IMPROVING EDUCATION EVERYWHERE

To deliver the learning experience required in today's world, e-Learning tools and instant access to digital content are key.

The **C3 Micro-Cloud** is the leading solution to dramatically simplify and manage the delivery of digital content, applications, and e-Learning capabilities to schools, regardless of infrastructure challenges or internet connectivity limitations.

The **C3 Micro-Cloud** offers a range of powerful capabilities making it easy for students, teachers, and administrators to curate, publish, manage, and consume content. All delivered in a framework that is both powerful, flexible, and customizable.

THE C3 MICRO-CLOUD IS COMPRISED OF:

The **C3 Micro-Cloud** is a local appliance that provides a complete cloud-based environment in a small footprint. It creates a safe network environment with a local content repository and e-Learning tools. When Internet is available, the **C3 Micro-Cloud** manages, filters and optimizes connectivity. Each **C3 Micro-Cloud** can be managed by the **C3 Cloud Control** for content curation, distribution, and management.

The **C3 Micro-Cloud** is a complete, end-to-end software solution spanning the local micro-cloud—for classroom and school functions— to the central Cloud Control (for content and applications curation, distribution, and configuration management). When Internet is available, the **C3 Micro-Cloud** connects to the **C3 Cloud Control** to get updated and syncronized. management to **C3 Micro-Cloud**.

The **C3 Micro-Cloud** comes with Foundation LMS, a basic learning management system which provides student and teacher resources to enable the e-Learning experience. For more advanced requirements, the **C3 Micro-Cloud** ships with Moodle - a leading **LMS** - to allow more advanced implementations of the e-Learning experience.

THE C3 MICRO-CLOUD PLATFORM

Enables e-Learning in environments WITHOUT Internet connectivity

DIGITAL CONTENT:
Access your digital content instantly (Manuals, Wikipedia, Khan Academy, Videos), etc, in any scenario

APP HUB:
Allow easy access to locally cached resources

Improves classrooms WITH Internet connectivity

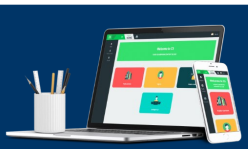
INTERNET SPEED:
Accelerates Internet speed with intelligent dynamic caching (videos/ pages)

INTERNET ACCESS:
Filter Internet access by user profile

C3 CLOUD CONTROL:
Manages remotely hundreds' schools from a central dashboard

PLUG-AND-PLAY MICRO-CLOUD:
easy to use in any scenario

WI-FI ACCESS POINT:
To allow easy access to locally cached resources



COMPATIBLE WITH ANY DEVICE:
Chromebook, desktops, tablets, mobile

USER MANAGEMENT:
Manages content and configuration of schools from a central location.

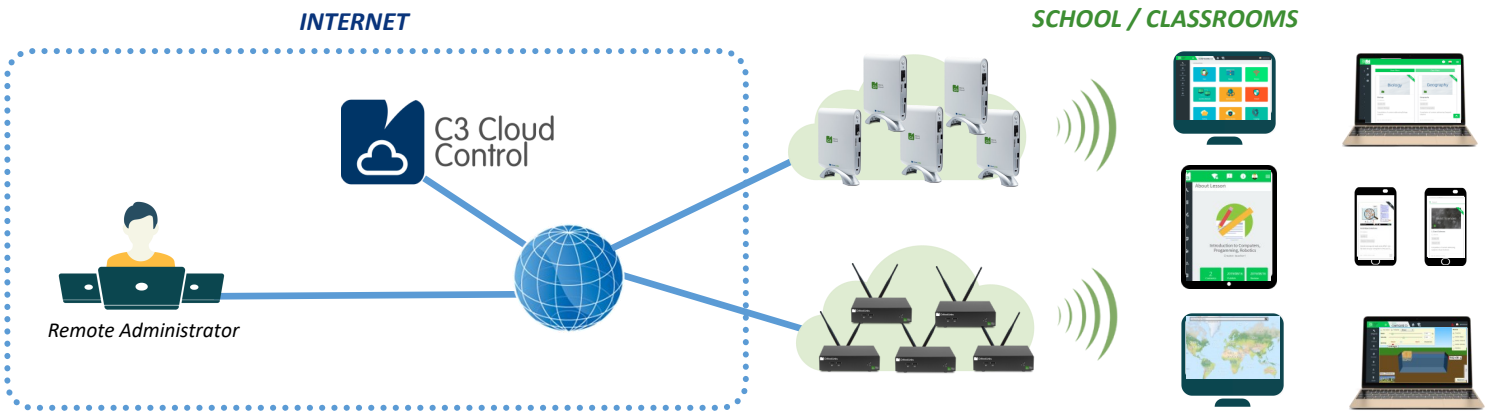
USAGE STATISTICS::
Content and Internet (when available)

HOW DOES C3 MICRO-CLOUD WORK?

The **C3 Micro-Cloud** integrates cloud-based content, curation, and management with a local point of presence. The result is the power of cloud-based e-Learning even in locations that may not always have internet access:

END-TO-END SOLUTION ARCHITECTURE

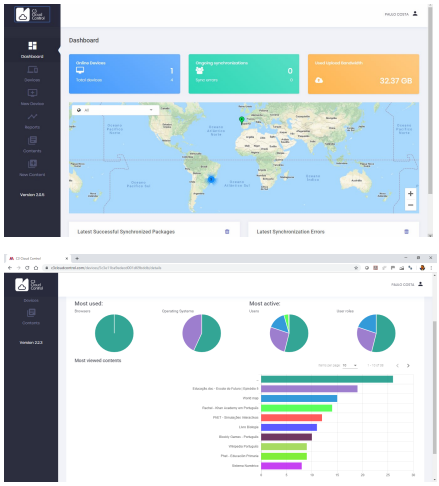
1. The **C3 Micro-Cloud** provides a local Wi-Fi access point, so that students and teachers can connect directly with the micro-cloud device and access all applications, services and content directly, even if 'upstream' network services are not available.



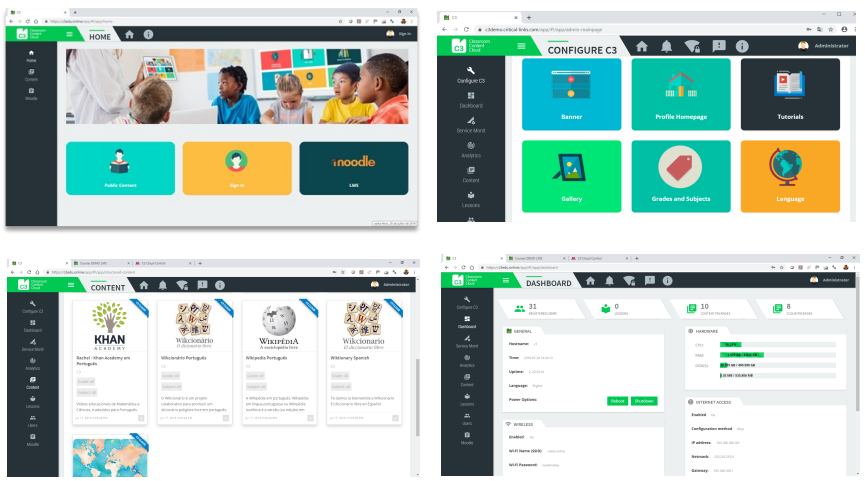
2. Content, in the form of texts and other resources, can be centrally curated in the **C3 Cloud Control**, and distributed to any authorized **C3 Micro-Cloud** whenever a network link is available. In addition, added value resources such as those from approved HTTP and HTTPS web sites can also be included in the local repository - again to be available even if the upstream network is down. Teachers can also load their own content locally, for use with their students - for a more customized learning experience.

3. With the **C3 Cloud Control**, not only can content, applications and resources be managed centrally, but so can administration and management. Security policies, usage policies, user access levels - all can be managed centrally for an entire region/country of authorized C3s, to ensure uniform compliance and education throughout the entire system.

C3 Cloud Control Screenshots



C3 Micro Cloud Screenshots



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PRODUCT PORTFOLIO

Features

C3 Micro-Cloud Family	C3 Classroom	C3 Hybrid			C3 School	
Model	C50	H100	H200	H300	S500	S1000
Dimensions	18.3 x 19 x 2.8	18,5 x 4.4 x 19.7			TBD	
Storage	Up to 1TB	Up to 2TB			Built to order	
RAID Support	N/A	N/A			Optional	
Wi-FI Access Point bgn/ac (up to 50 concurrent users)	Yes	Optional			N/A	
Supported Concurrent Users *external network equipment requirement	Celeron (Up to 50)	Celeron (Up to 100*)	Core i3 (Up to 200*)	Core i3 (Up to 300*)	Xeon (from 500*)	Xeon (up to 1000*)
Ethernet WAN Interface (1Gbps Ethernet)	Yes	Yes			Yes	
Ethernet LAN Interface (1Gbps Ethernet)	Not available	Yes			Yes	
External Mobile Interface (3G/4G)	Optional	Optional			Optional	
Battery Backup	Optional	Optional			N/A	

Learning Features

Digital Content Repository	Supports any type of content (static web sites, Office files, PDF, video, audio, images)
Offline Resources	Wikipedia, MicroBit, Khan Academy, WordPress, Moodle
Video Caching	Download video from URL for offline viewing
Pre Loaded Content	Project specific or publicly available content can be preloaded at manufacturing
Lesson planning	Teachers can aggregate related content packages in class specific lessons
Learning Management System	Interactive LMS based on latest Moodle version

Administration Features

Local Network & Domain	Creates a local network for teachers and students with: Active Directory compatible domain, DNS, DHCP
User Authentication	Support user authentication with local or remote single sign-on capability
Profile Management	Support profile management with preconfigured standards for administrators, teachers, students and guests
Customizable Interface	Organization or school configurable logos and color branding
Landing Page	Configurable landing page per user profile (e.g. Student page; Teacher page)
3rd Party Applications	Easily add additional applications (App HUB)

Internet Features

Internet Gateway	Routes and controls Internet bound traffic by profile
Internet Caching	Optimizes Internet usage by caching HTTP and HTTPS requests
Whitelisting	Optionally filters and limits Internet access by user profile
Firewall	Protects access to C3 Micro-Cloud applications from outside users
C3 Cloud Control	Centralized and remote dashboard for content and application distribution, and configuration management to the C3 Micro-Cloud
CloudVPN	Enables easy access to C3 Micro-Cloud for remote management/troubleshooting
Online Updates	System software updates from Critical Links managed update center

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