and perform specialized functions with enterprise-grade security.

**WINDOWS 10 IoT MOBILE** provides rich security features, smooth application access, and excellent battery life to enable a variety of mobile scenarios. All Windows 10 apps are compatible with Windows 10 IoT Mobile and offer advanced lockdown features and multi-user support.

**WINDOWS 10 IoT CORE** is optimized for smaller and lower cost industry devices. It is designed to power devices like IoT gateways or sensors that are designed to run a single application enabling specific industry scenarios and extending the flexibility of Windows 10 offerings to a yet wider range of specialized devices.

Together, the Windows 10 IoT family provides a unified experience that scales across devices. It is one operating system that powers all your devices. Windows 10 even scales to industry and ruggedized devices, purpose-built industry solutions, small foot print devices, and touch screen conference room displays. Windows 10 delivers a modern, familiar and natural user experience for enterprises that look to gain sustainable competitive advantage across their devices through the power of next generation connected device technologies.

---

Windows 10 brings one converged Windows operating system that powers your Internet of Things (IoT) devices and provides an optimized platform for management, security, and application development.

---

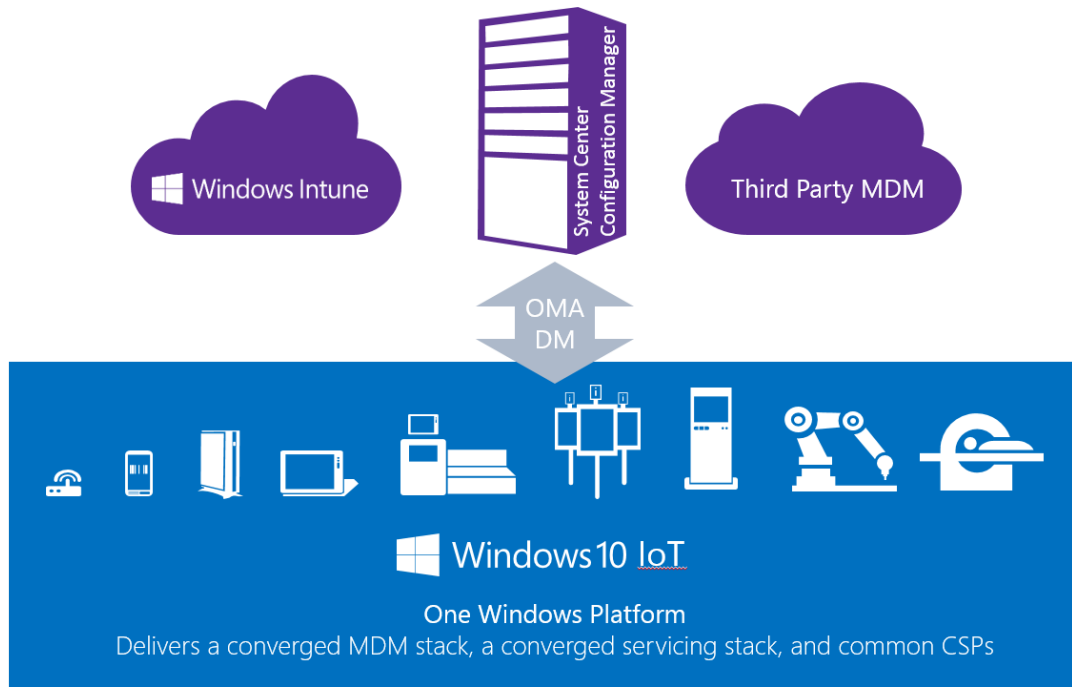
In addition to bringing one operating system that powers all your devices, Windows 10 provides an optimized platform for management, security, and application development for enterprises. Windows 10 devices integrate into the existing enterprise IT ecosystem for deployment and management by Microsoft enterprise management tools and services.

With Windows 10 we consolidate and streamline your device mix complexity, your management experience, lifecycle and support. Windows has always offered device management capabilities that businesses need. Windows 10 IoT will help streamline IT operations and save on IT costs through one management approach – the same as that for PCs and phones.

Windows 10 has extended built-in mobile device management (MDM) capabilities to embrace new mobile-first, cloud-first scenarios and bring MDM capabilities to traditional laptops and desktops. In Windows 10 there are currently over 100 Configuration Service Providers (CSPs) to

read, set, modify or delete configuration settings. The Windows 10 CSP documentation at [www.aka.ms/CSPList](http://www.aka.ms/CSPList) can help you understand the settings that can be configured or queried.

You can manage your devices and applications on-premises and in the cloud with System Center Configuration Manager and integration with Intune.<sup>1</sup> And because of standardization on the Open Mobile Alliance Device Management protocol (OMA-DM protocol), third-party apps can also manage Windows 10 IoT devices. Whatever your scenario, Windows 10 will help meet your management needs.



## Imagine creating and managing your Internet of Things with Windows 10

To visualize the power of Windows 10 and its management capabilities for your Internet of Things, let's consider management scenarios at a hypothetical retailer, Contoso. Today, without the Internet of Things, Contoso operates traditional brick-and-mortar department stores. Sales associates walk the floor assisting customers, but with so many offerings, complete item-specific expertise is functionally impossible for most of Contoso's staff. Customers wander the store's aisles and departments before a point-of-sale purchasing process that's often frustratingly time-

---

<sup>1</sup> At this time, [System Center Configuration Manager](#) and [Intune](#) do not support management of every edition within the Windows 10 IoT family. Presently, all IoT editions can be managed with Configuration Manager. Windows 10 IoT Enterprise and Windows 10 IoT Mobile Enterprise can be managed with Intune; whereas Intune management for Windows 10 IoT Core requires a hybrid Intune-Configuration Manager environment. All editions have open OMA-DM protocol. Visit online resources for the latest information regarding management capabilities.

consuming and cumbersome. Managers struggle to divide their time between the sales floor and operations activities. Time-intensive inventory and loss analysis is pushed further into the night, and the resulting delays and inaccuracies cut against sales opportunities (out-of-stock) or cause inventory surplus (overstock). Inefficiency hurts Contoso's bottom-line from many angles, both obvious and unseen. But Contoso can transform its business with the Internet of Things.

As Contoso brings Windows 10 IoT devices into its environment, its business transforms, enabling real-time access to customer data, operational details, point-of-service systems and stock levels from anywhere in the store. And that is just the beginning. In the following examples, Contoso begins to harness the power of the Internet of Things, first by introducing customer kiosks, which are seen in many retail stores today. Next, Contoso empowers its staff with tablets that serve multiple purposes. And finally, Contoso creates a new revenue stream from retail vending machines. As Contoso adds to its device mix, Windows 10 continues to help streamline device management.

## Customer Kiosks

Contoso begins its Internet of Things journey by placing customer kiosks in targeted locations on the sales floor. Customers can use these kiosks to browse for items in an interactive digital product catalog featuring videos and reviews. The kiosks then suggest correlated products – cufflinks to match a shirt, or cables to connect component electronics – leading to highly effective cross-selling that delights customers. Customers can use the kiosks to find gift registry items. Interactive guides display selected products in all available color-combinations. Analytical data gathered in-store is cross-referenced with market data in the local area to identify precision-targeted promotional items sure to drive sales. When not in use, the kiosks automatically display these targeted promotional items. Smart kiosks give Contoso the power to focus customer attention on the products they're most inclined to buy.

Throughout the day, hundreds of customers use Contoso's kiosks. Each customer must have the same delightful experience – regardless of the previous user's activities and even if the kiosk inadvertently power cycles. IT staff cannot constantly supervise the kiosks, so they must function well unattended. There are several key things Contoso needs in order to create this predictable, seamless user experience:

**PROVIDE A STEADY KIOSK EXPERIENCE ON A REPURPOSED ENTERPRISE DESKTOP** Windows 10 IoT [Assigned Access](#) feature provides an advanced lockdown capability that suppresses the enterprise desktop start screen and launches straight into the desired kiosk application. As the kiosk cycles between users, or power cycles, it automatically returns to the kiosk experience.

**EASILY CREATE READ-ONLY DEVICES, ENSURING A PREDICTABLE USER EXPERIENCE AND IMPROVED SYSTEM UPTIME** Windows 10 offers [Unified Write Filter \(UWF\)](#), which ensures that industry devices used for specific scenarios return to the same known state on a restart for a predictable and reliable user experience. UWF intercepts all writes to a



protected volume and instead writes them to an overlay so they will not persist on a restart. To allow desired changes to persist, UWF provides an exception capability that allows IT administrators to specify files, folders, or registry keys to persist through the write filter. Windows 10 streamlines management of these read-only devices and allows Contoso to achieve its desired experience.

**HELP SECURE UNATTENDED DEVICES BY REDUCING VULNERABILITY AND RISK OF DATA LOSS POSED BY UNAPPROVED PERIPHERALS** Windows 10 IoT is enabled with [USB policy](#), which helps secure devices from unapproved USB peripherals. Contoso's IT staff has the ability to authorize its desired USB devices, meaning the kiosk is protected against unapproved peripheral uses without inhibiting approved business uses.

Contoso's kiosks benefit from other advanced lockdown capabilities, as further described in the scenarios below. See the table below for capability availability across the Windows 10 IoT family.

### Operating System Supported Lockdown Capabilities

Lockdown Capabilities	Windows 10 IoT Enterprise	Windows 10 IoT Mobile	Windows 10 IoT Core
Help protect devices physical storage media & return device to a known state on power cycle	Unified Write Filter	-	Write Filter*
Automatically launch a Universal Windows app on login plus lock access to system	Assigned Access	Assigned Access	Custom Device startup app
Automatically launch a Classic Windows app on login plus lock access to system	Shell Launcher	-	-
Application Allow List	AppLocker & MDM policies	AppLocker & Assigned Access	Not applicable <sup>2</sup>
Settings Allow List	Group policies	Assigned Access	Not applicable <sup>2</sup>
Button / Keyboard remapping & blocking	Group policies	Assigned Access	Not applicable
Suppress toast notifications	AppLocker & MDM policies	Assigned Access	Not applicable <sup>2</sup>
Restrict USB devices/peripherals on system	MDM & Group policies	-	MDM Policies

\*Writer filter available for download separately

Contoso can manage its kiosk devices with Systems Center Configuration Manager (Configuration Manager). Configuration Manager provides a unified interface and an automated set of administrative tools to deploy software, manage settings, protect data, monitor health and enforce compliance across servers, desktops, laptops, and mobile devices. Contoso already uses Configuration Manager to manage its existing enterprise devices and will now manage customer kiosks in the same way.

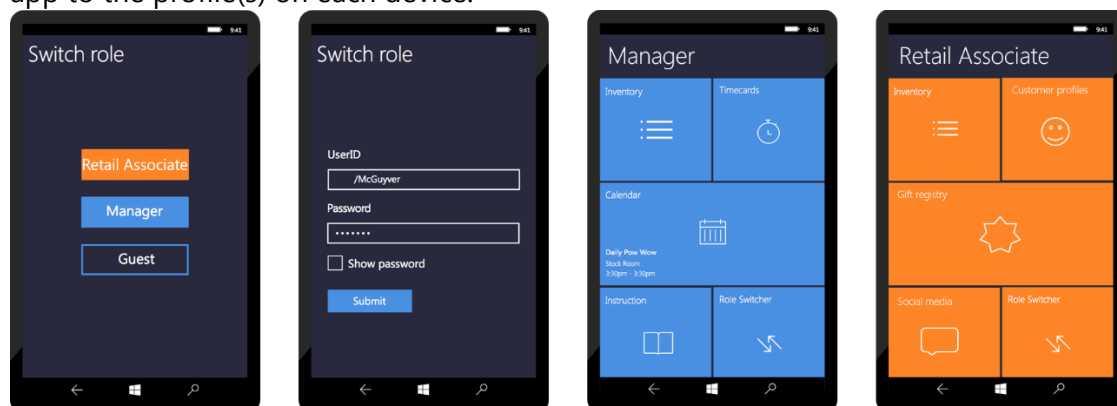
<sup>2</sup> These features are generally not relevant to IoT Core, given the unique nature of these devices. IoT Core is a custom solution that device manufacturers can deploy based on the particular needs of that manufacturer's device.

Using Configuration Manager, Contoso increases its IT productivity and efficiency and decreases the time and cost required to manage its IT infrastructure. Configuration Manager reduces administrative overhead and delivers agile services via automation of systems management tasks. This management approach consolidates Contoso's server, client, and security management IT infrastructure.

## Mobile Point-of-Service

Realizing the power of the Internet of Things, Contoso empowers its sales team with industry mobile devices (IMDs) featuring integrated barcode scanners. Customers once had to choose: the comfort of hands-on comparison shopping; or, the convenience and product review capacity of online retailers. Now, with the help of these intuitive-interface mobile devices, every member of Contoso's sales team becomes an instant product expert without costly training required. Contoso's mobile devices equip sales associates with detailed product information and suggest complementary products – all at the push of a single button. These devices even provide access to customer purchase history and loyalty program data for high-touch engagements. Sales associates use their mobile devices as modern point-of-service devices, delighting customers with personalized checkout. Customers are served quickly, shown more options with less running around, and receive answers without the sales associate leaving their side. Mobile device-based manager dashboards help department managers stay on top of the action. At-a-glance access to critical information allows Contoso's managers to spend more time on the sales floor leading their teams and assisting customers. Behind the scenes, these mobile devices give back-end staff easily access to corporate infrastructure for sales history, inventory levels, and warehouse availability.

**REDUCE TRAINING TIME AND IMPROVE PRODUCTIVITY** Windows 10 IoT empowers Contoso to create [Multi-User Profiles](#) on its mobile devices, thereby reducing training time and improving productivity by helping users focus on the applications important to their specific roles. Each profile can have a distinct theme, application(s), and settings access. Things are always changing, and business is always growing, so when Contoso adds a new app to better serve customers, its IT administrators can log in to the centralized management tool and add the app to the desired user profile(s). The Multi-User Profiles capability significantly reduces IT burden by alleviating the need to manually add the app to the profile(s) on each device.



**PREVENT SYSTEM ACCESS TO REDUCE SUPPORT AND IMPROVE UPTIME** Shared devices, like Contoso's mobile devices, often have dedicated line-of-business apps with keyboards and touch screens for user input. Users should not be able to close the line-of-business app using hotkeys, like Alt+F4 or Ctrl+Alt+Del, and the underlying operating system should not be accessible by the user, so as to provide a consistent user experience on the device. Windows 10 IoT offers [Assigned Access](#) which provides [Input Filters](#), allowing Contoso to manage which keyboard keys are accessible and which gestures are enabled user profiles.

**EASE IT BURDEN BY ELIMINATING ISSUES RESULTING FROM USERS RUNNING UNAPPROVED APPLICATIONS** Contoso needs to reduce the amount of IT intervention on its shared devices by preventing installation or access of unapproved applications or files. Windows 10 IoT includes [AppLocker](#), which helps administrators control which applications and files users can run. These include executable files, scripts, Windows Installer files, dynamic-link libraries (DLLs), packaged apps, and packaged app installers. AppLocker helps reduce administrative overhead and helps reduce the cost of managing computing resources.

These are just a few of the capabilities Contoso can leverage in managing its shared devices. See the table above for capability availability across the Windows 10 IoT family.

---

[Windows 10 brings a consistent management experience across devices, on-premises and in the cloud, all via a single management console.](#)

---

Contoso can choose to manage its mobile point-of-service devices with Intune, which provides mobile device management, mobile application management, and PC management capabilities from the cloud. If Contoso would like to manage these devices with Intune, it can do so alongside devices it chooses to manage with Configuration Manager. Windows 10 IoT empowers Contoso to extend its Configuration Manager infrastructure through integration with Intune. Thus, devices managed with Intune can be viewed in the hybrid Configuration Manager console. Or, Contoso could manage these devices with a third-party application because Windows 10 is standardized with Open Mobile Alliance Device Management protocol (OMA-DM protocol).

## Retail Vending Machines

As Contoso matures in its digital transformation, it can use intelligent devices to create entirely new revenue streams. Contoso had to make a difficult choice in an unpredictable market: stock too much product and bear the burden of unnecessary inventory (including warehousing, labor, and loss), or watch sales evaporate while waiting for back-orders to fill, ship, and re-stock. And in rapidly shifting sales environments, pricing was a guessing-game. Contoso had to open costly brick-and-mortar stores when it wanted to penetrate a new market geography and reach more

customers. The company's online retail sales offered customers convenience, but the added time and cost of shipping proved to be a deterrent to some online shoppers.

With the Internet of Things, Contoso now has its merchandise on display to every potential passing customer, 24/7, with smart vending machines in malls, airports, conference centers and more. Products are never out of stock; the vending machine uploads sales data in real-time to Contoso's entire distribution network, allowing for nimble response to sales trends. And now, Contoso can delight its online customers with the option to pick up purchases when and where it is convenient for them – any time of the day or night. Online sales conversion rates improve. The vending machines report back on their own health – when a light bulb goes dark, another is on its way instantaneously. Sophisticated scanners compile data on the numbers of passersby, the percentage who pause to analyze the offerings, their duration of stay, and sales-conversion percentages. Smart interfaces display product reviews and interactive digital content. The vending machines accept advanced cashless payment systems, feeding payment data to the marketing department for hourly targeted ad-buys, helping Contoso to reach key customer demographics.

**REDUCE DOWNTIME AND PREVENT AWKWARD USER EXPERIENCES** Unattended devices like retail vending machines, digital signs, or customer kiosks should not allow pop-ups or system notifications to interfere with line-of-business apps. Windows 10 IoT includes capabilities for [Dialog & Notification Filters](#) that suppress pop-up dialog boxes and system notifications, ensuring the device is always ready to provide the desired user experience.

**CREATE A TARGETED EXPERIENCE BASED ON A DESKTOP APPLICATION** Contoso's retail vending machines are in remote locations and do not have IT staff nearby. If the user interface inadvertently power cycles, it needs to automatically boot, suppress the start screen, and launch straight into the desired application. [App Launcher](#) empowers this scenario. With App Launcher, devices can be configured to start a Universal Windows App automatically after a user signs-in to a device and to restart the app when the app exits. You can configure the App Launcher to launch different apps for different users.

**CREATE A TARGETED EXPERIENCE BASED ON A DESKTOP APPLICATION AND IMPROVE UPTIME** Contoso needs a way to use a legacy desktop application for single purpose line of business devices plus suppress booting to the default shell experience. [Shell Launcher](#) allows Contoso to replace the default Windows shell with a custom shell. Contoso can use any application or executable as its custom shell, such as a command window or a custom dedicated application.

**TRANSFORM BUSINESS WITH ADVANCED DATA ANALYTIC SERVICES** The advanced analytic capabilities of Contoso's retail vending machines show the power of Azure Internet of Things (IoT) services. With Azure IoT services, Contoso can monitor the activities of the vending machine assets and leverage advance data analytics to adjust pricing to meet demand. Because Contoso leverages Microsoft's cloud platform to enable services

gathered from its devices, it can use Azure services to help move faster, do more, save money, and capture the benefits of the Internet of Things.

As seen in this scenario, Microsoft has a comprehensive set of technology that scales across devices and services with Windows 10 and Azure that will transform your business today.

## Updating devices

As Contoso continues to transform, it will need a plan to efficiently update its devices. A solid updating strategy is paramount to maintaining operational efficiency, overcoming security vulnerabilities, and maintaining the stability of production environments. Contoso, like your business, needs a platform that empowers centralized update management, as well as choice and flexibility in applying updates.

---

Windows 10 empowers centralized update management, as well as choice and flexibility in applying updates.

---

Windows 10 is delivered in a way that provides centralized update management and more choice and flexibility to meet business's needs. With Windows 10 you are able to service and update your IoT devices in the same way as your PCs - using your current assets like Windows Update and Windows Server Update Services (WSUS).

Windows 10 allows you more choice and flexibility in creating update strategies that meet the needs of each of your device types and their uses. In particular, Windows 10 enables you to configure Automatic Update policies to ensure your devices stay up to date. Specify a per-device update approval list, to ensure devices don't install unapproved updates that have not been tested. Schedule your desired maintenance day and time. Choose to automatically update devices on behalf of end-users. Get compliance status of managed devices so you can easily understand which machines do not have the most recent updates.

For some device types and use cases, you may choose to receive updates automatically as they become available. For others, you may choose to deliver updates and fixes at designated intervals after they are released. Windows 10 gives you flexibility to choose your desired servicing cadences for different device types in your environment, as described below.

Microsoft will have several feature upgrades each year, which will be made available after Windows Insider validation periods. After Windows Insider validation, those features will be released to broad market via Current Branch. This is a great opportunity for your business to test and validate new features as they prepare for broad deployment. Selecting some devices in your environment to receive features when they are available to the broad market via Current Branch<sup>3</sup>

---

<sup>3</sup> Current Branch is available across the full Windows 10 IoT family.

provides you an opportunity to test new features before deploying them in your broader environment.

Alternatively, under Current Branch for Business<sup>4</sup> you can also wait to receive feature updates for an additional period of time. This gives you time to test and validate in your environment before broad deployment. Once features are declared business ready and Current Branch for Business begins, you will have an additional period of time to consume that feature upgrade while continuing to receive regular security updates.

For Windows 10 IoT Enterprise devices, Microsoft will periodically declare a Long Term Servicing Branch<sup>5</sup>. Devices on a Long Term Servicing Branch will only receive security updates and critical fixes for duration of mainstream and extended support. This option is ideal for your devices running mission critical systems where reliability is a priority. You have the option to move devices between Long Term Servicing branches using in-place upgrade. Whatever your device mix, the Windows 10 servicing model offers you flexibility and choice to design strategies that meet your business needs.

## Conclusion

Digital transformation is happening today. This seismic shift in the way we understand and process our business environment will oblige new thinking and new approaches. Digital transformation will reward businesses who invest in robust data analytics, who can pivot nimbly and swiftly to meet a rapidly changing external environment. It will shed light on internal processes and open logistical pathways never before imagined. The Internet of Things born from this digital transformation will have the power to connect billions of devices and data points in an interconnected world full of possibilities. But in order to survive and thrive amidst this exciting upheaval, your business must operate with a dynamic, unified platform – one that can harness the power of the cloud and your devices. This platform must enable you to build on the infrastructure you already have in place, using familiar devices and services in new ways, and incorporating new technology. This platform must provide uniform, centralized management, security, and application development. Windows 10 is that platform. Come see how the Windows 10 Internet of Things can help you take hold of the future.

---

<sup>4</sup> Current Branch for Business is available for Windows 10 IoT Core Pro, Windows 10 IoT Mobile Enterprise, and Windows 10 IoT Enterprise.

<sup>5</sup> Long Term Servicing Branch is available for Windows 10 IoT Enterprise.

# Resources

Microsoft and the Internet of Things <http://blogs.microsoft.com/iot>  
Windows 10 <http://windows.microsoft.com/en-us/windows-10/about>

System Center Configuration Manager [www.microsoft.com/configmgr](http://www.microsoft.com/configmgr)  
Microsoft Intune <http://www.microsoft.com/en-us/server-cloud/products/microsoft-intune/default.aspx>

Microsoft Enterprise Mobility <http://www.microsoft.com/en-us/server-cloud/enterprise-mobility/overview.aspx>

Mobile Device + Application Management with Microsoft <http://www.microsoft.com/en-us/server-cloud/solutions/mobile-device-management.aspx>

Windows 10 Configuration Service Provider Reference [www.aka.ms/CSPList](http://www.aka.ms/CSPList)

© 2016 Microsoft Corporation. All rights reserved. This document is provided "as-is." Information and views expressed in this document, including URL and other Internet Web site references, may change without notice. You bear the risk of using it.

Some examples are for illustration only and are fictitious. No real association is intended or inferred.

This document is for informational purposes only. MICROSOFT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS SUMMARY.

This document does not provide you with any legal rights to any intellectual property in any Microsoft product. You may copy and use this document for your internal, reference purposes. This document is confidential and proprietary to Microsoft. It is disclosed and can be used only pursuant to a non-disclosure agreement.