



Specification - The McCloud

McCloud is a hybrid-cloud implementation of Medusa shared-workspace infrastructure technology, designed for rapid, reliable and very low cost deployments. Yet this new development also brings an improvement in performance of nearly ten times in throughput, load complexity and reduced latency.

Medusa connects premises to the Internet with resilience, manages traffic bandwidth, and enables both company networks and individual users to receive the services they have purchased. It manages onsite devices such as switches to deliver these services while ensuring security with other users.

Applications

Because of its low cost, McCloud now makes very small deployments viable.

New functionality has been added to create powerful customer management in coworks and clubrooms, meeting rooms suites, hospitality and hotels, events and conferences, and similar open area spaces.

By integrating with 3rd party cloud-based management platforms, completely automated processes from sale to use can be achieved whilst still offering a wide choice of solution.

McCloud is also used for single task applications, such as hosted voice management, or guest/meeting areas in single enterprises, or facilitating a building wide Wi-Fi roll-out.

McCloud still includes traditional Medusa Server functionality, and so it scales well for deployment in the largest of conventional business centres and business parks as well.

What is Hybrid-Cloud?

Very simply, the intelligence and user interface for our technology is moved online, leaving the onsite appliance or chassis to do just its core task: manage the onsite infrastructure.

That is one reason (apart from our redesign) why we anticipate this platform can manage 10 Gbps of data to 1000s of users.

Cloud designs are more secure, robust, and easier to use, whilst always being up to date.

Purchasing Model

McCloud is available as a monthly subscription as a managed service, including hardware. Still supplied with our popular helpdesk support!

More information

Contact sales@medusabusiness.com for pre sales materials or view the latest information on www.medusabusiness.com

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Features unique to McCloud

People network (device accounts)

- Set a bandwidth plan for each account type (Personal, Visitor, Member, Meeting, Other).
- Assigning an account to a company will ensure devices use the Service Plan bandwidth allocation for that company. The device cannot network with the company (that needs the Roamer Bridge option), but it does share the company bandwidth allocated.
- Full presence tracking is implemented so that all device accounts on the People network record their arrival and departure automatically and invisibly.

Enhanced Gateway

- Email verification of Guests within a timed window
- Multisite recognition of member or guest, with appropriate action. Authenticate once and check in any site in group.
- Enhanced Presence Tracking data

Integrations & API

- New functionality available via Integrations to generate highly automated deployments
- API available Q2 2017 – invited partners only.

Changes in Diagnostics

- New traffic monitors on company networks
- New real time bandwidth graphs are easier to use
- Automatic updates and scheduler

Management

All interaction is via the remote cloud portal at <https://MyMc.Cloud>. This can be accessed from anywhere that has an Internet connection.

Hardware

We now have a micro chassis suitable for very small locations as well as the standard shelftop and high-performance 1U chassis, which can exceed 1 Gbps of Internet.

Choose your chassis based on cost, size and grade.

High Performance Firewall

Our new firewall works much faster and a bit differently than the old one.

Rebuild

Rebuild the chassis from a config. file downloaded via the UI and USB stick.

Restrictions

Unlike previous Medusa systems, McCloud cannot have local site customisations added – only the functionality on the UI is available. Some legacy functionality and reporting has been dropped.

Medusa Core Specification

Firewall & Security

- **Medusa Firewall** with outbound IP tagging for companies
- **Multiple Public IP subnets** per WAN.
- **Multiple circuit (WAN ports)** including **load balancer** and persistent session tracking, **auto fail** on circuit down over with active probe of circuit status.
- **Public IP pass through** to company networks, isolated to company, with routed or port-forwarded methods.

People & Wi-Fi (see McCloud unique features above as well)

- **People Hotdesk Module**, offers named user, timed, device access tied to mac address. Wired & Wi-Fi interchangeable. 5 account types for Visitors, Members, devices.
- **Branded Gateway** offers access to device accounts as Members or Guests, and includes Integration options.
- **Enhanced Gateway** with email verification, multi-site recognition.
- **Presence tracking** - hours on site, use accounting.
- **Housekeeping** cleans up expired and unused guest accounts.
- **Simple billing** reports on usage.

Companies & Site Networks

- **Up to 200** independent Company & Special networks as standard with isolation and security
- **Switch Control:** Multiple switch banks across site.
- **Extended Patchless operation** – zero patch with full control of customer networks including private networks and up to 7 functions per network port.
- **Desktop Common Services** - Special networks for common printer/scanner/fax, Network store for onsite backup, IPTV, building security.
- **Company billing report** including quota, dark hours, excess use, and periodic charges.
- **Service Plan Management:** 'at a click' service plan changes using standard plans or "groups" to deliver Internet performance controls. Unlimited Shared and Guaranteed Bandwidth plans with optional shared user load balance (local IP).

Traffic and Bandwidth Management

- **Bandwidth Guarantees:** delivers uncontended bandwidth to company with any unused bandwidth available to shared bandwidth users. Guarantees can optionally burst into shared bandwidth.
- **Single company plans** limit on shared service plans
- **Burst and performance limit controls** by customer and some traffic types. Hierarchical (multi-stage).
- **Device type** bandwidth limits on People network (McCloud only)
- **Traffic Management:** 9-level Queue based Quality of Service, Packet Routing & QoS rules, Sin-bin.

Admin Management

- **Operator Status Page** with Go/NoGo indicators at-a-glance information.
- **Company Management Menu:** Segregated network, billing, public IP management, with routing or forwarding, provisioning data, DHCP on local IP setup for 'plug and go'.
- **Company network extended local:** resources include IP Aliases, DHCP option codes, DHCP reservation by MAC, MAC based roaming.
- **Role-based administration** with unique user accounts
- **Audit trail** of admin UI changes by person and role
- **Reporting Menu:** Volume data records by time period, Traffic Graphs (MRTG), export CSV data.
- **'Patchless'** Database controls room drops (jacks) from the User Interface – assign both customer and function. Floor and switch IDs
- **Reporting Analysis** - Extensive suite of Circuits, Company and Service Plan use,

Room and Drop Database, Switch Management

- **Create Rooms and Drops** and in software patch these to switch ports.
- **Multiple comms rooms** (data rooms) supported on UI where switches are distributed.
- **Medusa Managed** switch ranges include:
 - Cisco SG & SF 300 and 500 ranges; 26xx, 37xx families and others
 - HP 25xx and 26xx and some others
 - Allied Telesis 8000S and GS ranges
 - Some Extreme switches (legacy)
- **Switch Bank Expansion** – Multistack fiber extension and hierarchical VLAN trunks (for large scale expansion to multiple floors and external buildings).

Diagnostics & Operations

- **Diagnostic** utilities and suite network probes. Real time bandwidth graphical displays. TCP dump, ARP, Active Circuit monitoring, speed test.
- **System alerts** on out-of-bounds behavior.
- **Online backups** of configuration and data.

Voice Support

- **Converged** - Voice VLAN offers converged (back of handset) voice & data.
- **Hosted Telephony** support management and routing.
- **Handset Management** – central provisioning, updates, DHCP option codes
- **Voice Switch** management and routing: Avaya, Cisco, Mitel (Not McCloud)

Performance

- Actual performance depends on chassis selected
- Tested to switch 2500 end points on 80 switches and over 1 Gbps throughput
- Operated with 200 simultaneous operating companies and 2000 people device accounts

Options

- **Roaming** on wired and wireless to home network – removes need for multiple SSID networks on Wi-Fi.
- **Company Portal** for user access to traffic graphs, usage and provisioning data
- Live active '**Dual Redundant Medusa**' failover for high reliability
- **Integrations** with cloud management platforms and CRMS like Mailchimp (enhanced unique features for McCloud)
- **API** for remote integration remote use. Invitation only.

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