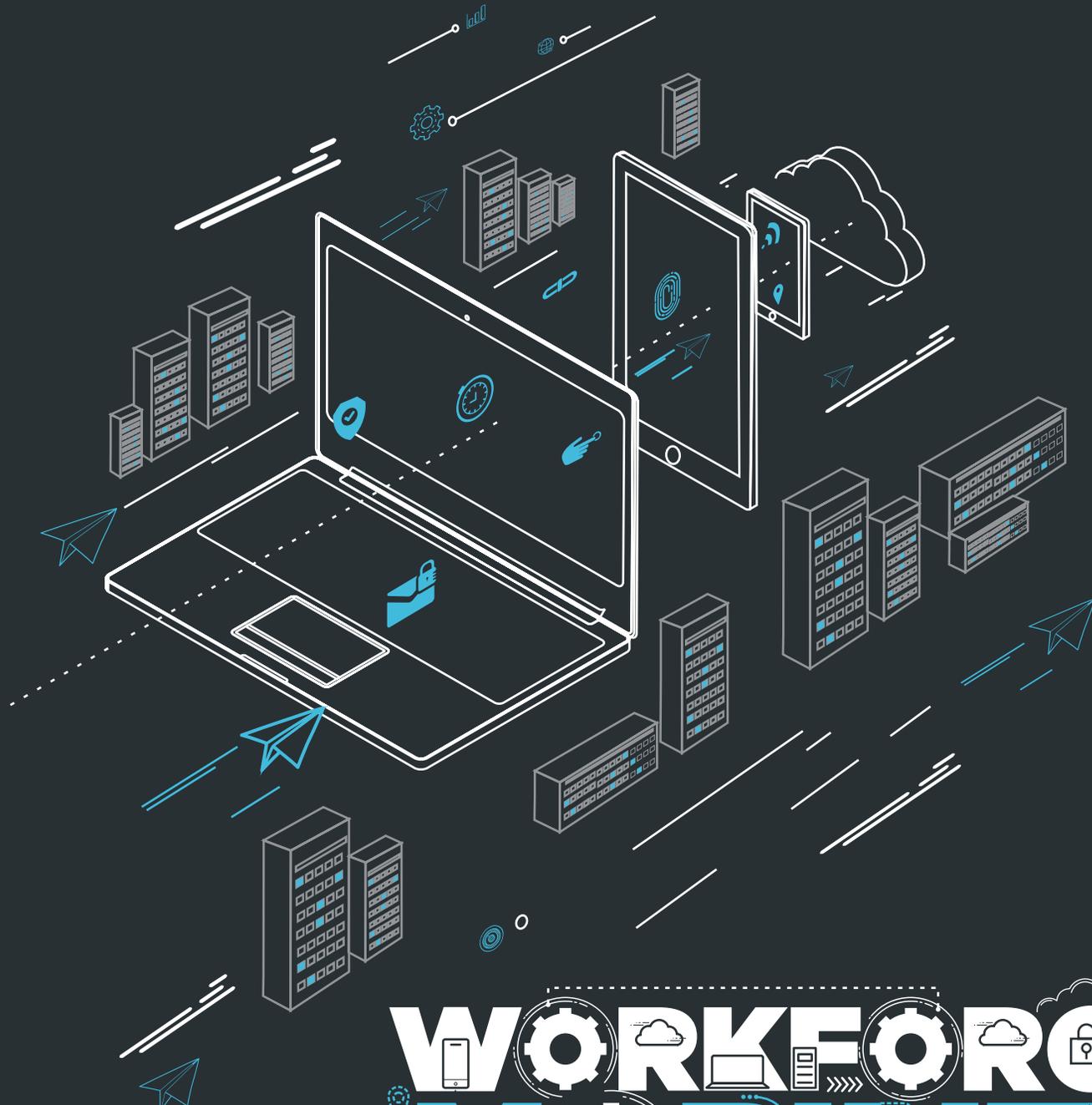


# BUYER'S GUIDE

Lenovo™



# WORKFORCE MOBILITY

TRANSFORM YOUR MOBILE WORKFORCE



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[www.lenovo.com](http://www.lenovo.com)

# Workforce Mobility

Today's workforce is driven by technology and smart devices. Organizations are now equipping their workforce for productivity while on the move. Be it from one country to another or one meeting room to another - the mobile workforce must be able to perform at its best at all times.

Apart from the obvious, which defines mobility as devices that are easy to carry around, the new age mobility is way more than that. The mobile devices are expected to have uncompromised processing capabilities, superior durability, all round security and more. And the IT infrastructure should provide flexibility to the employees to work from anywhere, anytime, and in any way they need to without compromising on IT security and control.

*"The global mobile workforce is set to increase to 1.87 billion people or 42.5% of the global workforce in 2022, up from 38.8% in 2016" - RCR Wireless*

This is where Lenovo steps in. When it comes to keeping your workforce mobile, Lenovo provides step-by-step solutions:

- We provide a range of devices that meets the requirements of mobile employees and IT departments alike.
- We ensure that all the organizational data is secure.
- We equip the organization so that their employees can **work anywhere, anytime, and in any way** with the Lenovo Cloud infrastructure.

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# How to Enable Workforce Mobility

Mobility doesn't always mean traveling. It also refers to the employees who are constantly on the move in the office - in and out of meeting rooms or hopping buildings in a large campus. Mobility also refers to the growing number of employees who choose to work from home. Enabling this mobile workforce needs careful prepping of the IT infrastructure.

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## Mobile Devices

Devices built for mobile employees need to be sleek without compromising on functionalities or performance. These also need to have advanced connectivity options and be durable enough to manage everyday bumps and knocks. With mobile devices powered by Windows 10 Pro, the IT department can control how your employees use business data through Windows Information Protection\* (WIP) thus enabling you to protect organizational data wherever it lives — without affecting your user experience.

\*Windows Information Protection requires either Mobile Device Management (MDM) or System Center Configuration Manager to manage settings.



## Mobile Security

Security has multiple facets. With a mobile workforce, there are always impending risks of device theft, data accessibility, malware attacks, and other security concerns. Hence, IT cannot lose sight or control of any device.



## Infrastructure Solutions for Mobile Apps Deployment

For new age employees, mobile apps are a blessing. Apps help connect employees who are dispersed across boundaries. It encourages communication, collaboration, and transfer of content seamlessly and effectively.



## Mobile Devices

### The Key Aspects of a Good Mobile Device



#### Durability

The durability of a mobile device depends on its build. For a mobile workforce, it is very important that their device **withstand everyday bumps and drops and survive the vagaries of remote locations**, such as temperature and surroundings.



#### Display

Long working hours at the PC are a reality, so it becomes even more important for the eyes to stay stress-free and comfortable. Displays should be clear, with minimal flicker and **the right amount of brightness to stay productive for longer hours.**



#### Performance

The workforce needs to perform irrespective of their location. Users must never have to choose between performance and portability. The key elements for optimum mobile device performance include **powerful processors, resilient operating system, immersive graphics, adequate RAM, large display, and long battery life.**



#### Connectivity

A mobile workforce needs to be connected at all times. Fast mobile broadband ensures users are always connected to all their data and apps in the Cloud through features like **built-in LTE-A support or components which ensure better WiFi connectivity are strongly needed.**



#### Security

Business PCs need several layers of security, including data encryption, theft and loss prevention, and protection from unauthorized use. Make security simple with features like:

- Hardened MFA through **Intel® Authenticate**
- Data security with Windows BitLocker and BitLocker to Go
- Port and physical protection

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## Mobile Devices

### Why Choose Lenovo Mobile Devices

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#### Finest Materials

Lenovo devices use a top cover comprising of carbon fiber foam between two layers of carbon fiber that results in a much thinner and lighter device.



#### Unmatched Innovation

All Lenovo devices come with superior engineering and innovation, like enhanced WiFi connectivity to stay connected anywhere and Owl Wing Cooling that provides 38% increased airflow for better cooling and a lower failure rate.



#### 360° Security

Lenovo provides best-in-class security with features that fit into the device's hardware, like Match on Chip Fingerprint Reader (MoC FPR) and discrete Trusted Platform Module (dTPM).



#### Long Battery Life

Lenovo, with its internal 3 cell batteries and external swappable batteries, provides extended hours of battery life with single charges that run almost an entire day. The RapidCharge technology option can charge the device from 0% to 80% in 1 hour.



## Mobile Devices

Choose Lenovo with confidence as our products are built to the highest standards of quality and security so you can focus on your business. Better quality translates to better reliability. From MIL-SPEC testing for ThinkPads, to a range of tests for servers and other PCs, we ensure that our business products live up to their reputation so that the mobile workforce can be productive at all times.

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## Lenovo Solutions

### ThinkPad X1 Series

The ThinkPad X1 Series offers the thinnest, lightest, and most elegant products, providing uncompromised agility, seamless productivity, all-round security, and a smarter PC experience. It's multi factor authentication (MFA) hardened via **Intel® Authenticate** and ensures only the authorized user can access the device. Also, Windows 10 Pro enabled Windows Information Protection\* (WIP) helps prevent accidental data leaks by restricting user and app access to data based on policies you define. Business data is protected no matter where it lives on the devices—without affecting user experience.

\*WIP requires either Mobile Device Management (MDM) or System Center Configuration Manager to manage settings. These products sold separately. Active Directory makes management easier, but is not required. Some of its features include:

-  Lightweight and easy to carry around
-  Long battery life
-  Good connectivity features
-  Robust security features



ThinkPad X1 Yoga



# Mobile Devices

Lenovo Solutions

## ThinkPad X Series

Smaller footprints and longer battery life make X Series the business traveler's trusted companion. Their craftsmanship, versatility, robust security features, and a range of convenient ports like the lightning-quick **Intel® Thunderbolt™ 3 port** ensure they are every professionals' preference. In addition, Windows Defender System Guard ensures that only trusted software can run during start-up, isolates sensitive services and data, and makes certain low level tampering to be detected and remediated without impact.



Latest **Intel® 8<sup>th</sup> Generation Core™ vPro™ Processors**



Uninterrupted connectivity features



User identity protection features

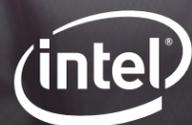


Long-lasting battery life



ThinkPad X280

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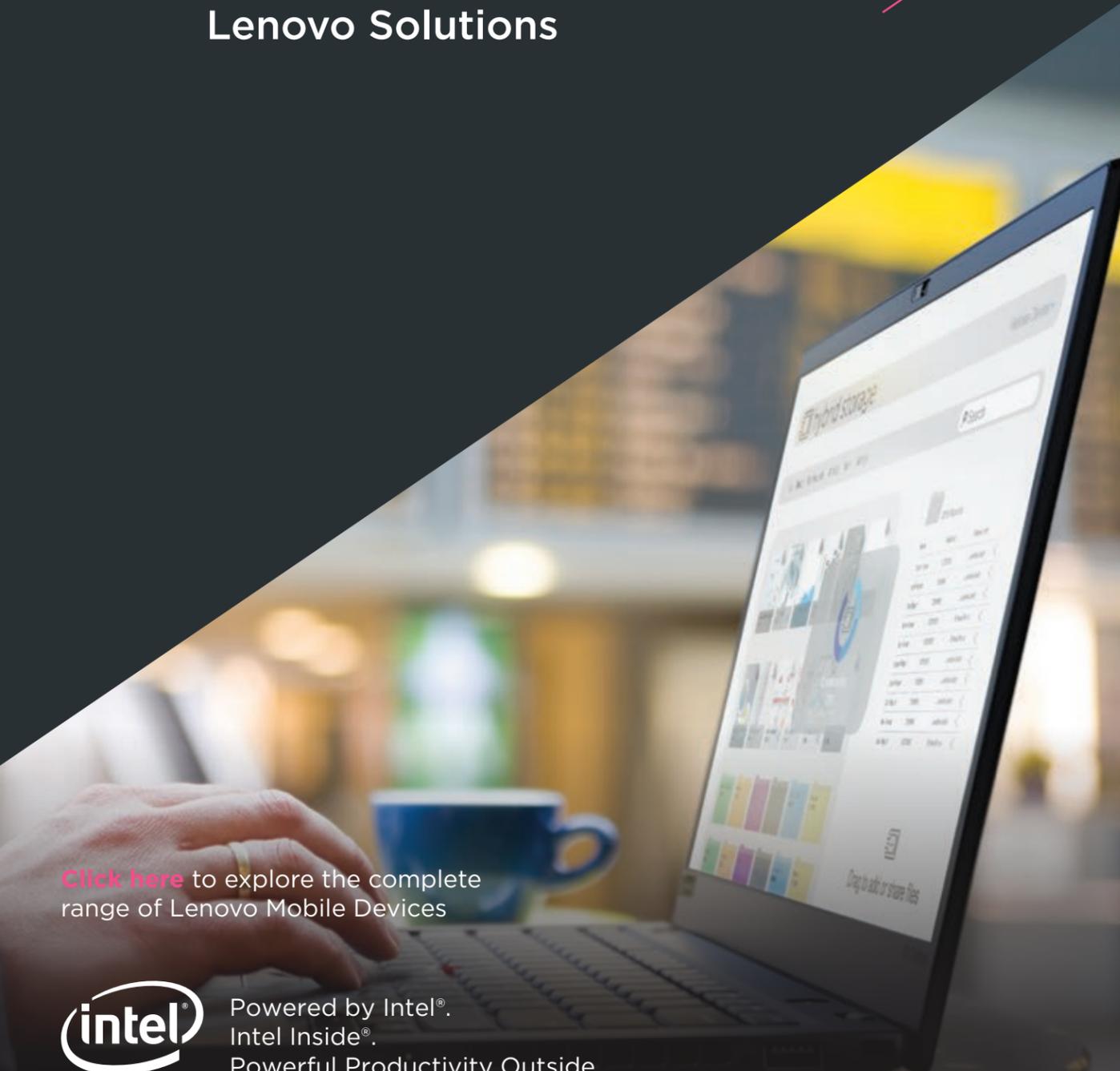


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# Mobile Devices

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## ThinkPad T Series

Powered by **8<sup>th</sup> Generation Intel® Core™ vPro™ Processors** the ThinkPad T Series builds upon superior design with performance, durability, and security that users demand. Along with Windows 10 Pro that offers built-in malware protection to help keep the devices safe from viruses, spyware, and other malicious software. Windows Defender Antivirus runs in the background, notifying users when they need to take any specific action. It is ideal for a mobile workforce that needs true business-class notebooks to keep up with their on the go work schedule.

-  MIL-SPEC tested
-  Uncompromised security
-  Long battery life
-  Good connectivity features



ThinkPad T580



# Mobile Devices

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## Lenovo V Series

The V Series products powered by **8<sup>th</sup> Generation Intel® Core™ vPro™ Processors** combine security and productivity features with a simple design, powerful technology, and long battery life. They are perfect for business owners and frequent business travelers. Plus, with Windows BitLocker\*, organizations can rest assured that their sensitive information is protected from unauthorized access — even if a device is lost or stolen. Windows BitLocker offers enterprise-grade security, providing IT with the ability to encrypt full disks.

\* Requires TPM 1.2 or greater for TPM based key protection.

-  Lightweight and easy to carry around
-  Durable yet stylish
-  Robust security features
-  Ultra-high-definition (UHD) display



Lenovo V330



# Mobile Devices

Lenovo Solutions

## ThinkPad P Series

Users never have to choose between mobility and performance anymore. The P Series mobile workstations powered by **Intel® Xeon® Processors\*** offer employees a win-win situation with the flexibility of ThinkPads and power of a workstation. In addition, Windows 10 Pro for Workstations enables users to power through advanced, compute-intensive workloads with server-grade data protection and performance.

\* (only in P70, P71)

-  Optional LTE-A connectivity
-  Hot-swappable battery
-  Fast data transfer capability
-  Dual cooling solution



ThinkPad P52s

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## Lenovo Tablets

Business-oriented and productivity-bound, these tablets offer an advanced computing experience. With rugged reliability, robust security, and integrated **Intel® graphics**, employees can experience higher performance in a small package. Users can quickly turn thoughts into action with the magic of Windows Ink.\* Naturally capture notes at the speed of thought with no need to be logged in.\*\* Pair inking with Office+ to make edits, create content and drive ideas forward effortlessly.

\*Windows Ink requires touch capable tablet or PC. Pen accessory may be sold separately  
\*\*User must enable in settings and have a Bluetooth button on pen.vt

-  Optional add-ons
-  High storage capacity
-  Long battery life
-  Robust security features



Lenovo Tablet 10

# Accessories

## Lenovo Solutions

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### Lenovo USB-C Travel Hub

Great for travelers, this extension adapter enables users to easily connect to an external monitor, wired networks, and USB device via a single robust USB-C port.



### Lenovo 500 Wireless Compact Precision Mouse

Designed for the mobile workforce, featuring a blue optical sensor and 1200 dpi resolution for accurate tracking and precise scrolling. This mouse perfectly fits users' palm or pocket and delivers uncompromising performance.



### Lenovo External Backup Hard Drive

With military-grade AES 256-bit encryption and built-in password management, this hard disk offers rapid data transition and massive storage anytime and anywhere.



### Lenovo 17" Passage Backpack

Along with a versatile and travel-friendly design, this backpack comes with an innovative integrated USB charging port feature that allows users to charge their phone or tablet on the go.

# Services

## Lenovo Solutions



### Premier Support

Users who are always on the go, need to be adequately supported to be productive at all times. Premier Support is a tech-support service designed for customers who can avail benefits such as bypassing basic troubleshooting, shorter waiting times, reduced repair times, and higher first-time fix rates.

### Accidental Damage Protection

Give mobile users a peace of mind with a service that addresses unexpected IT expenses associated with replacing certain damaged parts. It also minimizes downtime with convenient coverage in case of accidental damage for labor, parts, and full system replacement in cases when repair is not possible.

### Online Data Backup (OLDB)

Online Data Backup is an easy-to-use, automatic online backup and recovery software solution. With this tool, organizations and mobile user groups can share storage without the need for administrators to allocate capacity individually.

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# Mobile Security

## Lenovo's 360° Approach to Security

Lenovo is known to have the lowest security risks. Our hardware and software have been proven to be one of the safest in the entire industry, and the right choice for businesses that make fact-based decisions. Our 360° approach to security is a cohesive mesh of features and technologies that deliver maximum protection in a business PC.



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## Lenovo's 360° Approach to Security

### User Access Control

Ensures PC access for authorized personnel only.

- **Multi Factor Authentication**

Lenovo's biometric fingerprint recognition ensures simplified access management and robust security. Leading in multi factor authentication, Lenovo also offers the following features in its devices:

- **Match on Chip (MoC) Fingerprint Reader:** the most secure fingerprint technology on a PC because the biometric credentials are stored on a separate chip, making it almost impossible to hack into.
- Further strengthen authentication with **Intel® Authenticate** which gives flexibility to create and deploy customized hardened multi factor authentication policies to enforce user identity protection for access to the corporate domain, network, and VPN; protecting identity and securing data. **Intel® Authenticate** solution provides a simple self-service enrollment tool for end users to quickly get started, eliminating calls to IT.

- **IR Camera with Windows Hello**

With Windows Hello, the optional IR camera on selected devices simplifies and secures the login process. Windows Hello face authentication uses a camera specially configured for near infrared (IR) imaging to authenticate and unlock the device. Also, the IR camera doesn't capture photos - this prevents spoofing and provides uncompromised security.

- **Smart Card Access**

A highly secure way of storing login information in tamper-proof cards that can also be used to manage access to multiple devices without using passwords. Smart cards directly implement a two-factor authentication policy, ensuring that devices are averse to threats.

- **Near Field Communication (NFC)**

NFC is a type of radio communication standard, much like Bluetooth, WiFi and other networking technologies. To snag the NFC signal to log in, the user needs to be physically close to the company's PC, with the right NFC tag or secondary device.



## Mobile Security

### Lenovo's 360° Approach to Security

#### Port and Physical Protection

Prevent data theft from USB or other access ports on company PCs.

- **Camera Shutter**

With the shutter built into the front-facing camera, protecting privacy just requires sliding the tiny cover to close the camera shutter — no more worries about anyone eyeing the user.

- **Kensington® Cable Lock**

The Kensington® Cable Lock helps reduce theft and increase physical asset security protection for notebooks, notebook docking stations, desktops, and flat panel monitors. Standard on all Lenovo PCs, it allows customers to manage physical security access within the office premises.

- **ThinkPad Ultra Dock**

This innovative docking solution is easy to connect and secures your system while you are away. A Security Lock conveniently secures both the device and your dock to the desk with a single key. It provides a driver-free convenient connection securely to a range of USB accessories and external displays.

#### Data Protection

Prevent data theft and loss.

- **Better Management and Control**

Experience Pro SSD integration with Intel® Remote Secure Erase from Intel® Active Management Technology (Intel® AMT).

- **In-built Mobile Device Management**

Windows 10 Mobile Device Management (MDM) support, lets you use Cloud-based management services\* to control business and personal devices. Your employees get access to corporate applications, data, and resources from virtually anywhere on almost any device, while IT helps keeping your business information secure.

\*Sold separately

- **Fast Identity Online (FIDO)**

FIDO authentication pertains to online credentials when users sign into internal and external websites or make payments online. It ensures hardened authentication and wraps access information into three layers of security.

- **Discrete Trusted Platform Module (dTPM)**

The dTPM 2.0 chip embedded in ThinkPad devices enables and stores unique RSA encryption keys specific to the host system for hardware authentication.

- **BUFFERZONE®**

BUFFERZONE enables employees to browse the net safely by opening the browser in a container in case a threat is detected. With detailed reporting and integration with SIEM and Big Data analytics, BUFFERZONE helps identify targeted attacks.

- **Coronet**

Coronet can detect and evade unsafe wireless connections over both WiFi and Cellular networks. It requires no installation and ensures that only trusted devices, networks, and Cloud services can access your data.

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## Mobile Security

### Lenovo's 360° Approach to Security



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## Mobile Device Management

- **Industry Leading EMM with MobileIron**

The global strategic partnership of Lenovo and MobileIron EMM ensures secure provisioning and simplifies endpoint device management. It incorporates identity, context, and privacy enforcement to set the appropriate level of access to business data and services. MobileIron secures data-at-rest on the mobile device, in mobile apps, desktop, and in Cloud storage. Additionally, the MobileIron EMM platform secures data-in-motion as it moves between the corporate network, devices, and various on-premise and Cloud storage repositories.

- **Hardware Enabled MDM**

Lenovo devices powered by **8<sup>th</sup> Generation Intel® Core™ vPro™ Processors** are enabled with **Intel® Active Management Technology** that allows IT pros to manage computers remotely and out-of-band. The out-of-band flexibility is a game changer because if the operating system is down, or the device is without power, the new **8<sup>th</sup> Generation Intel® Core™ vPro™ processor-based computers** can be reimaged and brought back to a good state without costly deskside visits. Protecting data also becomes more manageable when you upgrade to new devices with **Intel® Solid State Drives**. With **Intel® AMT** activated on the new **8<sup>th</sup> Generation Intel® Core™ vPro™ processor-based computers**, the addition of **Intel® SSD Pro 6000p Series** also allows you to remotely delete encryption keys for fast data sanitation using **Intel® Remote Secure Erase (Intel® RSE)**.

- **OS Enabled MDM**

With Domain Join + Group Policy, IT staff can easily manage PCs, user accounts and groups, security policies, and get easy access to files and printers when you pair Windows 10 Pro with Windows Server\*. You can even define specific security and networking policies for your users and devices.

\*Sold separately



# Mobile Security

## Lenovo's 360° Approach to Security



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## Lenovo Unified Workspace

Lenovo Unified Workspace enables organizations to securely deliver the right apps and content, to the right users - anytime, anywhere, and on any device. So your workforce can have the flexibility, policies, and tools they need to be more creative, productive, and collaborative.



### Seamless Access

Legacy Windows apps and private or public Cloud apps all in one workspace for the user.



### Smooth Experience

A consistent experience on corporate-issued machines or mobile/BYOD.



### Business Benefit

Maximize employee engagement and productivity.



### Single Sign-on

Secure, single sign-on access from anywhere.





# Lenovo Cloud Infrastructure for Mobile Apps Deployment

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## Lenovo Cloud Solutions



Organizations are relying more on Cloud solutions to improve infrastructure efficiency, lower operating costs, and reach more customers. By transforming how content is created and delivered, Cloud computing has transformed the way an organization works. A good Cloud infrastructure can quickly deploy IT solutions and applications and respond faster to emerging opportunities. But when it's about deploying a mobility strategy for your organization, it would be incomplete without the right Cloud ecosystem.

Combine Lenovo's comprehensive suite of services – the industry's top-rated systems from Lenovo – with advanced capabilities of Microsoft Hyper-V. With multiple Cloud solution architectures for various platforms, choose a solution that best meets your organization's requirements.



# Lenovo Cloud Infrastructure for Mobile Apps Deployment

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## Secure and Scalable

Security is the priority as it impacts not only the Cloud-stored data, but also puts data of the entire enterprise at risk. Also, Cloud solutions must be able to scale easily to meet an organization's needs as they evolve and grow.



## Always Available

Organizations require Cloud solutions that are always operational, with minimal downtime. Lenovo XClarity™ removes complexity from the IT infrastructure. It is a fast, flexible, and scalable hardware systems management application that enables administrators to deploy infrastructure faster and with less effort. The application seamlessly integrates into Lenovo servers, Flex System, RackSwitch™ networking, and S Series storage.



## Manageable with Reduced Operational Costs

Manageability of a system – which includes the simplicity and speed with which a system is repaired and maintained – is essential. By implementing an agile Cloud solution, customers can leverage new IT efficiencies to lower administration expenses.



## Innovation and Improved User Experience

Lenovo has significant joint investments in product integration, interoperability, and features designed to improve IT service delivery and ensure that our solutions are fully integrated, tested, and optimized. Additionally, better security, compliance, control, and remote access provides an enhanced user experience.



## Long History of Partnership

With years of collaboration, Lenovo ensures comprehensive service and support to simplify change with a broad portfolio of customizable solutions proven in real customer environments.

## Key Takeaways

The success of a workforce mobility strategy depends on the endpoint devices. Hence, they must be equipped with the right connectivity, performance, and security features while also ensuring compatibility and ease of working with future technologies. Lenovo devices are designed to embrace the future with features like:

- **Enhanced Graphics and Display**

Gen-next features that are unmatched in the industry – like the Integrated Intel® HD Graphics 620 (GT2), 8GB + Dual Channel for integrated graphics, HDMI 2.0 or DisplayPort 1.2 for 90Hz head-mounted displays and Bluetooth 4.0 for accessories – support AR/VR technologies.

- **AR/VR Enabled**

Lenovo's smart devices offer Augmented Reality experiences based on Tango Technology with wide-ranging applications for education and design. Some of our products like the ThinkPad T Series, ThinkPad L Series, ThinkPad P Series, and Lenovo V730, support virtual reality environments at a hardware level with the following features:

- **CPU:** Intel® Mobile Core™ i5 (e.g. 7200U) Dual-Core with Hyperthreading equivalent
- **GPU:** Integrated Intel® HD Graphics 620 (GT2) equivalent or greater DX12 API Capable GPU
- **RAM:** 8GB + Dual Channel required for integrated graphics
- **HDMI:** HDMI 1.4 or DisplayPort 1.2 for 60Hz head-mounted displays  
HDMI 2.0 or DisplayPort 1.2 for 90Hz head-mounted displays
- **HDD:** 100GB + SSD/HDD
- **USB:** USB 3.0 Type-A or USB 3.1 Type-C Port with DisplayPort Alternate Mode
- **Bluetooth:** Bluetooth 4.0 for accessories

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# 5 reasons why Lenovo is a difference maker



Trusted around the world



Expertise across categories



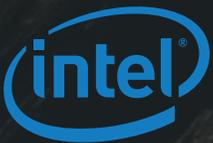
Confidence in our products



Business-boosting technology



Flexible support network



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