Upgrade and secure your workstation on wheels for less

With ChromeOS and Citrix Ready solutions

Flexible, rapidly-accessible healthcare technologies like mobile computer workstations are a key requirement for modern day healthcare — where a low battery or stalled log-in for a provider can adversely affect patient care.
Citrix and ChromeOS teams have partnered to provide best-in-class, validated workstation on wheels technology solutions to secure patient data, optimize battery life, and provide rapid clinician access to mission-critical applications and data. This collective solution not only provides high-performing workstations for the most time-sensitive situations, but it reduces your organization’s operational and capital expenses with centralized IT management from the cloud and a free, sustainable operating system upgrade solution that leverages your existing hardware investments.

Leverage existing hardware investments

With ChromeOS Flex

Hardware for mobile workstations — powered carts with integrated battery systems — are major investments that require regular device refreshes to stay functional and compliant with changing upgrades and regulations. This can not only be expensive, but challenging for IT to reconfigure and maintain new technologies on a frequent basis.

With ChromeOS Flex, your IT team can leverage existing PCs, Macs, or thin clients configured to your current carts and simply upgrade them to a more modern, secure, energy-efficient operating system. ChromeOS Flex-converted devices operate like any other ChromeOS devices, with continuous, free upgrades from the cloud and can be centrally managed from the Google Admin console (along with other ChromeOS devices) with the Chrome Enterprise Upgrade.

With Citrix DaaS

A customized, yet familiar user experience is absolutely necessary for clinicians to rapidly access the information they need. With Citrix DaaS, the clinician user experience is consistent and seamless, no matter what device they use. This means that upgrading your existing workstation technologies to ChromeOS Flex doesn’t require a learning curve or additional training hours — healthcare workers access their mission-critical apps or desktops from their ChromeOS Flex devices or Chromebooks easily from Citrix Workspace app, just as they did previously from Macs, PCs, or thin clients.

Secure access to patient Protected Health Information (PHI)

With ChromeOS and Chrome Enterprise Upgrade

Ransomware attacks on healthcare organizations are on the rise — with at least 148 reported in the US alone in 2021, totaling a record $6.9 Billion in losses, and the number is growing exponentially every year. Unlike Windows PCs and Macs, there has never been a reported ransomware attack on a ChromeOS device. For this reason, this read-only OS is quickly becoming

ZERO reported ransomware attacks on ChromeOS devices.
a healthcare industry standard, with no executables, no need for antivirus software, and built-in, active threat prevention.

Additionally, the **Chrome Enterprise Upgrade** offers 500+ configurable security policies in the Google Admin console, as well as granular reporting across users and devices, and the ability to approve or block apps and extensions.

**With Citrix DaaS**

In addition to ChromeOS’s robust set of native controls, Citrix DaaS solutions provide an extended set of granular policy controls to secure virtual app, desktop, and data access, with features such as customized session or application watermarking to deter or track data theft, as well as control who can connect, print, copy/paste, or map local drives. Citrix DaaS now includes multi-layered security solutions, such as **adaptive authentication** features that consider multiple real-time user conditions before intelligently choosing how a user must authenticate. A **HIPAA-compliant solution**, all data processed by the Citrix service is encrypted at rest using encryption keys, and all data in transit is encrypted using the latest version of the TLS protocol.

**With tap-n-go solutions like Imprivata OneSign**

Badge scanner technologies like Imprivata are key to providing clinicians rapid secure access to medical records and applications from mobile workstations. Imprivata has been tested and validated by the ChromeOS and Citrix teams to ensure compatibility and seamless integration to ChromeOS-driven medical carts, including ChromeOS Flex-converted devices.

**Optimize energy consumption and battery life**

**With Chromebooks**

Chromebooks are natively built to have a longer battery life and faster charging than traditional devices, with the ability to last an entire 8 to 12 hour shift before needing a recharge (the typical shift length for most healthcare

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**Imprivata OneSign can save providers 45 minutes per shift, per day.**

- Source: [Imprivata Enterprise single sign-on](#)
workers). In fact, a 2020 ESG study found that compared to PCs, Chromebooks consumed 53% less power. Greater battery life and faster charging time means less time plugged in, increased mobility, and less downtime, especially for non-powered medical workstations.

With ChromeOS Flex

Even on old hardware, healthcare organizations can still see battery life improvements by converting to ChromeOS. In fact, a recent study found that devices that run ChromeOS Flex consume 19% less energy on average than other devices.

By installing ChromeOS Flex on your existing hardware, you’re not only getting a great experience, you’re also contributing to an important cause. Worldwide, 40 million tons of e-waste is generated every year — that’s like throwing away 800 laptops per second.

Rapid clinician access to mission-critical apps and tools

With Citrix DaaS

Citrix seamlessly extends clinician access to all types of virtualized apps on ChromeOS devices, including EHR and full-featured Windows/Linux apps, regardless of the operating system the apps were designed for Epic, Cerner, Allscripts, McKesson, MEDITECH, and other healthcare software companies partner with Citrix solutions to deploy their EHR suites to healthcare organizations worldwide. Similarly, some healthcare workers may require the use of a traditional Windows or Linux desktop. Citrix DaaS can securely provide access to these desktops from any ChromeOS device as well. IT can leverage the Chrome Enterprise Upgrade admin controls to launch Citrix Workspace app or a particular app automatically upon clinician badge scan to a mobile workstation, resulting in even faster patient care.

With pixel-perfect medical imaging via Citrix HDX

Citrix has been a staple in the healthcare industry for decades due to their proprietary, high-performance HDX technology. Citrix HDX 3D Pro offers deep compression technologies for maximizing traffic throughput over low-bandwidth networks. The parameters can be tuned all the way up to lossless compression that enables delivery of pixel-perfect images for 3D professional graphics apps, such as picture archiving and communication systems (PACS), like medical imaging.

ChromeOS Flex devices consume 19% less energy on average.
Citrix Ready validated solutions for healthcare

Citrix and ChromeOS teams have been collaborating to integrate, test and validate a complete healthcare solution stack that works, from day one, out-of-the-box. You can pick any combination of endpoints, Chromebooks, peripherals and applications and the will work right “out-of-the-box”. Citrix Ready validated solutions deliver choice, trust and value to healthcare and IT professionals around the world. In addition to badge scanner devices and software like Imprivata, Citrix supports the largest variety of peripheral devices for your ChromeOS-powered workstation on wheels, including:

- **Barcode scanners**, including Honeywell products for ChromeOS
- **4k resolution monitors**, as well as multi-monitor support
- **Label printers**, including Dymo LabelWriter
- **Signature pads**, including Wacom products
- A wide variety of keyboard, mouse and webcam solutions

Centralized IT management from the cloud

With Citrix DaaS and Chrome Enterprise integration

Citrix DaaS integrates with the Google Admin console, allowing IT to manage devices, apps, and desktops from one centralized place, as well configure user credentials, policies, and license entitlements to those credentials. This means that workstations leveraging upgraded ChromeOS Flex devices can be managed side-by-side with mobile workstations leveraging new Chromebooks or Chromeboxes.

This centralized IT management is not only faster and more agile, but it can impact your bottom line too. An ESG study conservatively found that organizations who leverage ChromeOS with the Chrome Enterprise Upgrade can expect a 63% improvement in administrative costs compared to managing PCs.

Get started today

Upgrade your existing medical mobile workstations to more secure, compatible, and energy efficient solutions doesn’t need to be an expensive undertaking. With ChromeOS Flex bundled with Citrix Ready validated healthcare solutions, you can leverage your existing hardware — significantly saving resources, costs, and extending the time required for your next hardware refresh. When you’re ready to update the devices on your carts with new technologies, Chromebooks and Chromeboxes combined with Citrix Ready validated solutions can provide your healthcare staff with the speed and battery life they need to perform in the most time-critical scenarios. No matter which endpoint or route you choose, you can be confident that Citrix DaaS will provide a secure, consistent, and high-performing user experience for every staff member or clinician in your organization.

**Citrix Ready Healthcare Solutions**

**Get started with ChromeOS Flex for free today**

**Learn more about our Citrix Ready validated solutions for ChromeOS Flex**

63% improvement in administrative costs when leveraging ChromeOS with Chrome Enterprise Upgrade.
Transforming healthcare productivity

Hackensack Meridian Health chose Chrome Enterprise to speed up its digital transformation. Chromebooks became the device of choice in a variety of settings, including ambulatory exam rooms. The mobile workstation Chromebooks leverage Citrix to run Epic’s electronic health record solution, as well Imprivata’s badge reader software.

Hackensack Meridian uses Citrix for access to applications, giving workers at home the same experience they have at the office—a vital capability in the wake of COVID-19 closures and stay-at-home orders. Chrome and Google Workspace provide collaboration, video conferencing, and productivity tools. IT resources are conserved through centralized management of the Chromebook device fleet, with minimal need for endpoint management.

Learn more about how Hackensack Meridian Health transforms with Citrix and ChromeOS

“This type of Citrix and Google platform gives Hackensack Meridian Health—and for that matter, organizations in the healthcare industry in general—a competitive edge in efficiently and effectively delivering patient care.”

– Mark Eimer
SVP, Associate CIO & CTO – Information Technology Services, Hackensack Meridian Health