



C3 CLOUD CONTROL

Micro-Clouds provide a localized e-Learning experience in schools, solving a huge issue facing students and schools worldwide. But the same issues that create the need for the micro-clouds in the first place (networking and infrastructure limitations) also make it a challenge to deploy and manage these systems. That's why a well-designed cloud-central portal is so crucial – giving administrators the ability to service literally thousands of micro-clouds across a nation/region from a single point, whenever network resources allow.

C3 Cloud Control is the leading cloud portal for the deployment and management of education micro-clouds. Resident in either a public or private cloud, **C3 Cloud Control** portal gives administrators one point from which they can manage content, applications, curriculum, users, and systems. Even more important, any updates or changes to these areas (such as new texts, security policies, or system software updates) can be applied to authorized micro-clouds on demand, as they are able to connect with their **C3 Cloud Control** instance.

KEY FEATURES



CONTENT DISTRIBUTION AND SYNCHRONIZATION

Users can create and distribute content—such as texts, e-books, learning games, etc— to any authorized **C3 Micro-Clouds**. This content can be created directly by the **C3 Cloud Control** user, or a list of already curated content in several different languages can also be selected. When updating existing content, **C3 Cloud Control** can synchronize only the portions that have been changed. Updated learning materials and resources are always available for more dynamic and engaging classes.



APPLICATION DISTRIBUTION AND SYNCHRONIZATION

C3 Cloud Control allows a user to remotely assign different applications—such as Moodle, Kolibri, OpenEMIS, Wordpress, among others—to authorized **C3 Micro-Clouds** and to fully control the application lifecycle, from installation to removal. These applications are approved for use on the **C3 Micro-Cloud** and will be valuable tools to enrich the e-Learning process, even in the most remote environments.



REMOTE MANAGEMENT

Whenever a connection is available from a local **C3 Micro-Cloud**, it is possible to remotely access the device, apply custom configurations and do remote maintenance and updates. This allows an entire region to change/edit the content any time, anywhere, and know that it will sync whenever the micro-cloud next connects.

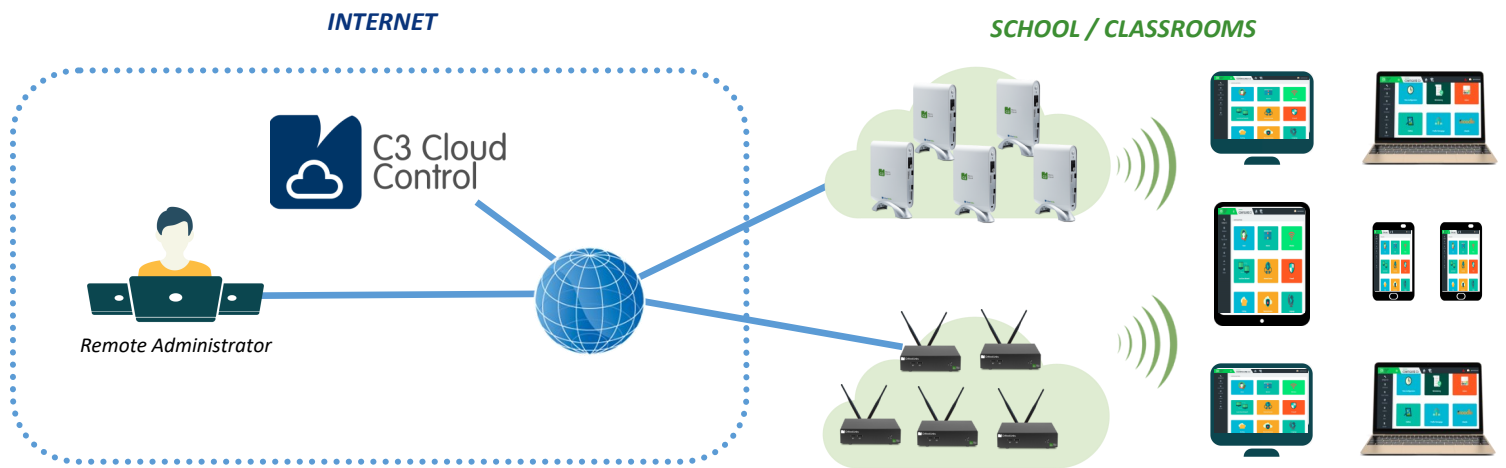


USAGE STATISTICS

A **C3 Cloud Control** instance can gather and centralize usage statistics from the **C3 Micro-Clouds** under its control. It's possible to get an easy overview of how often different pieces of content are being viewed, which users are the most active, what is the disk usage, or even if a specific **C3 Micro-Cloud** is online or offline.

END-TO-END SOLUTION ARCHITECTURE

1. **C3 Cloud Control** is a service offered by Critical Links, which can be accessed via the public cloud or hosted in your private cloud environment.
2. All content, applications and configurations can be curated centrally, and stored in the **C3 Cloud Control** Repository
3. When remote **C3 Micro-Clouds** have an available internet connection, new/updated content and applications can easily and automatically be pushed to each **C3 Micro-Cloud**
4. In a similar manner, administrative and security policies can be set centrally within your **C3 Cloud Control**, and updated to the authorized **C3 Micro-Clouds** in the network on demand, ensuring common use of user profiles, security and usage policies, etc.
5. Through this approach, thousands of **C3 Micro-Clouds** throughout a country/region can be managed from a single point, allowing standardization of the e-Learning experience as well as ensuring the richest learning environment possible for any/all schools and their students



REQUIREMENTS

HARDWARE

Minimum Requirements

- ✓ Xeon Quad-Core
- ✓ Minimum Memory: 8GB
- ✓ Base Storage Required: 1TB

Hypervisors Supported

- ✓ VMware ESX
- ✓ Microsoft Hyper-V
- ✓ Citrix Xen Server
- ✓ Proxmox VE

Public Cloud Support

- ✓ AWS
- ✓ Google GCP
- ✓ Microsoft Azure

SOFTWARE

Operative System:

- ✓ Ubuntu Linux Server 18.04 LTS

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