



Whitepaper

Apple Device Management

# Powering digital learning experience with Scalefusion Apple device management



# Introduction

## Classroom or a never-ending social media scroll-a-thon?

Classrooms have swapped dusty blackboards for glowing screens, transforming beyond recognition in just a decade. Chalkboards? Fading. Textbooks? Gathering dust. Students? Not raising hands but rather tapping, swiping, scrolling.

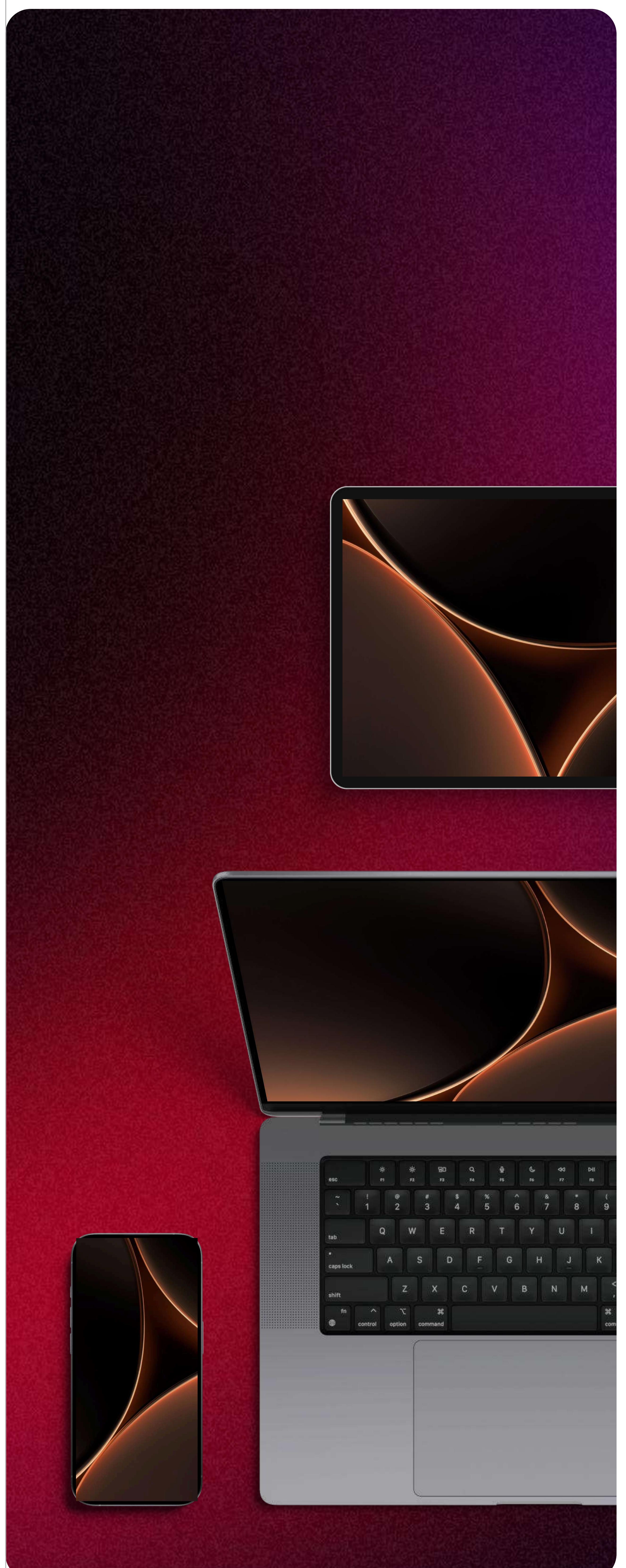
Valued at \$153.82 billion in 2024, the global digital classroom market is set to more than double, hitting \$356.74 billion by 2033 with a solid 11.09% CAGR. North America leads the charge at 33.7%, and the demand for interactive, personalized learning is skyrocketing.

Governments and schools are going all in on digital learning, pushing for smarter, tech-driven classrooms. Among the many devices shaping modern education, Apple's iPads and MacBooks are dominating. A study at Oklahoma State University found that 75% of students felt the iPad improved their learning. So it's no surprise Apple devices are everywhere. But without the right management, these powerful tools turn into pricey distractions.

Every device needs setup, security, and the right limitations. One slip and a 5th grader could have admin privileges. With access to millions of apps, sites, and platforms, an unregulated classroom can turn into a never-ending social media scroll-a-thon.

If this sounds overwhelming, that's because it is. Managing a tech-driven classroom isn't just another bullet point in an IT admin's job description, it's a full-time battle. And without the right system in place, it's a losing one.

Let's break it down. This whitepaper dives into the evolution and challenges of digital classrooms and how Scalefusion Apple Unified Endpoint Management (UEM) takes the chaos out of it.



# From a small experiment to an unstoppable shift: How classrooms saw a surge in digital devices.

It started as a tiny ripple. A handful of computers in a classroom, a trial run of online assignments, a teacher experimenting with an overhead projector—just to see if it worked. No one thought it would redefine education.

But education doesn't stay still. The moment technology entered the classroom, it refused to leave. At first, it was just an aid—computers in libraries, digital encyclopedias replacing the dusty volumes. Then, schools started testing the waters with learning management systems, online quizzes, and early e-learning platforms.

Then, the big leap—cloud technology, high-speed internet, and mobile learning. Suddenly, education wasn't tied to a desk or even a school building. Lessons became interactive, classrooms became virtual, and teachers became digital guides instead of just lecturers. And it wasn't just students who benefited, businesses caught on too. Using the same technologies to upskill employees through online training programs, certifications, and virtual workshops.

Currently, a single tablet holds an entire school's curriculum, and AI-powered platforms personalize lessons in real-time. Schools are running on apps, cloud portals, and smart devices, bringing opportunities beyond anything traditional classrooms could offer. The same goes for workplaces, where employees are learning on demand, adapting to new skills faster than ever before.

But here's the catch—more technology means more responsibility. While shaping young minds, schools have also become tech hubs, managing a complex web of devices, accounts, and security protocols. Businesses face the same struggle with corporate training platforms.

But without the right Apple device management solution, the very tools meant to empower can quickly unravel. The digital shift is about ensuring that technology works for education, not against it.

## 92%

Teachers say the internet has a major impact on their ability to access content, resources, and materials for teaching.

## 80%

Businesses now offer online learning or training solutions, adapting to the digital education shift.

## 900% Growth

Online learning is the fastest-growing market in education, expanding 900% since 2000.

## 49%

Nearly half of students worldwide have completed some form of online learning, proving its growing adoption.

## 20,000+

Apple has developed over 20,000 educational iPad apps, with 1.5 million iPads currently used in educational institutions, driving digital learning.



# The real challenge: How to make digital learning work?

## Unmanaged devices, unlimited distractions

iPads and MacBooks without supervision are chaos in disguise. Without iOS management to set rules, restrict misuse, and keep devices classroom-ready, schools risk opening the door to distractions and security gaps.

## Blocking unauthorized apps & features

Not every App Store download belongs in the classroom. Schools must be able to block distractions like gaming and social media before they become disruptions.

## Missing kiosk mode for focused learning

A classroom iPad loaded with social media and games? That's a disaster. Restricting Apple devices to specific apps keeps learning on track and distractions out.

## Content distribution via Apple's ecosystem

Manually sending files to every device? Not an option. Schools need an automated way to push lesson materials directly to iPads and MacBooks via Apple School Manager or a UEM solution.

## Web filtering & digital safety on Safari

The internet is an incredible resource—until it's not. Schools must filter websites, monitor browsing activity, and restrict access to non-educational content on Safari.

## Scalability & multi-device Apple management

Managing a handful of devices is simple. Managing thousands of iPads and MacBooks across different locations? That's a different game. Schools need a scalable solution built for Apple devices.

Tech in classrooms sounds great—until you have to manage it. Without a device management solution, even Apple's ecosystem can turn into a maze of distractions, security gaps, and IT nightmares. Here's what stands in the way:

## BYOD challenges

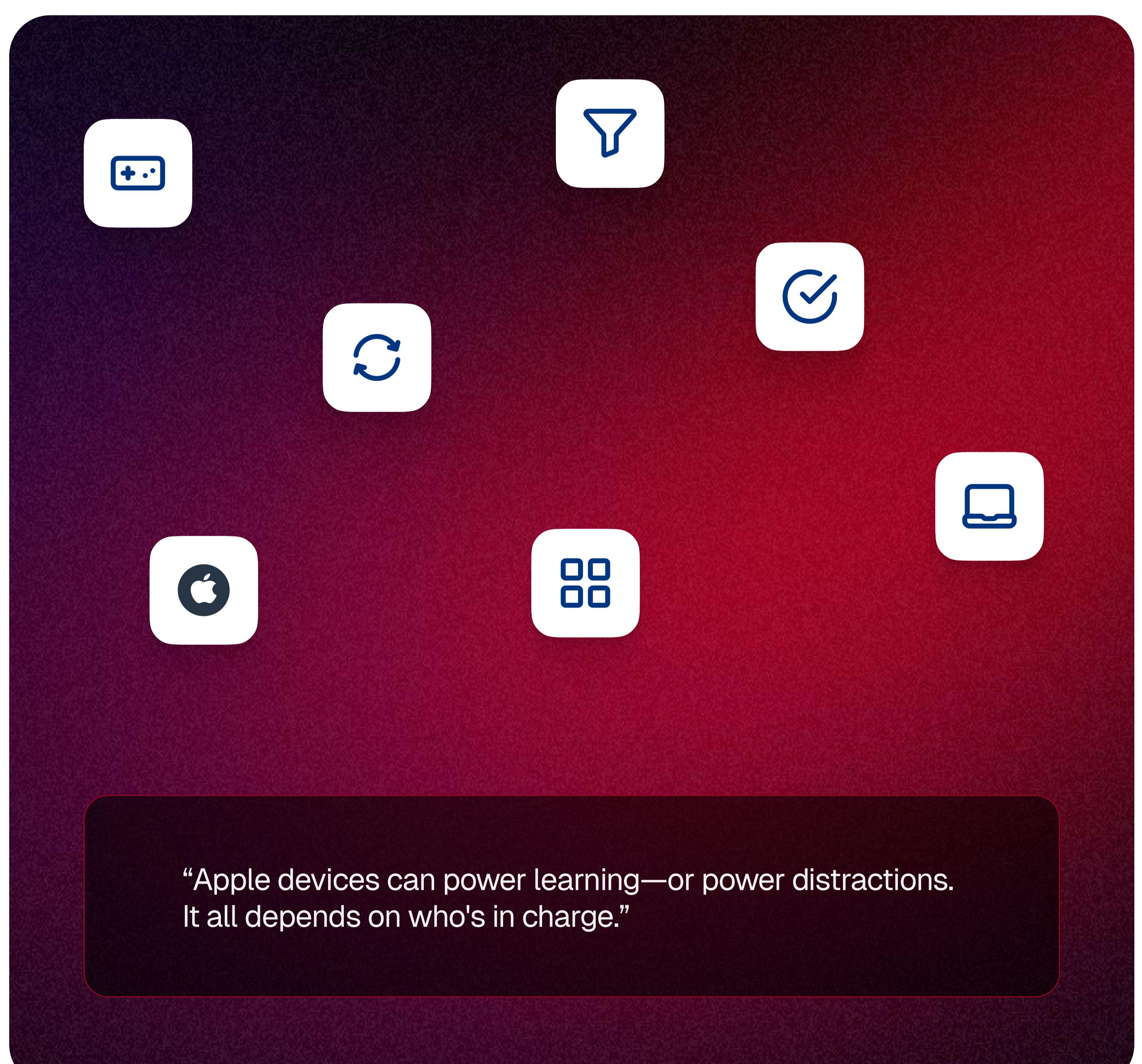
When school resources get mixed with personal use on student devices, security takes a serious hit. Without a dedicated and encrypted space, keeping organizational data safe on student-owned devices becomes nearly impossible.

## Automated software & scheduling updates

Outdated iOS/macOS versions invite security risks. Schools need automatic updates to ensure every Apple device runs the latest software without disrupting learning.

## Remote monitoring & troubleshooting for Apple devices

IT admins can't be in every classroom. Schools need the ability to troubleshoot, lock, or wipe iPads and MacBooks remotely, ensuring security at all times.



# Scalefusion Apple UEM:

## School tech, ruled right.

Scalefusion UEM is designed to keep classroom technology running seamlessly. It breaks the notion that more devices mean more IT burden, offering a rich suite of features to simplify management at scale.

Goal? Helping schools to focus on learning, not on managing devices.

From out-of-the-box ready devices to apps that just show up where they should, from unbreakable security to IT support that works before problems do, here's how Scalefusion keeps school tech in check—without the stress.



# Unbox, power on, and teach— It's that simple.

Deploying Apple devices across an entire school can be a logistical nightmare—unless everything is set up before the devices even leave the box. Scalefusion makes sure IT teams don't have to waste hours on manual configurations. Students and teachers power on their devices, and everything is just... there.

## Automated Apple School Manager (ASM) integration

Devices are pre-assigned to students and teachers. Once they turn on, they sync with ASM, instantly pulling the right apps, settings, and security policies—no manual intervention needed.

## Zero-touch deployment with DEP

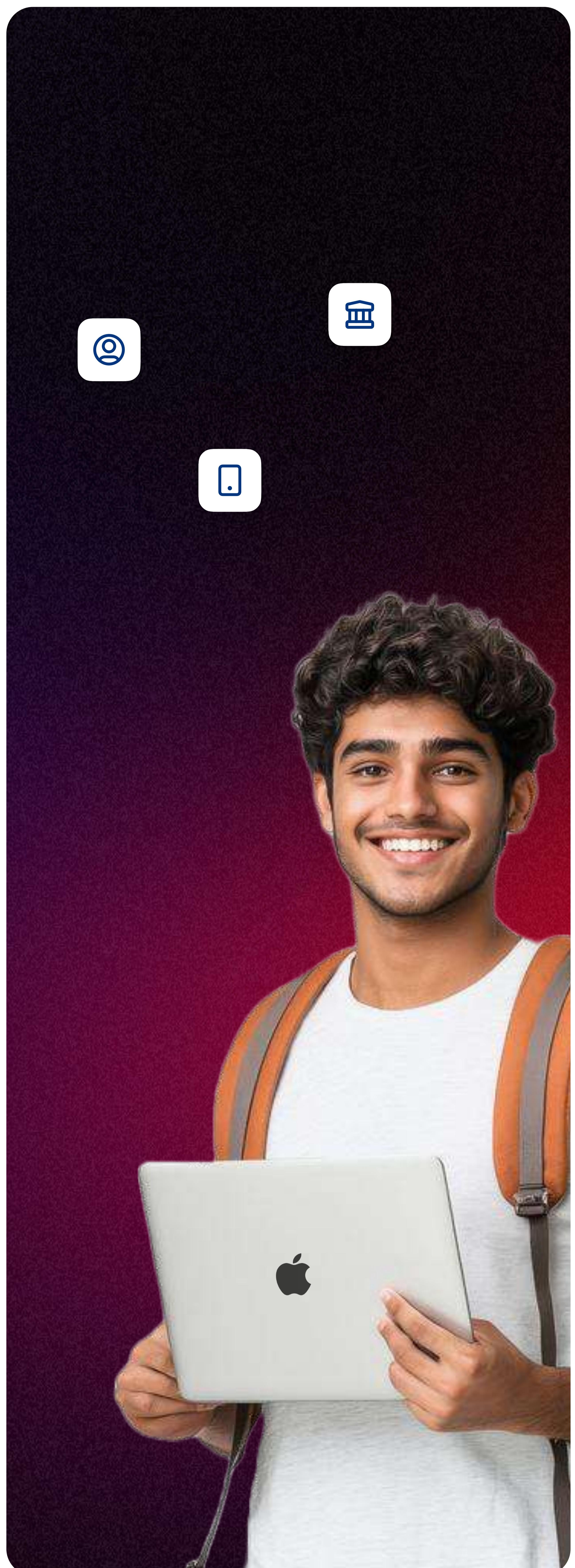
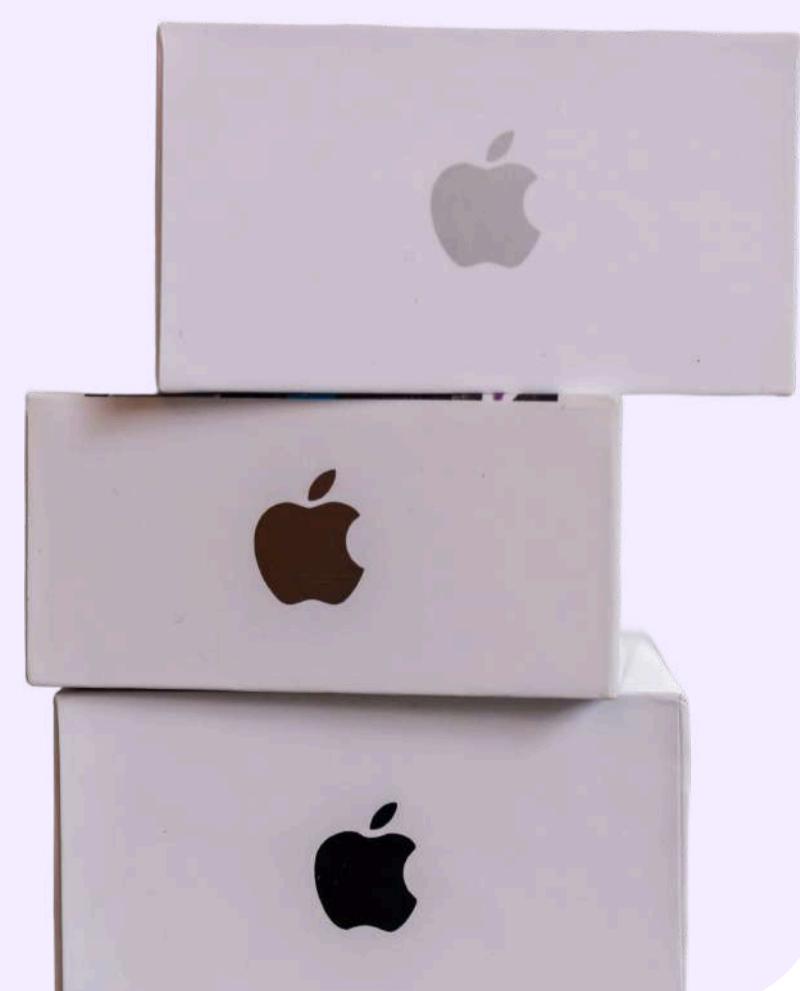
Devices purchased from Apple or authorized resellers are automatically linked to the school's UEM. When powered on, they self-configure—pushing Wi-Fi configs, security settings, and learning tools and apps in seconds.

## Apple user-based enrollment

Enroll student- or teacher-owned devices securely without compromising privacy. IT teams can manage school apps, settings, and data while leaving personal content untouched — perfect for BYOD environments.

### No last-minute setup scrambles. No configuration errors.

Just devices that work—right out of the box.



# Lock. Protect. Secure. No exceptions.

Students today live and learn online, but that digital presence comes with risks—like online impersonation and exposure to inappropriate content. Scalefusion creates a safe digital space by safeguarding student identities and controlling what's accessed on Apple devices, all under strict security policies.

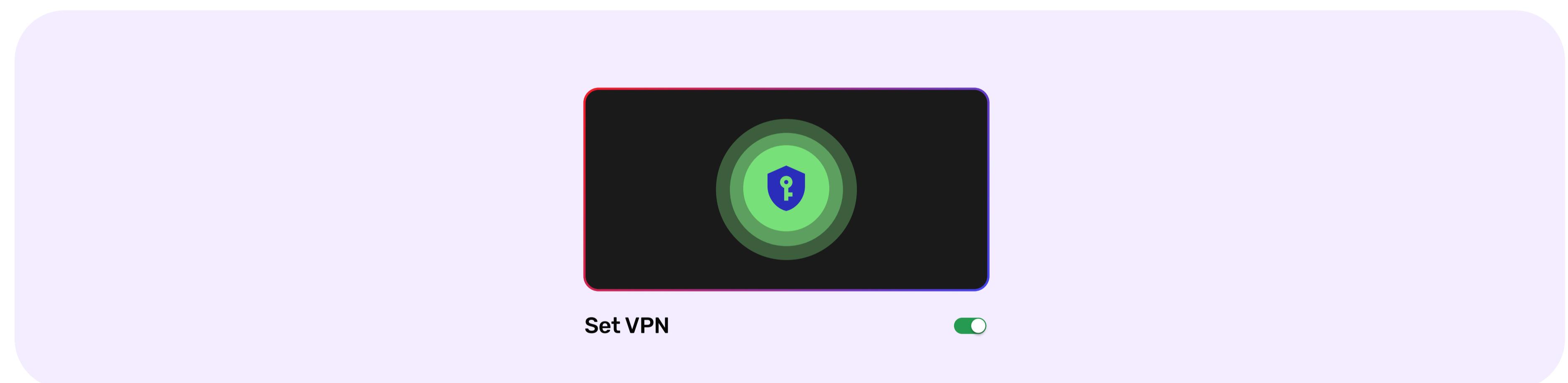
## FileVault for full disk encryption

A lost MacBook shouldn't mean lost data. Scalefusion enforces macOS FileVault encryption across all devices, ensuring that everything on the disk remains inaccessible without proper authentication. And if a student forgets their password? IT can securely retrieve recovery keys without wiping the system.



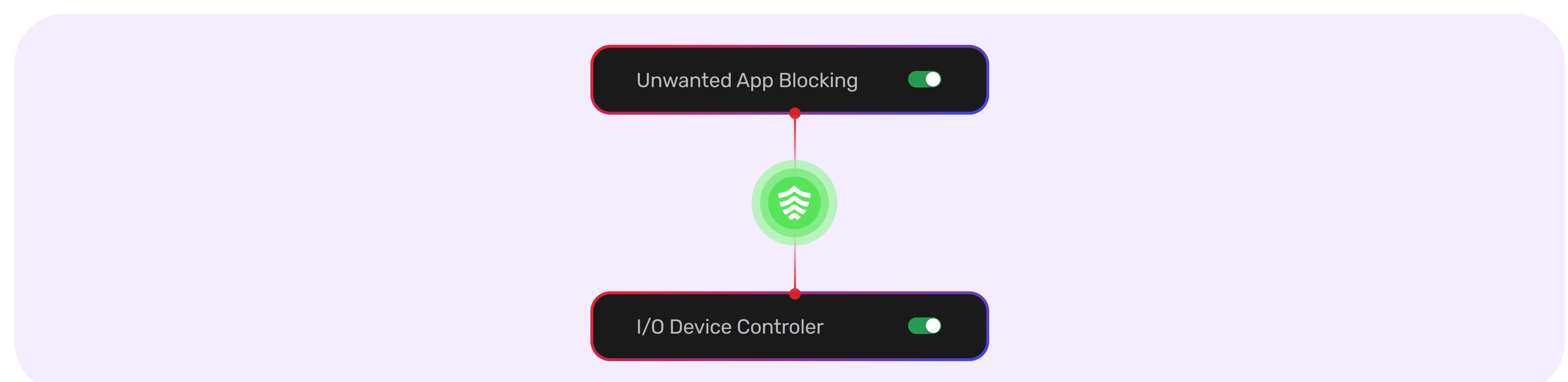
## Veltar VPN: Secure access, no loopholes

School networks carry sensitive data—student records, internal files, and confidential resources. A traditional VPN isn't enough to safeguard these assets. Veltar VPN for macOS goes further, offering customizable tunneling and enterprise-grade encryption—all managed through the Scalefusion dashboard.



## Veltar I/O device access control

USB drives and external storage devices might seem harmless, but 25% of malware today is designed to spread via USB connections. In schools, where students frequently plug in personal USBs for file transfers, projects, or even games, the risk of malware infections increases significantly. Veltar's I/O device access control ensures that only authorized peripherals can connect, preventing rogue devices from injecting malware or stealing data.



# App & content management—Right tools, zero clutter.

## Volume Purchase Program (VPP) integration – Bulk deployment, no roadblocks

Schools can purchase and distribute apps in bulk without needing Apple IDs on individual devices. Scalefusion supports native distribution of Apple VPP apps and PKG (macOS app packages) directly from the Dashboard, enabling bulk app deployment without Apple IDs or manual installs.

For apps available only as DMG (Disk Image File), IT admins can convert them to PKG format, sign them using their Apple Developer certificate, and deploy securely via Scalefusion. This ensures all apps, whether from the App Store or custom-built, are delivered seamlessly across Apple devices.

## macOS App Catalog – A smarter way to manage macOS applications

Unlike iOS, where apps are centralized in the App Store, most macOS apps come from various external sources, making installation, updates, and monitoring a challenge. Scalefusion's macOS App Catalog simplifies this by offering a centralized hub with 400+ pre-approved third-party applications, automatic updates to keep apps secure, pre- and post-installation scripts for custom configurations, and granular permission management to ensure compliance with school security policies.

## ProSurf - Precision oversight over web access

Unlike Safari, which offers limited device management capabilities, Scalefusion's native browser ProSurf for iOS gives IT teams the flexibility to create a secure, distraction-free browsing experience. Schools can allow only approved websites, restrict unwanted URLs, and even run ProSurf in Single App Mode to keep students focused.

IT admins can disable the address and navigation bars, set a default homepage, and configure triggers for automatic kiosk mode activation. With integrated file viewers and JavaScript API support, ProSurf ensures that web access is not just restricted, but fully optimized for education.

Technology should simplify learning, not complicate it. But without structured app and content management, classrooms can quickly become a digital free-for-all. Scalefusion ensures that every Apple device is equipped with the right tools—nothing more, nothing less.

## Enterprise application distribution — Custom apps, seamlessly delivered

Not every app lives in the App Store. Schools and organizations often develop custom applications tailored for specific learning needs, internal processes, or student engagement. These apps need to be distributed securely, without exposing them publicly or complicating deployment.

Scalefusion simplifies enterprise app distribution across Apple devices. IT teams can easily upload custom-built applications on the Scalefusion dashboard and deploy them directly to selected devices or device groups — no manual installs, no unnecessary exposure.

## Web content filtering – Smart, scalable internet governance

The internet can be a powerful learning tool—or a black hole of distractions. Scalefusion Veltar enables domain- and category-based filtering, allowing schools to block entire groups of websites (e.g., social media, gaming, shopping sites, adult content). Students stay on track without IT constantly policing web activity.

## Gatekeeper & Firewall management - Built-in macOS Security, elevated with Scalefusion

Apple's native security features, like Gatekeeper and Firewall, are essential for protecting macOS devices from untrusted apps and network threats. But managing these settings manually across multiple devices can slow down IT operations.

Scalefusion takes this a step further, giving IT admins centralized authority to enforce Gatekeeper policies, ensuring only trusted apps (from the App Store or identified developers) can run on school-managed Macs.

Additionally, Firewall settings can be configured remotely to block unauthorized inbound connections, adding an extra layer of defense without disrupting classroom workflows.

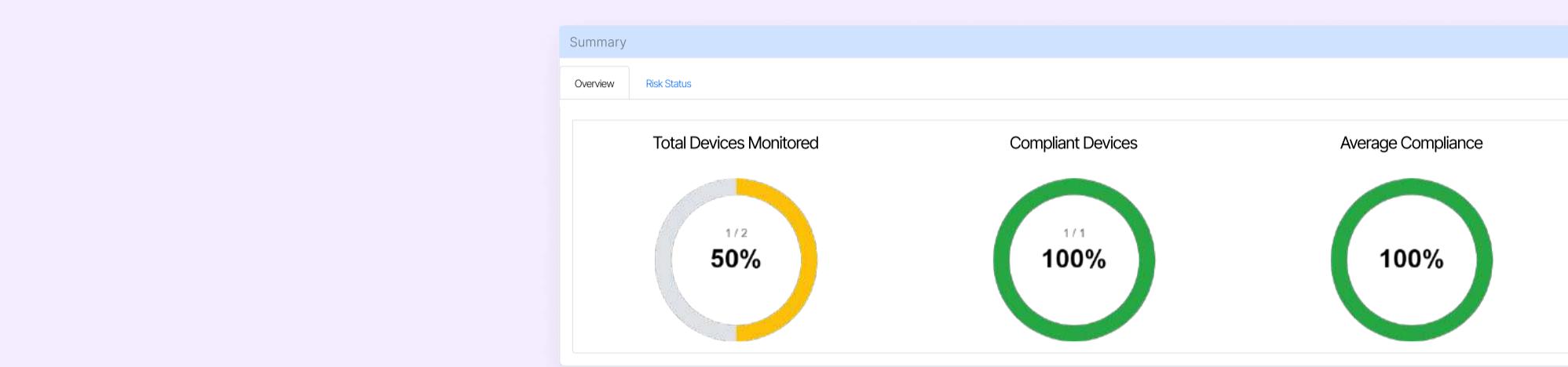
# Classroom management, zero disruptions.

Scalefusion equips IT teams and educators with the tools to keep students engaged, devices optimized, and lessons running smoothly. Because without the right safeguards, classroom devices can turn into distractions and device management headaches.



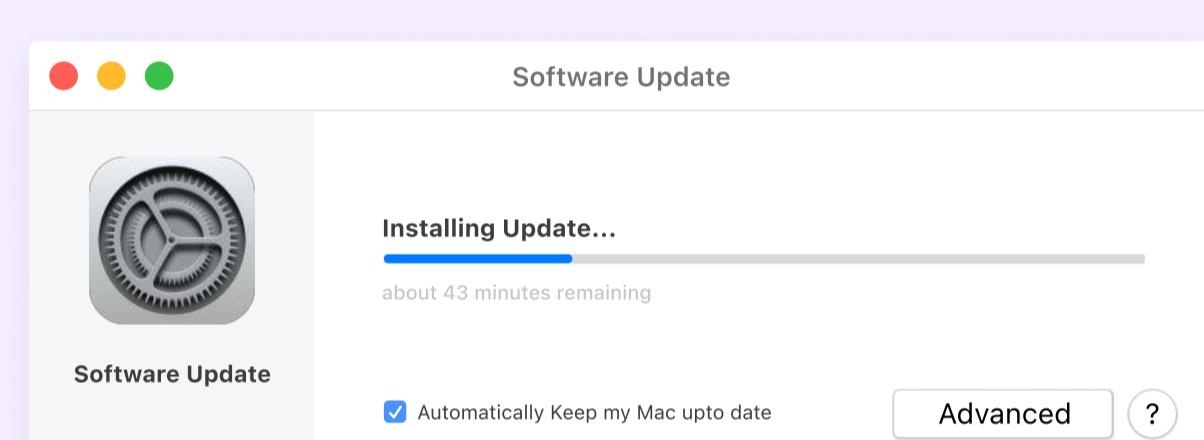
## Shared iPad support – One device, multiple students

Scalefusion enables Shared iPad mode, allowing multiple students to use the same device without overlap. Each user logs in and gets access to their apps, settings, and coursework, without affecting others. No resets, no mix-ups, just seamless transitions.



## Device inventory monitoring & reports

Scalefusion provides a 360-degree view of all devices, displaying battery health, OS versions, storage usage, and last-seen status in one place. IT teams can generate reports, spot issues early, and manage devices proactively across all locations.

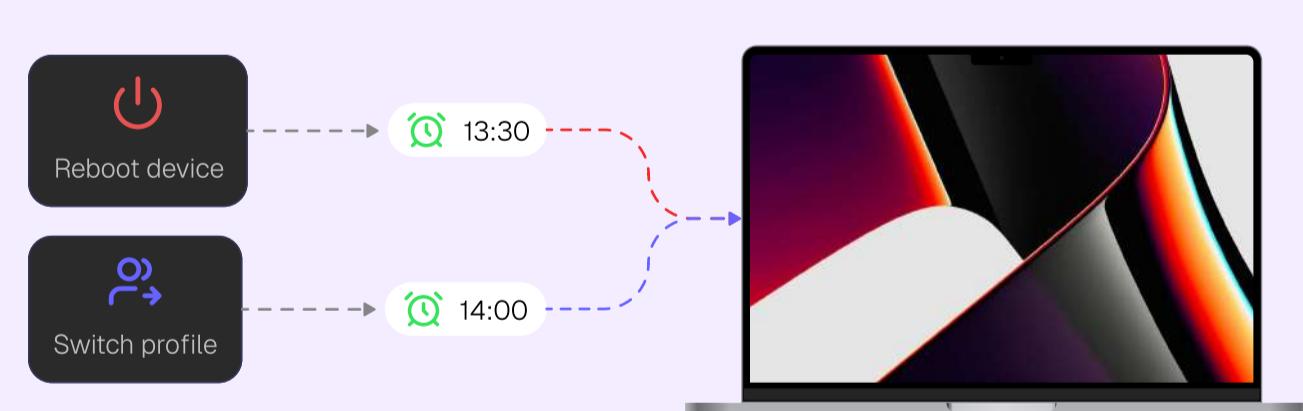


## Automated OS updates

Scalefusion ensures updates happen at the right time without disrupting lessons. IT teams can schedule OS updates after school hours and track progress in real-time. No interruptions, no outdated software risks.

## Time & location-based profile switching

Scalefusion automates device settings based on schedules and locations. Learning apps activate during school hours, restrictions ease when needed—no manual adjustments required.



## Workflows: Automate the repetitive IT tasks

Scalefusion Workflows empower IT teams to schedule and execute routine device management tasks — like clearing app data, rebooting devices, syncing policies, or sending alerts — all without manual intervention. Set it once, and let it run on autopilot.

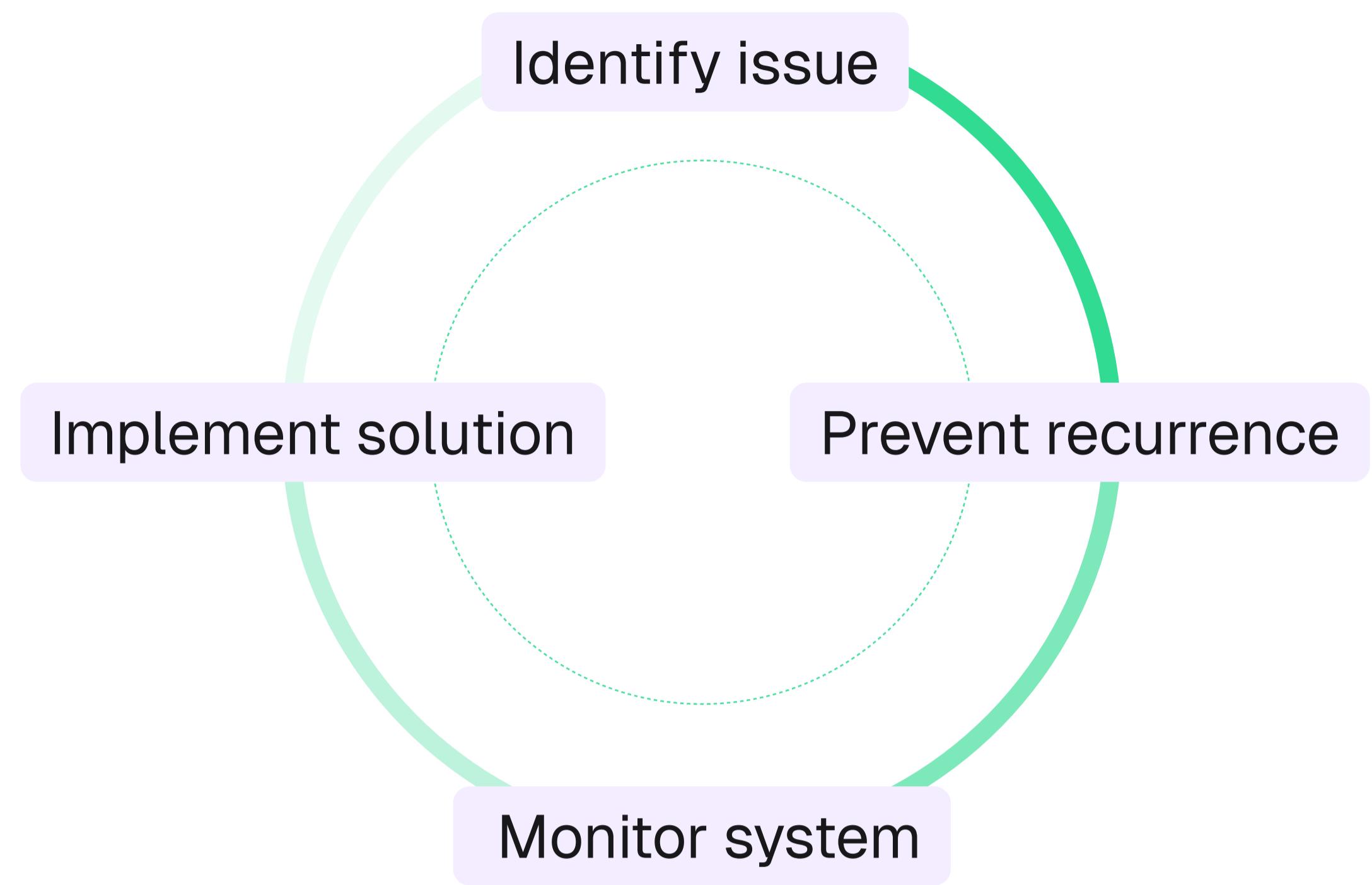


## Groups and Subgroups: Smarter device organization

With Scalefusion's Groups and Subgroups, IT teams can segment devices based on classes, grades, locations, or departments — applying specific policies, restrictions, and configurations to each group for precise and efficient management.

# Remote troubleshooting & IT support—Fix issues before they disrupt learning.

When a device malfunctions, students lose focus, teachers lose time, and IT teams scramble for solutions. Scalefusion eliminates the wait, giving IT instant access to diagnose and fix issues remotely.

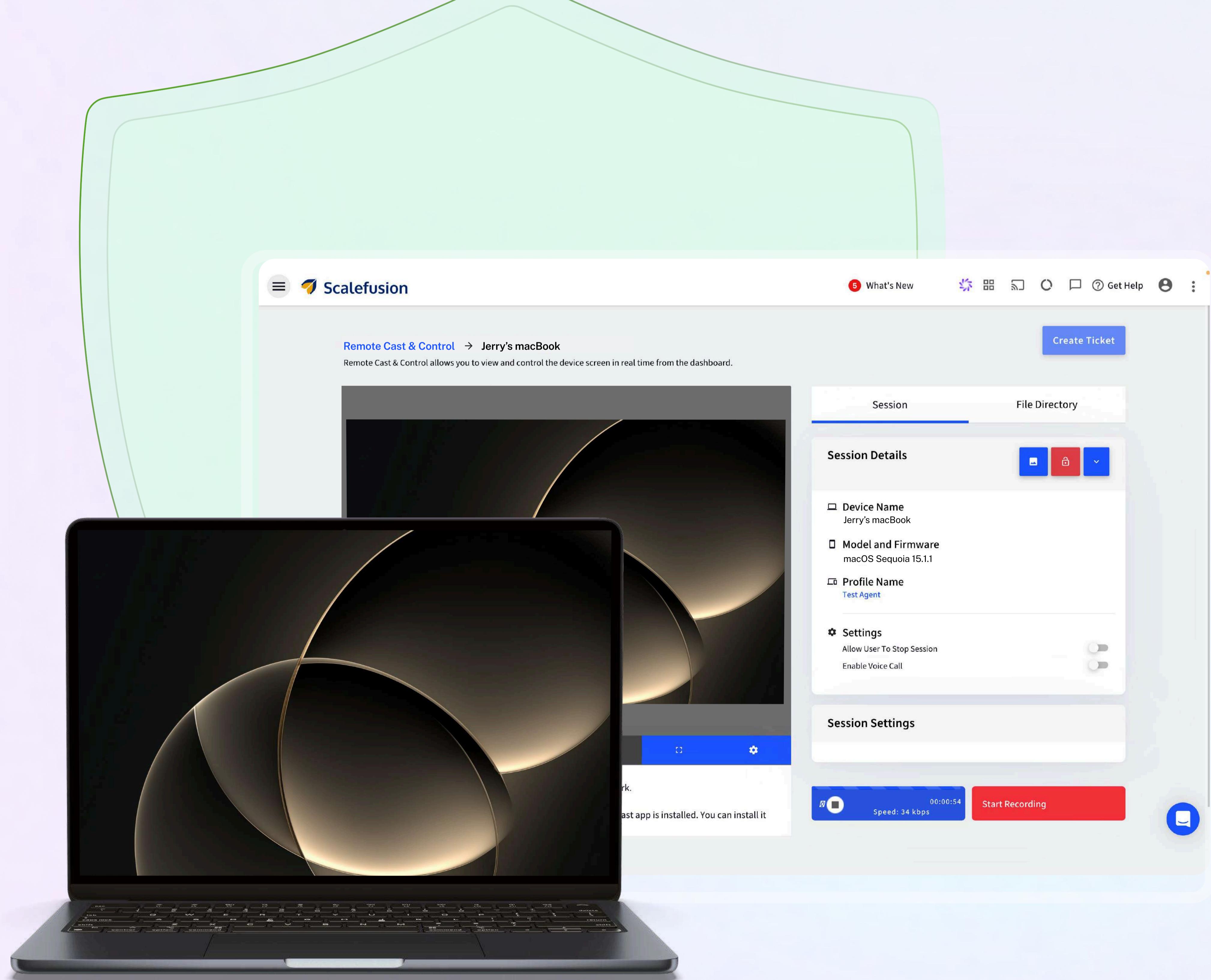


## Remote Cast & Control – Troubleshoot without leaving your desk

No need for on-site visits. Scalefusion's Remote Cast & control allows IT teams to instantly check device status, diagnose issues, and provide real-time support. Whether it's a connectivity problem, app crash, or configuration error, IT can step in remotely and resolve it within minutes.

## Automated policy updates – Consistent enforcement, zero manual effort

Manually updating settings across hundreds of devices is time-consuming. Scalefusion automates policy enforcement, ensuring every device stays compliant with the latest security, usage and access policies. Changes are rolled out remotely—no delays, no inconsistencies.



# Where digital learning is headed, Scalefusion is already there.

You know that education is no longer confined to textbooks and classrooms. It's immersive, intelligent, and limitless. AI-driven personalization, real-time analytics, and AR-powered learning are becoming the foundation of tomorrow's education. Schools need tech that simply "keeps up." They need tech that anticipates, adapts, and accelerates change.

Scalefusion doesn't chase the future, it builds for it. Security that never falters. Automation that never lags. Command that never weakens. Scalefusion ensures device management is never the bottleneck or the roadblock, but always the enabler.

With an unwavering commitment to innovation, it continuously builds and refines features—always ready for what's next.

Fuel digital learning  
with *Scalefusion Apple*  
*device management.*

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